APPENDIX F

BEACH SEDIMENT CORE PHOTOGRAPHS

– BLACK SAND BEACH

BSA1 0-0.5
9/9/09
1828

BSA2 -0.5-1.5
9/9/09
1829

BSA3 1.5-2.5
9/9/09
1830

BSB1 0-0.5
9/9/09
1850

BSB2 0.5-1.5
9/9/09
185

BSB3 1.5-2.5
9/9/09
1852

BSC1
9/9/09
1640

BSC2
9/9/09
1642

BSC3
9/9/09
1643

BSD1-0-0.5
9/9/09
1711

BSD2-0.5-1.5
9/9/09
1712

BSD3 1.5-2.5
9/9/09
1713

BSE1-0.0-0.5
9/9/09
1750

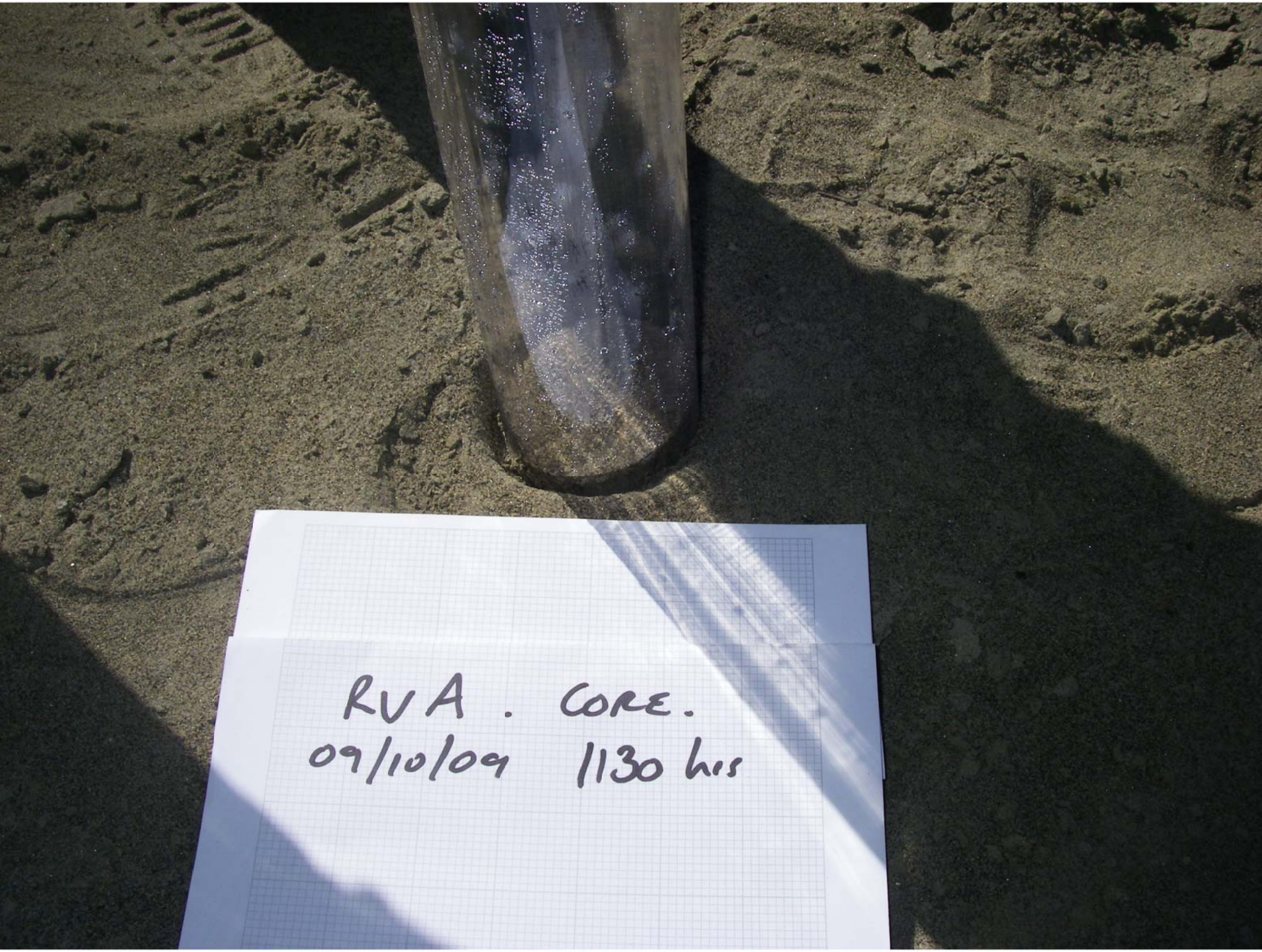
BSE2-0.5-1.5
9/9/05
1752

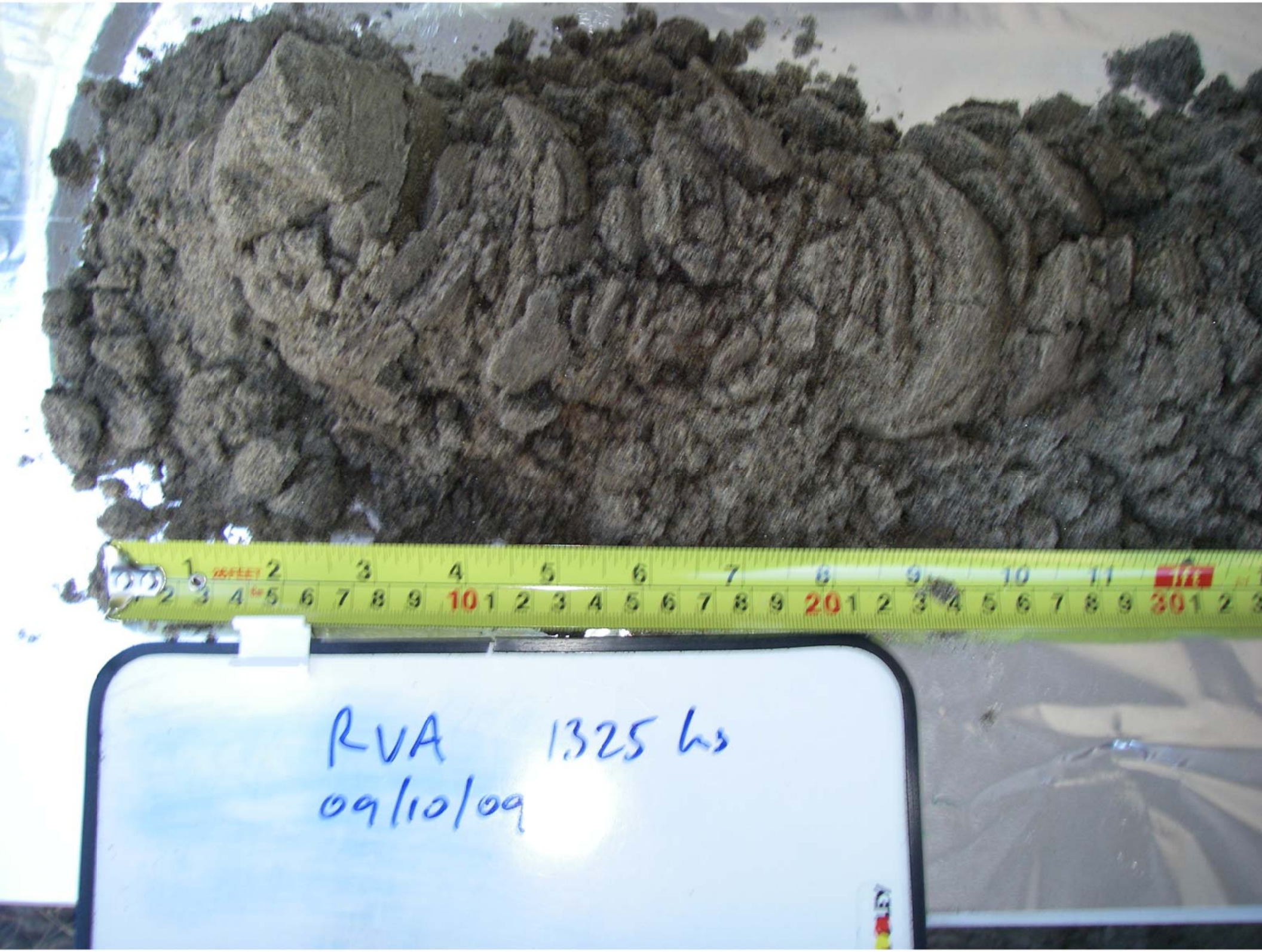
BSE3-1.5-2.5
9/9/09
1753

APPENDIX F

BEACH SEDIMENT CORE PHOTOGRAPHS

– UPPER COLUMBIA R.V. PARK


RV A . CORE.
09/10/09 1130 hrs

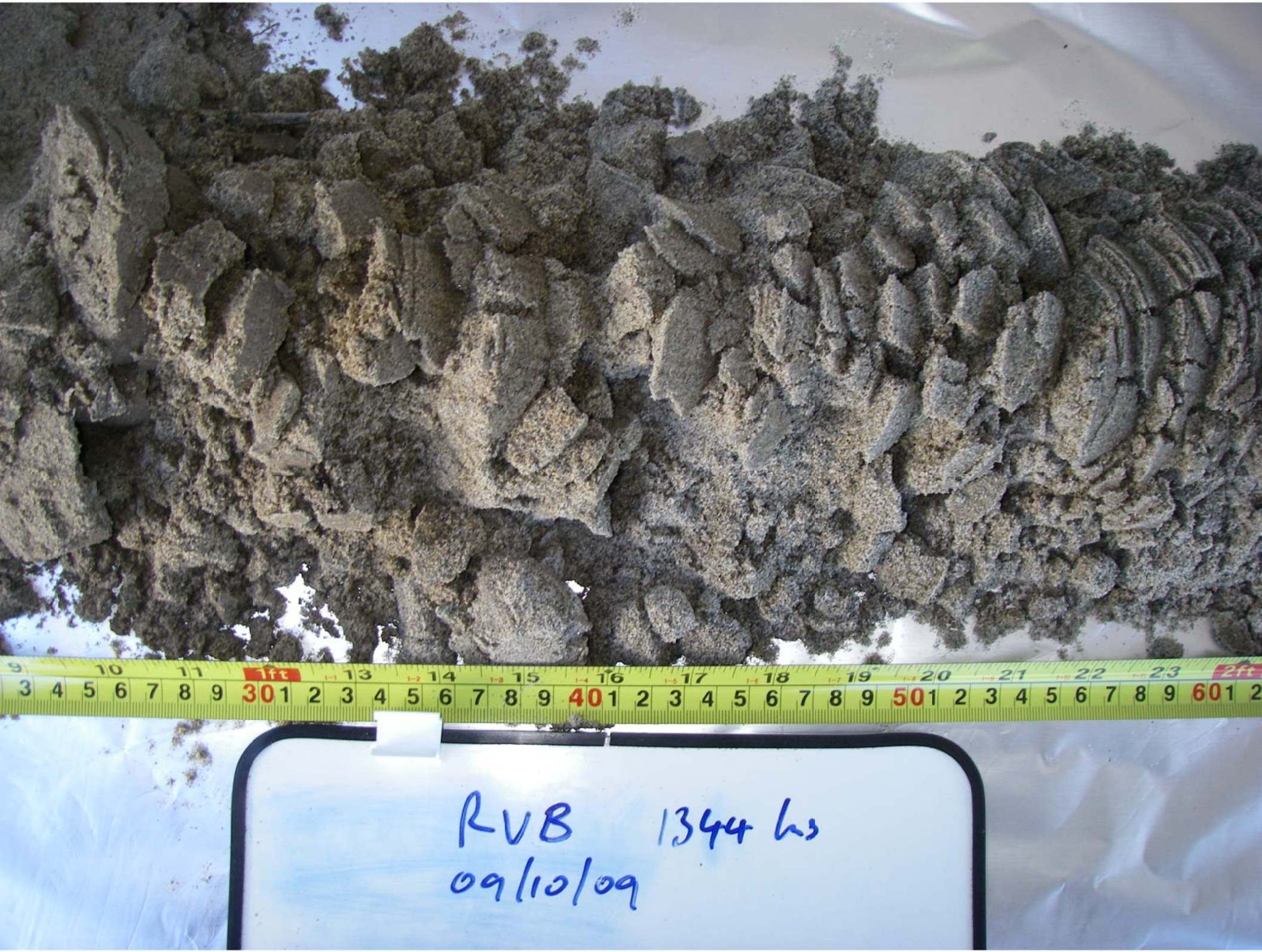

RVA 1325 hs
09/10/09

RVA 1325 hrs
09/11/09

RVA 1325 hs
09/10/09

CORE RVB.
09/10/09 1115 hrs

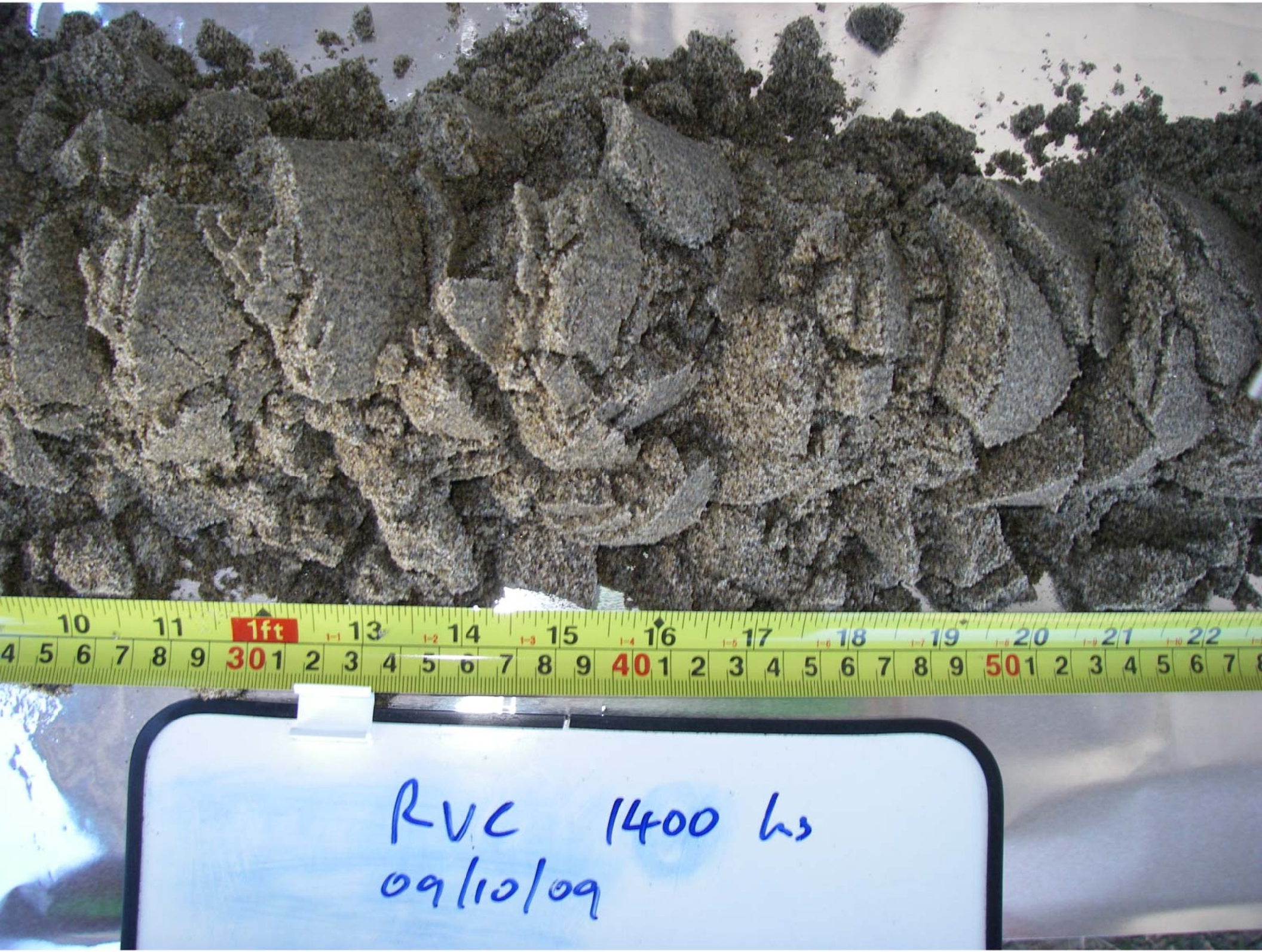
RVB 1344 hs
09/10/09


RVB 1344 hs
09/10/09

RVB 1344 hrs
09/10/09

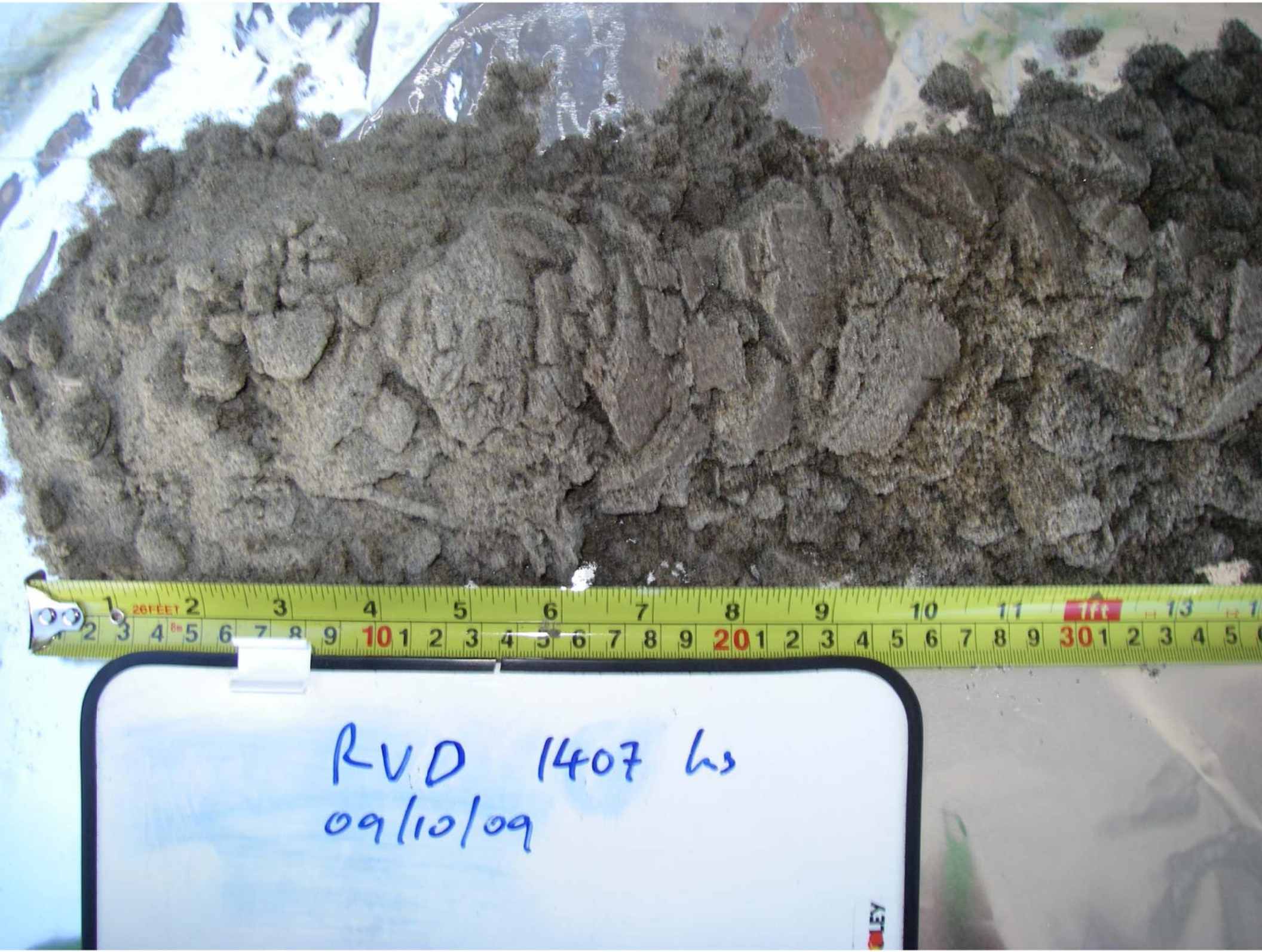
RVC - CORE
09/10/09 1200hrs

RVC 1400 hrs
09/10/09


RVC 1400 hrs
09/10/09

RVC 1400 hs
09/10/09

RV D - CORE
09/10/09 1148 hrs


RVD 1407 hrs
09/10/09

1ft
RVD 1407 hs
09/10/09

RVD 1407 hs
09/10/09

CORE RVE.
09/10/09 1212 hrs

RVE 1422 hs
09/10/09

1ft
RVE 1422 hs
09/10/09

RVE 1422 hrs
09/10/09

APPENDIX F

BEACH SEDIMENT CORE PHOTOGRAPHS

– NORTHPORT BEACH

UCR BEACH
4/29/10 1442
NP-109
COREA

UCR BEACH
4/29/10 CORE A
NORTHPORT
HORIZON A
Reynolds Wrap
HEAVY DUTY
Strong Enough for your Toughest situations!
BOONE

UCR BEACH
4/29/10 CORE A
NORTHPORT
HORIZON B

UCR BEACH
4/29/10 CORE A
NORTHPORT
HORIZON C
BOONE

NP-9
UCR BEACH
4/29/10 1501
NP-91
CORE B

UCR BEACH
4/29/10 1:53 hrs
NP - 91
CORE B, HORIZON A

UCR BEACH
4/29/10 1:53 hrs
NP - 91
CORE B, HORIZON B

UCR BEACH
4/29/10 1:53 hrs
NP - 91
CORE B, HORIZON C

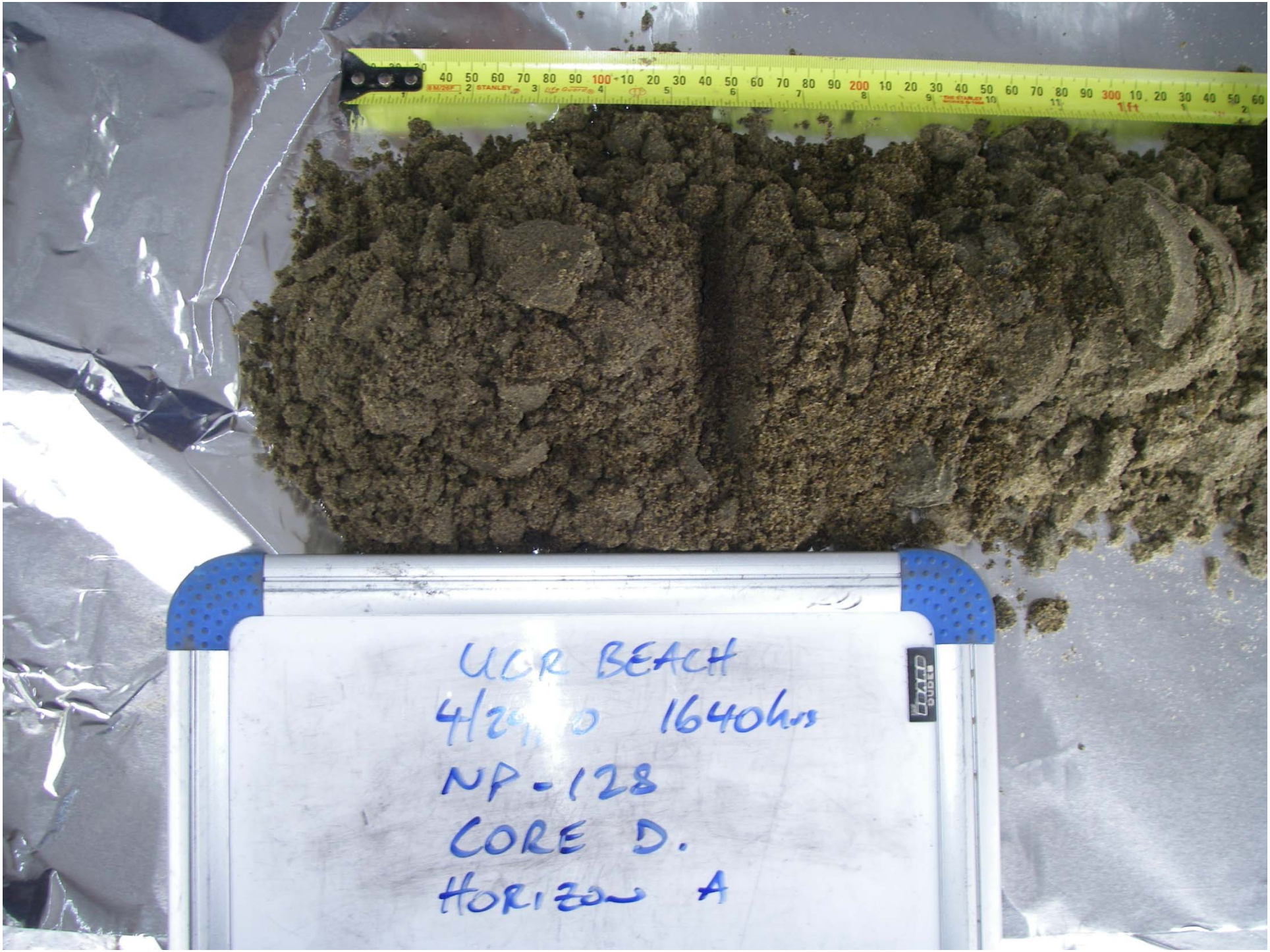
UCR BEACH
4/29/10 1534
NP-119
CORE C

UCR BEACH
4/29/10 CORE C
NORTHPORT
HORIZON A

UCR BEACH
4/29/10 CORE C
NORTHPORT
HORIZON B
BOONE

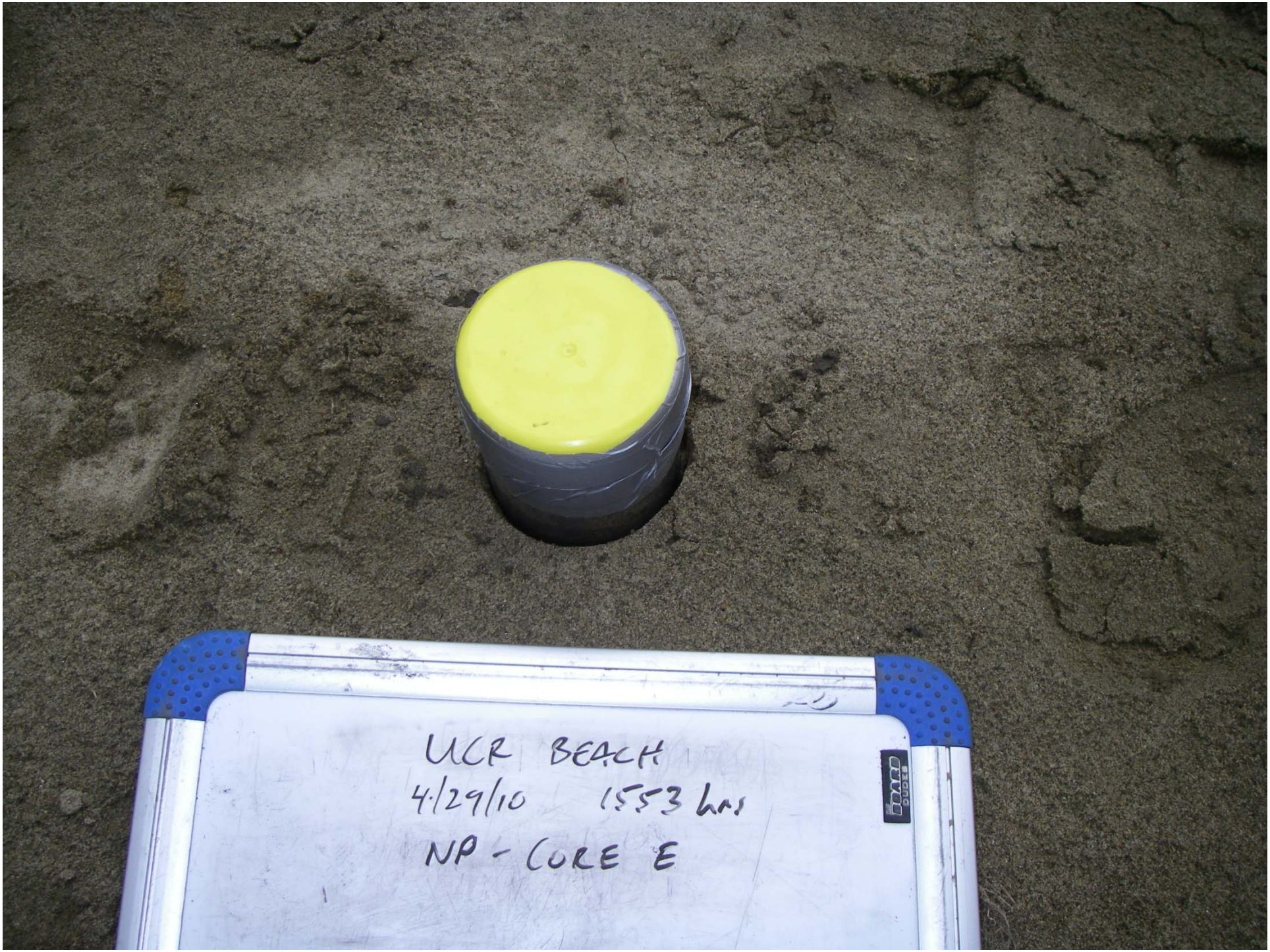
UCR BEACH
4/29/10 CORE C
NORTHPORT
HORIZON C

UCR BEACH
4/29/10 1543
NP-128
CORE D


UCR BEACH
1640hrs
NP-128
CORE D.
HORIZON A

BEACH
4/29/10 1640hrs
NP-128
CORE D.
B

BEACH
4/29/10 1640hrs
NP-128
CORE D.
HORIZON C


UCR BEACH
4/29/10 1553 hrs
NP - CORE E

UCR BEACH
4/29/10 CORE E
NORTHPORT
HORIZON A
Reynolds Wrap
HEAVY DUTY
TRUSTED SINCE 1947
EXPO
dry erase
chisel
BOONE

UCR BEACH
4/29/10 CORE E
NORTHPORT
HORIZON B
BOONIE

UCR BEACH
4/29/10 CORE E
NORTHPORT
HORIZON C

APPENDIX F

BEACH SEDIMENT CORE PHOTOGRAPHS

– DALLES ORCHARD

UCR BEACH
4/29/10 1055 hrs
DS - 219
CORE A
BOONE

4/29/10
UCR Beach
DS-219 Horizon A

4/29/10
UCR Beach
DS-219 Horizon B

4/29/10
UCR Beach
DS-219 Horizon C

UCR BEACH
4/29/10 1045 hrs
DS - 122
CORE B

4/29/10 UCR Beach
12:25
DS-122 Horizon A

4/29/10 UCR Beach
12:30
DS-122 Horizon B

4/29/10 UCR Beach
12:35
DS-122 Horizon C

UCR BEACH
4/29/10 1040 hrs
DS - 102
CORE C
BOONE

4/29/10
UCR Beach
DS-102C Horizon A

4/29/10
UCR Beach
DS-102C Horizon B

4/29/10
UCR Beach
DS-102C Horizon C
DS102C

UCR BEACH
4/29/10 1030 hrs
DS - 188
CORE D

4/29/10
UCR Beach
DS-168 Core D
Horizon A

88-
4/29/10
UCR Beach
DS-188 Core D
Horizon B

4/29/10
UCR Beach
DS-14,8 Core D
Horizon C

UCR BEACH
4/29/10 1025 hrs
DS - 10
CORE E

4/29/10
UCR Beach
DS-10 Core E
Horizon A

4/29/10
UCR Beach
DS-10 Core E
Horizon B

4/29/10
UCR Beach
DS-10 Core E
Horizon C
DS10 -

APPENDIX F

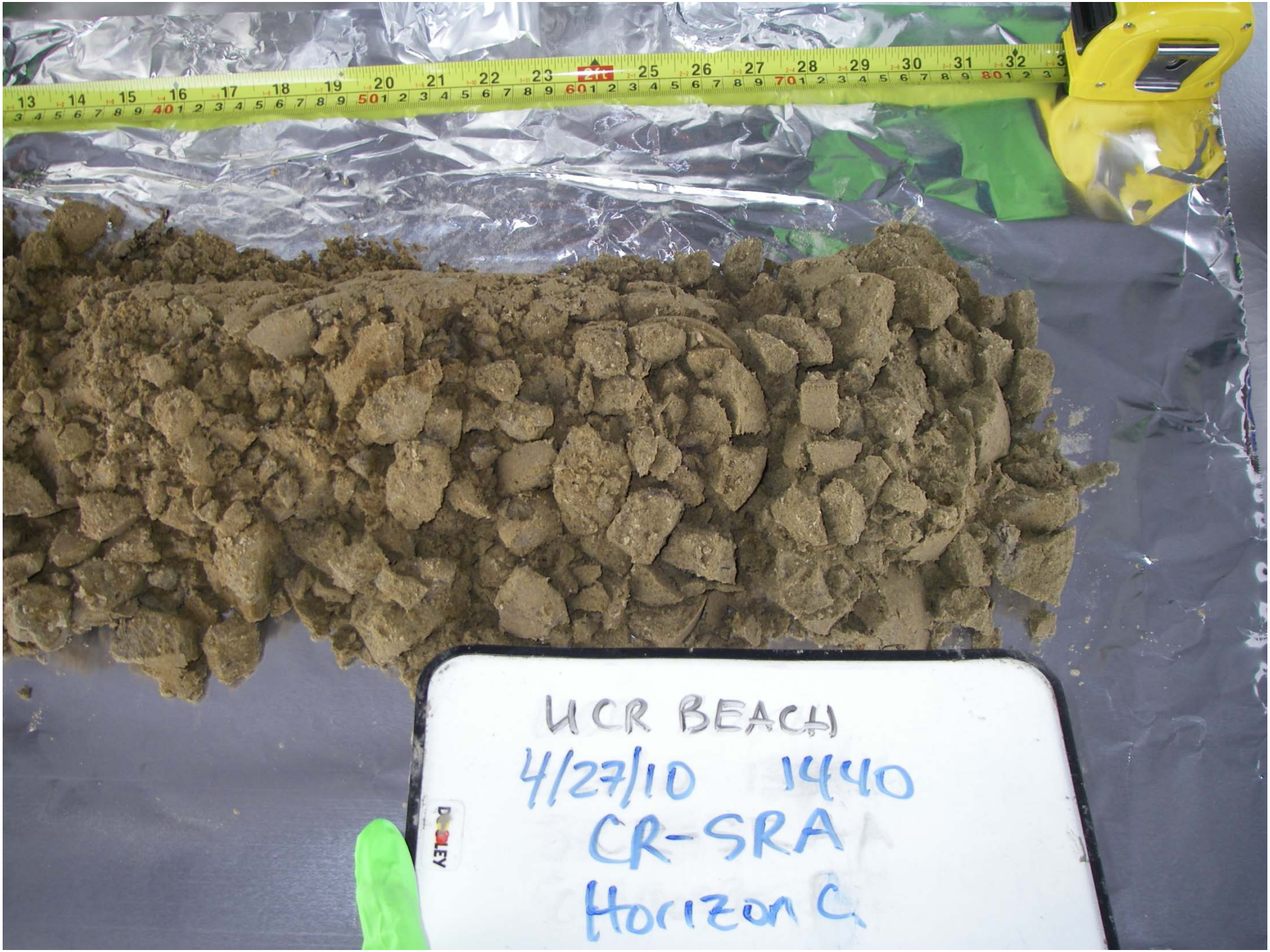
BEACH SEDIMENT CORE PHOTOGRAPHS

– SUMMER ISLAND

Summer Island Core A

UCR BEACH
4/27/10 1440
CR-SRA
Horizon A

UCR BEACH
4/27/10 1440
CR-SRA
Horizon B


UCR BEACH
4/27/10 1440
CR-SRA
Horizon C

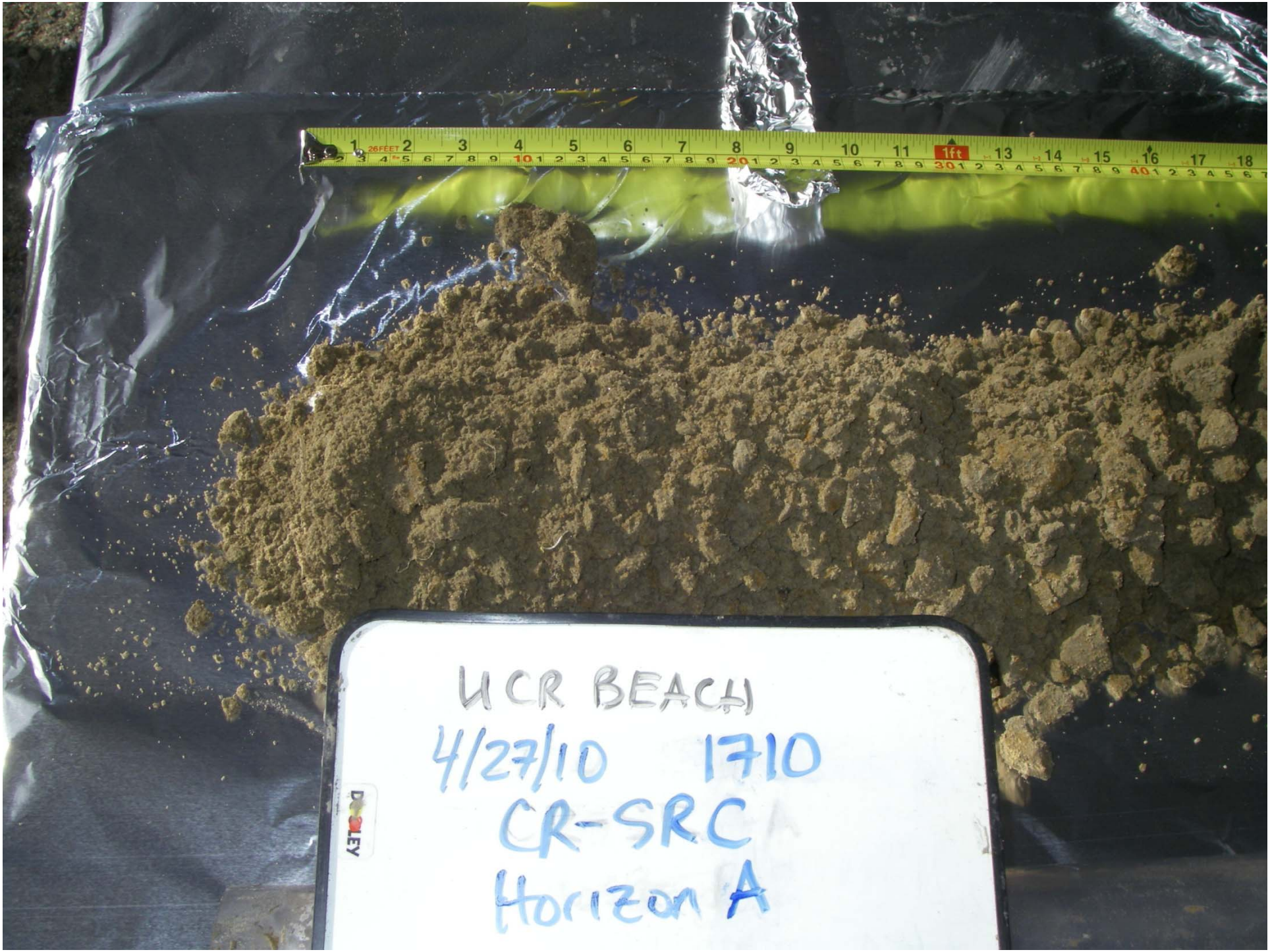
UCR BEACH
4/27/10 1315 hrs
SR 618
CORE B

UCR BEACH
4/27/10 1430
CR-SRB
HORIZON A

UCR BEACH
4/27/10 1430
CR-SRB
HORIZON B

UCR BEACH
4/27/10 1430
CR-SRB
HORIZON C

Summer Island Core C
W -118.036560, N 48.684880, 376.600m, 0.222KM, M134.420


UCR BEACH
4/27/10 1710
CR-SRC
Horizon A

UCR BEACH
4/27/10 1710
CR-SRC
Horizon B

UCR BEACH
4/27/10 1710
CR-SRC
Horizon C

Summer Island Core D

UCR BEACH
4/27/10 1730
CR-SRD
HORIZON A

UCR BEACH
4/27/10 1730
CR-SRD
4 ZONE B

UCR BEACH
4/27/10 1730
CR-SRD
HORIZON C
Wrap
HEAVY
U.S.A.

Summer Island Core E
W -118.035975, N 48.684578, 376.600m, 0.574KM, M202.910

UCR BEACH
4/27/10 1745
CR-SRE
Horizon A

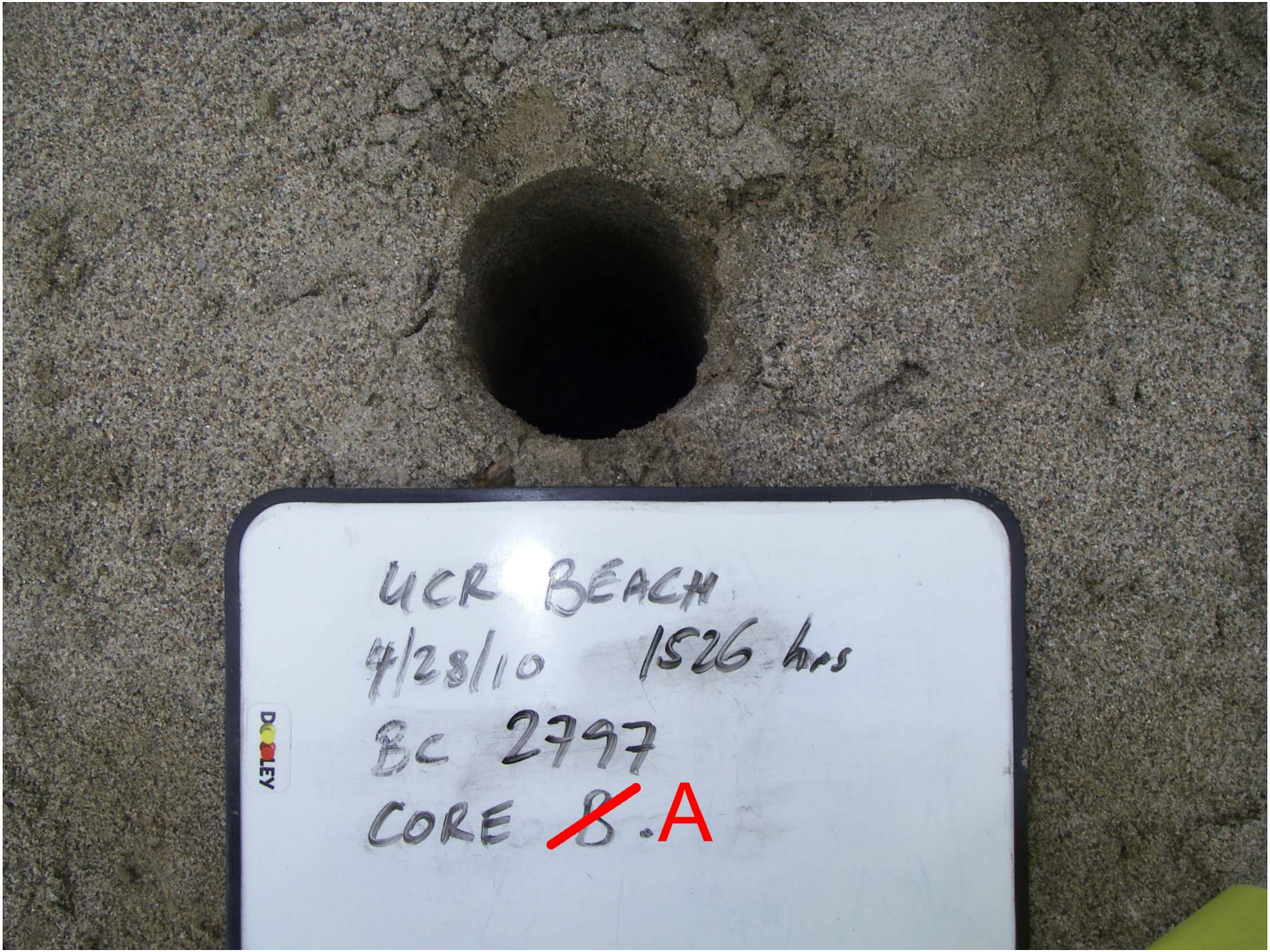
UCR BEACH
4/27/10 1745
CR-SRE
Horizon B

UCR BEACH
4/27/10 1745
CR-SRE
Horizon C
Reynolds Wrap
HEAVY DUTY
TRUSTED SINCE 1947

APPENDIX F

BEACH SEDIMENT CORE PHOTOGRAPHS

– BARNABY ISLAND CAMPGROUND


UCR BEACH
4/28/10 1526 hrs
BC 2797
CORE 8.A

UCR BEACH
4/28/10 1600
BC-2797
Horizon A

UCR BEACH
4/28/10 1600
BC-2797
Horizon B

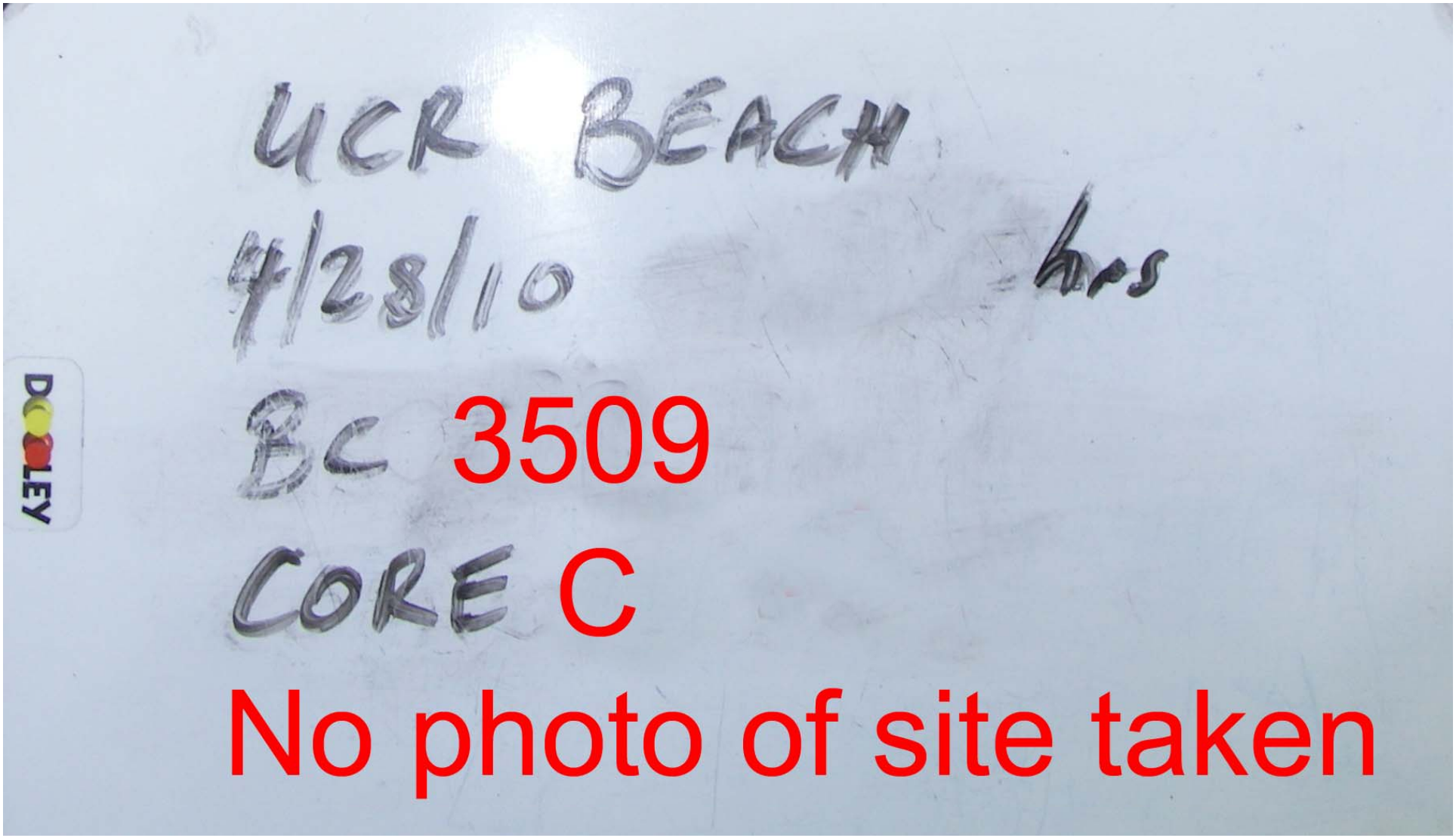
UCR BEACH
4/28/10 1600
BC-2797
Horizon C

UCR BEACH
4/28/10 1446 hrs
BC 3648
CORE B.

UCR BEACH
4/28/10
1630
BC-3648

UCR BEACH
4/28/10 1630
BC-3648
Horizon B

UCR BEACH
4/28/10 1630
BC-3648
Horizon C


UCR BEACH
4/28/10
hrs
BC 3509
CORE C
No photo of site taken

UCR BEACH
4/28/10 1700
BC- 3509
Horizon 1
BOONE

UCR BEACH
4/28/10 1710
BC-3509
Horizon 2
BOONE

UCR BEACH
4/28/10 1720
BC-3509
Horizon 3

UCR BEACH
4/28/10 1430 hrs
BC CORE D.
CORE D. Alternate

UCR BEACH
4/28/10 1730
BC- CORE D
Horizon A

UCR BEACH
4/28/10 1735
BC- CORE D
Horizon B

UCR BEACH
4/28/10 1740
BC- CORE D
Horizon C

UCR BEACH
4/28/10 1048 hrs
BC CORE E.
CORE E
Alternate

UCR BEACH
4/28/10 1800
Core E
Horizon 1
BOONE

UCR BEACH
4/28/10 1810
Core E
Horizon 2
BOONE
1ft
2ft

UCR BEACH
4/28/10 1820
Core E
Horizon 3
BOONE
2ft

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– AA CAMPGROUND

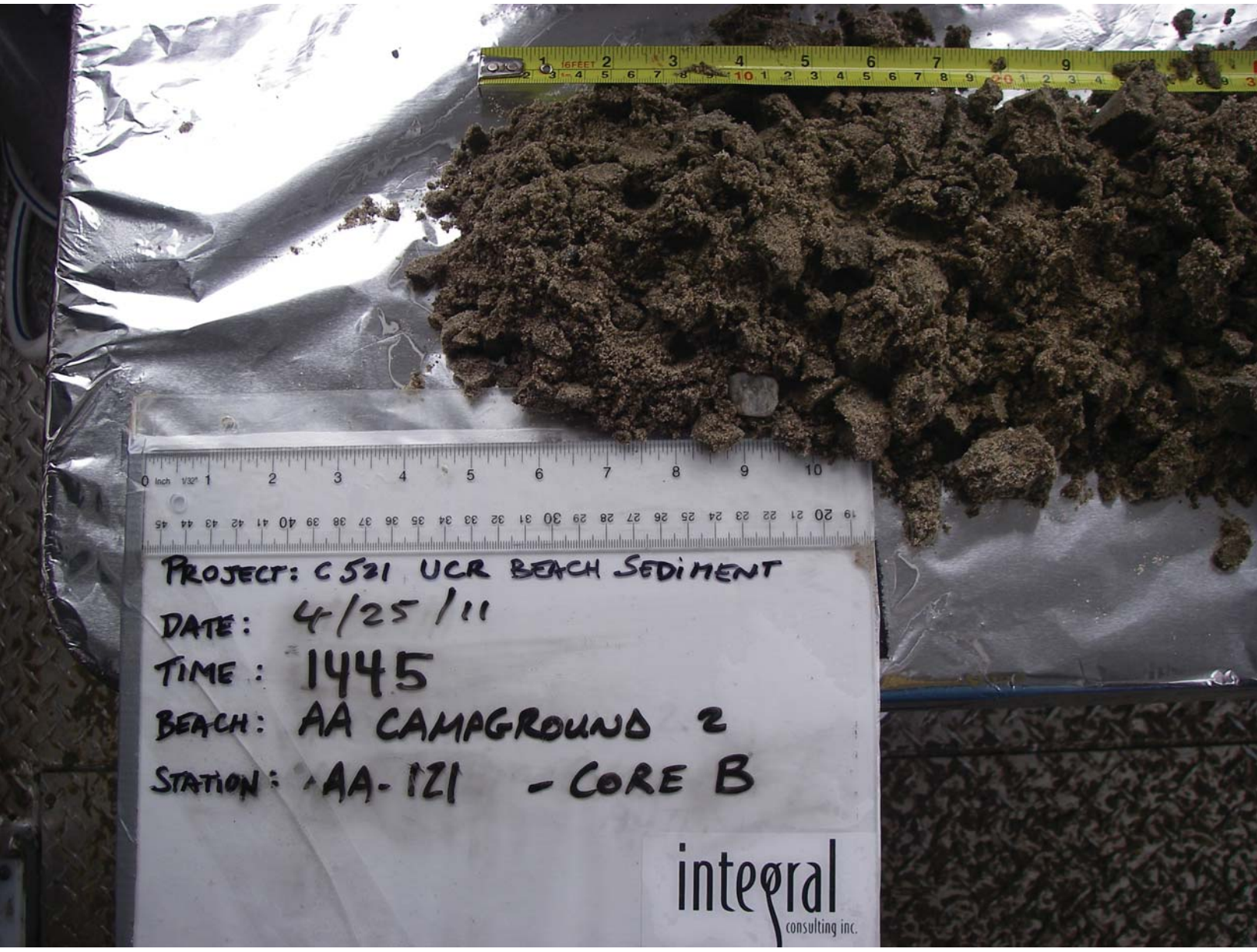
PROJECT: C521: UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1140
BEACH: AA CAMPGROUND 2
STATION: AA-256 - CORE A
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1420
BEACH: AA CAMPGROUND 2
STATION: AA-256 - CORE A
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1420
BEACH: AA CAMPGROUND 2
STATION: AA-256 - CORE A
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1420
BEACH: AA CAMPGROUND 2
STATION: AA-256 - CORE A
integral

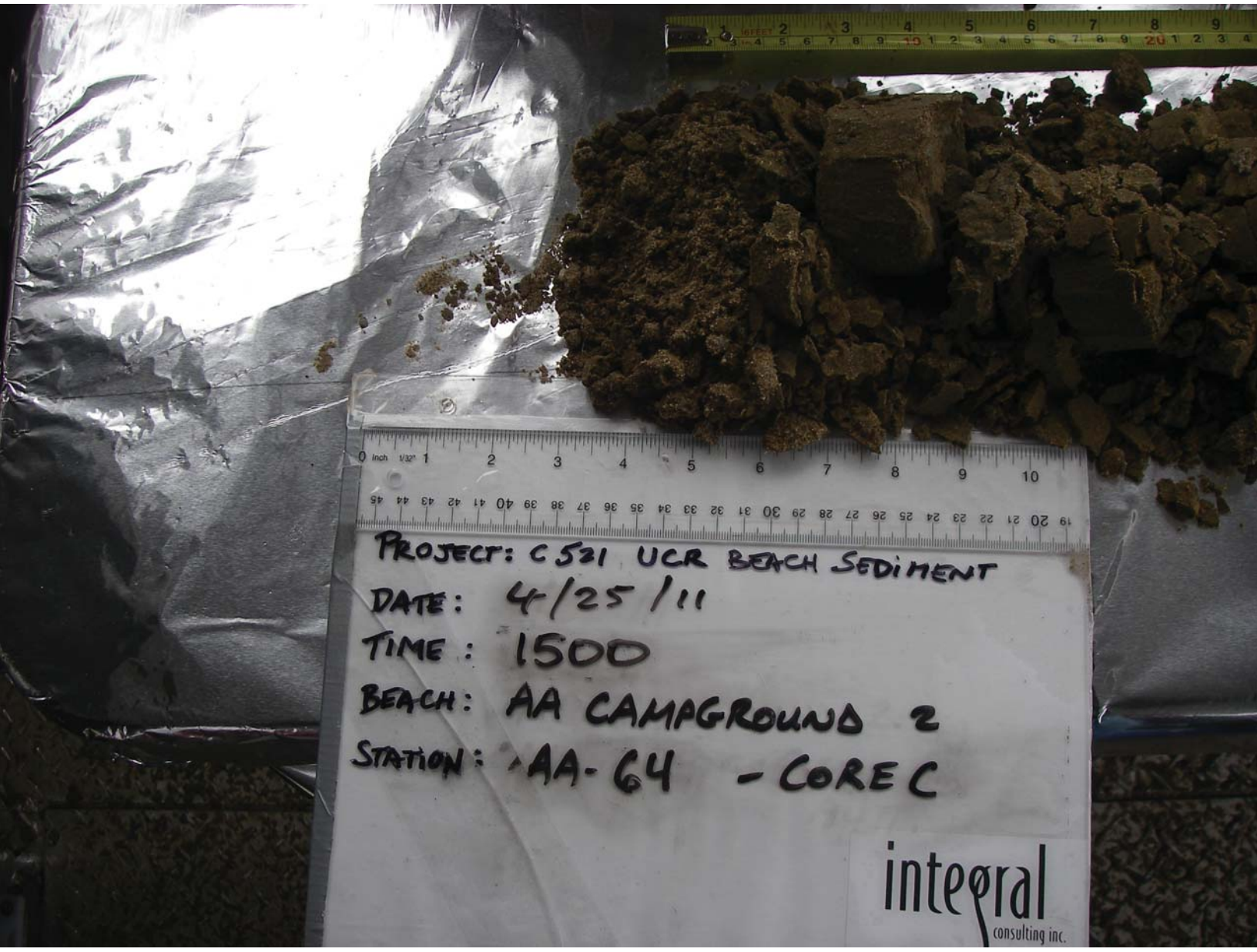
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME 1140
BEACH AA CAMPGROUND 2
STATION: AA-121 - CORE B


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1445
BEACH: AA CAMPGROUND 2
STATION: AA-121 - CORE B
integral
consulting inc.

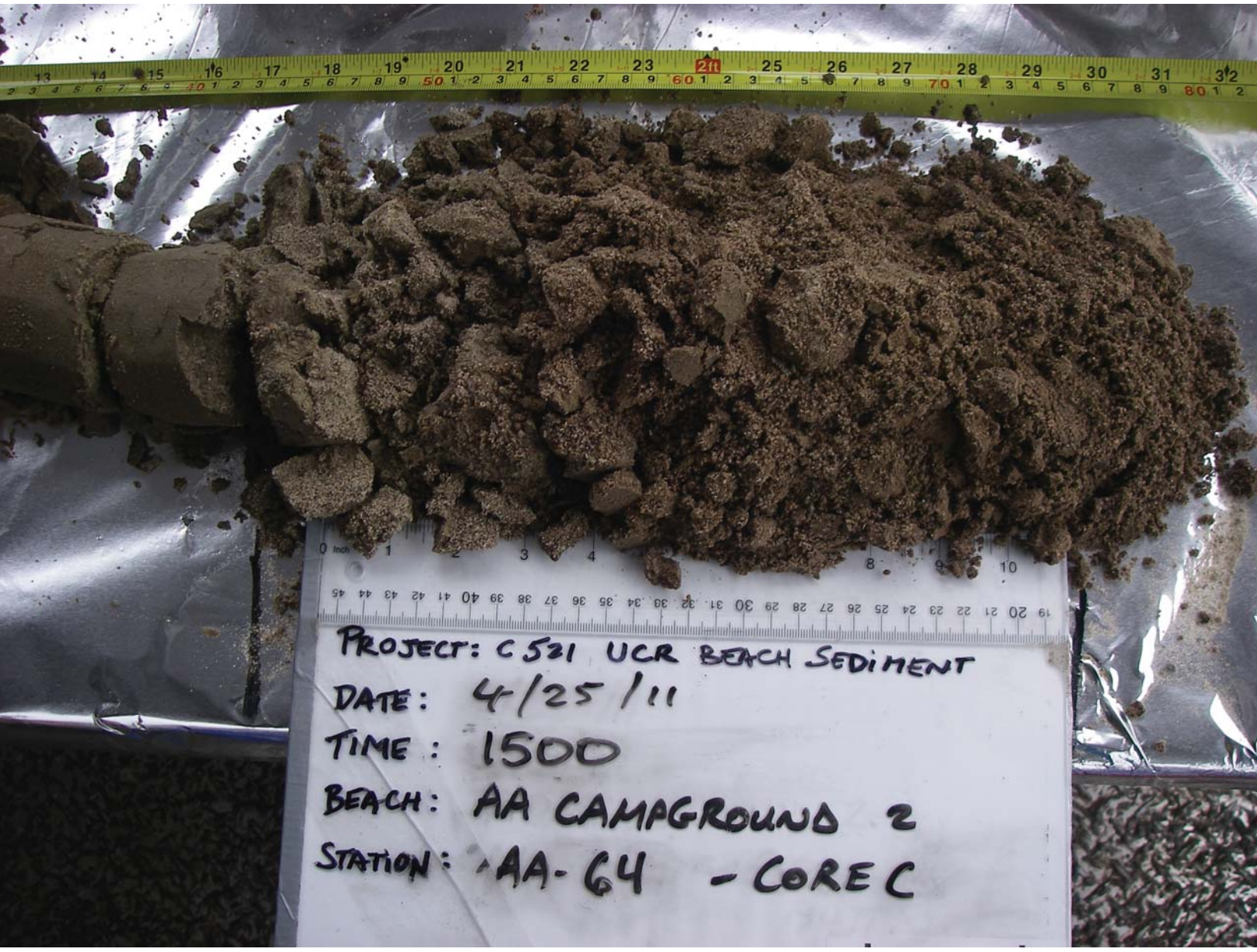
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1445
BEACH: AA CAMPGROUND 2
STATION: AA-121 - CORE B
integral

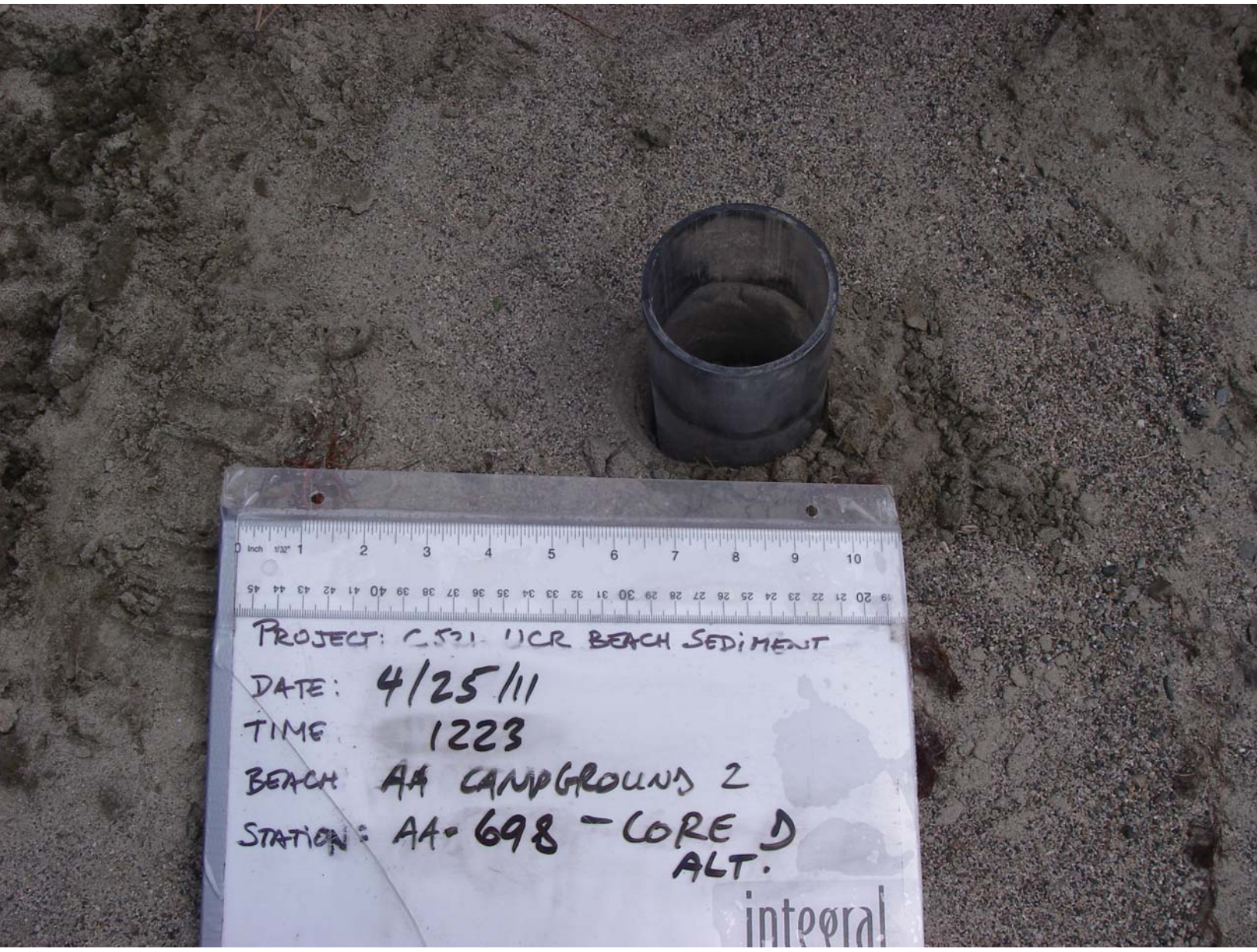
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1445
BEACH: AA CAMPGROUND 2
STATION: AA-121 - CORE B
integral

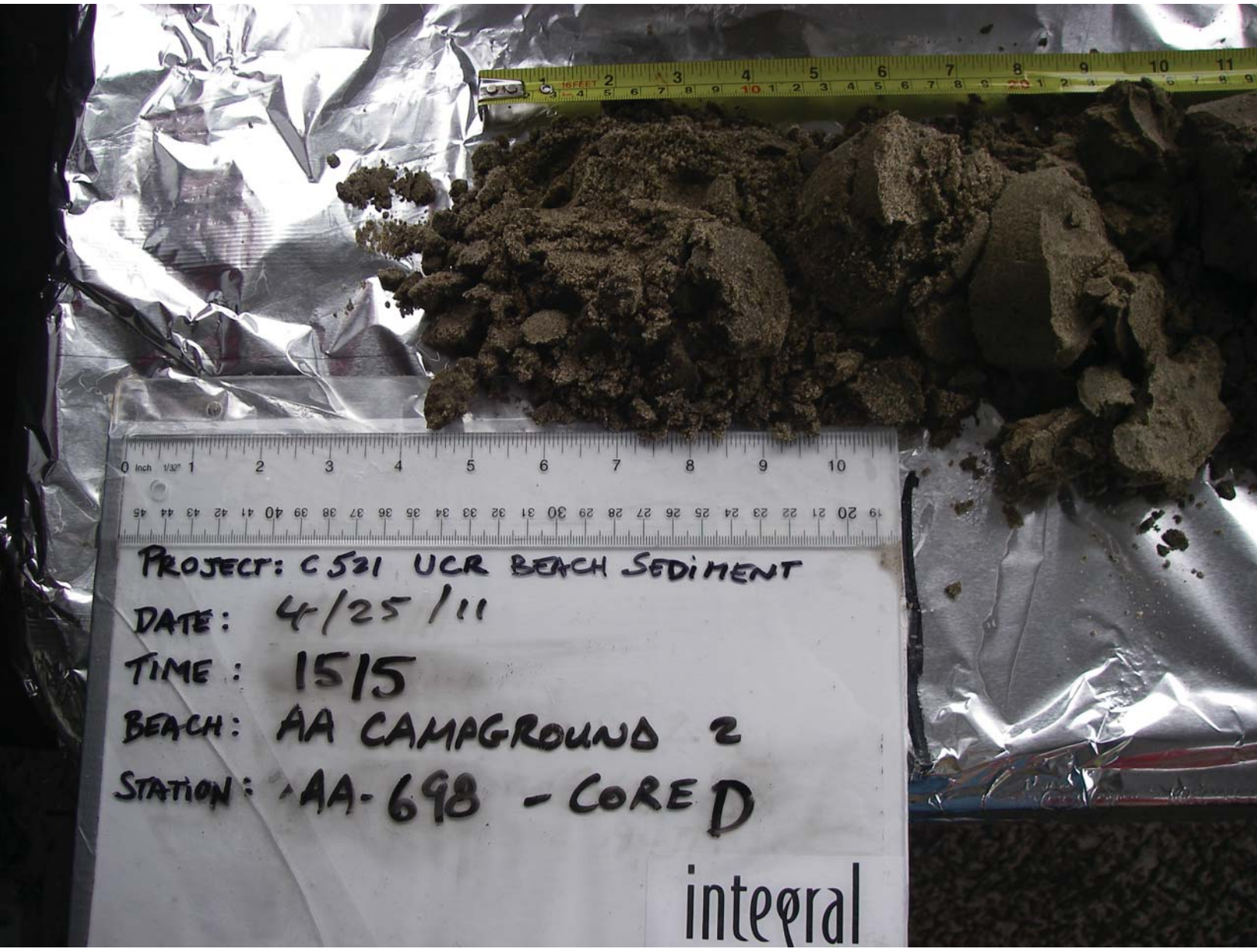
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME 1147
BEACH AA CAMPGROUND 2
STATION: AA-64 - CORE C
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1500
BEACH: AA CAMPGROUND 2
STATION: AA-64 - CORE C
integral
consulting inc.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1500
BEACH: AA CAMPGROUND 2
STATION: AA-64 - CORE C
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1500
BEACH: AA CAMPGROUND 2
STATION: AA-64 - CORE C


PROJECT: C-521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME 1223
BEACH AA CAMPGROUNDS 2
STATION: AA-698 - CORE D
ALT.
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1515
BEACH: AA CAMPGROUND 2
STATION: AA-698 - CORE D
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1515
BEACH: AA CAMPGROUND 2
STATION: AA-698 - CORE D
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1515
BEACH: AA CAMPGROUND 2
STATION: AA-698 - CORE D
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME 1211
BEACH AA CAMPGROUND 2
STATION: AA-552-CORE E
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1535
BEACH: AA CAMPGROUND 2
STATION: AA-552 - CORE E
integral
consulting inc

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1535
BEACH: AA CAMPGROUND 2
STATION: AA-552 - CORE E
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/25/11
TIME: 1535
BEACH: AA CAMPGROUND 2
STATION: AA-552 - CORE E
integral

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– BOSSBURG FLAT

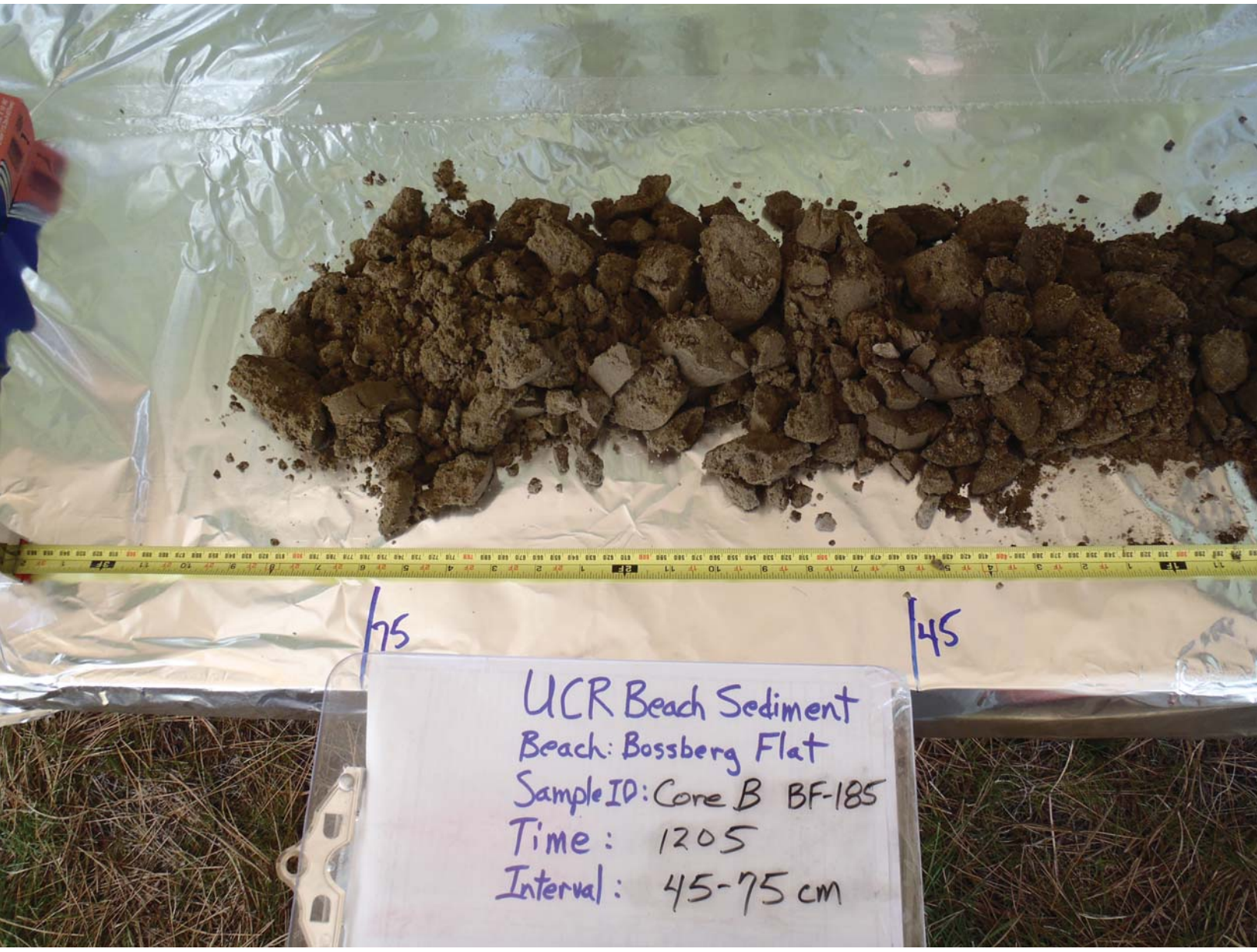
PROJECT C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-25-11
TIME 0952
BEACH: Bossburg Flat
STATION: BF-275

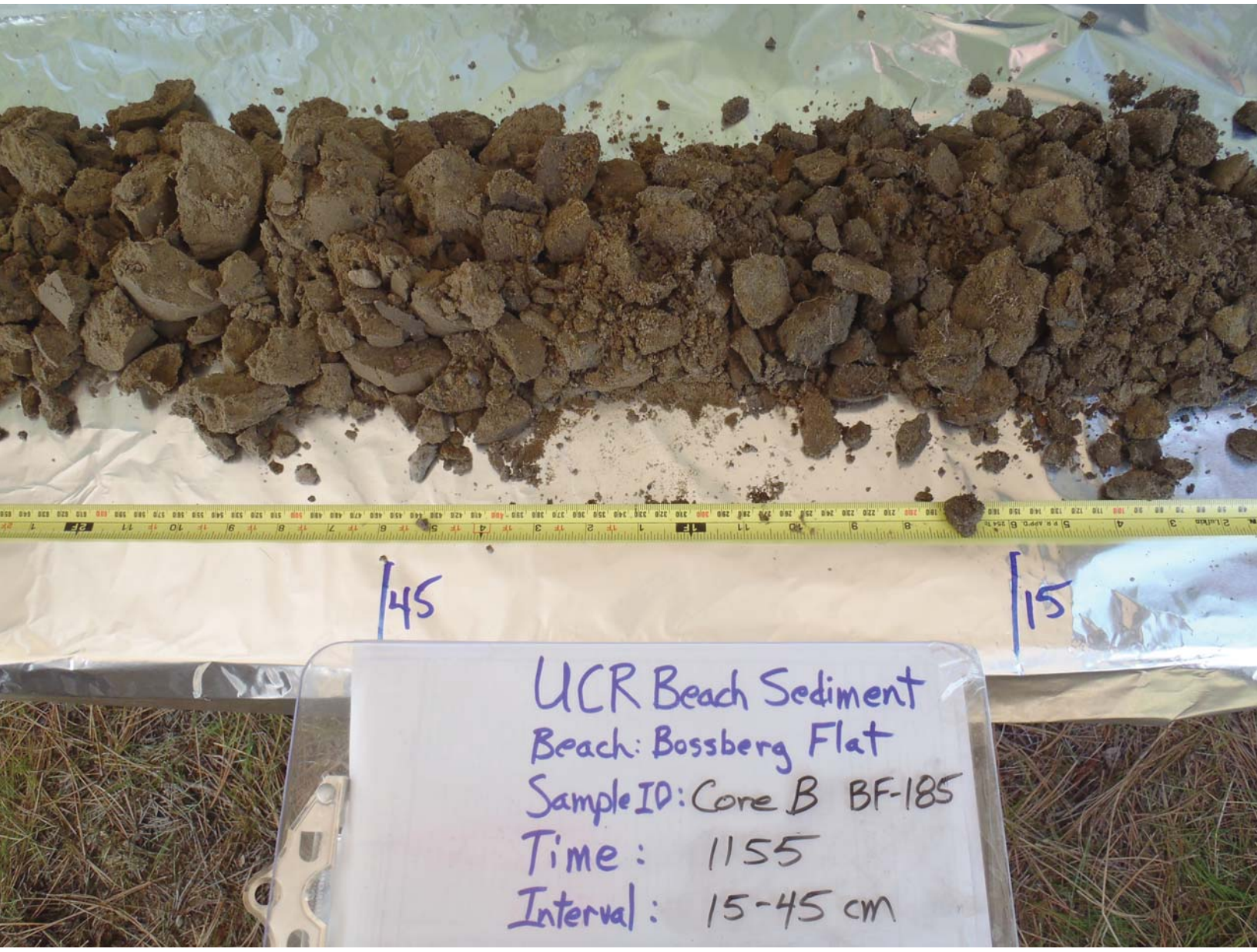
75
45
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core A BF-275
Time: 1125
Interval: 45-75cm

45
15
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core A BF-275
Time: 1120
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core A BF-275
Time: 1115
Interval: 0-15cm

PROJECT C-521- UCR
DATE: 4-25-11
TIME 1003
BEACH: Bossburg Flat
STATION: BF-185

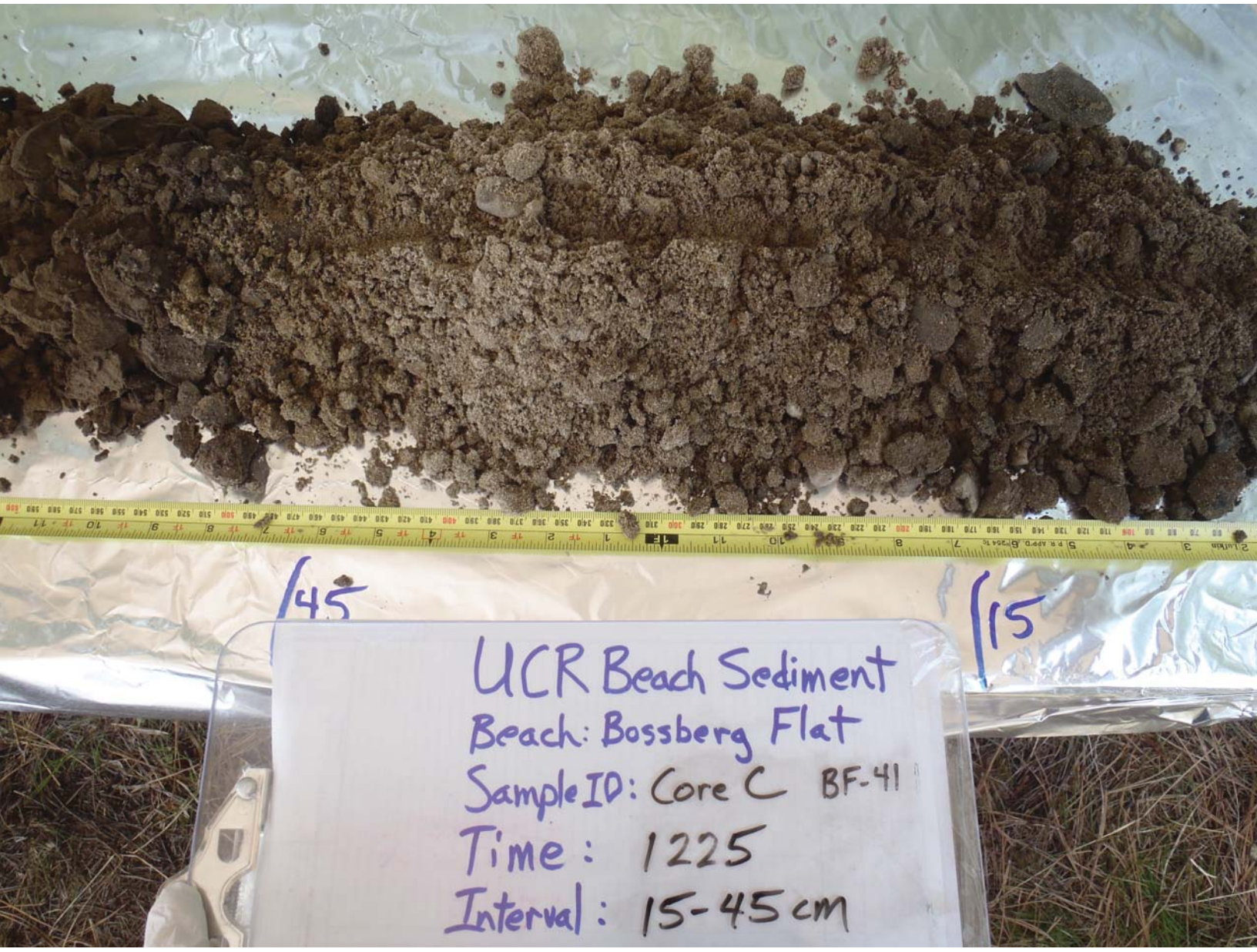

75
45
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core B BF-185
Time: 1205
Interval: 45-75 cm


45
15
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core B BF-185
Time: 1155
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core B BF-185
Time: 1145
Interval: 0-15 cm

PROJECT C321- UCR REACH SEDIMENT- 201
DATE 4-25-11
TIME 1015
REACH Bessberg Flat
STATION BF-41

75
45
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core C BF-41
Time: 1230
Interval: 45-75 cm


45
15
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core C BF-41
Time: 1225
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core C BF-41
Time: 1220
Interval: 0-15cm

PROJECT: C-521 - UCR BEACH SEDIMENT- 2011
DATE: 4-25-11
TIME 1025.
BEACH: Bossburg Flat
STATION: BF-28

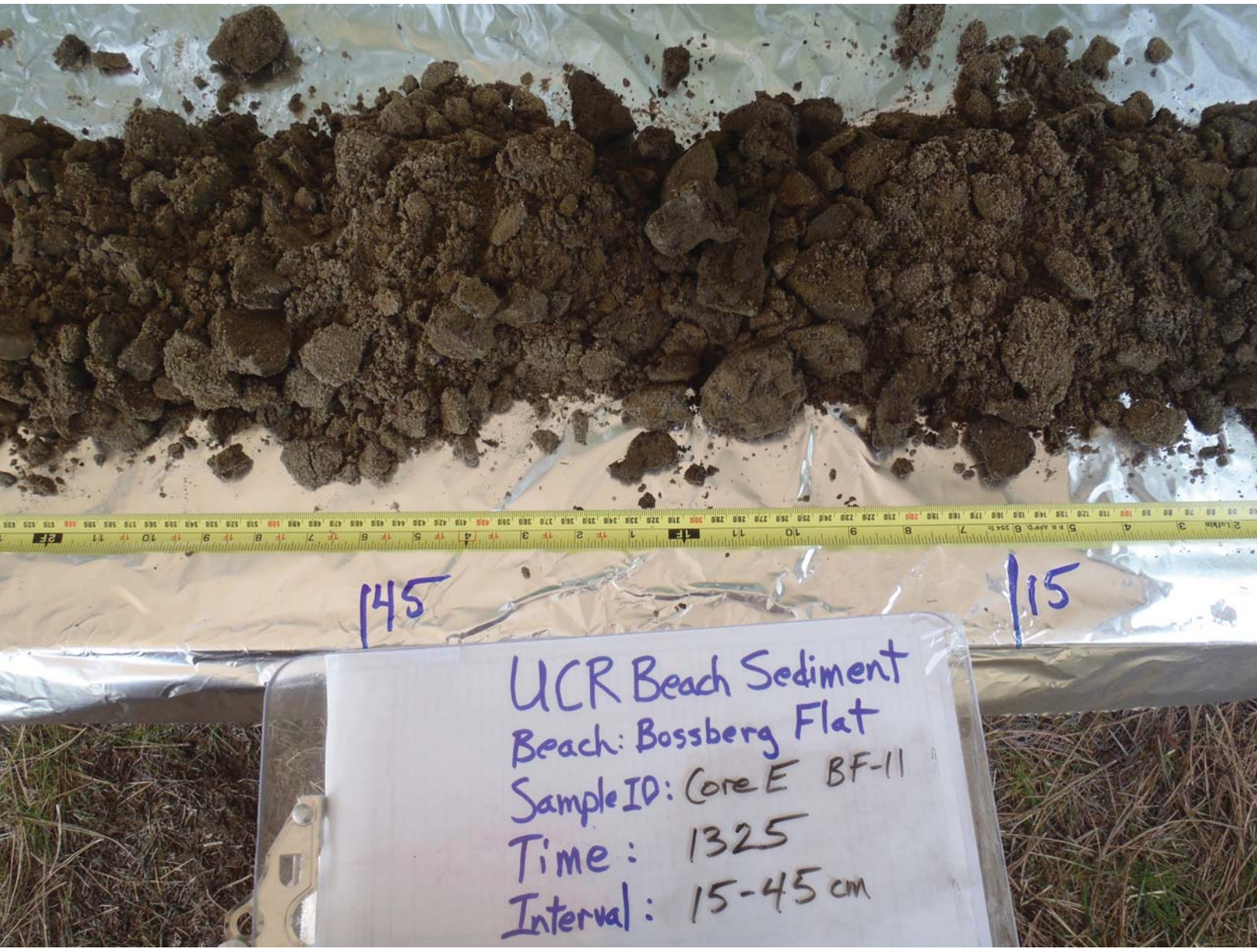
175
145
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core D BF-28
Time: 1300
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core D BF-28
Time: 1250
Interval: 15-45cm

15
0
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core D BF-28
Time: 1240
Interval: 0-15 cm

PROJECT: C521- UCR BEACH SEDIMENT- 201
DATE: 4-25-11
TIME 1039
BEACH: Bossburg Flat
STATION: BF-11

175
145
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core E BF-11
Time: 13.35
Interval: 45-75 cm


145
15
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core E BF-11
Time: 1325
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Bossberg Flat
Sample ID: Core E BF-11
Time: 1315
Interval: 0-15 cm

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– BRADBURY

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 4-29-11
TIME: 0934
BEACH: Bradbury Beach
STATION: BB-554

175
145
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core A BB-554
Time: 1205
Interval: 45-75 cm

145
15
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core A BB-554
Time: 1155
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core A
Time: 1145
Interval: 0-15 cm

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 4-29-11
TIME: 0945
BEACH: Bradbury Beach
STATION: BB-445
Cores

75
45
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core B BB-445
Time: 1235
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core B BB-445
Time: 1225
Interval: 15-45 cm

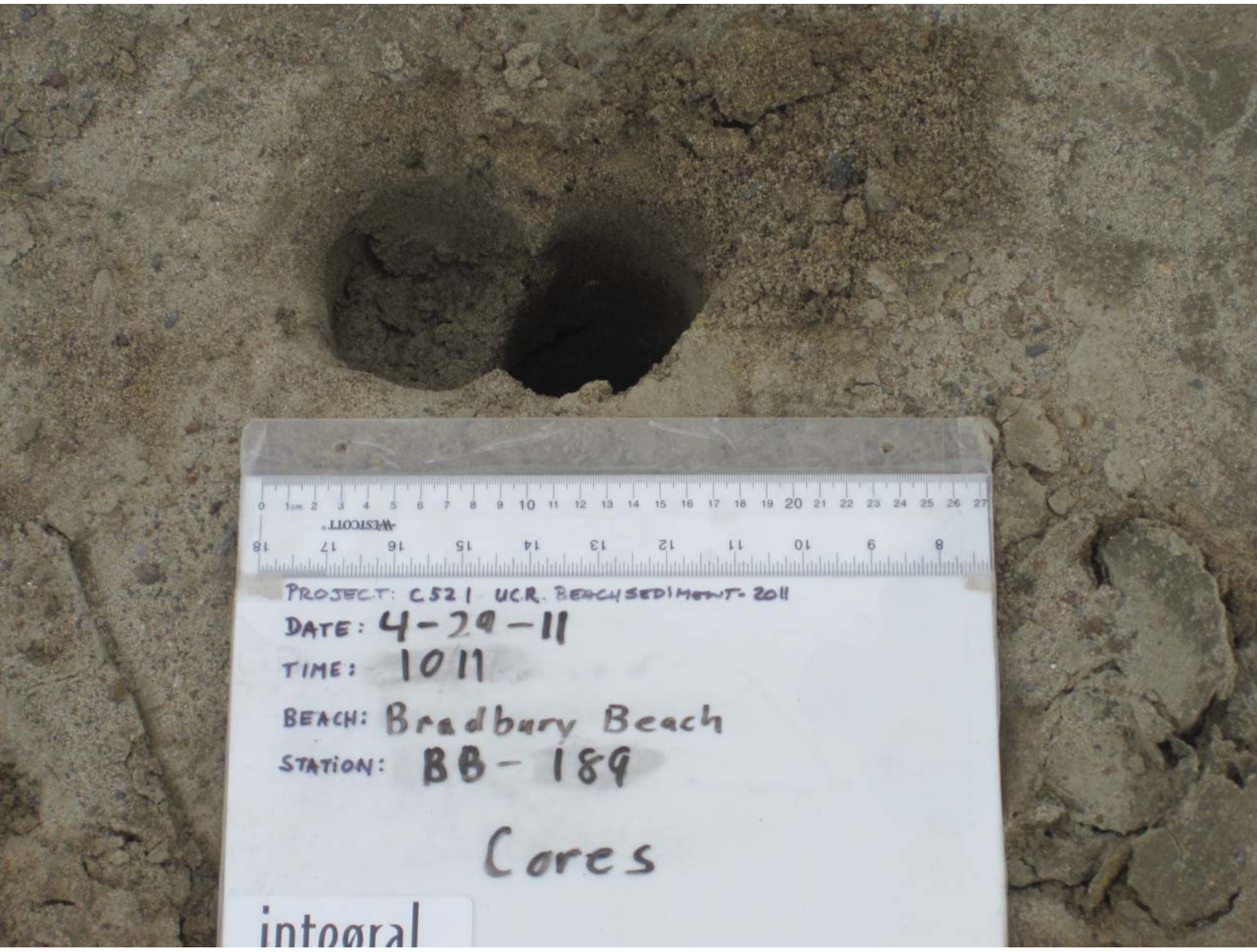
15
10
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core B BB-415
Time: 1215
Interval: 0-15 cm

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 4-29-11
TIME: 0957
BEACH: Bradbury Beach
STATION: BB-401
Cores

KIRKLAND
175
145
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core C BB-401
Time: 1305
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core C BB-401
Time: 1255
Interval: 15-45 cm

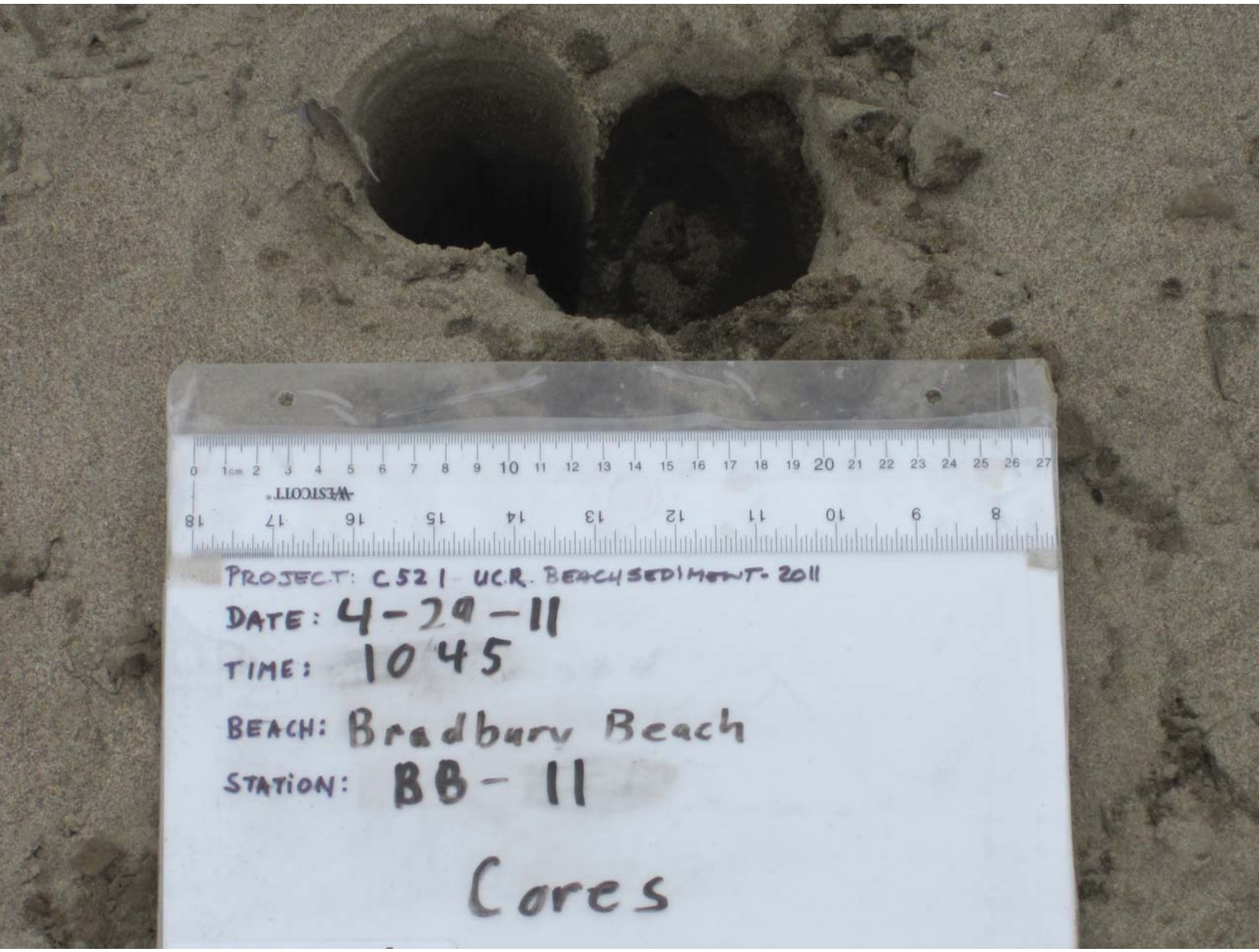
15
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core C BB-401
Time: 1245
Interval: 0-15 cm


PROJECT: C521 UCR BEACHSEDIMENT-2011
DATE: 4-29-11
TIME: 1011
BEACH: Bradbury Beach
STATION: BB-189
Cores
intogral

UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core D BB-189
Time: 1335
Interval: 45-75 cm

UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core D BB-189
Time: 1325
Interval: 15-45 cm

UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core D BB-189
Time: 1315
Interval: 0-15 cm


PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 4-29-11
TIME: 1045
BEACH: Bradbury Beach
STATION: BB-11
Cores

175
145
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core E BB-11
Time: 1405
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core E BB-11
Time: 1355
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Bradbury Beach
Sample ID: Core E BB-11
Time: 1345
Interval: 0-15cm

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– Colville Flats

PROJECT: C.521 - UCR BEACH SEDIMENT - 2011

DATE: 4-27-11

TIME 0957

BEACH Colville Flats

STATION CF-473

Cores

PROJECT: C.521 - UCR BEACH SEDIMENT- 2011

DATE: 4-27-11

TIME 1012

BEACH: Colville Flats

STATION CF- 615

Cores

PROJECT: C.521 - UCR BEACH SEDIMENT - 2011

DATE: 4-27-11

TIME: 1026

BEACH: Colville Flats

STATION: CF-934

Cores

PROJECT: C521 - UCR BEACH SEDIMENT - 2011

DATE: 4-27-11

TIME 1042

BEACH: Colville Flats

STATION CF-629

Cores

PROJECT: C-521 - UCR BEACH SEDIMENT - 2011

DATE: 4-27-11

TIME 1104

BEACH Colville Flats

STATION CF - 617

Cores

15

0

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core A CF-473
Time: 1220
Interval: 0-15cm

45

15

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core A CF-473
Time: 1230
Interval: 15-45cm

75

45

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core A CF-473
Time: 1240
Interval: 45-75cm

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core B CF-615
Time: 1250
Interval: 0-15cm

45

15

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core B CF-615
Time: 1300
Interval: 15-45cm

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core B CF-615
Time: 1310
Interval: 45-75 cm

75

45

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core C CF-934
Time: 1320
Interval: 0-15cm

45

15

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core C CF-934
Time: 1330
Interval: 15-45cm

ITEM 51684

RK624

175

145

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core C CF-934
Time: 1340
Interval: 45-75 cm

15
10
UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core D CF-629
Time: 1355
Interval: 0-15 cm

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core D CF-629
Time: 1405
Interval: 15-45 cm

RK624

175

145

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core D CF-629
Time: 1415
Interval: 45-75 cm

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core E CF-617
Time: 1425
Interval: 0-15 cm

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core E CF-617
Time: 1435
Interval: 15-45 cm

RK624

ITEM 81064

75

45

UCR Beach Sediment
Beach: Colville Flats
Sample ID: Core E CF-617
Time: 1445
Interval: 45-75 cm

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

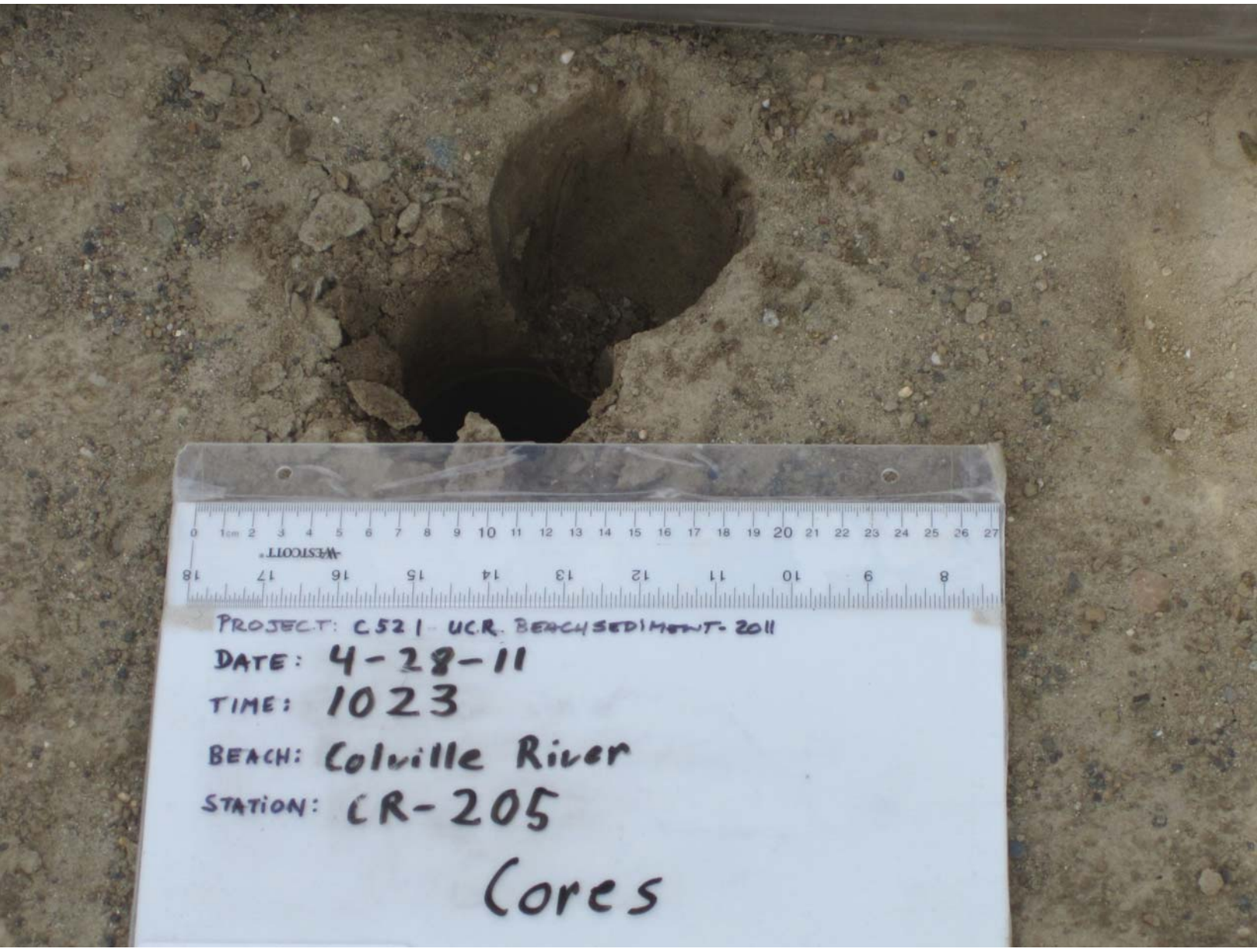
– COLVILLE RIVER

PROJECT: C521 - U.C.R. BEACH SEDIMENT - 2011
DATE: 4-28-11
TIME: 0950
BEACH: Colville River
STATION: CR-273

75
45
UCR Beach Sediment
Beach: Colville River
Sample ID: Core A CR-273
Time: 1235
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Colville River
Sample ID: Core A CR-273
Time: 1225
Interval: 15-45 cm

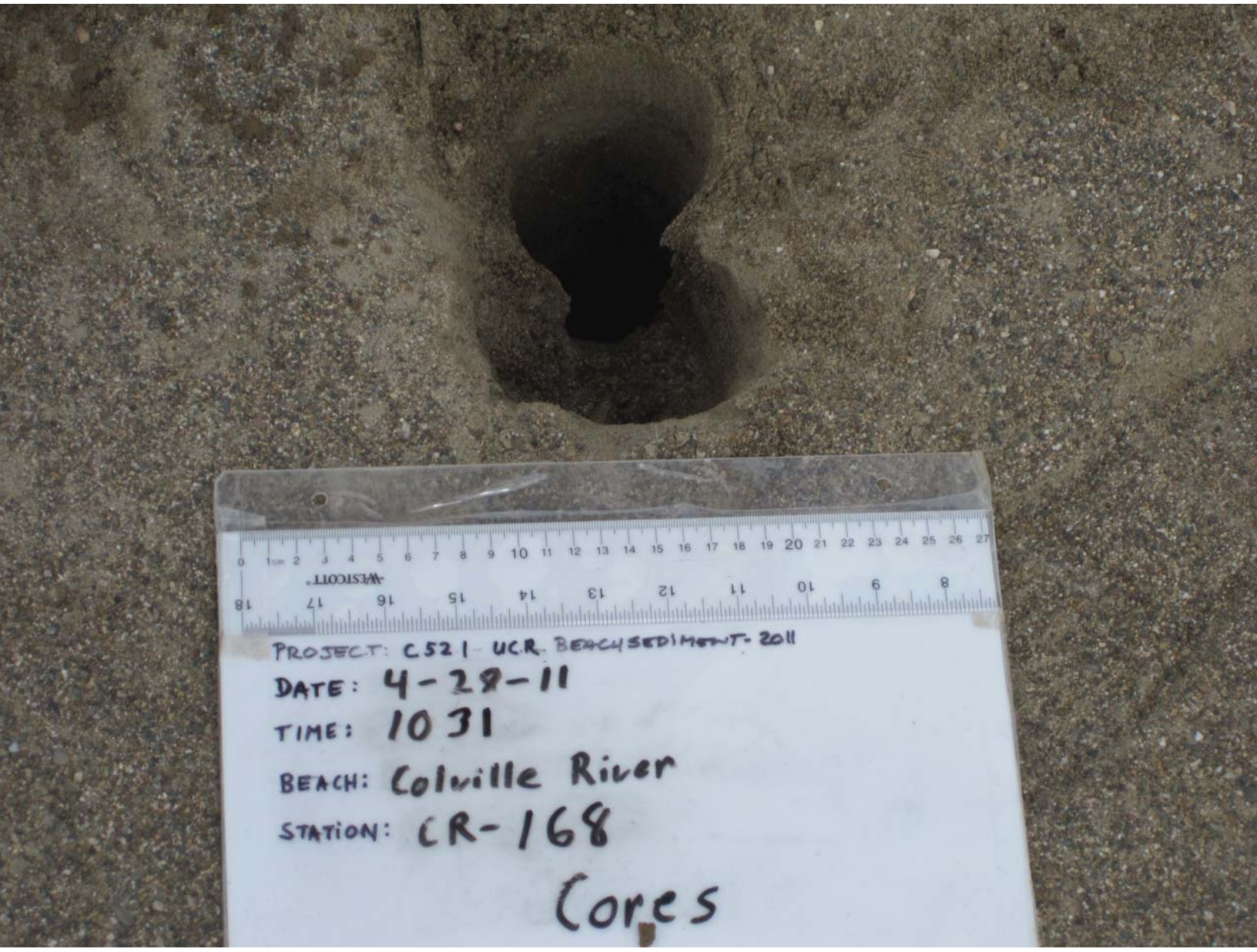
15
0
UCR Beach Sediment
Beach: Colville River
Sample ID: Core A CR-273
Time: 1215
Interval: 0-15 cm


PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-28-11
TIME: 1023
BEACH: Colville River
STATION: CR-205
Cores

KIRKLAND
Signature
Heavy Duty
Aluminum Foil
75
45
UCR Beach Sediment
Beach: Colville River
Sample ID: Core B CR-205
Time: 1305
Interval: 45-75 cm

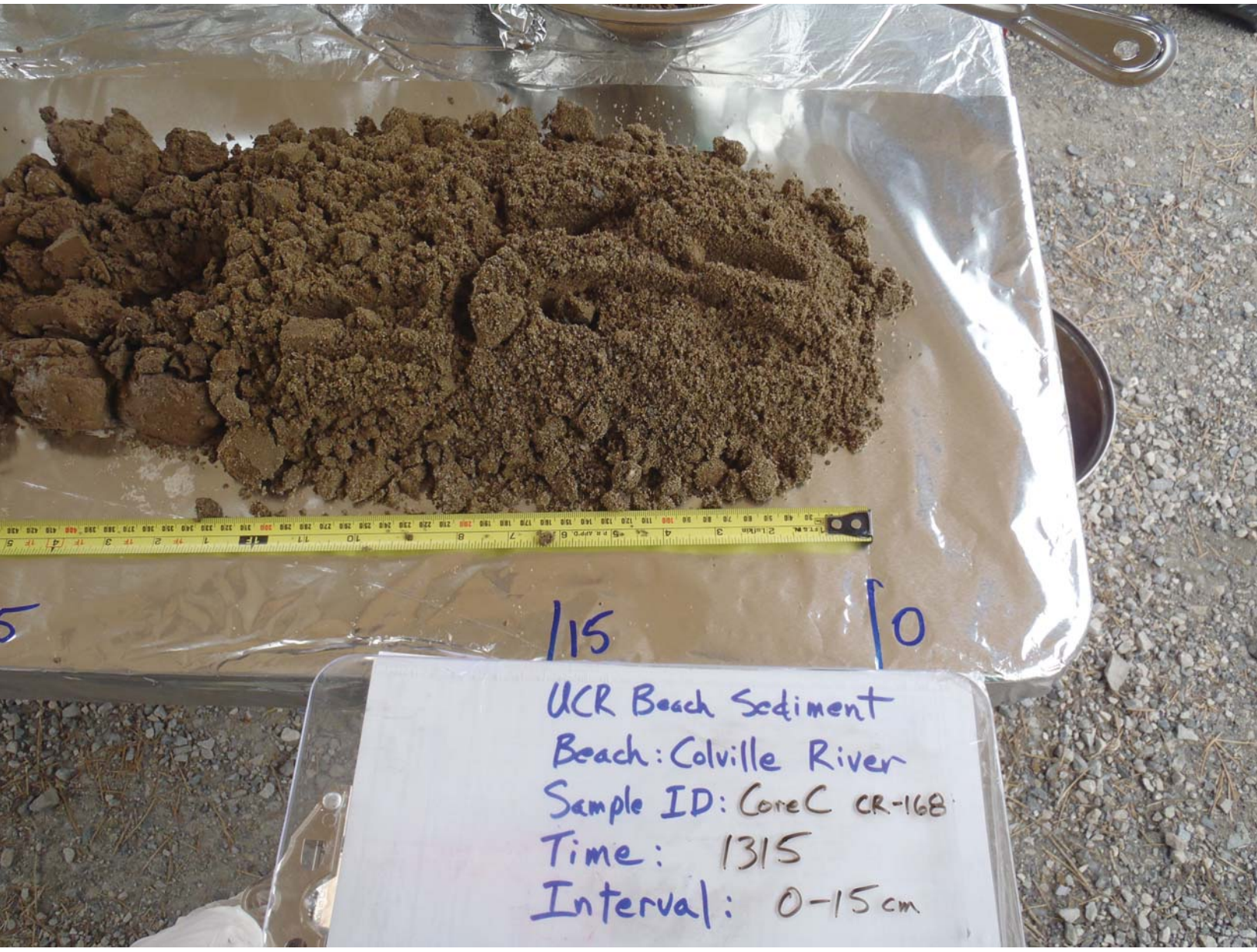
145
15
UCR Beach Sediment
Beach: Colville River
Sample ID: Core B CR-205
Time: 1255
Interval: 15-45 cm

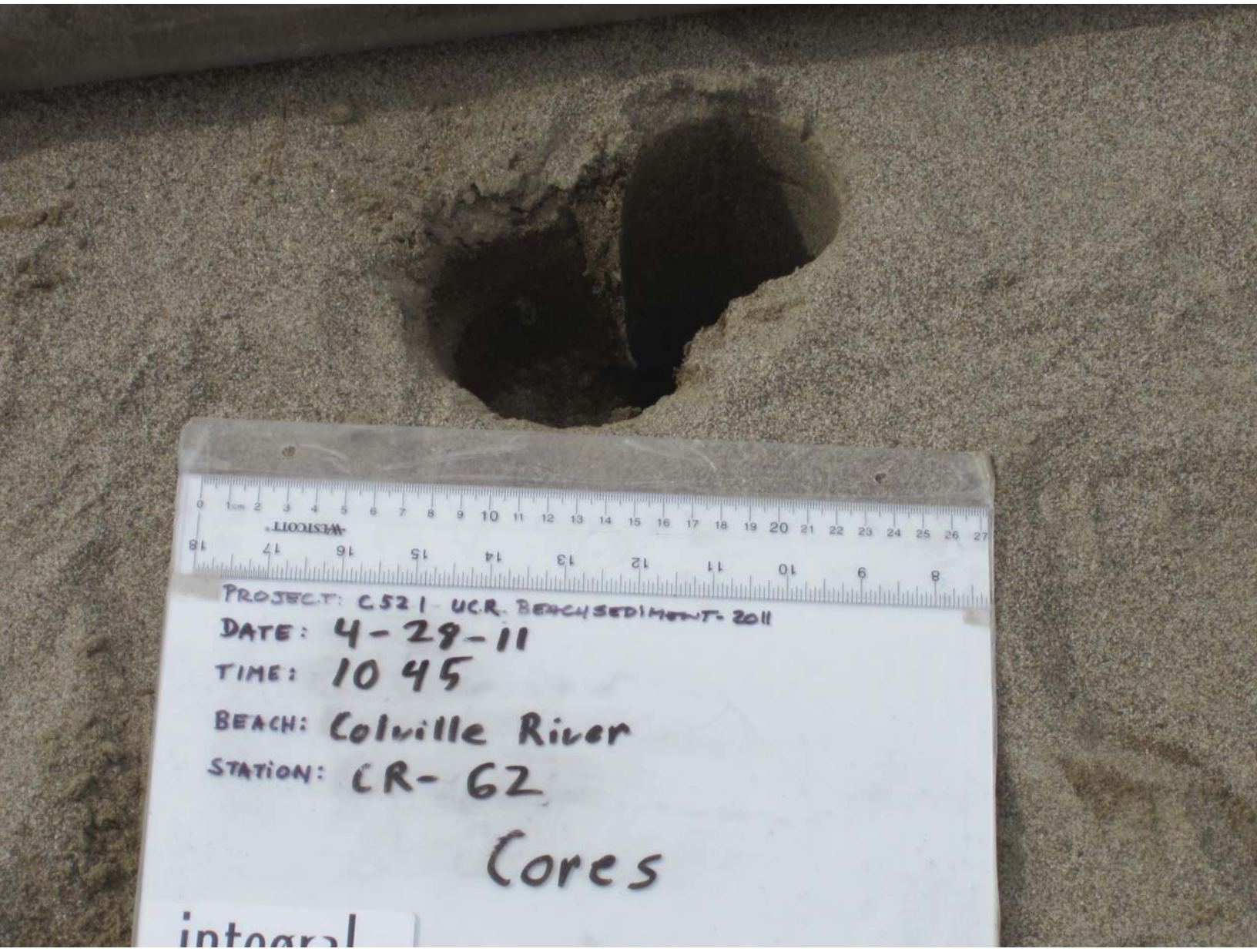
15
10
UCR Beach Sediment
Beach: Colville River
Sample ID: Core B CR-205
Time: 1245
Interval: 0-15cm


PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-28-11
TIME: 1031
BEACH: Colville River
STATION: CR-168
Cores

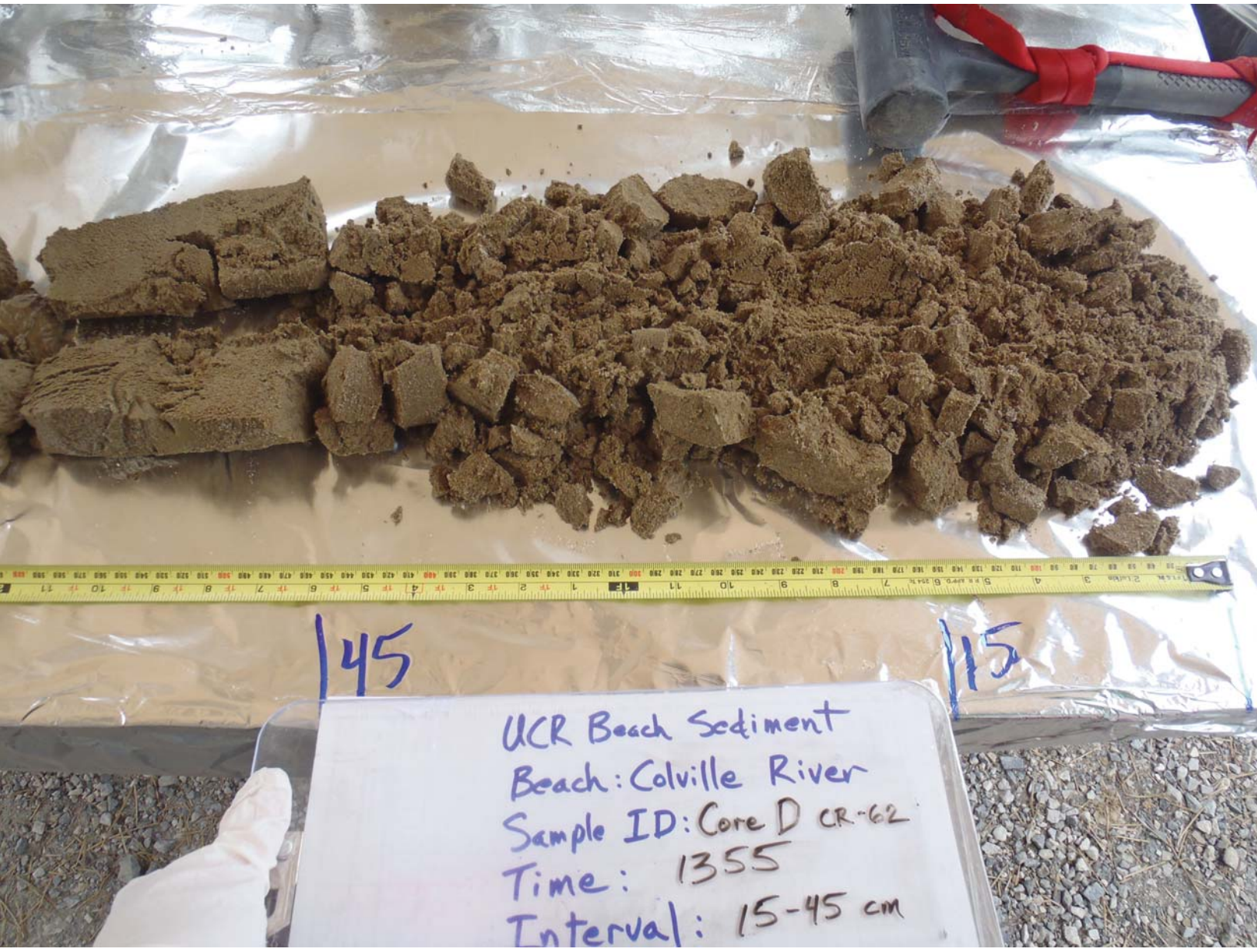
175
145
UCR Beach Sediment
Beach: Colville River
Sample ID: CoreC CR-168
Time: 1335
Interval: 45-75 cm

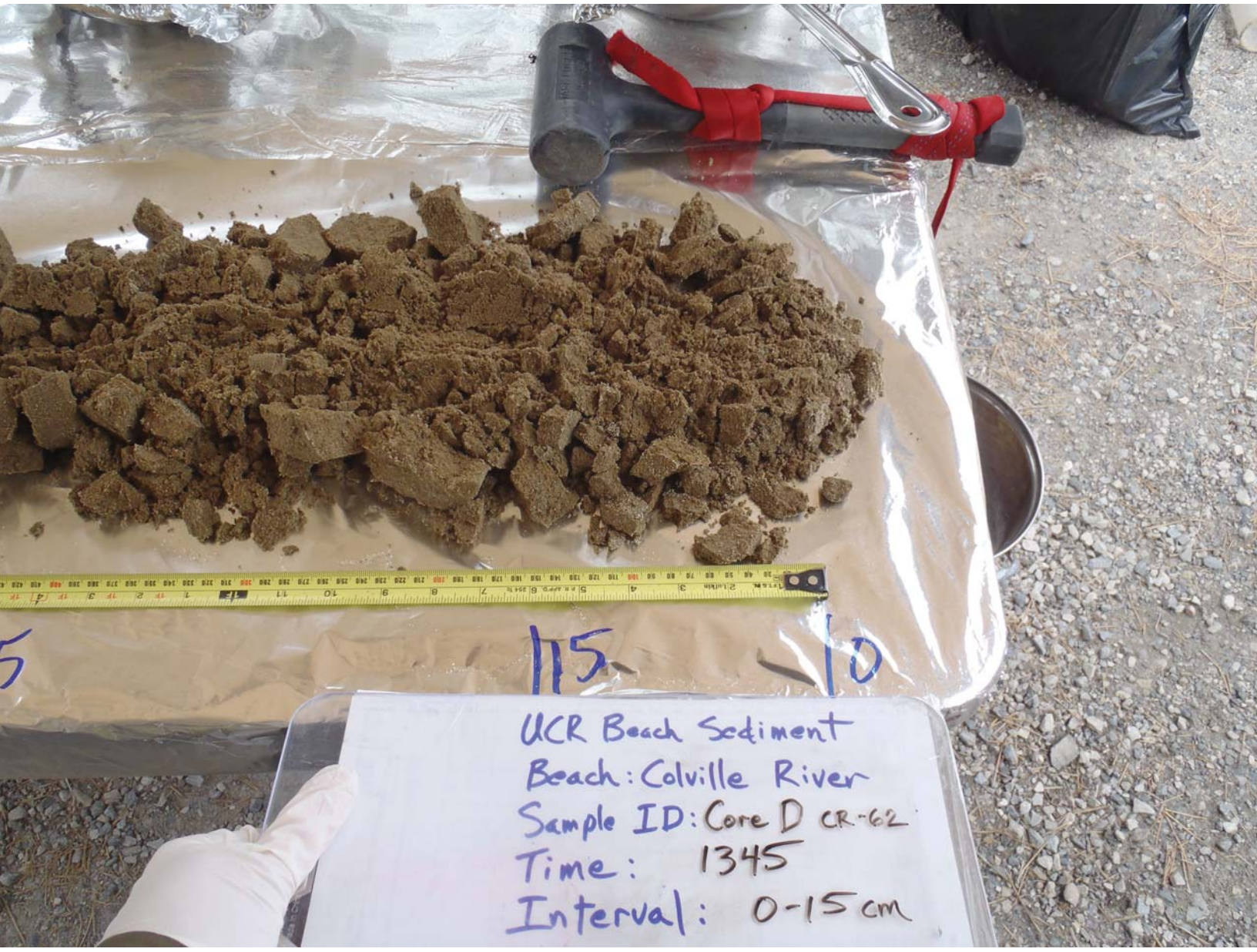
45
15
UCR Beach Sediment
Beach: Colville River
Sample ID: CoreC CR-168
Time: 1325
Interval: 15-45 cm

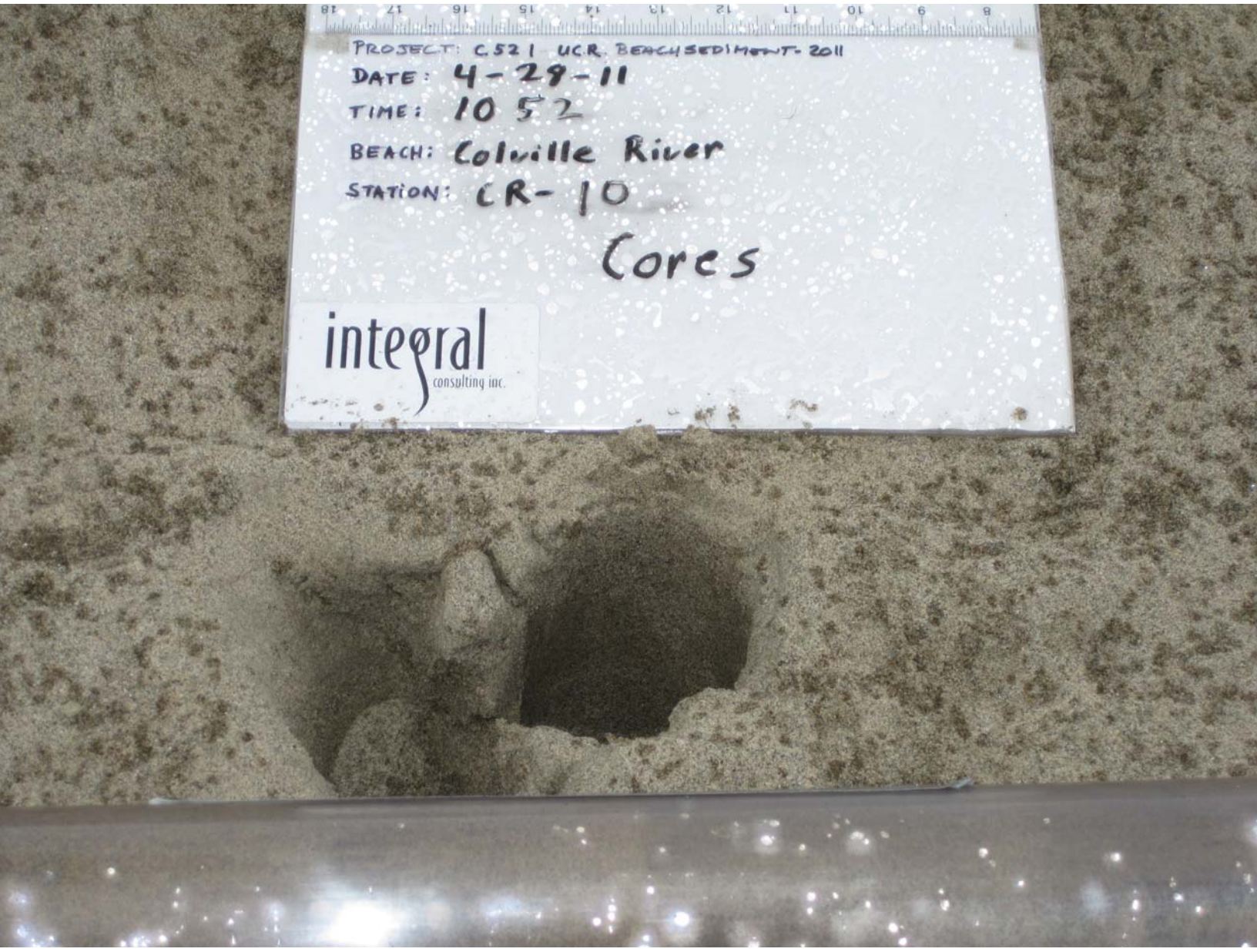

15
0
UCR Beach Sediment
Beach: Colville River
Sample ID: CoreC CR-168
Time: 1315
Interval: 0-15 cm


PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-29-11
TIME: 1045
BEACH: Colville River
STATION: CR-62
Cores
integral

KIRKLAND
Foodservice Foil
175
145
UCR Beach Sediment
Beach: Colville River
Sample ID: Core D CR-62
Time: 1405
Interval: 45-95 cm

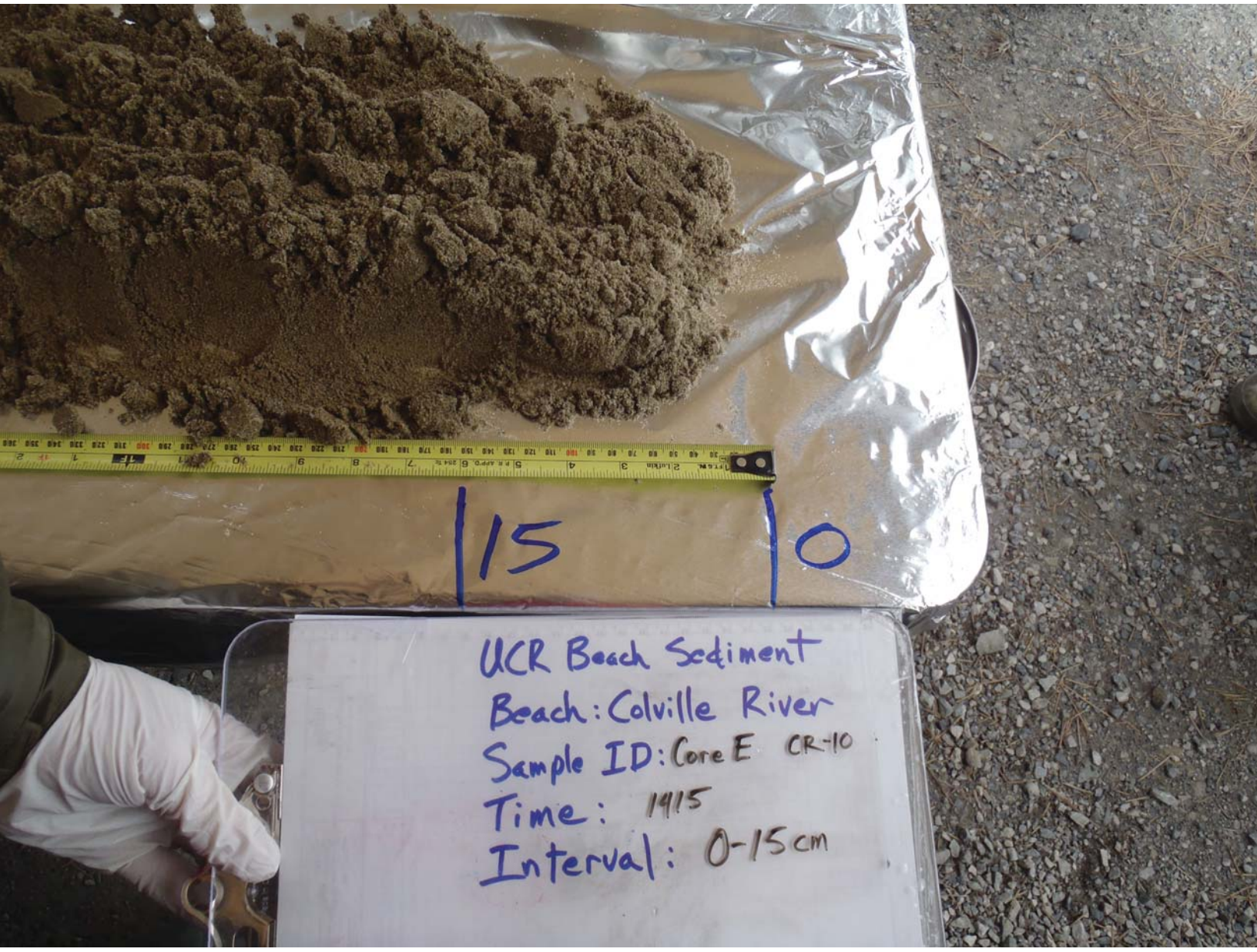

145
15
UCR Beach Sediment
Beach: Colville River
Sample ID: Core D CR-62
Time: 1355
Interval: 15-45 cm


115
10
UCR Beach Sediment
Beach: Colville River
Sample ID: Core D CR-62
Time: 1345
Interval: 0-15 cm


PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 4-29-11
TIME: 1052
BEACH: Colville River
STATION: CR-10
Cores
integral
consulting inc.

175
145
UCR Beach Sediment
Beach: Colville River
Sample ID: Core E CR-10
Time: 1435
Interval: 45-75cm

45
15
UCR Beach Sediment
Beach: Colville River
Sample ID: Core E CR-10
Time: 1425
Interval: 15-45 cm

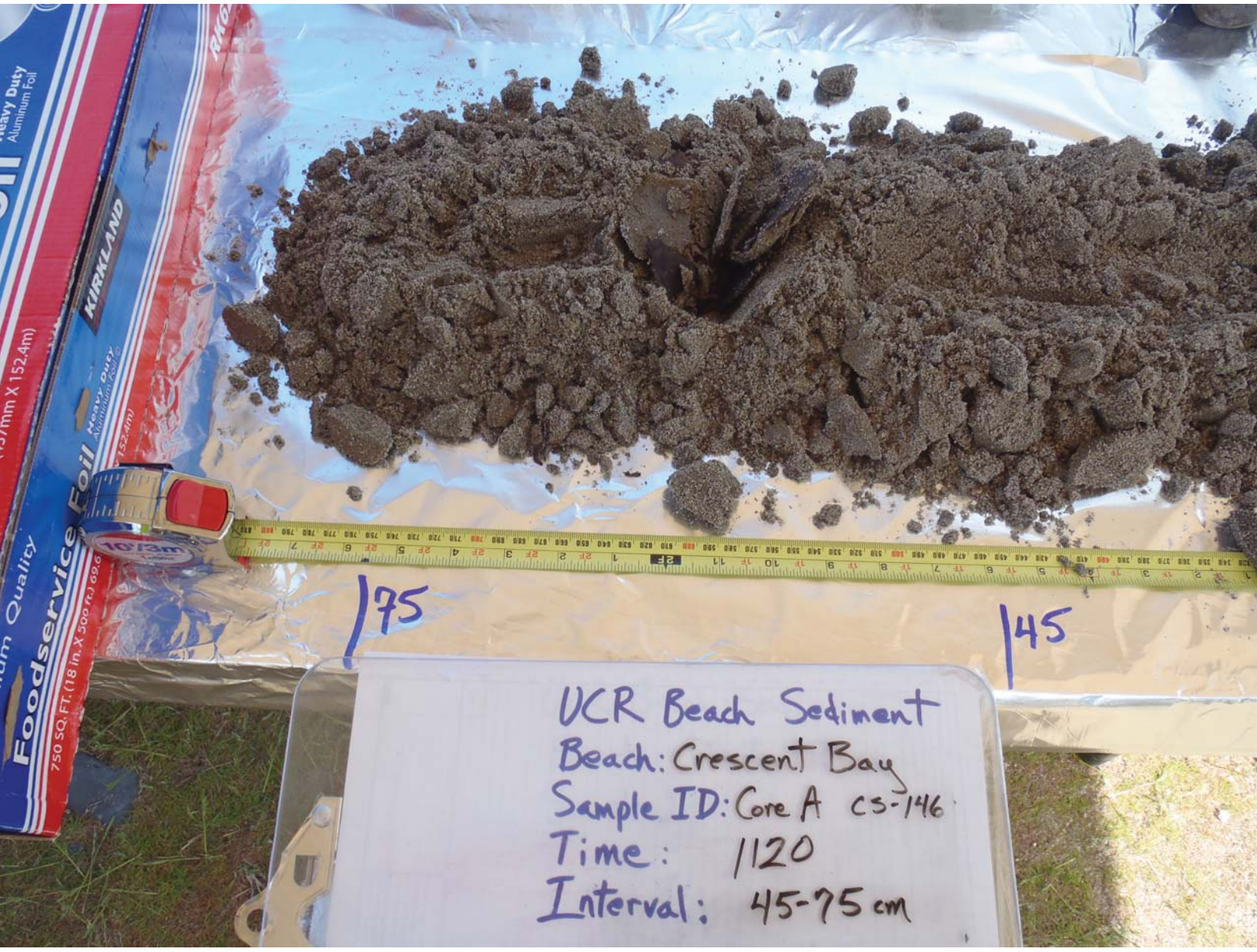

15
0
UCR Beach Sediment
Beach: Colville River
Sample ID: Core E CR-10
Time: 1415
Interval: 0-15cm

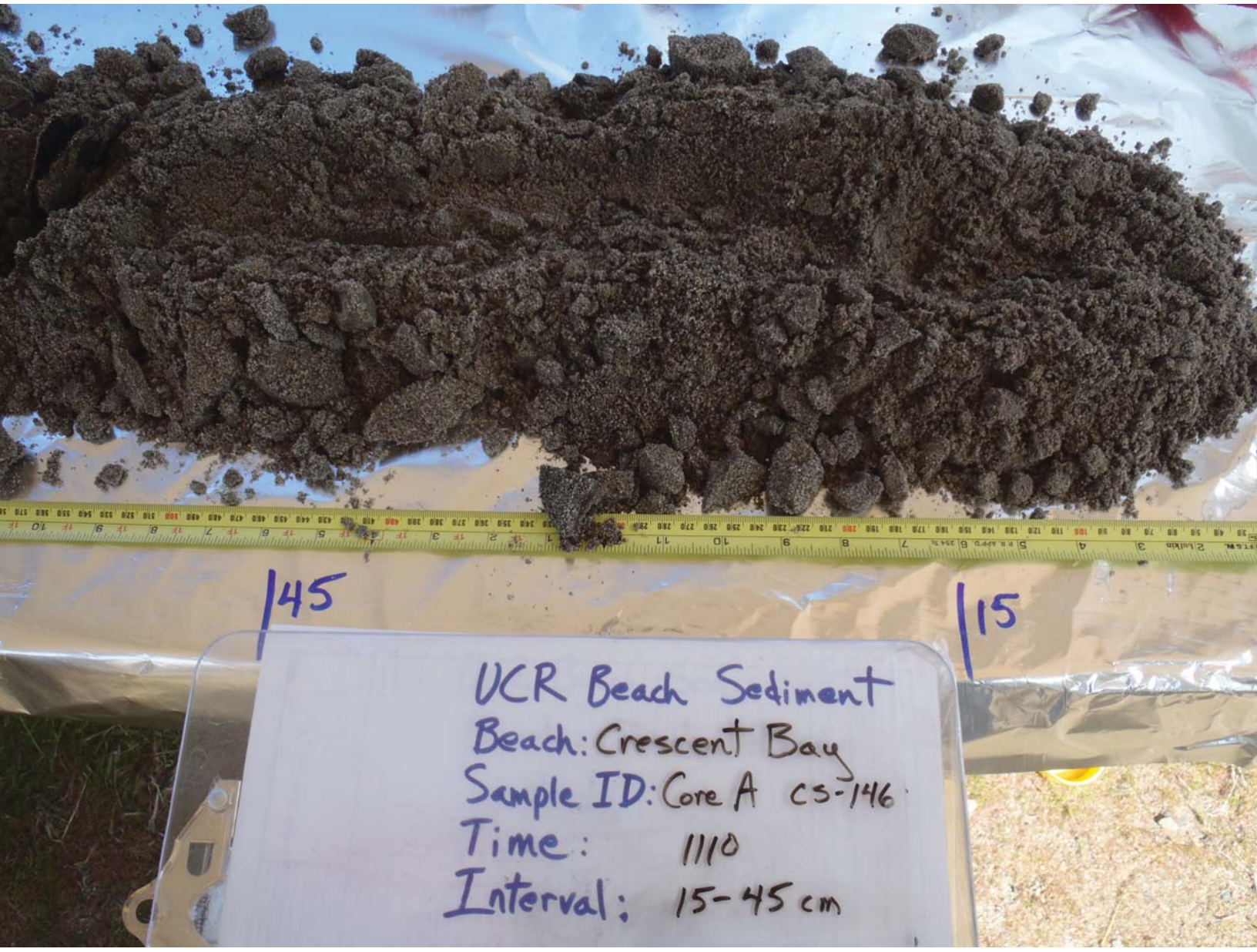
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– CRESCENT BAY

PROJECT: C521 UCR BENCH/SEDIMENT 2011
DATE: 5-3-11
TIME: 0939
BEACH: Crescent Bay
STATION: CS-146
Cores


Foodservice Foil
Heavy Duty
Aluminum Foil
KIRKLAND
75
45
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core A CS-146
Time: 1120
Interval: 45-75 cm


45
15
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core A CS-146
Time: 1110
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core A CS-146
Time: 1100
Interval: 0-15 cm

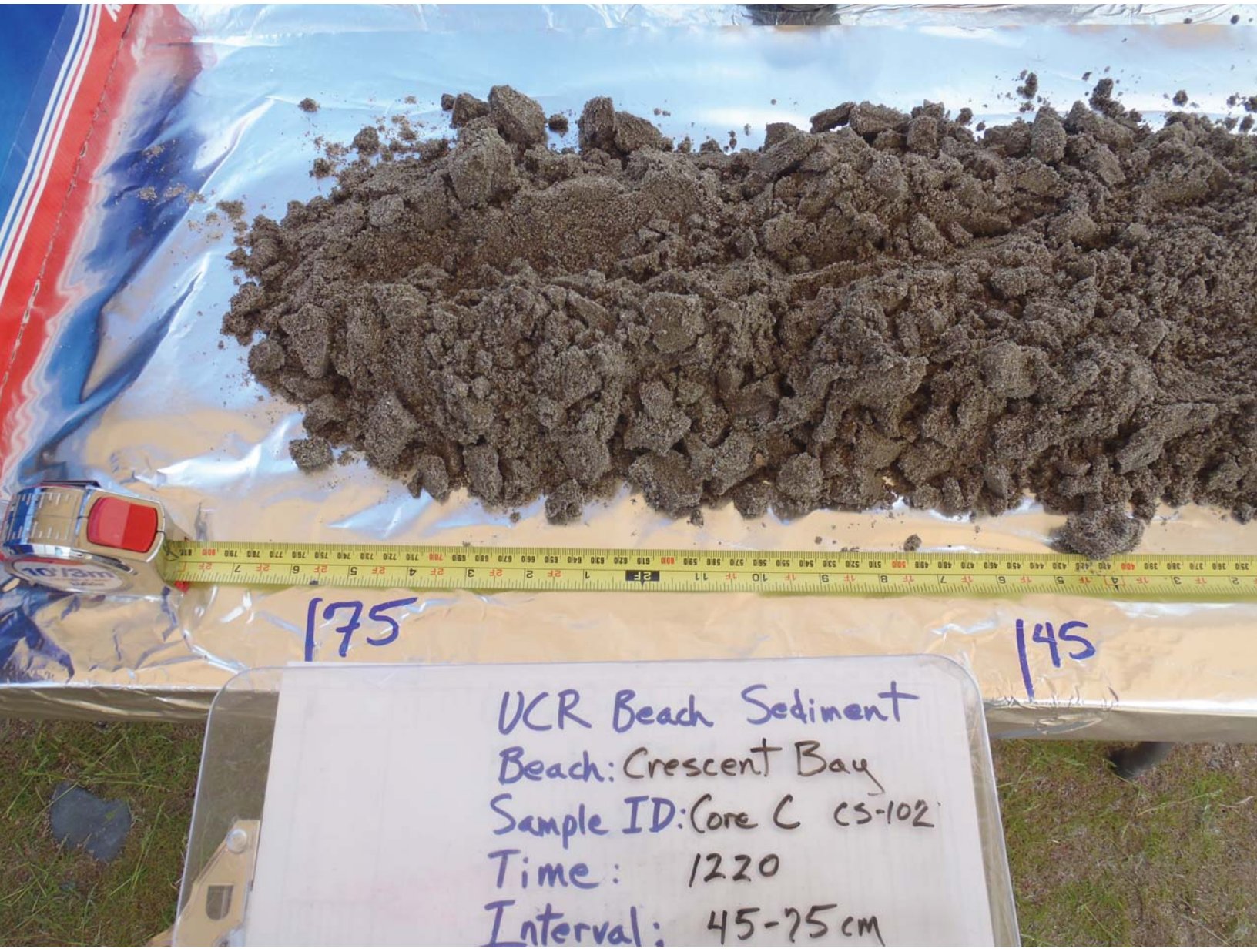
PROJECT: C521 HCR REINCH SEDIMENTS 2011
DATE: 5-3-11
TIME: 0950
BEACH: Crescent Bay
STATION: CS-196
Cores
integral
consulting inc.

KIRKLAND
Heavy Duty
Aluminum Foil
750 SQ. FT. (18 in. X 500 ft.)
75
45
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core B CS-196
Time: 1150
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core B CS-196
Time: 1140
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core B CS-196
Time: 1130
Interval: 0-15 cm

PROJECT: C521 UCR. BEACH SEDIMENT- 2011
DATE: 5-3-11
TIME: 0957
BEACH: Crescent Bay
STATION: CS-102
Cores


175
145
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core C CS-102
Time: 1220
Interval: 45-75 cm

145
15
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core C CS-102
Time: 1210
Interval: 15-45 cm

115
10
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core C CS-102
Time: 1200
Interval: 0-15 cm

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-3-11
TIME: 1003
BEACH: Crescent Bay
STATION: CS-110
Cores

KIRKLAND
Heavy Duty
Aluminum Foil
175
145
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core D CS-110
Time: 1250
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core D CS-110
Time: 1240
Interval: 0-15cm

15
0
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core D CS-110
Time: 1230
Interval: 0-15 cm

PROJECT: C521 UCR REINCH SEDIMENTS 2011
DATE: 5-3-11
TIME: 1022
BEACH: Crescent Bay
STATION: CS-67
Cores
integral
consulting inc.

KIRKLAND
175
145
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core E CS-67
Time: 1320
Interval: 45-75 cm

145
115
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core E CS-67
Time: 1310
Interval: 15-45 cm

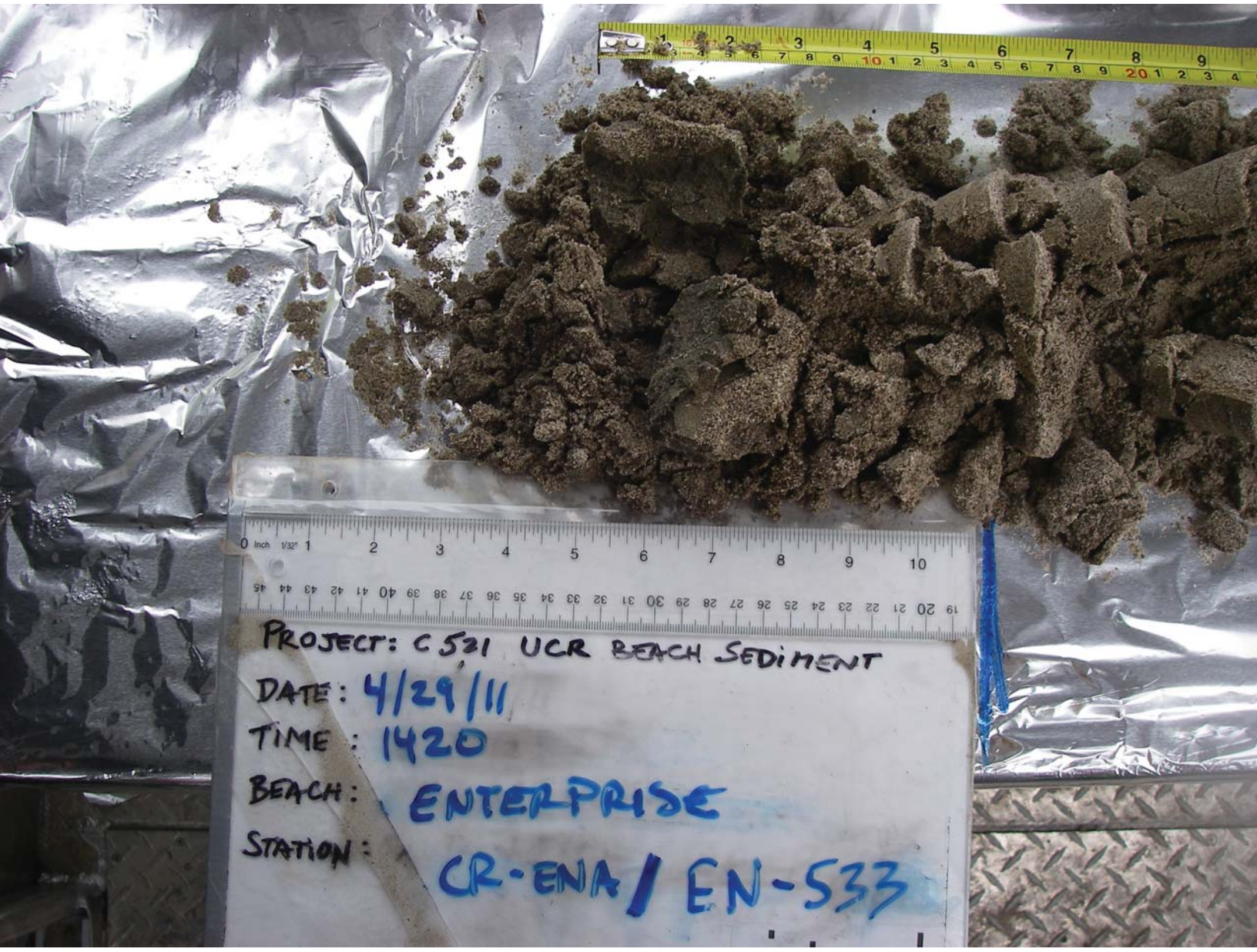
115
10
UCR Beach Sediment
Beach: Crescent Bay
Sample ID: Core E CS-67
Time: 1300
Interval: 0-15cm

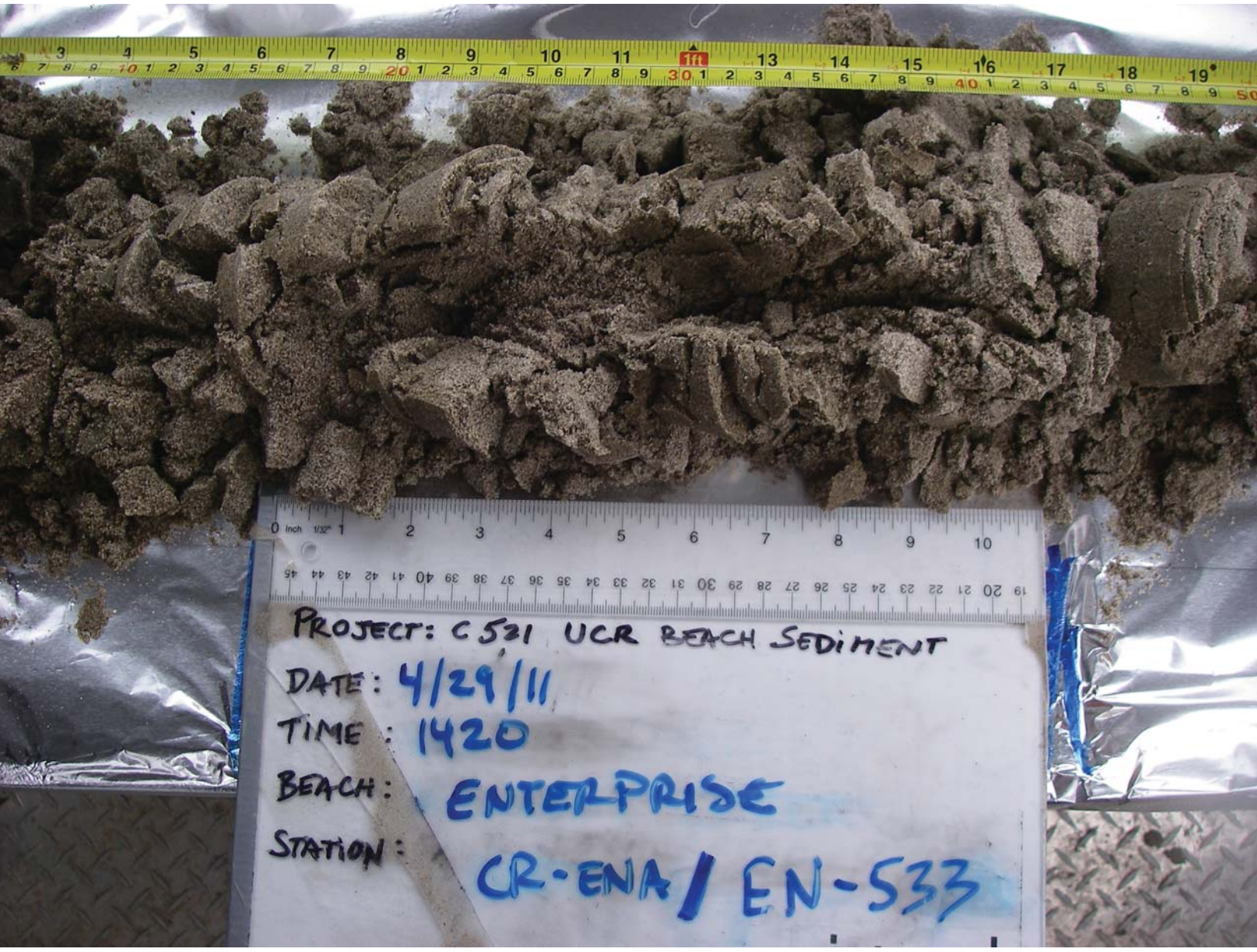
APPENDIX F

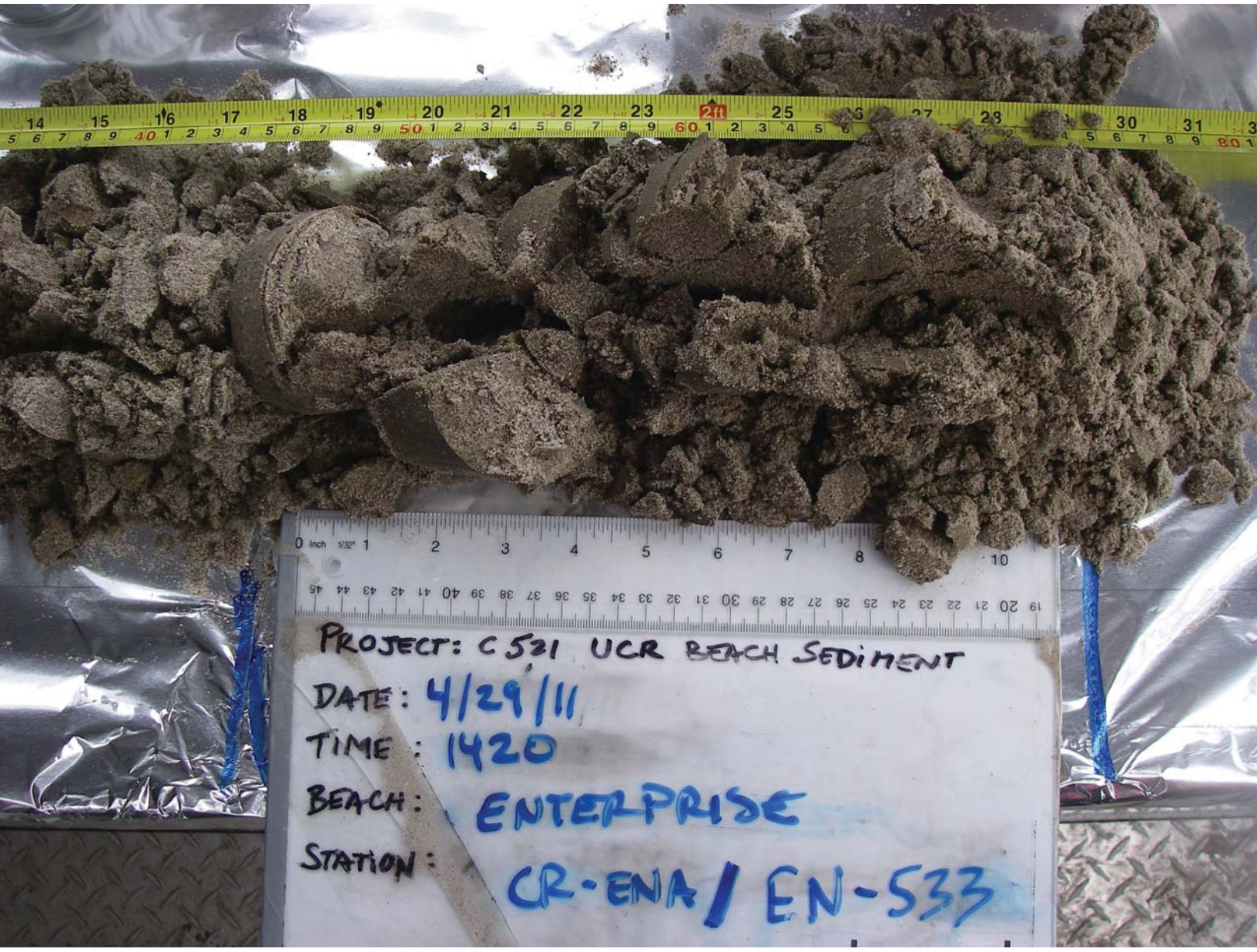
BEACH CORE SEDIMENT PHOTOGRAPHS

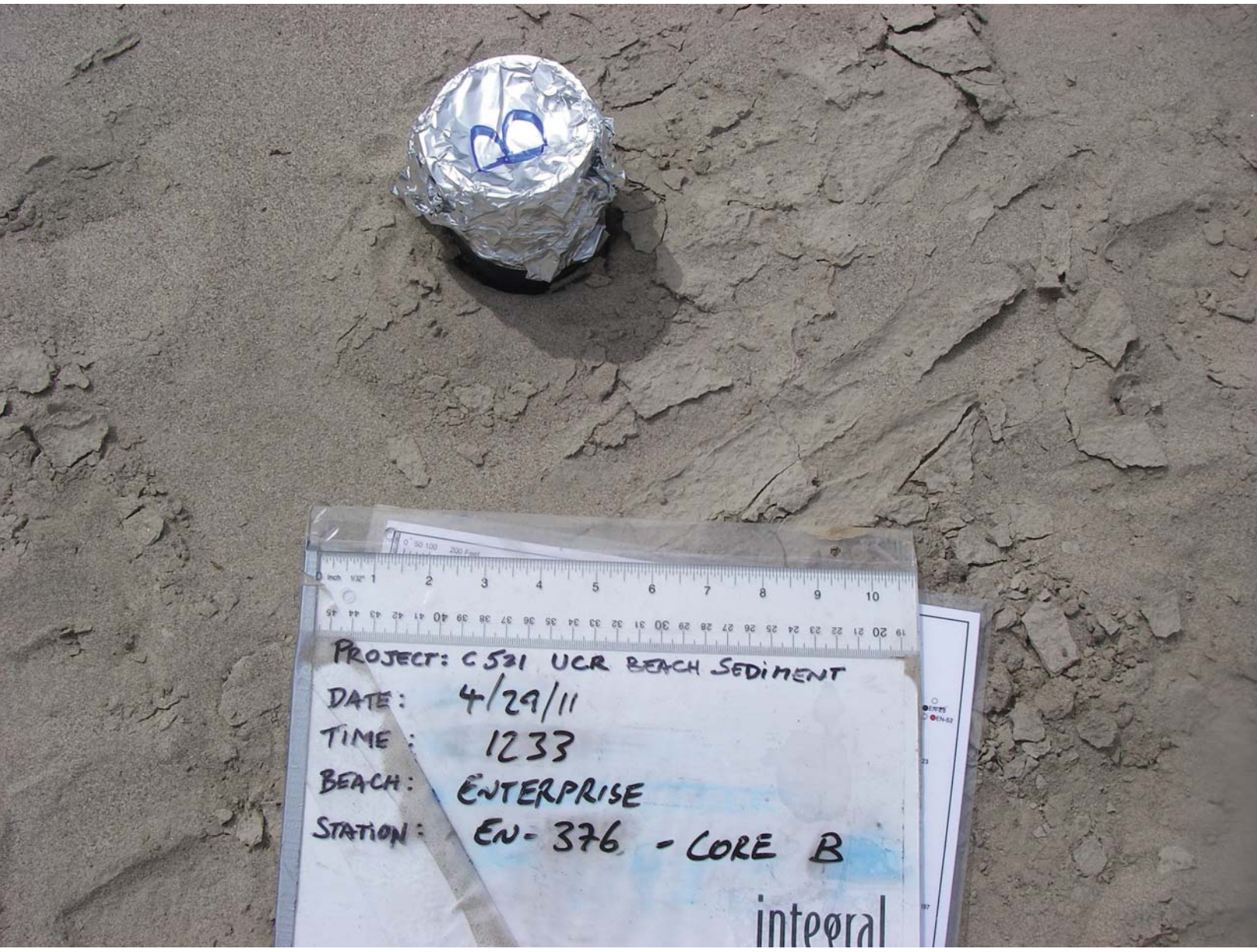
– ENTERPRISE

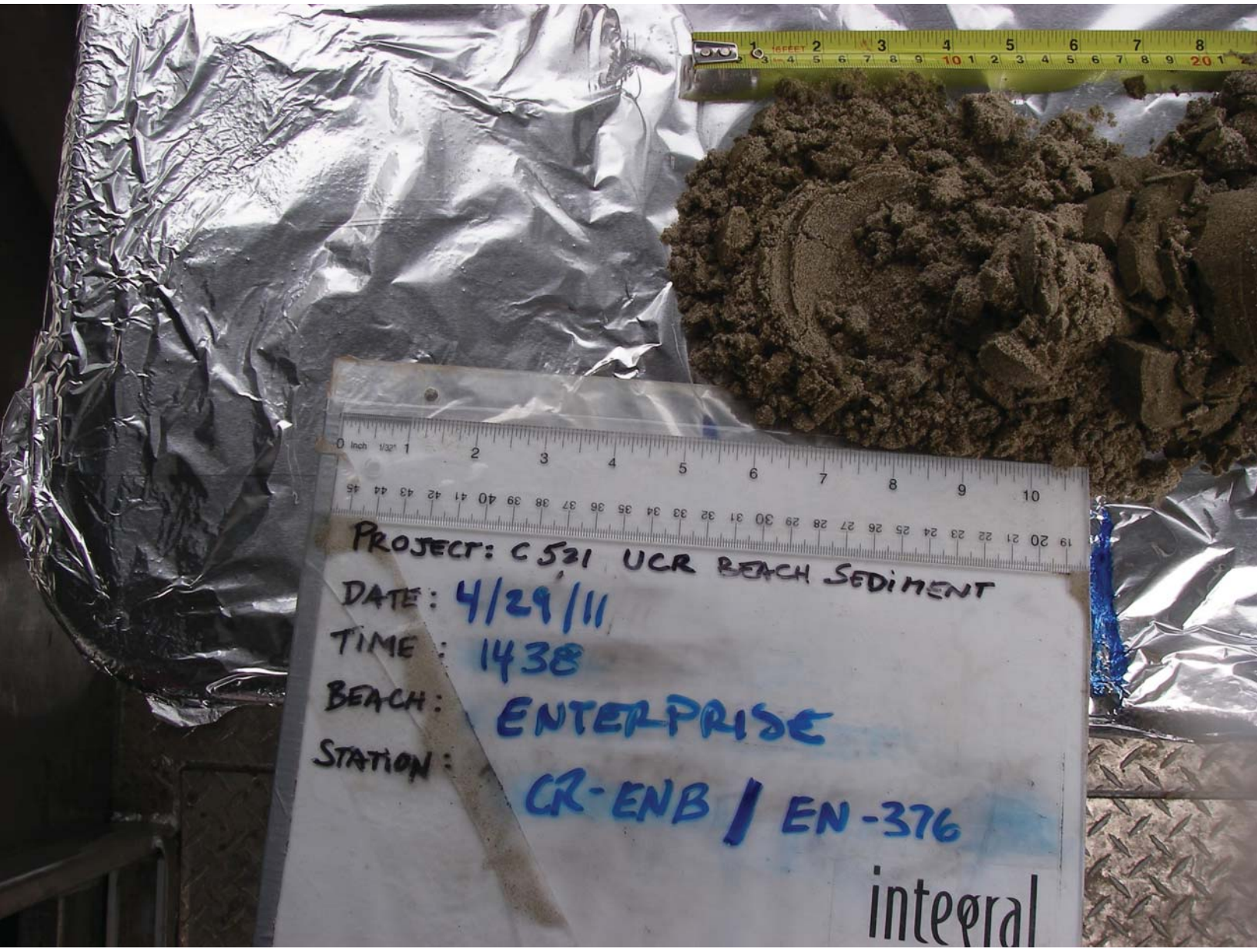
A
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1225
BEACH: ENTERPRISE
STATION: EN-533 - CORE A
integral
consulting inc.

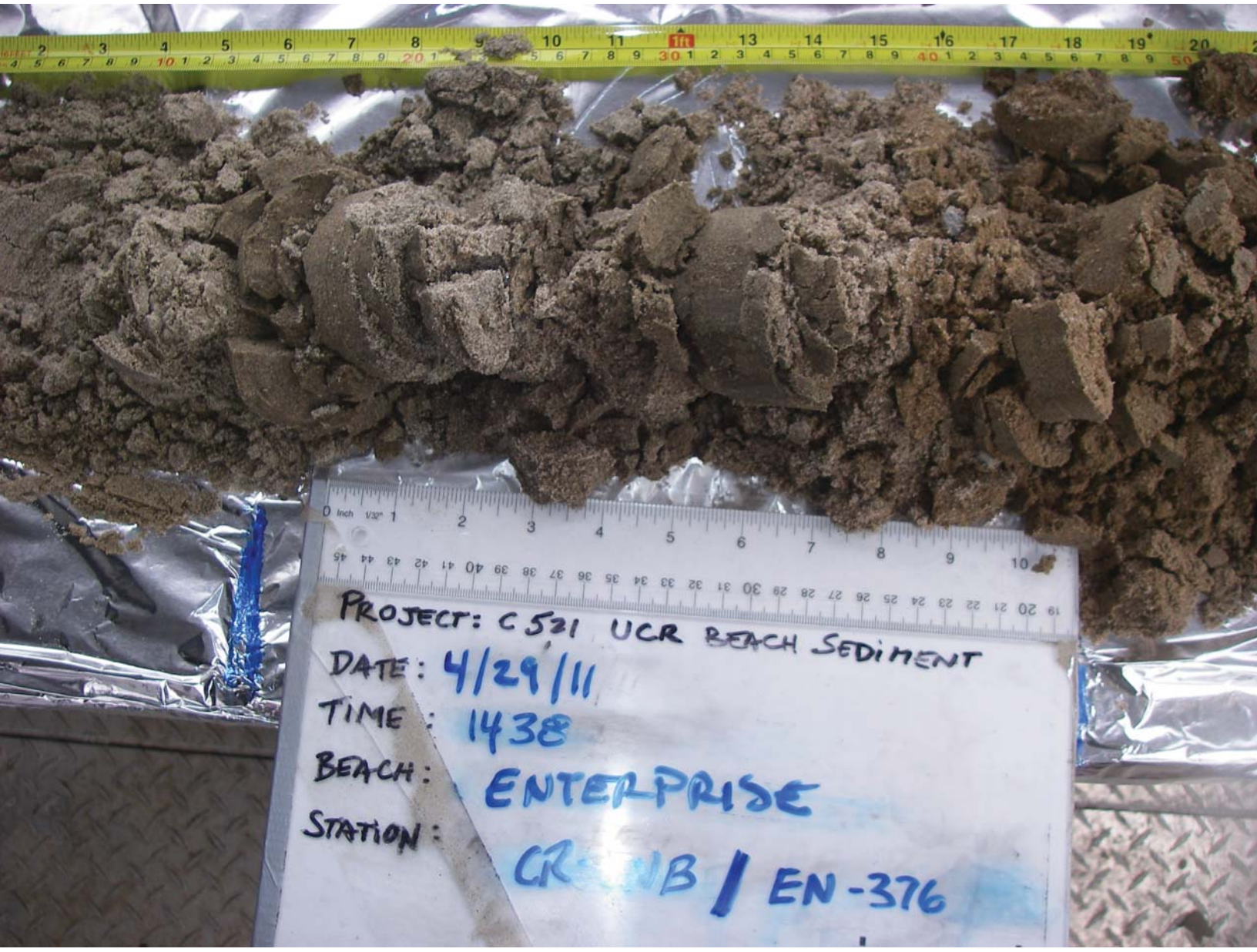

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1420
BEACH: ENTERPRISE
STATION: CR-ENA / EN-533


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1420
BEACH: ENTERPRISE
STATION: CR-ENA / EN-533


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1420
BEACH: ENTERPRISE
STATION: CR-ENA / EN-533

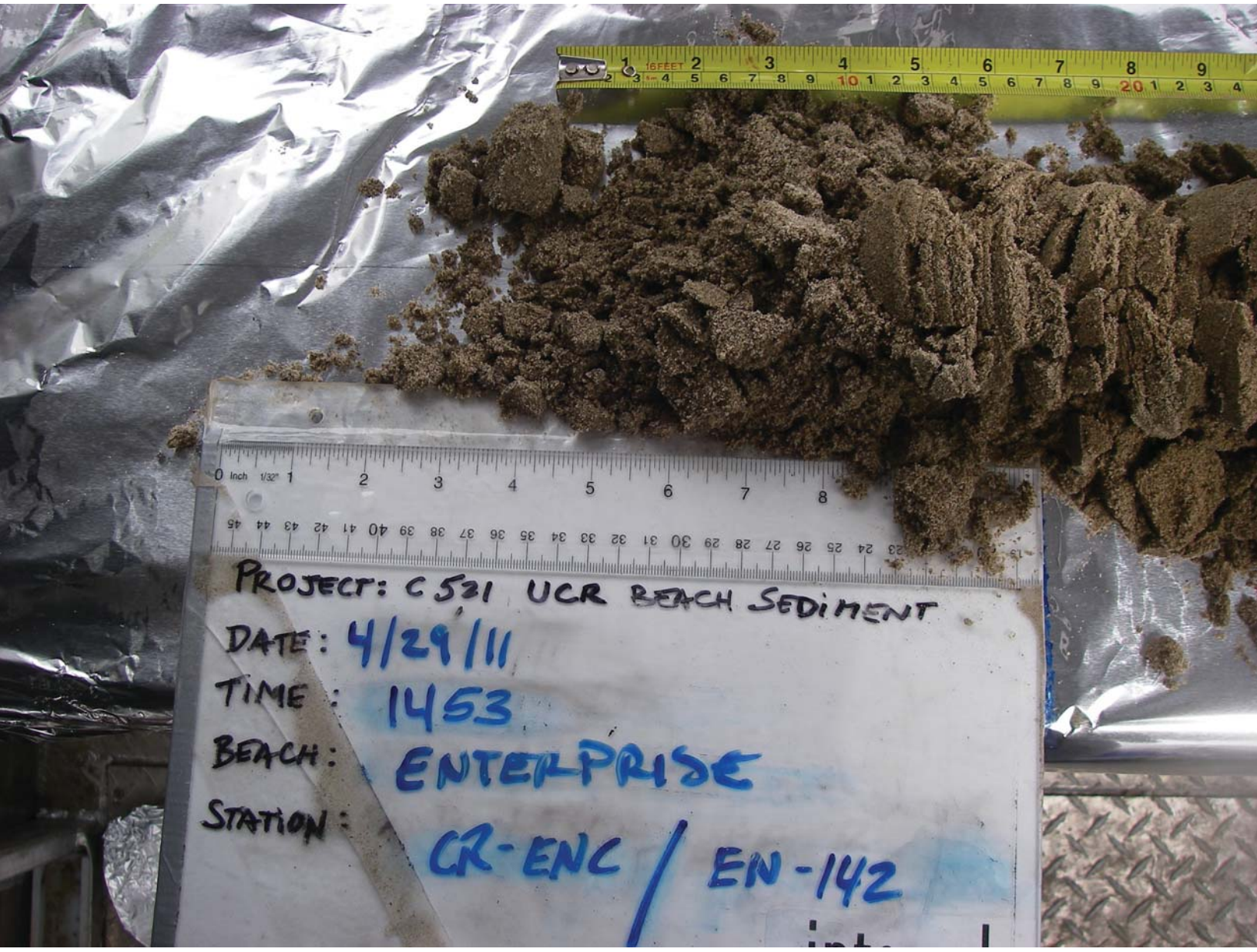

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1233
BEACH: ENTERPRISE
STATION: EN-376 - CORE B
integral

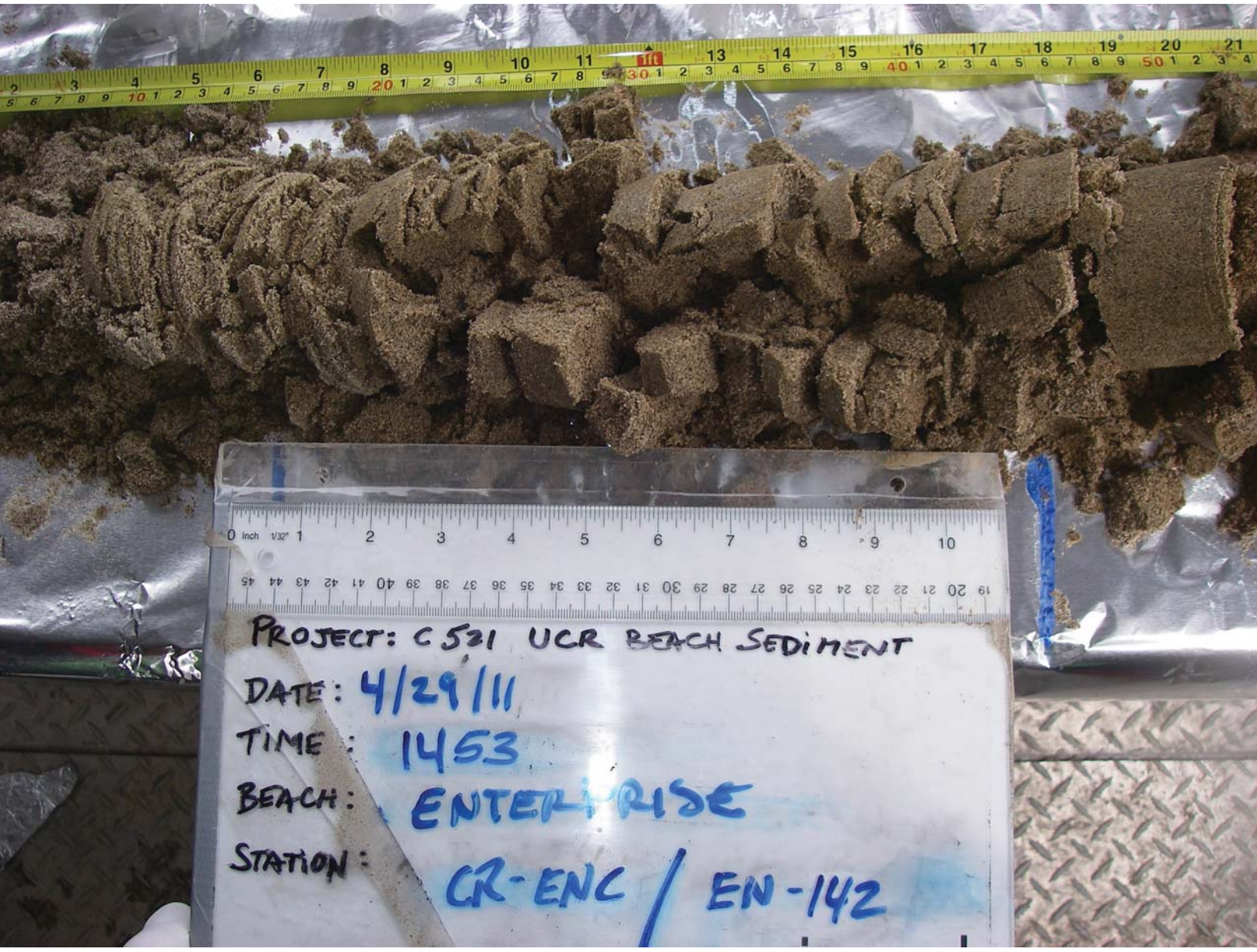

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1438
BEACH: ENTERPRISE
STATION: CR-ENB / EN-376
integral

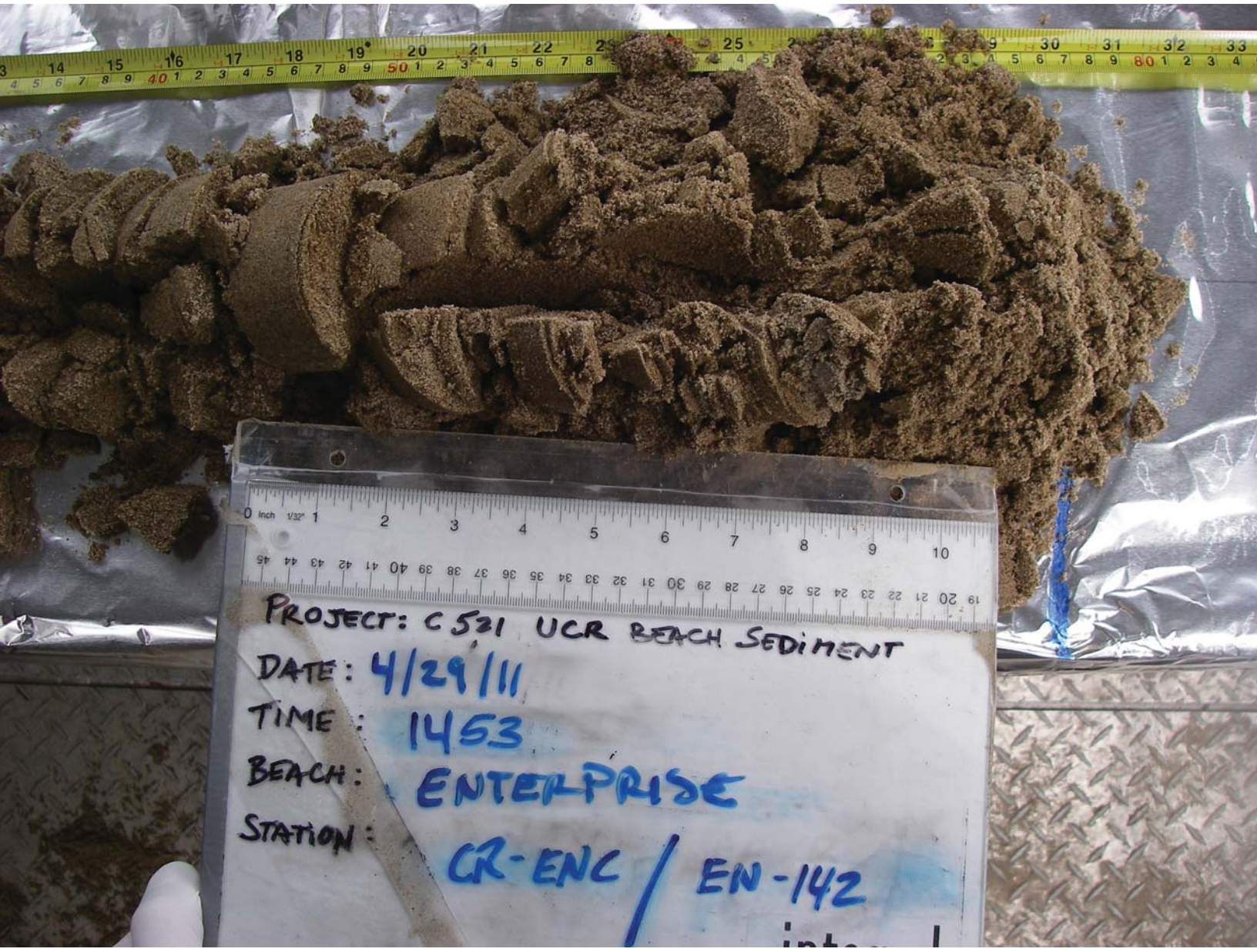

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1438
BEACH: ENTERPRISE
STATION: CR-NB / EN-376

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1438
BEACH: ENTERPRISE
STATION: CR-ENB / EN-376

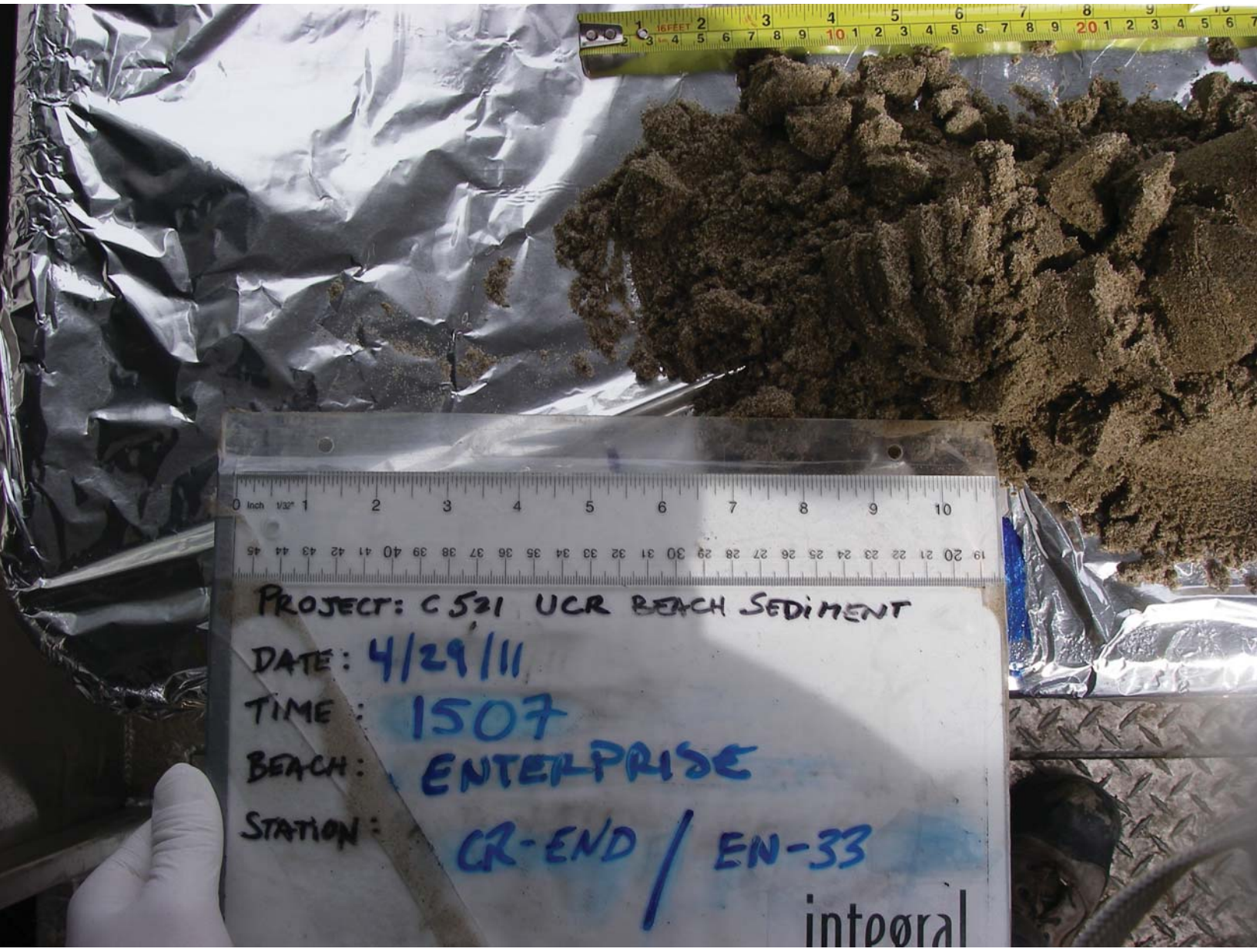
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1243
BEACH: ENTERPRISE
STATION: EN-142 - CORE C
integral


PROJECT: C 531 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1453
BEACH: ENTERPRISE
STATION: CR-ENC / EN-142


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1453
BEACH: ENTERPRISE
STATION: CR-ENC / EN-142


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1453
BEACH: ENTERPRISE
STATION: CR-ENC / EN-142

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1250
BEACH: ENTERPRISE
STATION: EN-33 - CORE D
integral

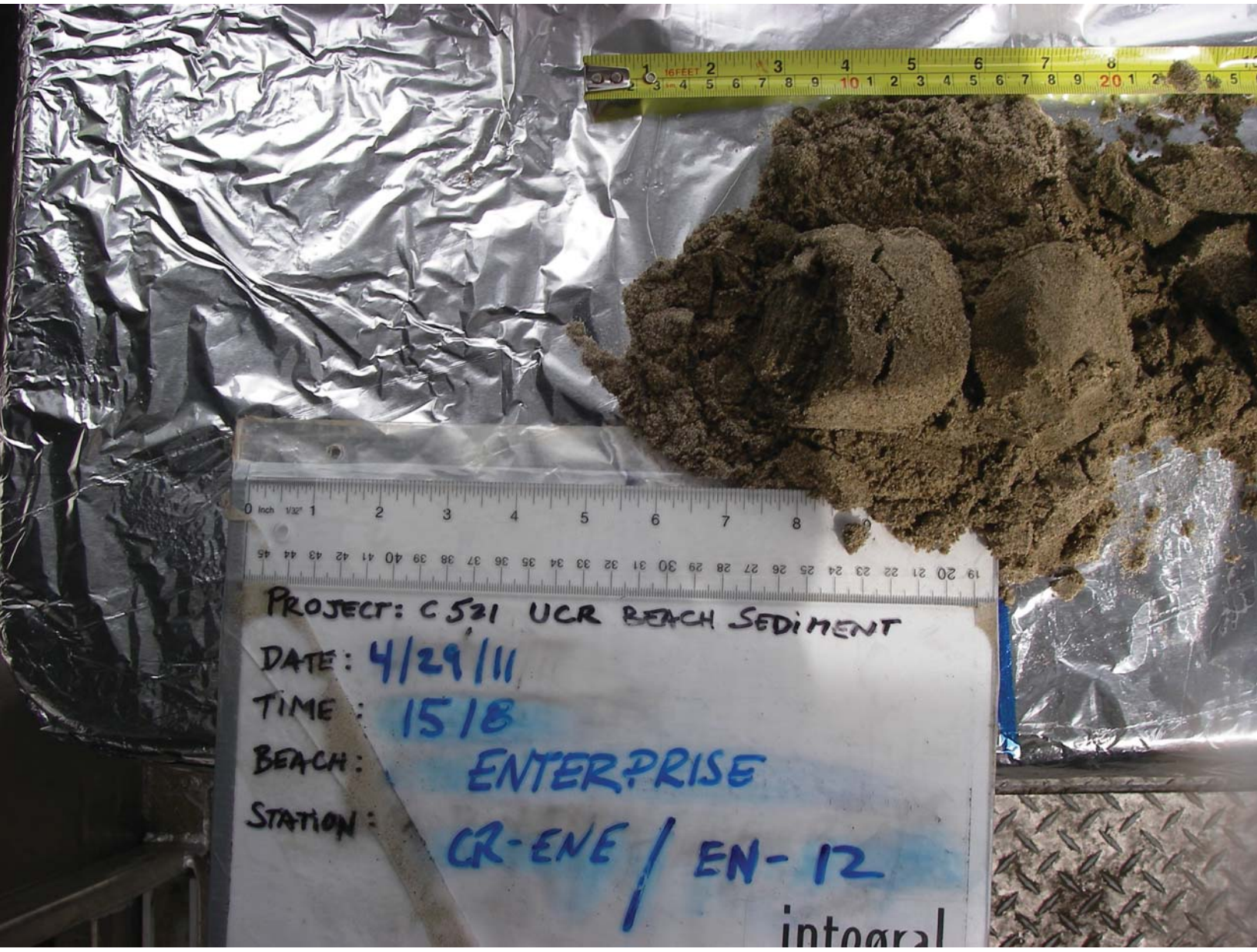

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1507
BEACH: ENTERPRISE
STATION: CR-END / EN-33

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1507
BEACH: ENTERPRISE
STATION: CR-END / EN-33
integral
consulting inc.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1507
BEACH: ENTERPRISE
STATION: CR-END / EN-33

E
PROJECT: C 531 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1258
BEACH: ENTERPRISE
STATION: EN- 12 - CORE E
integral
consulting inc.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1518
BEACH: ENTERPRISE
STATION: CR-ENE / EN-


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1518
BEACH: ENTERPRISE
STATION: CR-ENE / EN-12

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1518
BEACH: ENTERPRISE
STATION: CR-ENE / EN-12

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1518
BEACH: ENTERPRISE
STATION: CR-ENE / EN-12

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– EVANS CAMPGROUND

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4/22/11
TIME: 1805
BEACH: Evans
STATION: EV 476

PROJECT: C-521 - UCR BEACH SEDIMENT - 2011
DATE: 4/22/11
TIME: 1755
BEACH: Evans
STATION: EV-602
integral
consulting inc.

PROJECT: C521- UCR BEACH SEDIMENT- 2011
DATE: 4/22/11
TIME: 1755
BEACH: Evans
STATION: EV-602
integral
consulting inc.

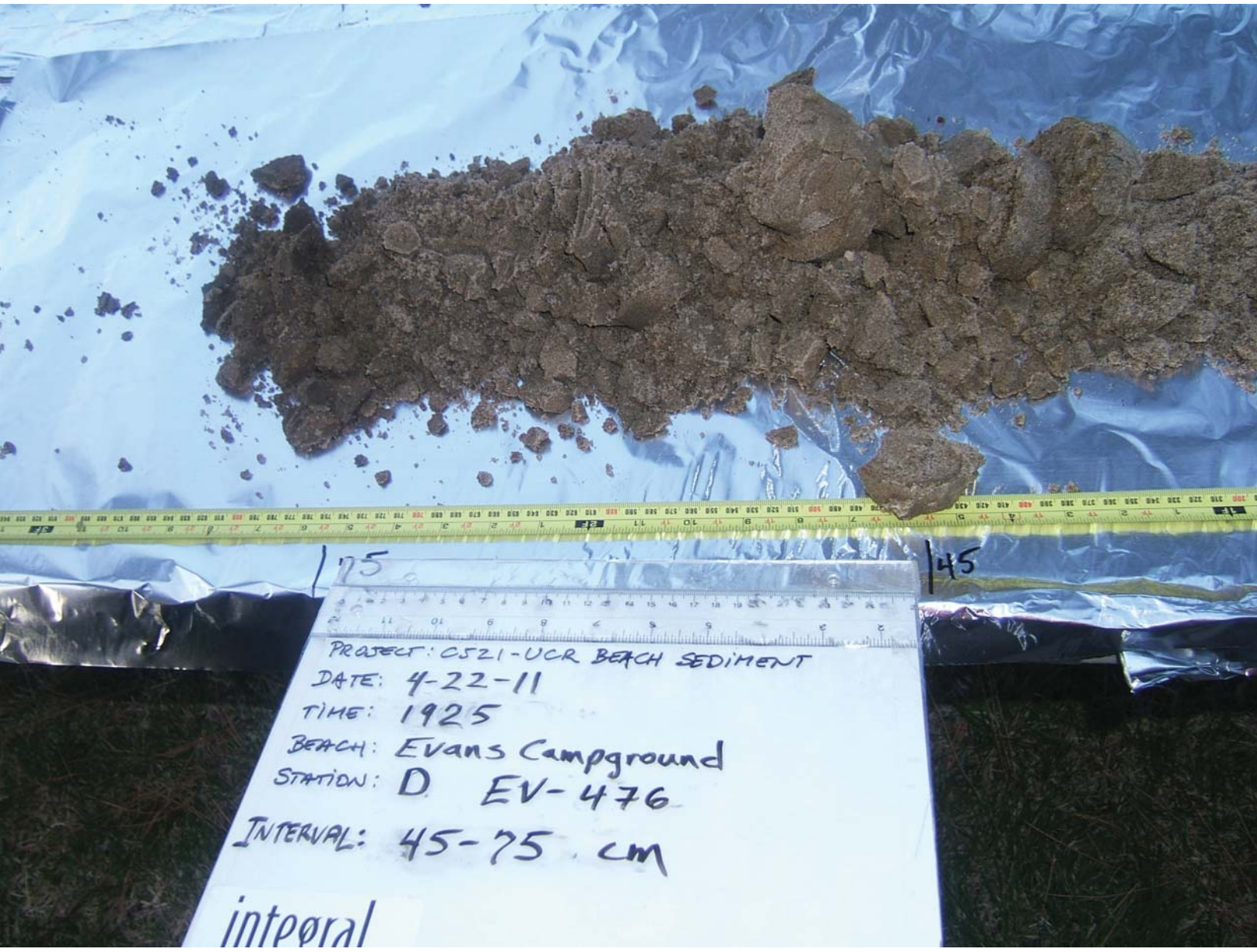
PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4/22/11
TIME: 1742
BEACH: Evans
STATION: EV-113
integral
consulting inc.

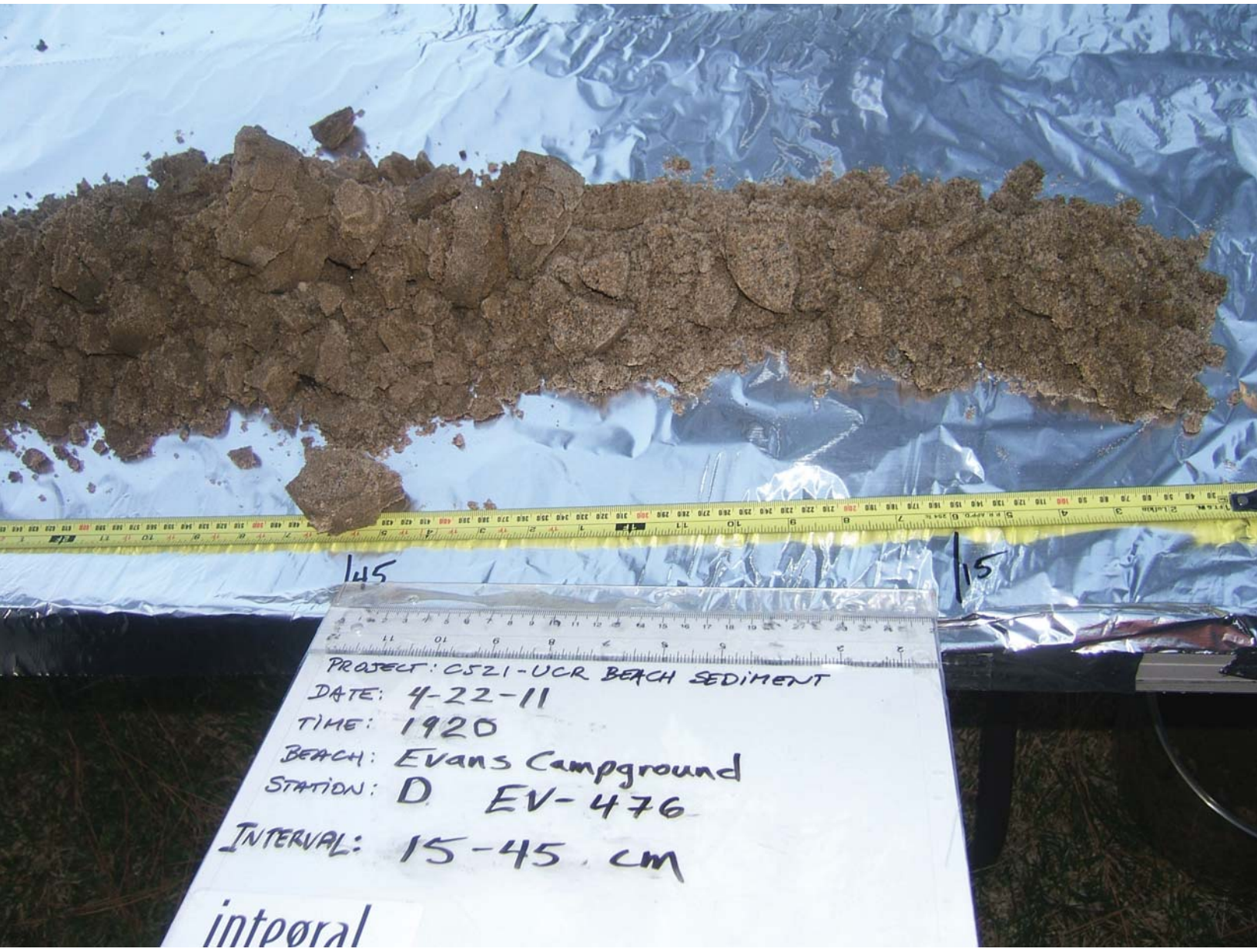
PROJECT: C.521 - UCR BEACH SEDIMENT - 2011
DATE: 4/22/11
TIME: 1731
BEACH: Evans
STATION: EV-203

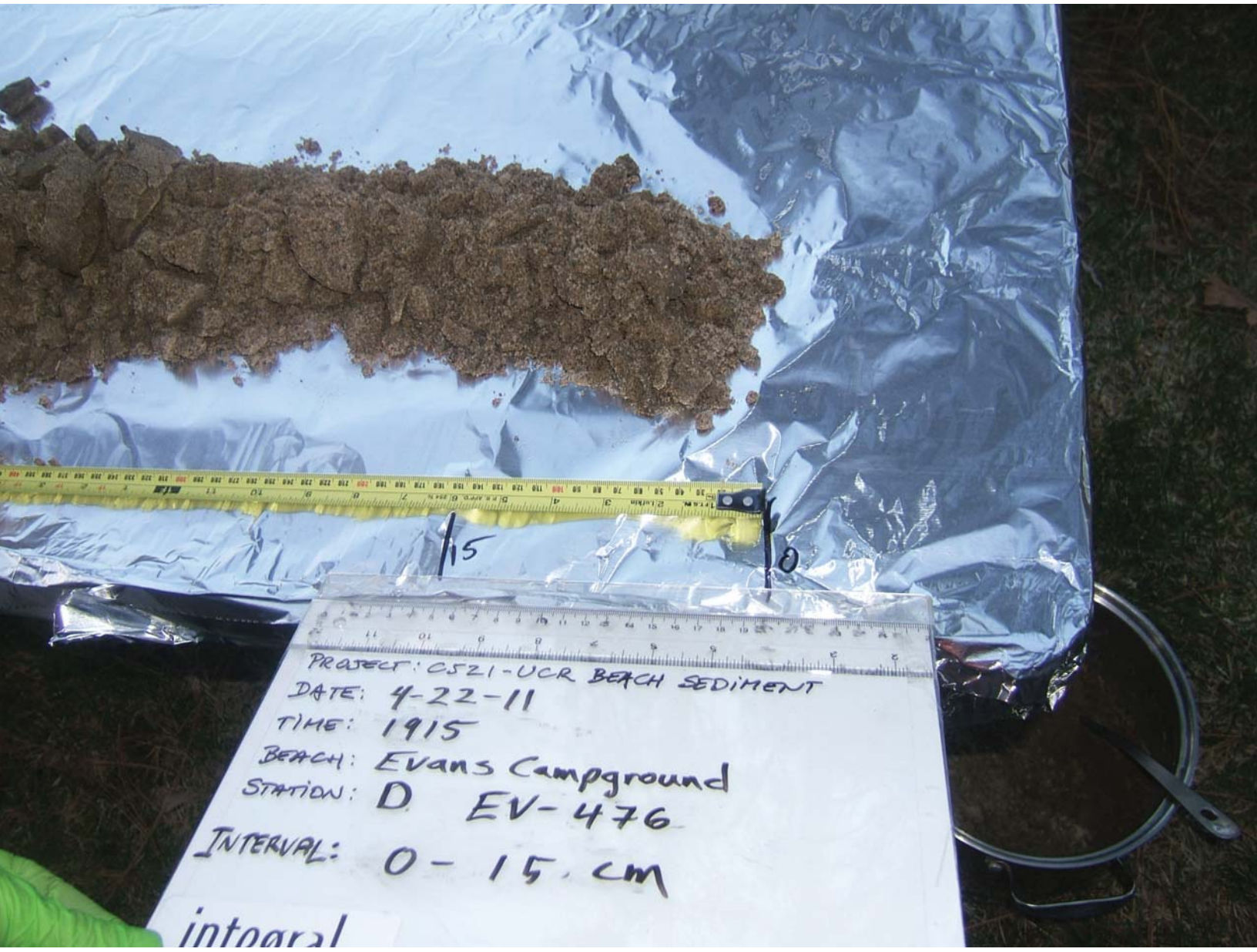
175
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1940
BEACH: Evans Campground
STATION: E EV-763
INTERVAL: 45-75 cm

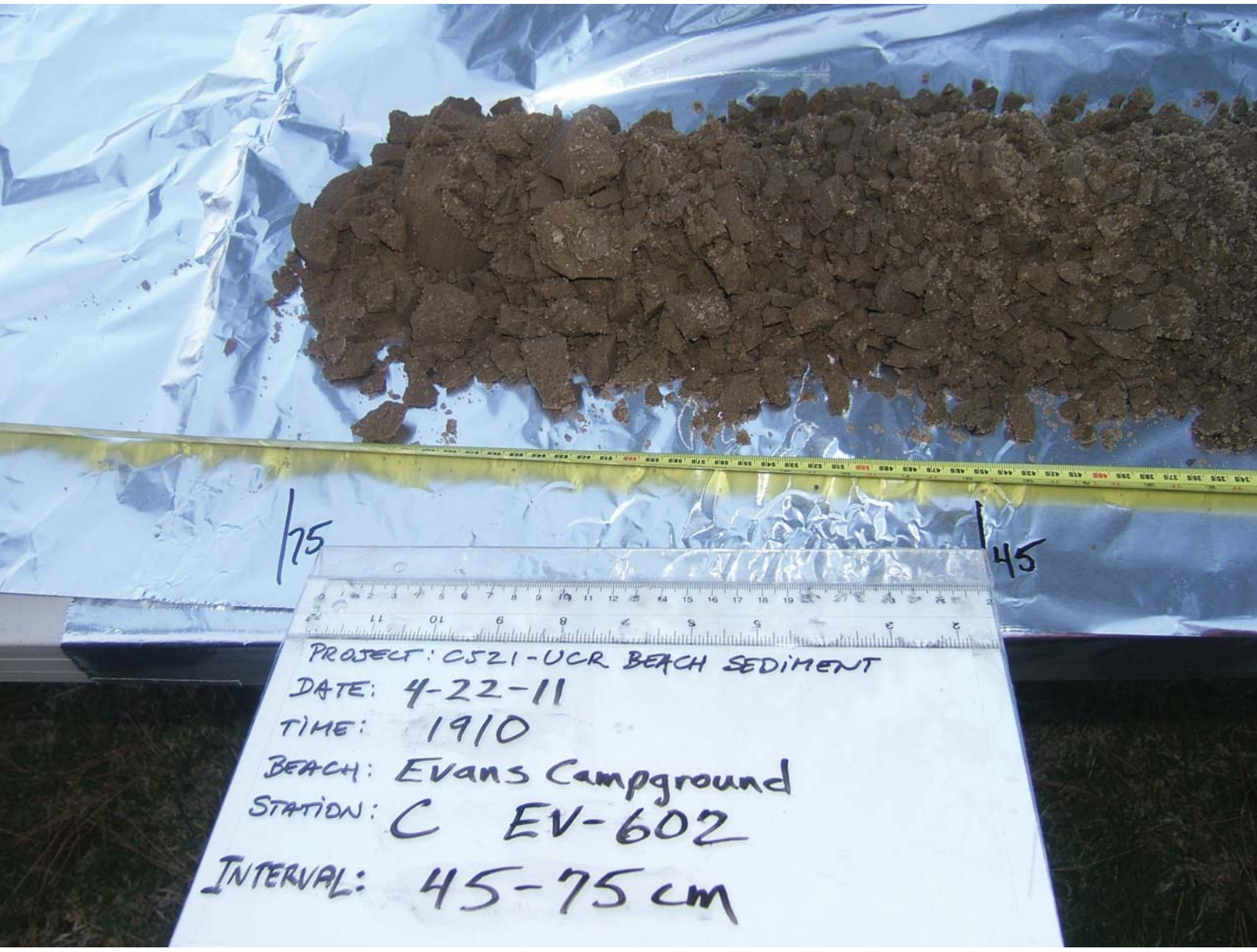
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1935
BEACH: Evans Campground
STATION: E EV-763
INTERVAL: 15-45 cm
15
intgral

PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1930
BEACH: Evans Campground
STATION: E EV-763
INTERVAL: 0-15 cm


75
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1925
BEACH: Evans Campground
STATION: D EV-476
INTERVAL: 45-75 cm
integral


45
15
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1920
BEACH: Evans Campground
STATION: D EV-476
INTERVAL: 15-45 cm
intporal


15
0
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1915
BEACH: Evans Campground
STATION: D EV-476
INTERVAL: 0-15 cm
integral


75
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1910
BEACH: Evans Campground
STATION: C EV-602
INTERVAL: 45-75 cm

45
15
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1905
BEACH: Evans Campground
STATION: C EV-602
INTERVAL: 15-45cm
integral

15
01
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1900
BEACH: Evans Campground
STATION: C EV-602
INTERVAL: 0-15cm

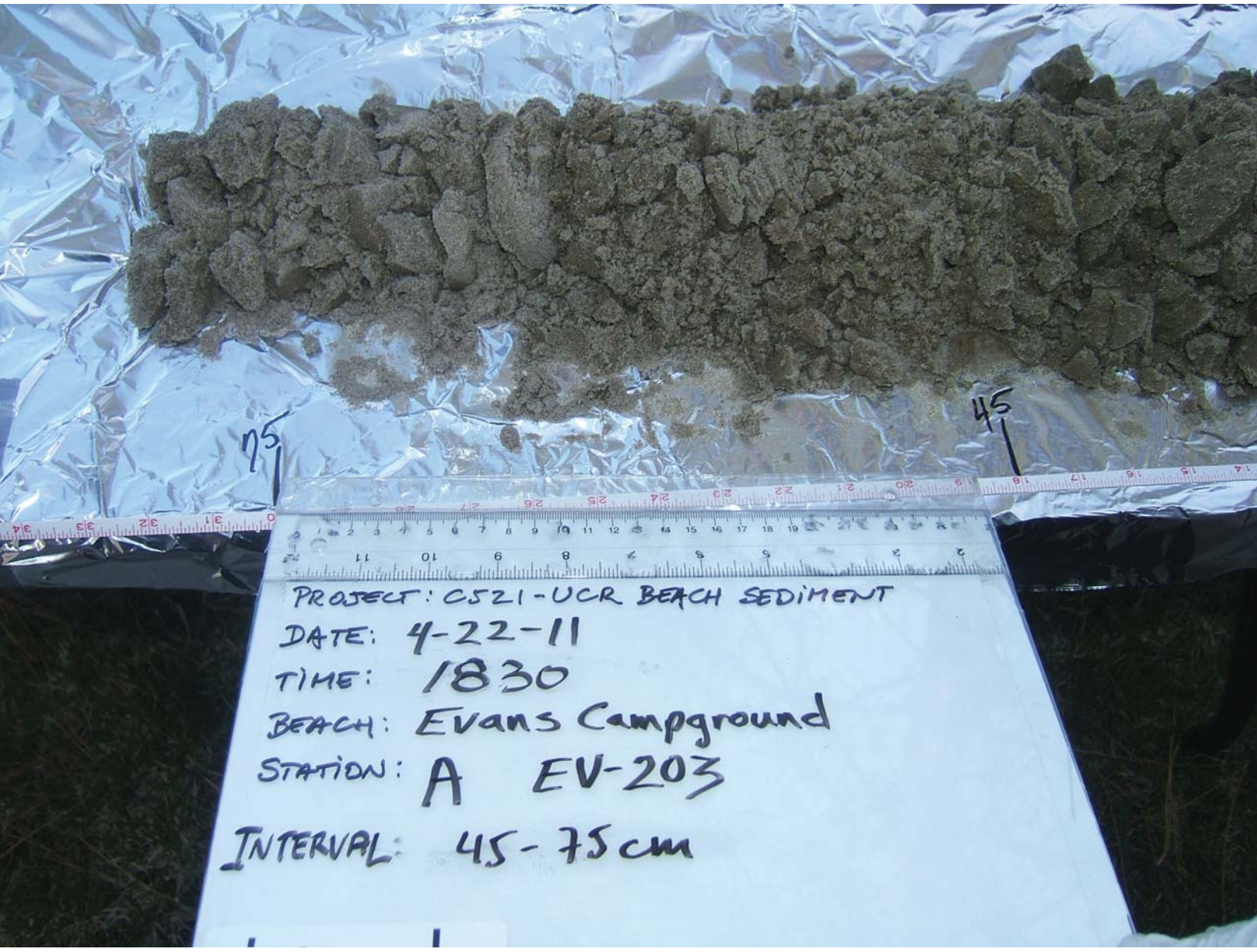
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1850
BEACH: Evans Campground
STATION: B EV-113
INTERVAL: 45-75cm

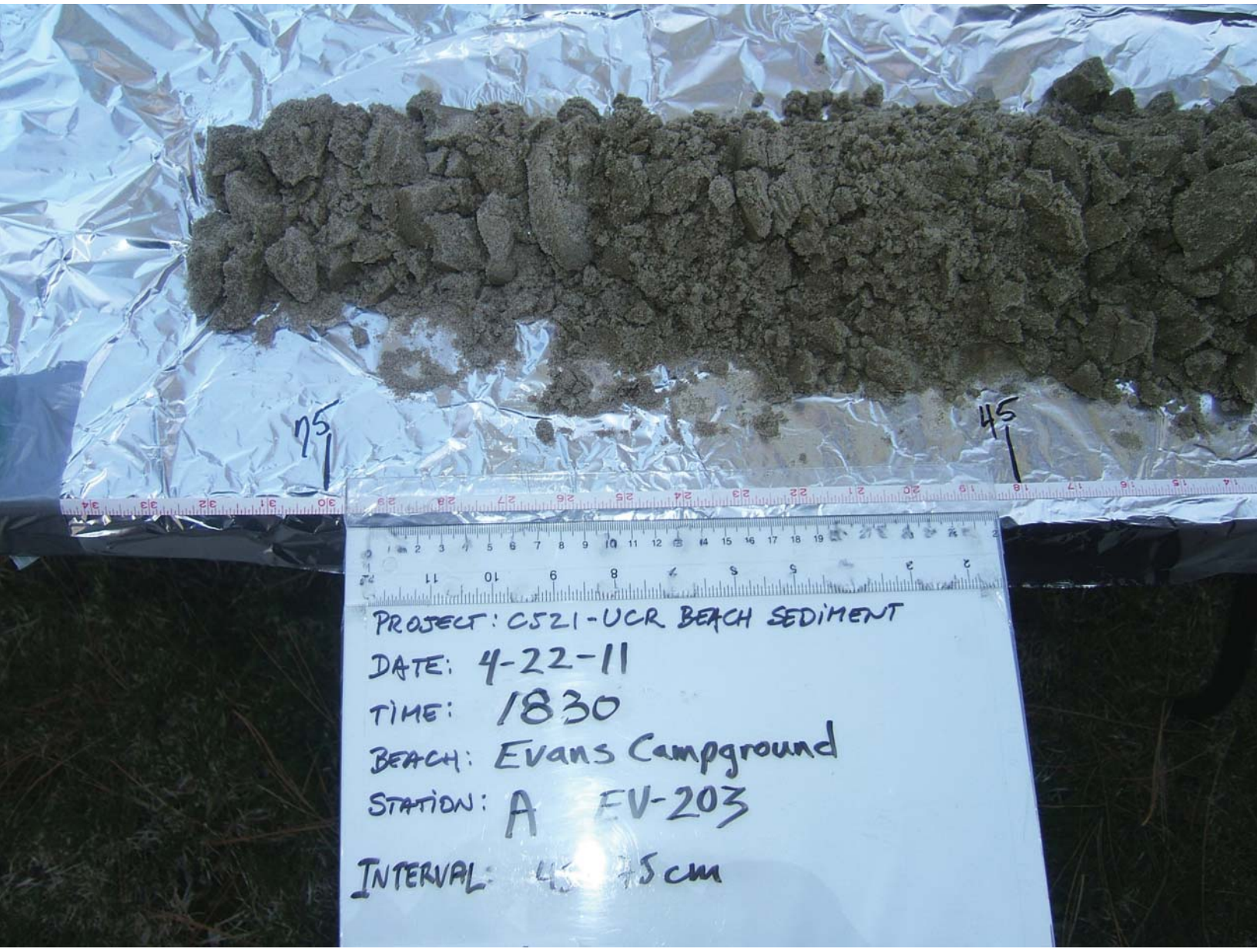
75
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1850
BEACH: Evans Campground
STATION: B EV-113
INTERVAL: 45-75cm

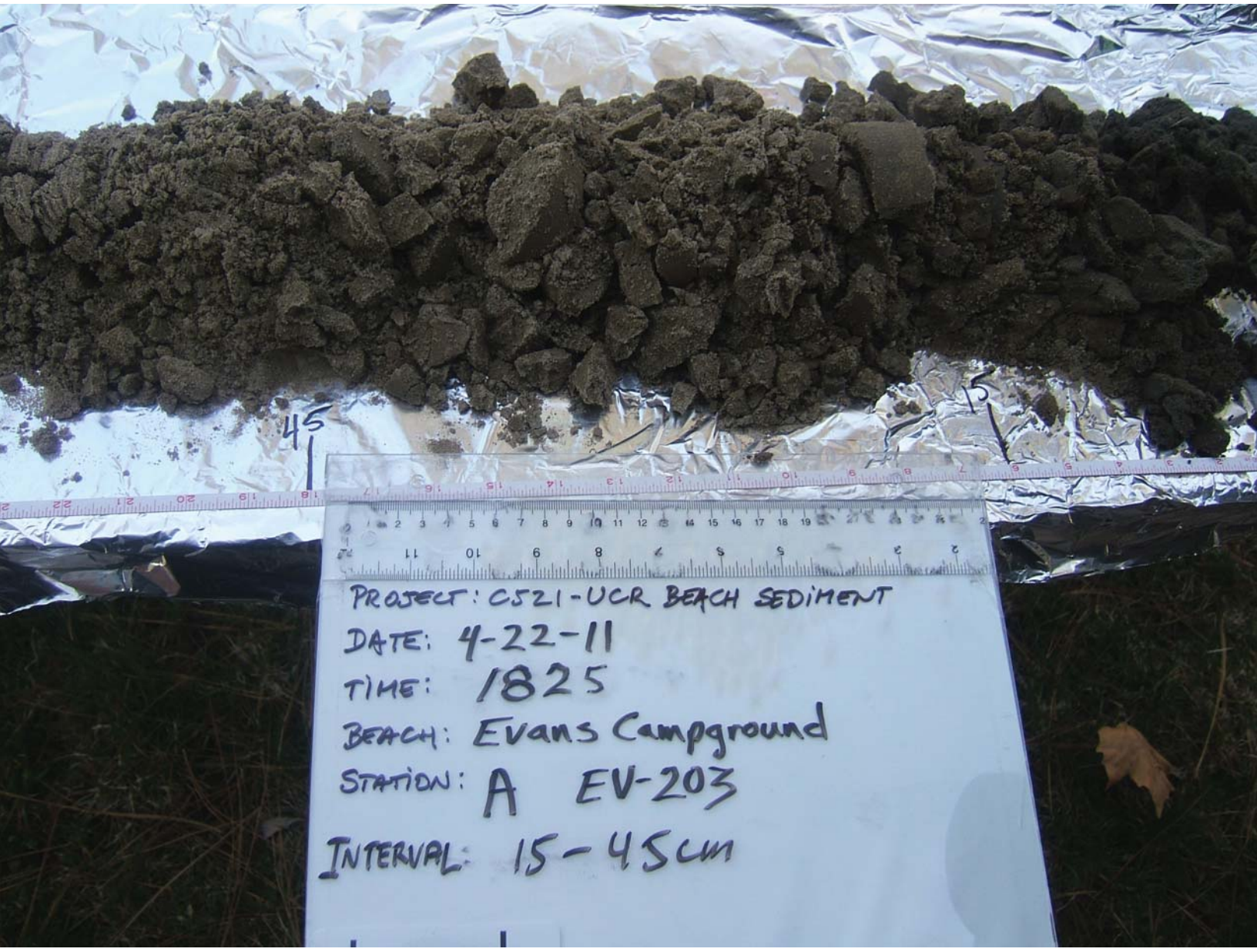
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1845
BEACH: Evans Campground
STATION: B EV-113
INTERVAL: 15-45cm
integral

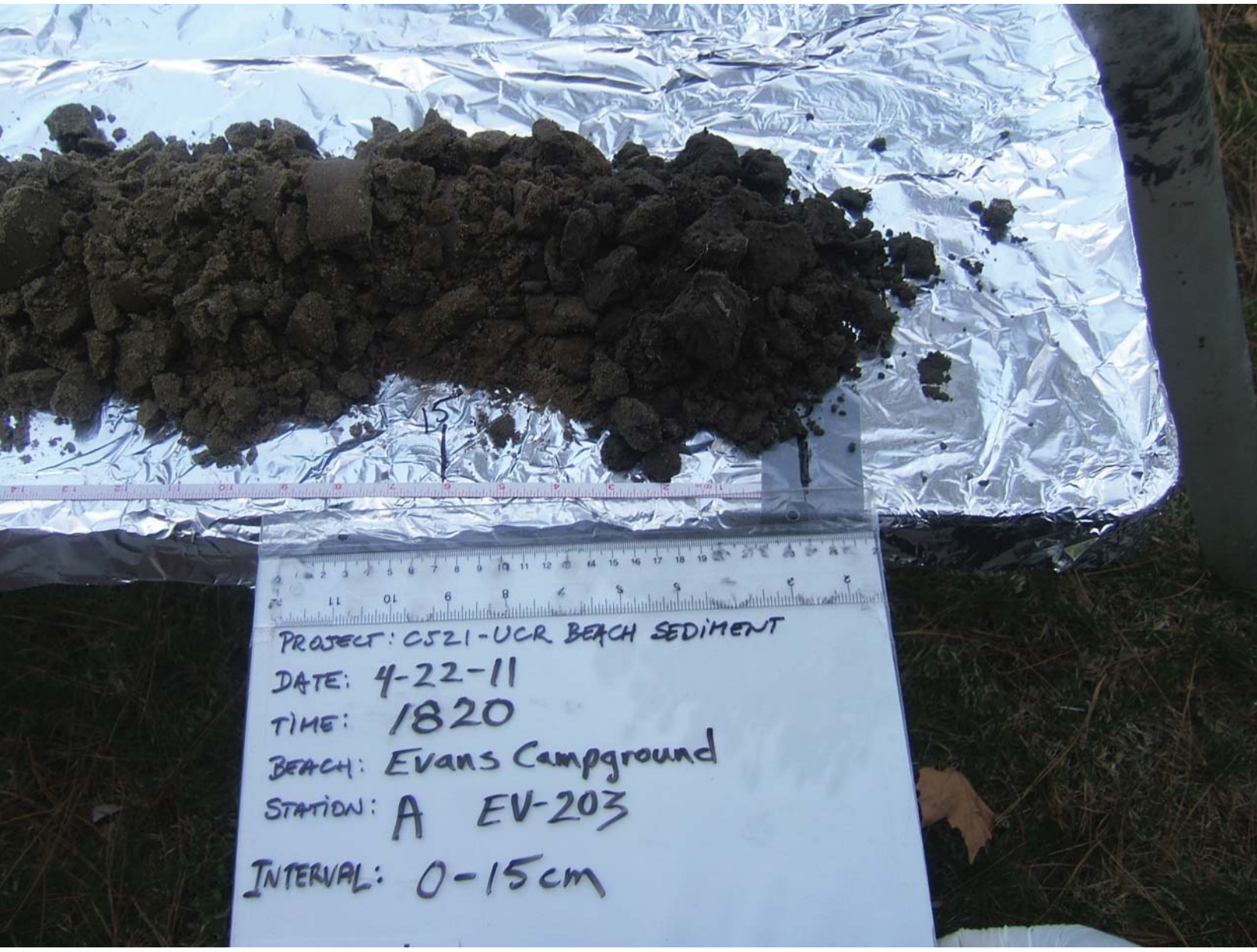
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1840
BEACH: Evans Campground
STATION: B EV-113
INTERVAL: 0-15cm

15
10
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1840
BEACH: Evans Campground
STATION: B EV-113
INTERVAL: 0-15 cm


75
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1830
BEACH: Evans Campground
STATION: A EV-203
INTERVAL: 45-75 cm


75
45
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1830
BEACH: Evans Campground
STATION: A EV-203
INTERVAL: 45 75 cm


45
15
PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1825
BEACH: Evans Campground
STATION: A EV-203
INTERVAL: 15-45cm


PROJECT: C521-UCR BEACH SEDIMENT
DATE: 4-22-11
TIME: 1820
BEACH: Evans Campground
STATION: A EV-203
INTERVAL: 0-15cm

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4/22/11
TIME: 1812
BEACH: Evans
STATION: EV 763

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– FLAT CREEK

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1438
BEACH: FLATCREEK
STATION: CORE CR-FCE
integral
consulting inc.

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1438
BEACH: FLATCREEK
STATION: CORE CR-FCE
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1432
BEACH: FLATCREEK
STATION: CORE CR-FCD
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1432
BEACH: FLATCREEK
STATION: CORE CR-FCD
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1432
BEACH: FLATCREEK
STATION: CORE CR-FCD
integral
consulting inc.

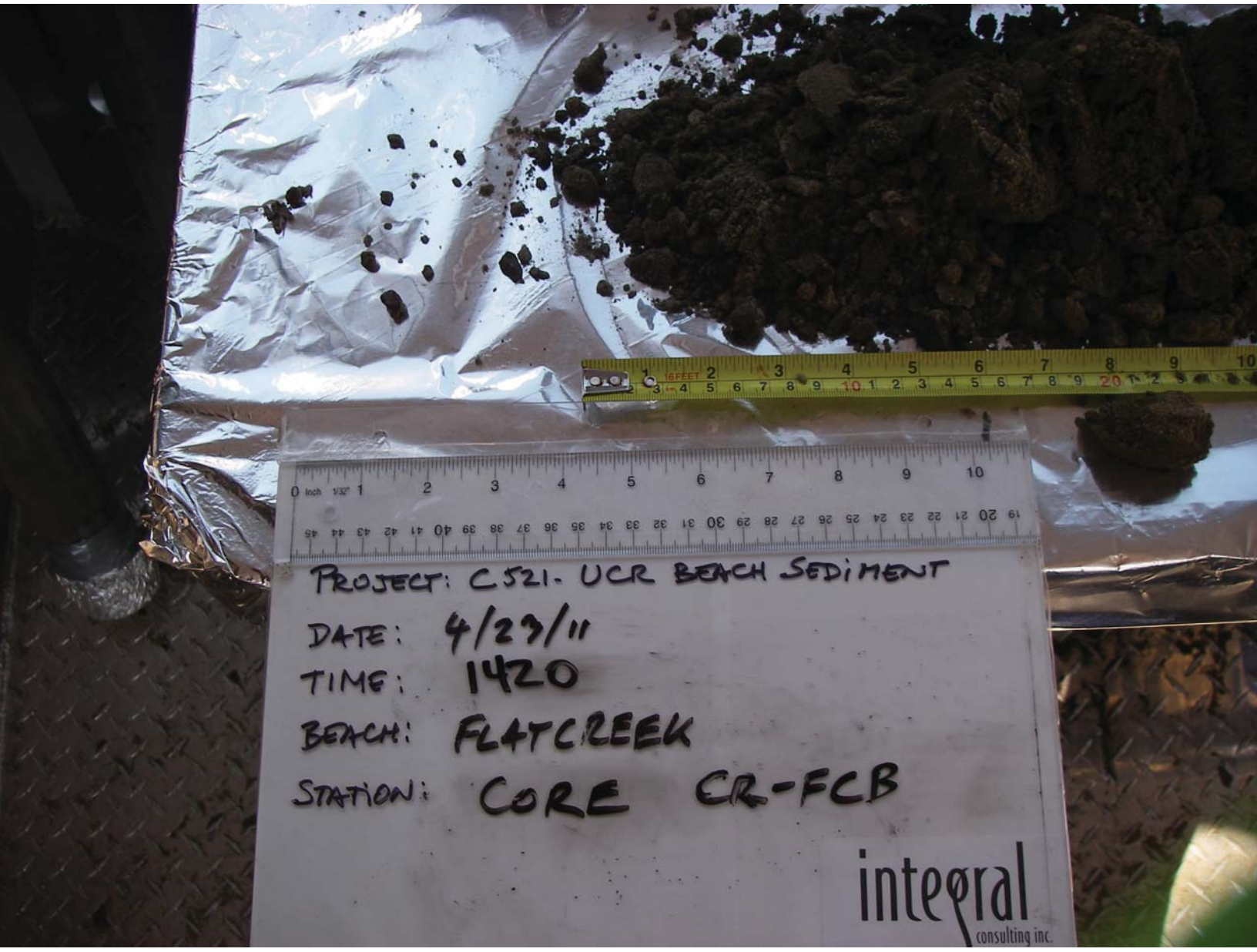
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1426
BEACH: FLATCREEK
STATION: CORE CR-FCC
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1426
BEACH: FLATCREEK
STATION: CORE CR-FCC
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1426
BEACH: FLATCREEK
STATION: CORE CR-FCC
integral
consulting inc.

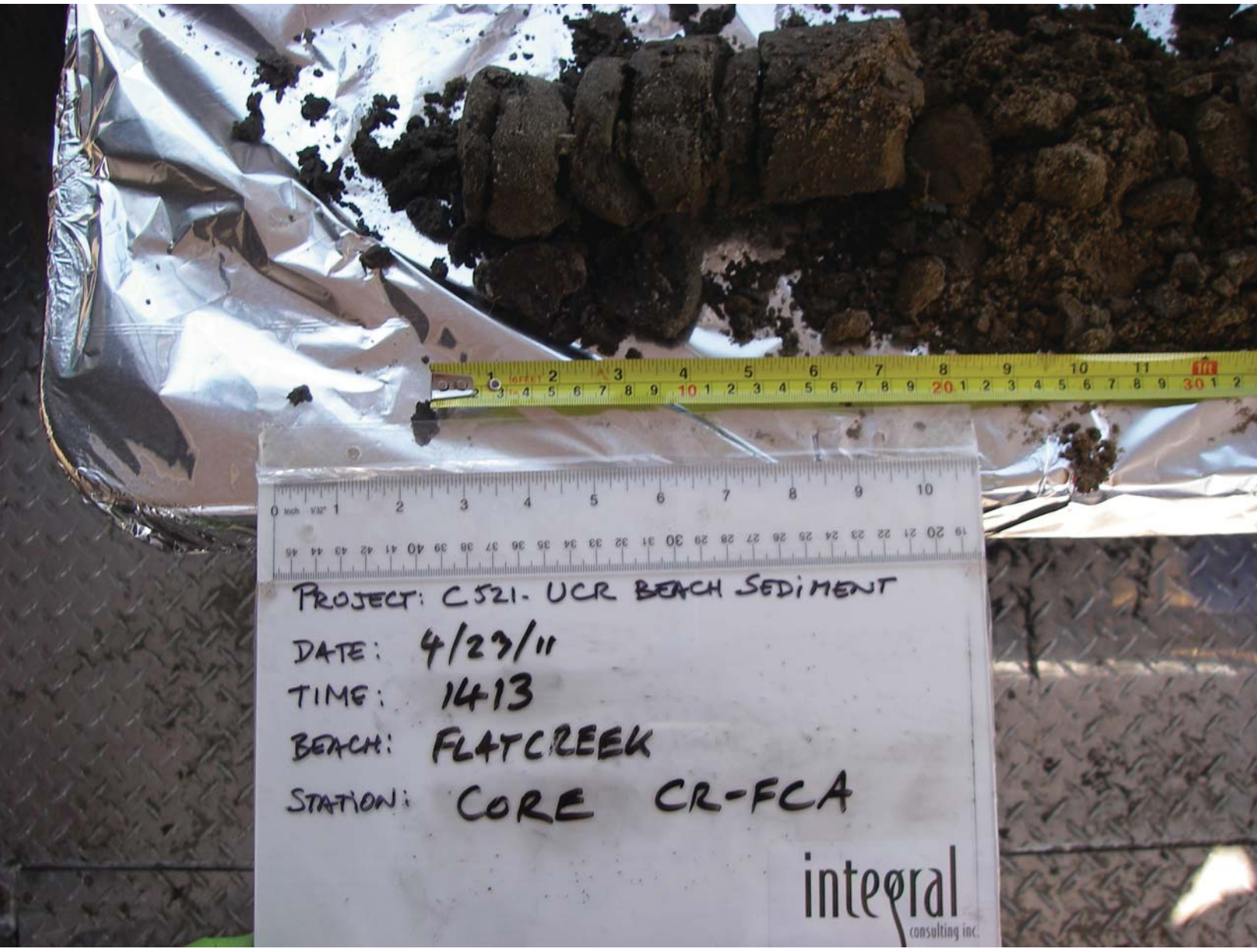
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1420
BEACH: FLATCREEK
STATION: CORE CR-FCB
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1420
BEACH: FLATCREEK
STATION: CORE CR-FCB
integral


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1420
BEACH: FLATCREEK
STATION: CORE CR-FCB
integral
consulting inc.

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1413
BEACH: FLATCREEK
STATION: CORE CR-FCA

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1413
BEACH: FLATCREEK
STATION: CORE CR-FCA
integral


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1413
BEACH: FLATCREEK
STATION: CORE CR-FCA
integral
consulting inc.

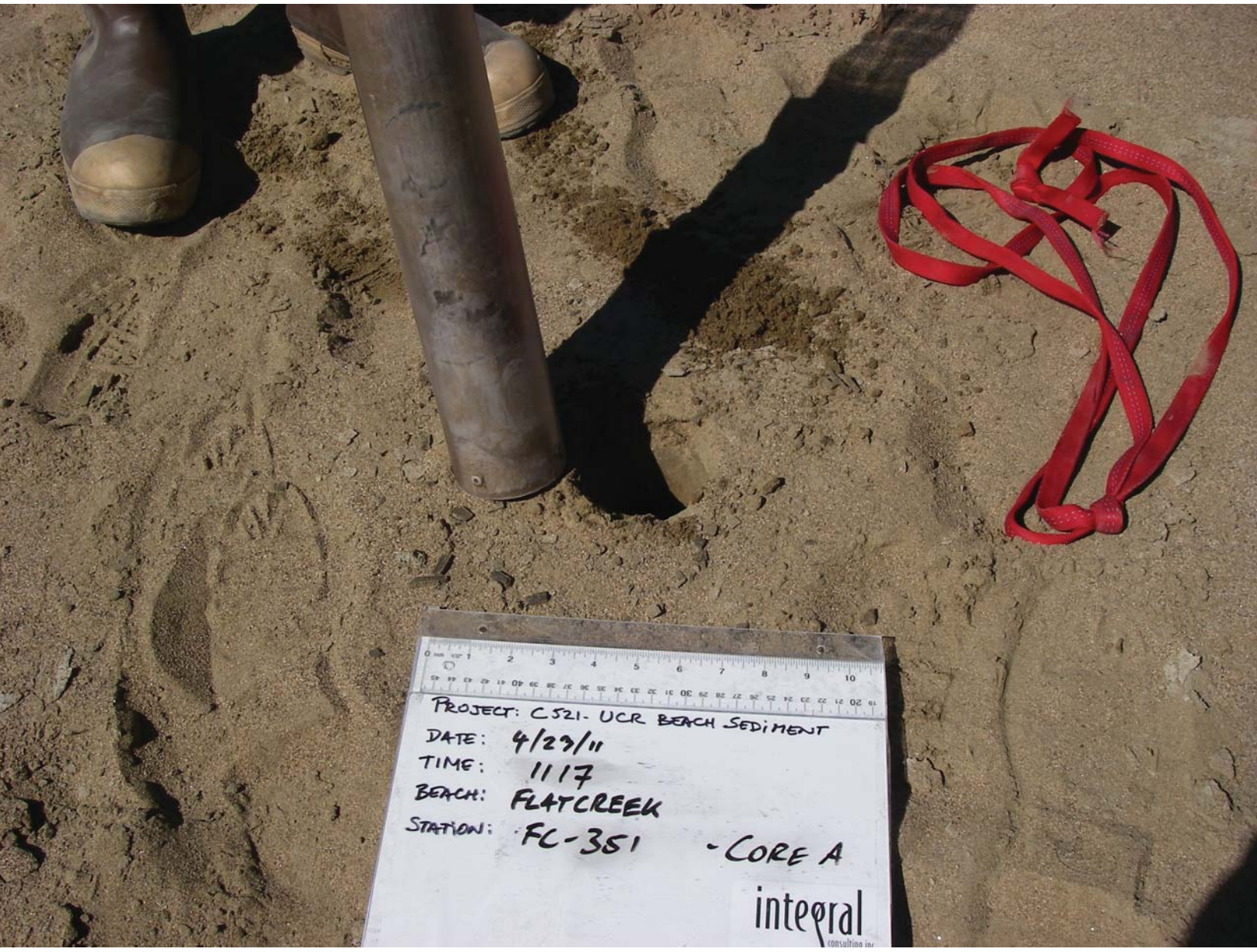
PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1157
BEACH: FLATCREEK
STATION: FC-144
ALTERNATE - CORE E

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1152
BEACH: FLATCREEK
STATION: FC-181 - CORE D
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1145
BEACH: FLATCREEK
STATION: FC-230 - CORE C

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1137
BEACH: FLATCREEK
STATION: FC-243 - CORE B
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/23/11
TIME: 1127
BEACH: FLATCREEK
STATION: FC-333
ALTERNATE - CORE A
integral


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/27/11
TIME: 1117
BEACH: FLATCREEK
STATION: FC-351 - CORE A
integral

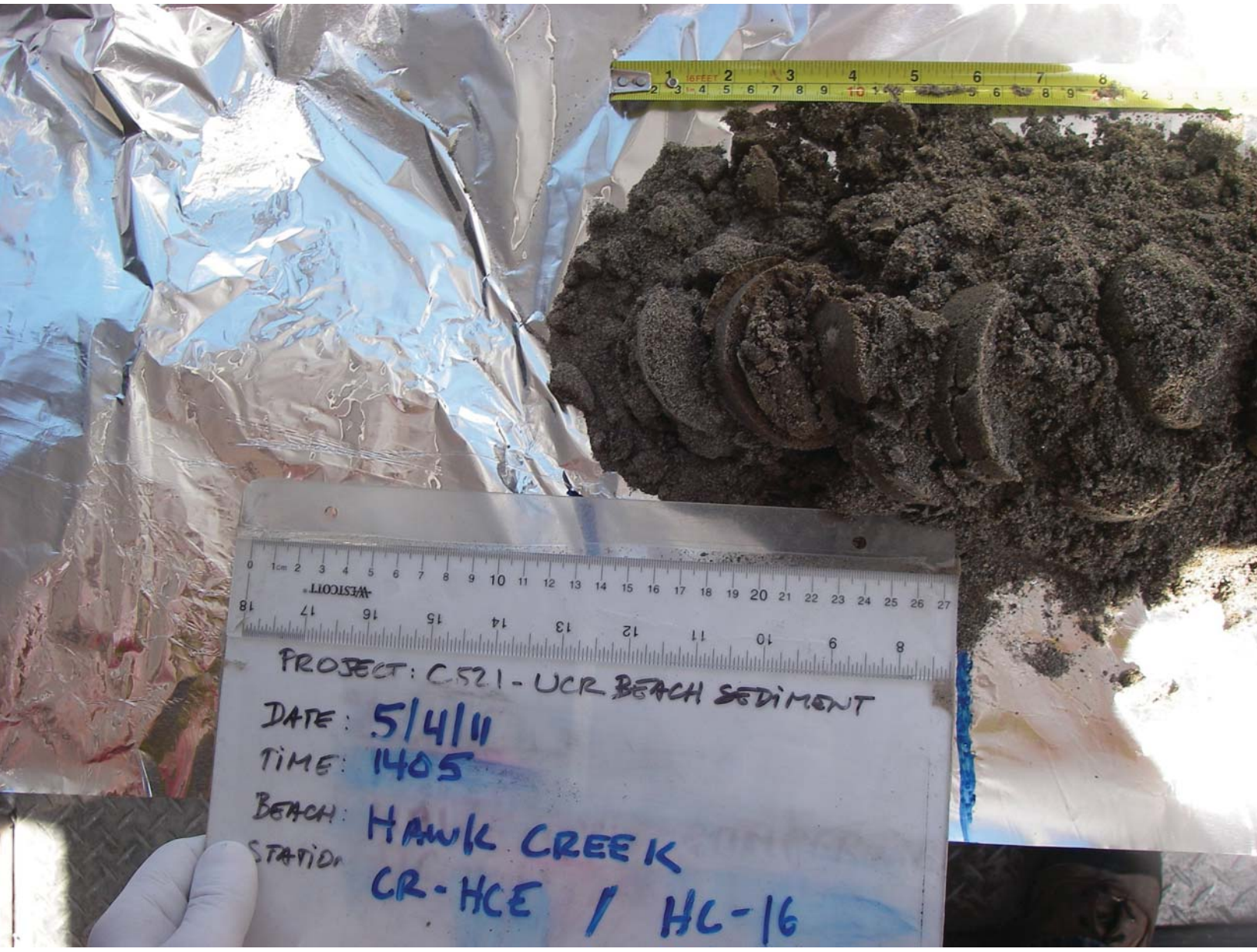
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/29/11
TIME: 1438
BEACH: FLATCREEK
STATION: CORE CR-FCE
integral

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

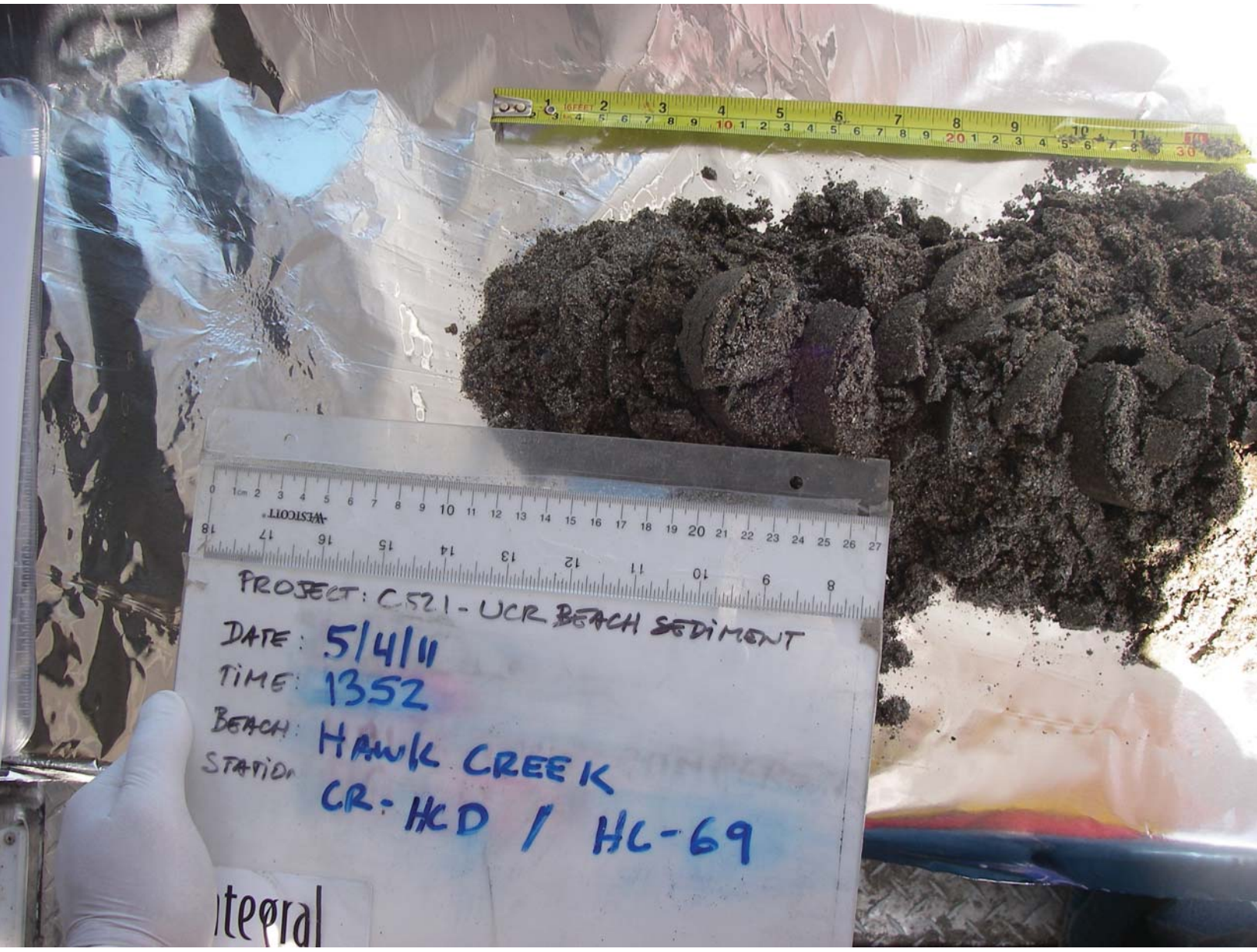
– HAWK CREEK

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1405
BEACH: HAWK CREEK
STATION: CR-HCE / HC-16


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1405
BEACH: HAWK CREEK
STATION: CR-HCE / HC-16

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1352
BEACH: HAWK CREEK
STATION: CR-HCD / HC-69

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1352
BEACH: HAWK CREEK
STATION: CR-HCD / HC-69


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1352
BEACH: HAWK CREEK
STATION: CR-HCD / HC-69

PROJECT: C521 - UCR BEACH SEDIMENT

DATE: 5/4/11

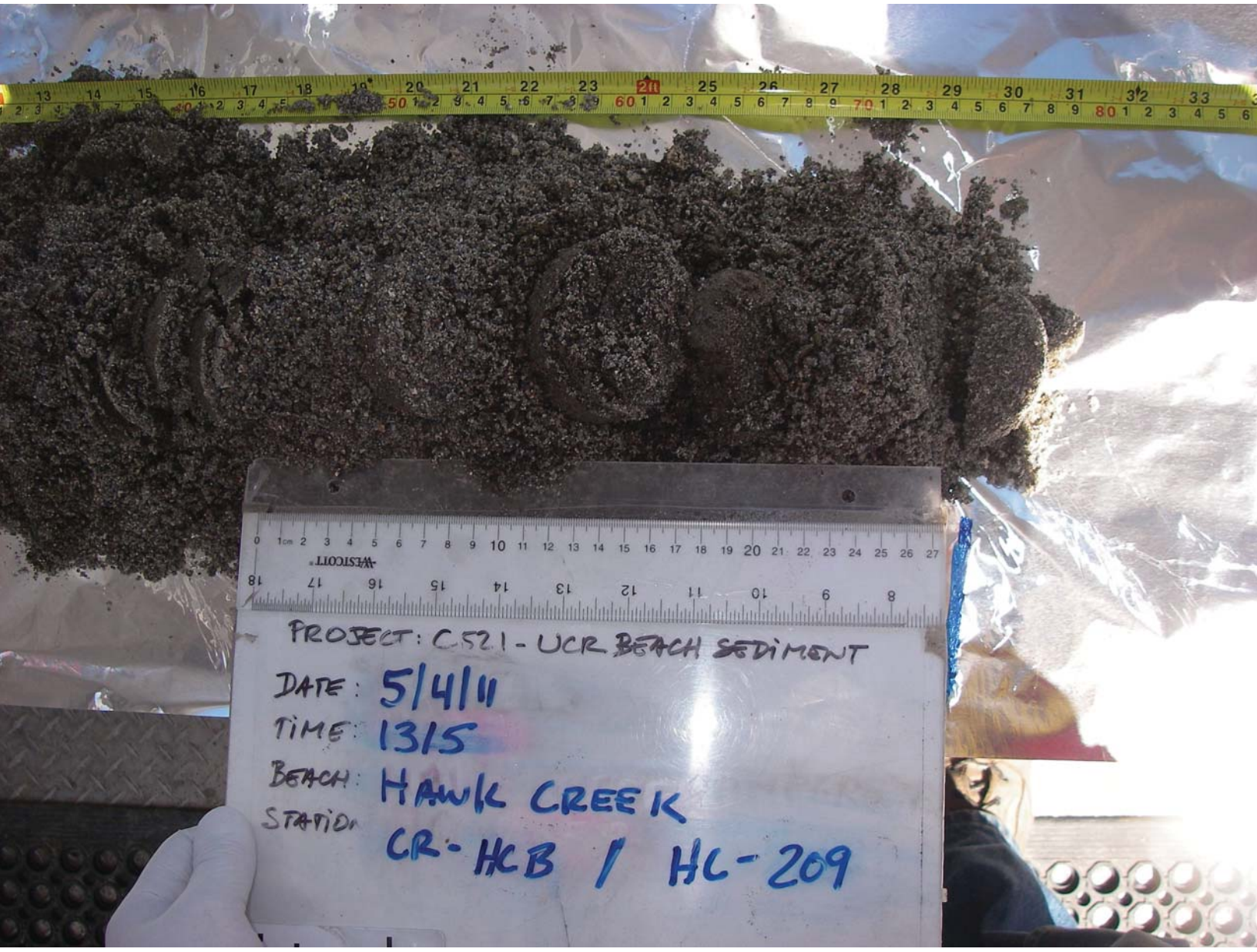
TIME: 1328

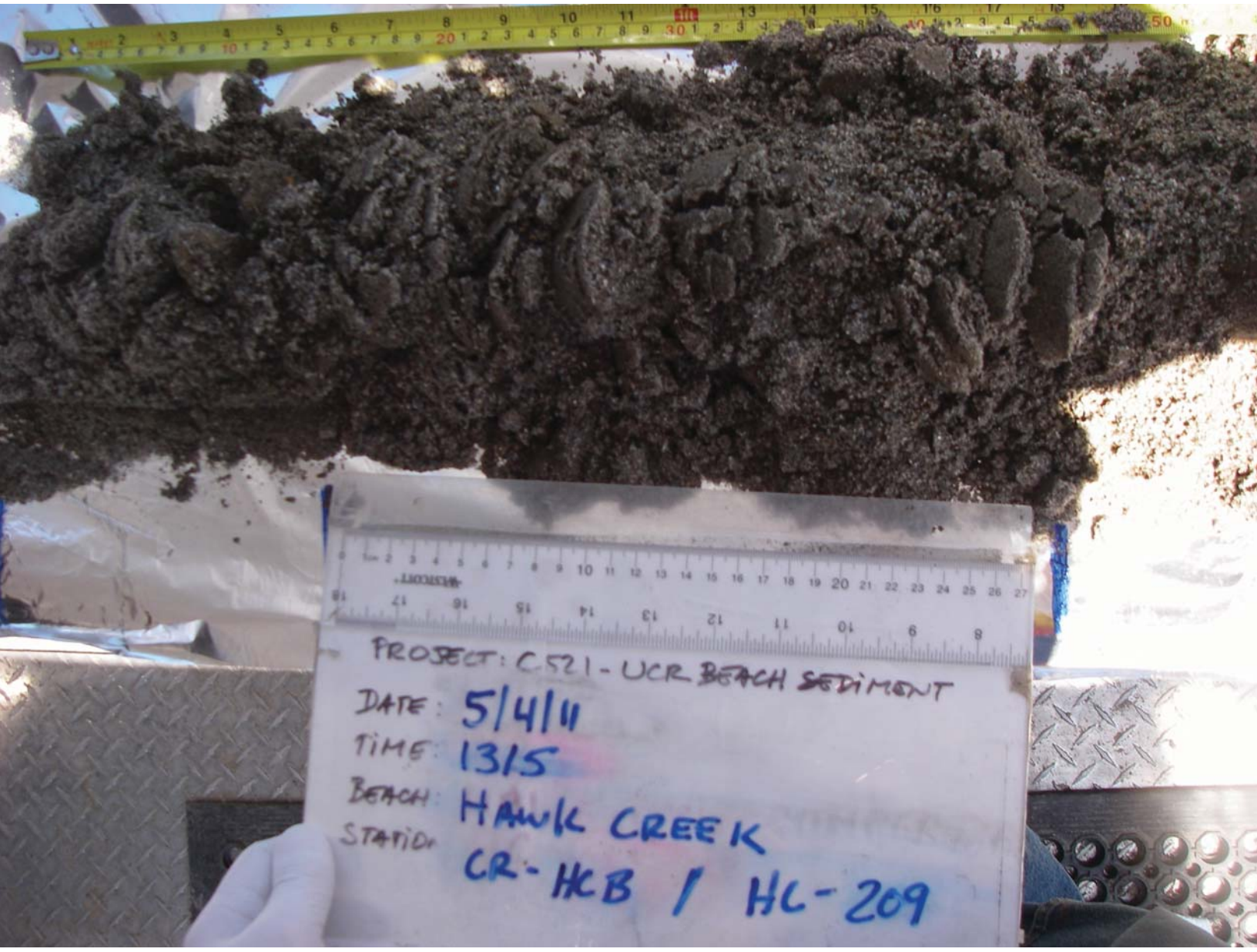
BEACH: HAWK CREEK

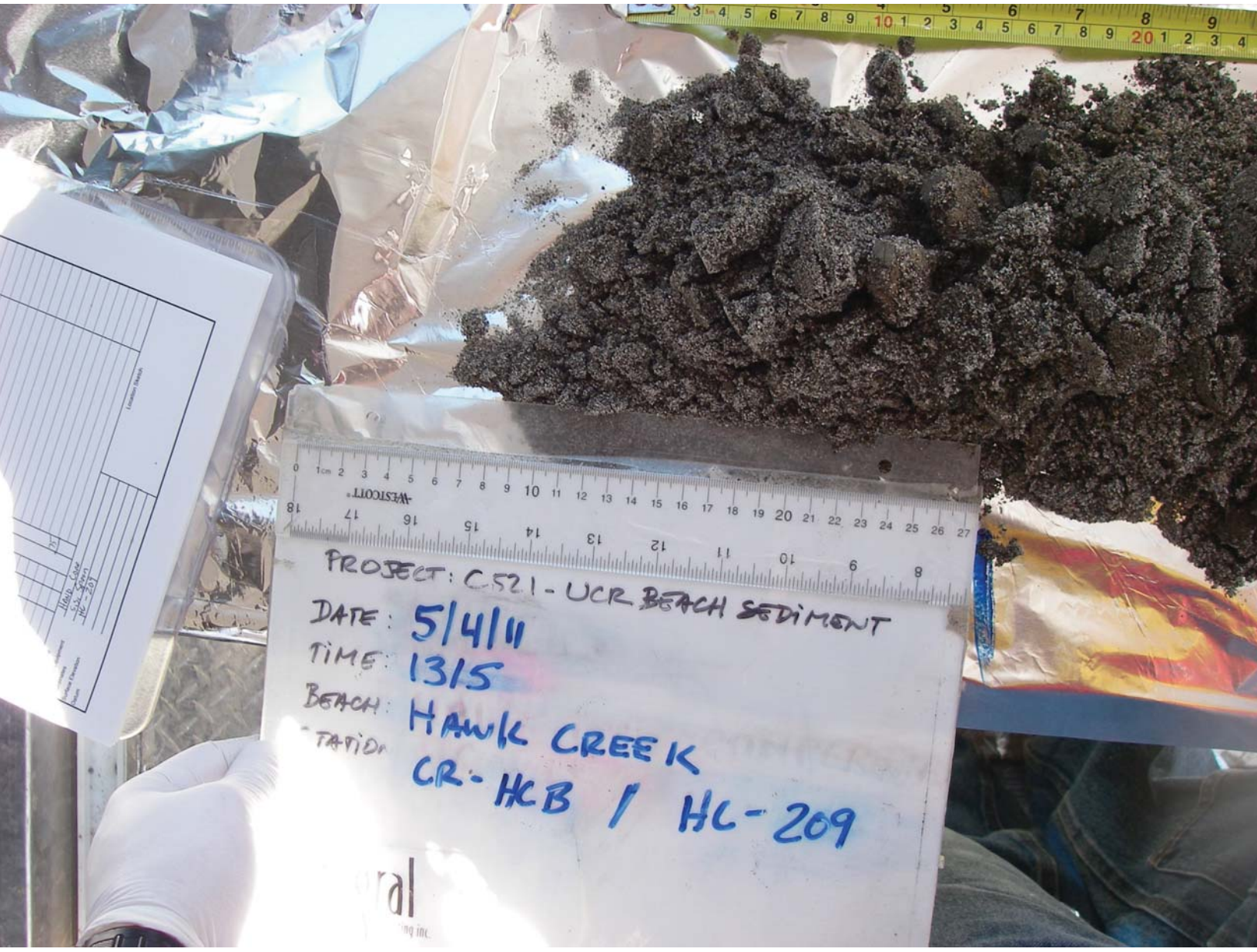
STATION: CR-HCC / HC-92

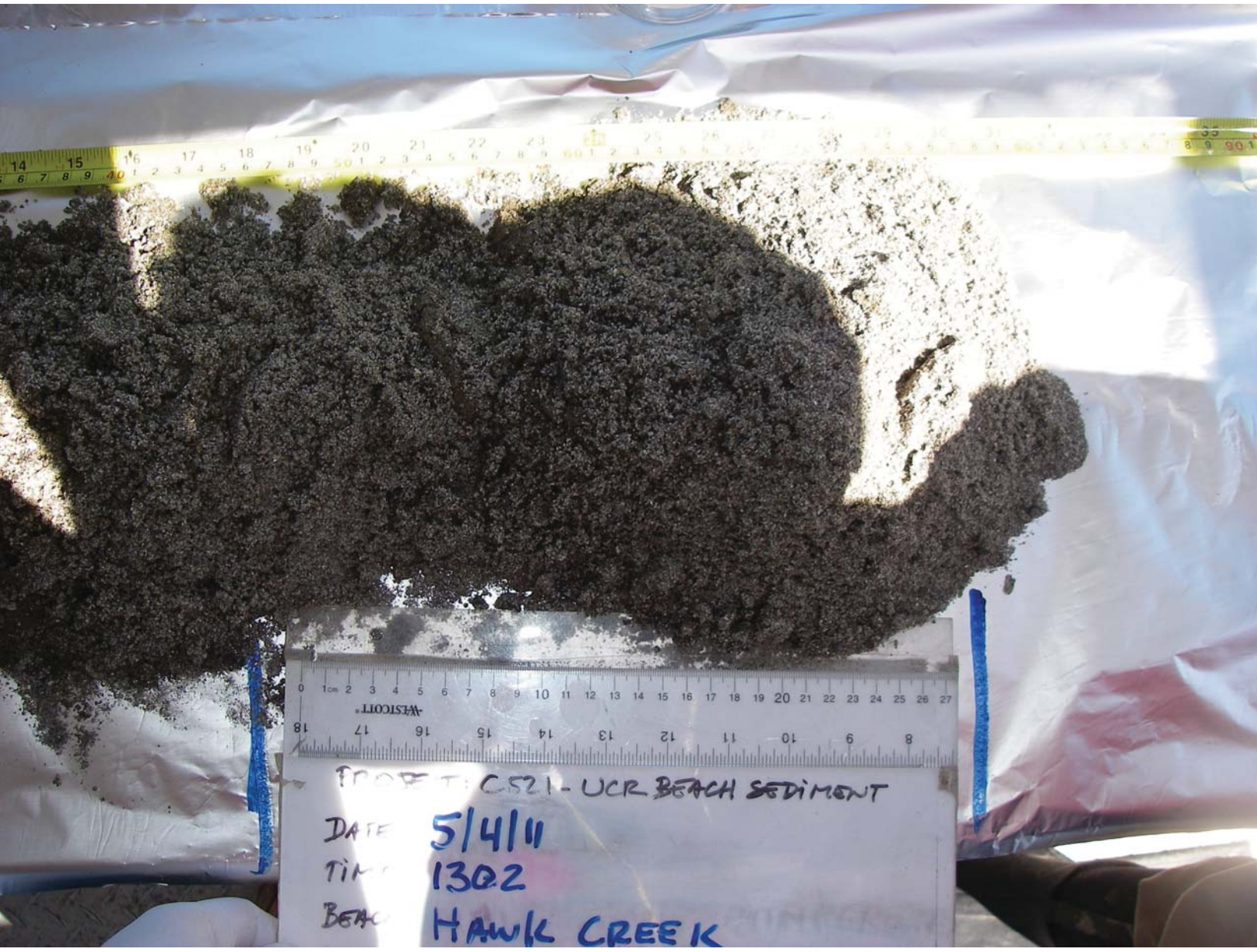
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1328
BEACH: HAWK CREEK
STATION: CR-HCC / HC-92

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1328
BEACH: HAWK CREEK
STATION: CR-HCC / HC-92

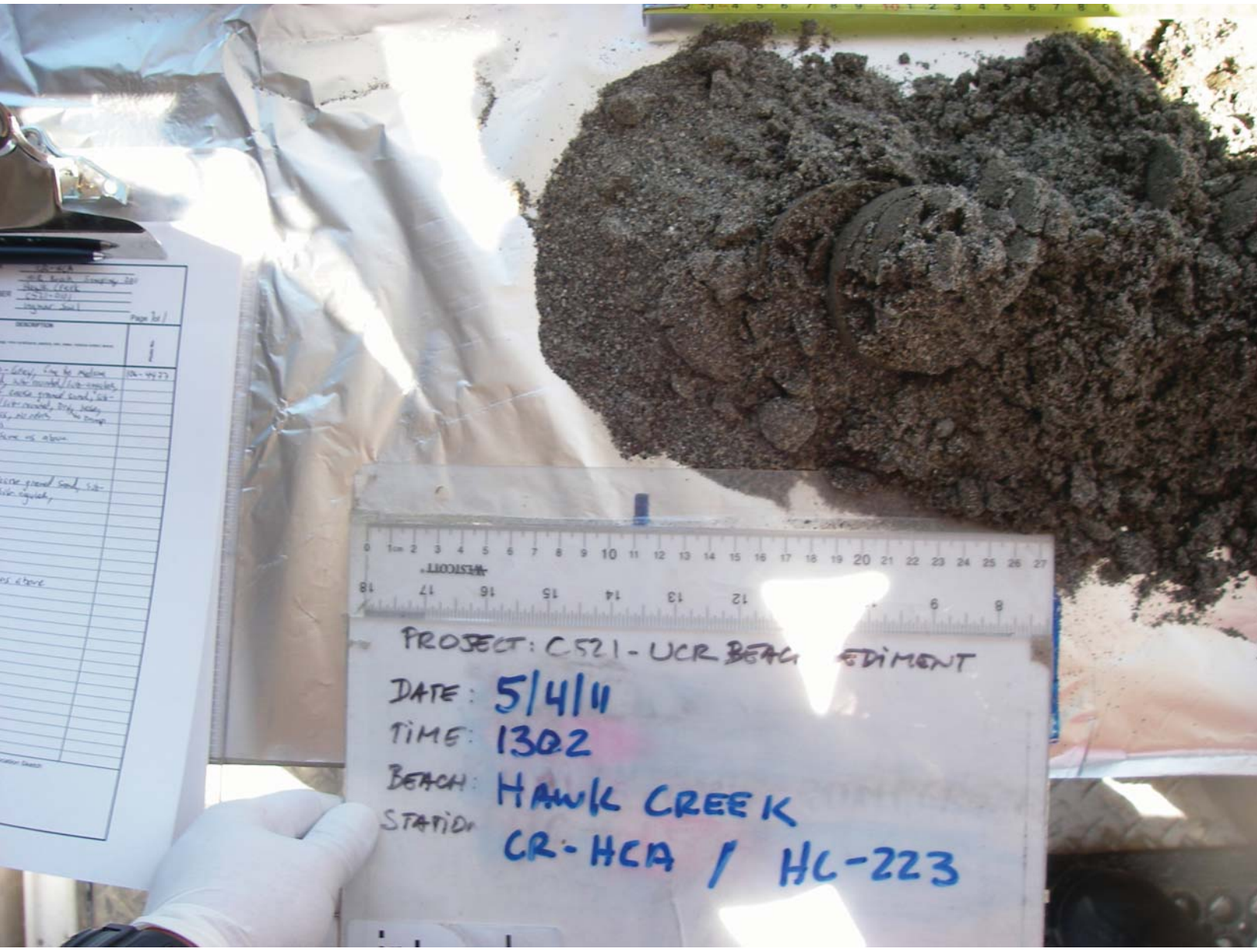

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1315
BEACH: HAWK CREEK
STATION: CR-HCB / HC-209

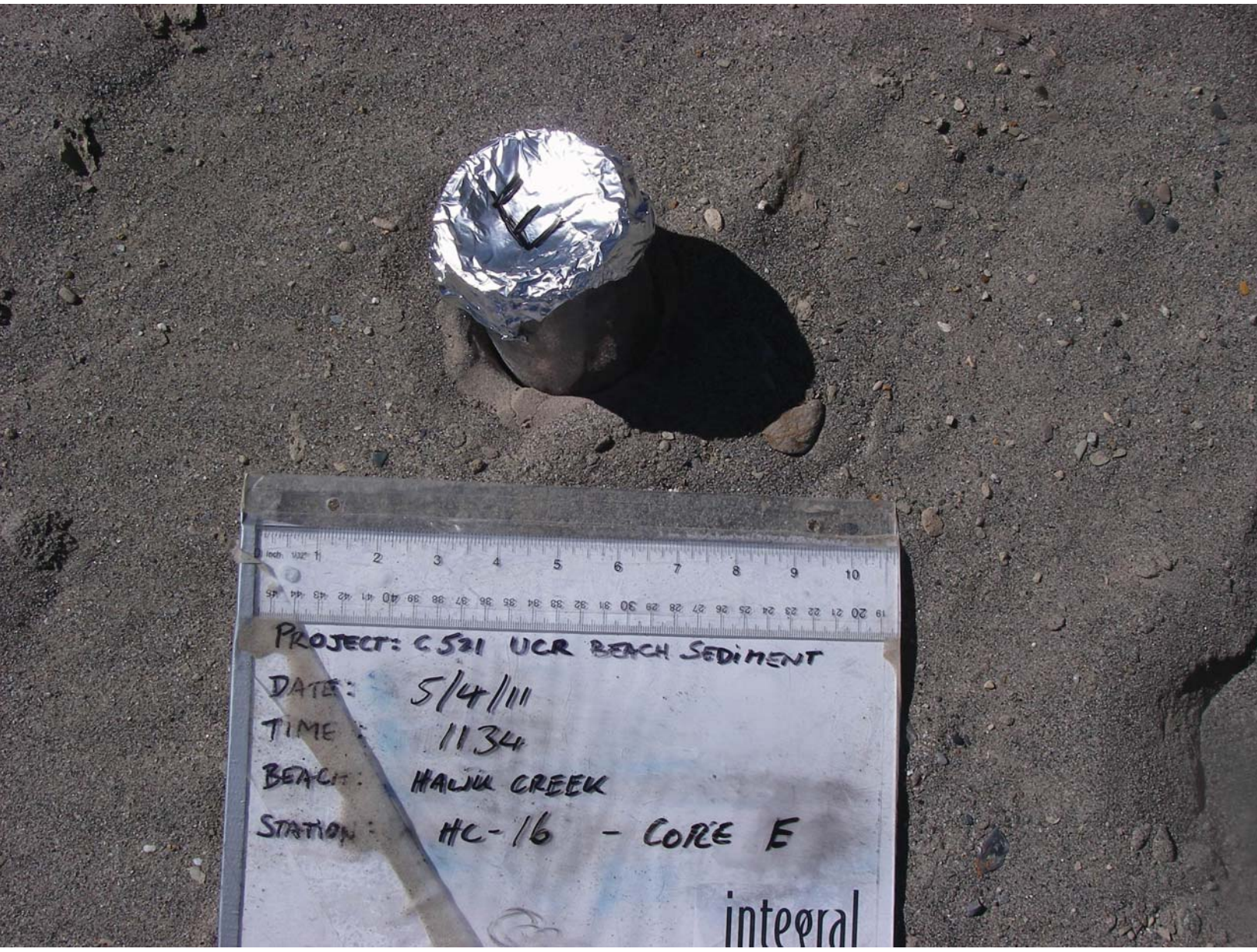

PROJECT: C-521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1315
BEACH: HAWK CREEK
STATION: CR-HCB / HC-209


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1315
BEACH: HAWK CREEK
CR-HCB / HC-209


C521 - UCR BEACH SEDIMENT
DATE 5/4/11
1302
HAWK CREEK

PROJECT: [illegible] - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1302
BEACH: HAWK CREEK
STATION: CR-HCA / HC-223


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1302
BEACH: HAWK CREEK
STATION: CR-HCA / HC-223


E
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1134
BEACH: HALIWA CREEK
STATION: HC-16 - CORE E
integral

D
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1126
BEACH: HALIU CREEK
STATION: HC-69 - CORE D
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1115
BEACH: HAUL CREEK
STATION: HC-92 - CORE C
integral

B
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1101
BEACH: HAULL CREEK
STATION: HC-209 - CORE B

A
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1054
BEACH: HALJU CREEK
STATION: HC-223 - CORE A

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/4/11
TIME: 1405
BEACH: HAWK CREEK
STATION: CR-HCE

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– HUNTERS

45
15
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core E HT-55
Time: 1610
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core E HT-55
Time: 1600
Interval: 0-15cm

175
145
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core D HT-410
Time: 1550
Interval: 45-75 cm

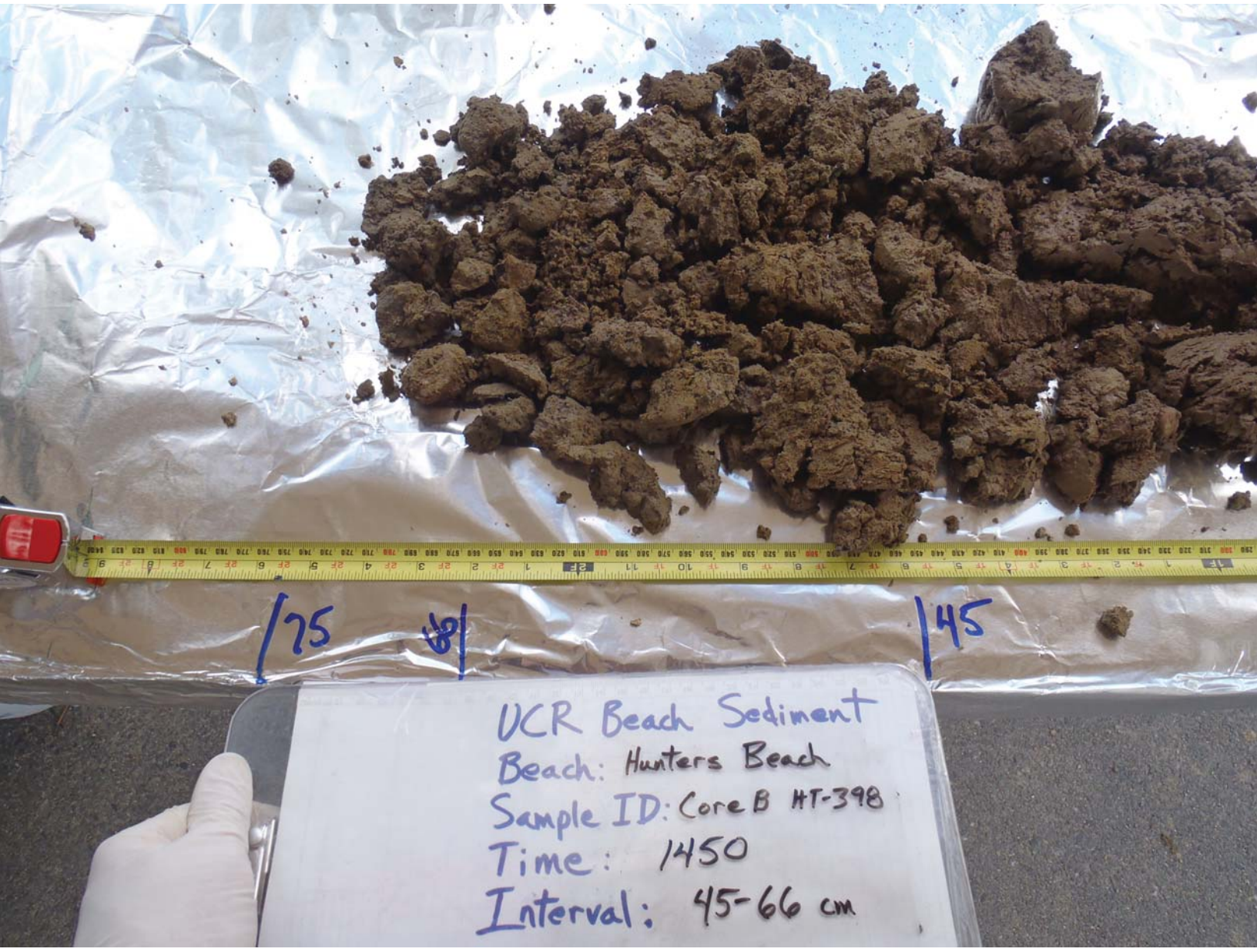
45
15
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core D HT-410
Time: 1540
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core D HT-410
Time: 1530
Interval: 0-15cm

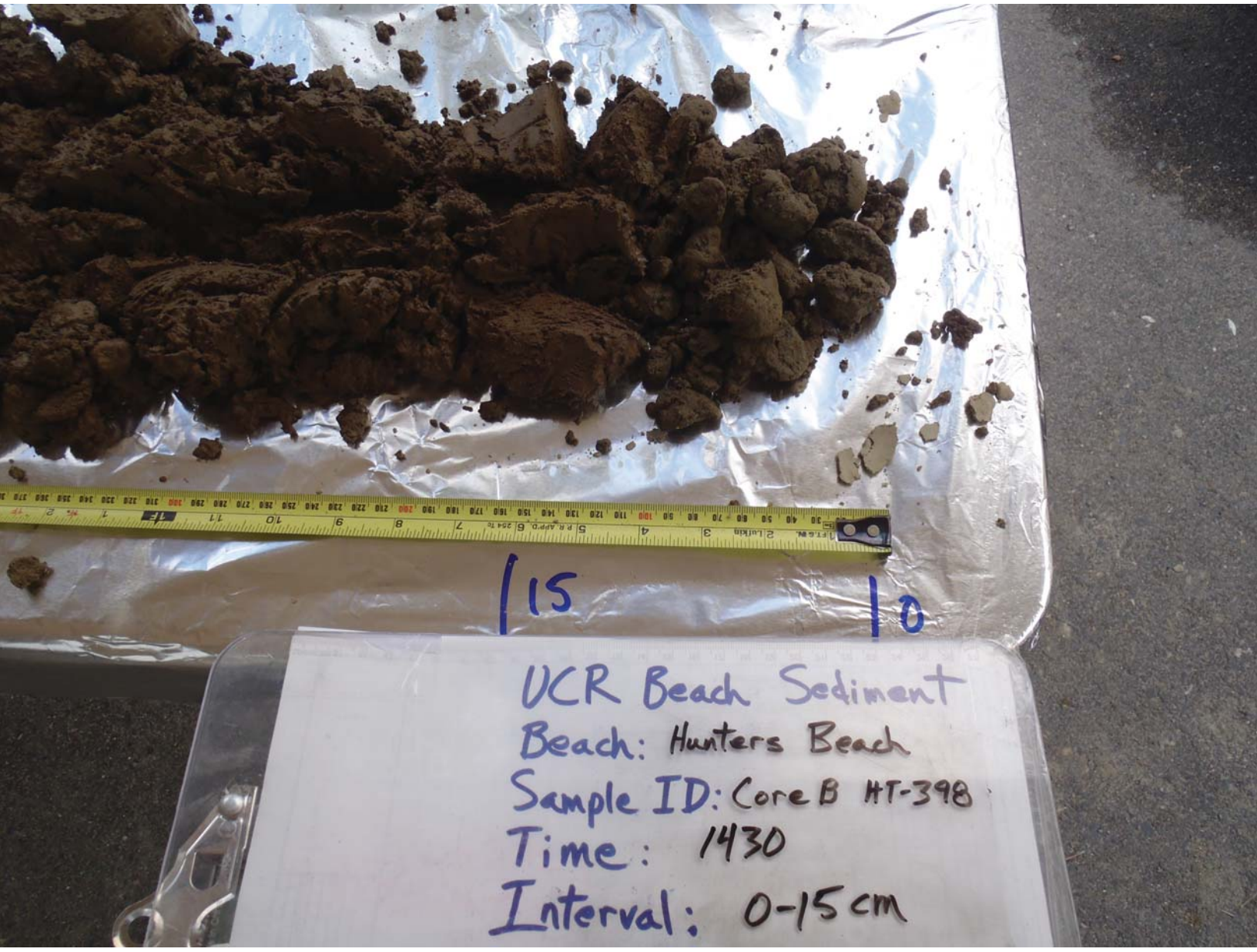
DUTY ALUMINUM FOIL
75
45
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core C HT-304
Time: 1520
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core C HT-304
Time: 1510
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core C HT-304
Time: 1500
Interval: 0-15 cm

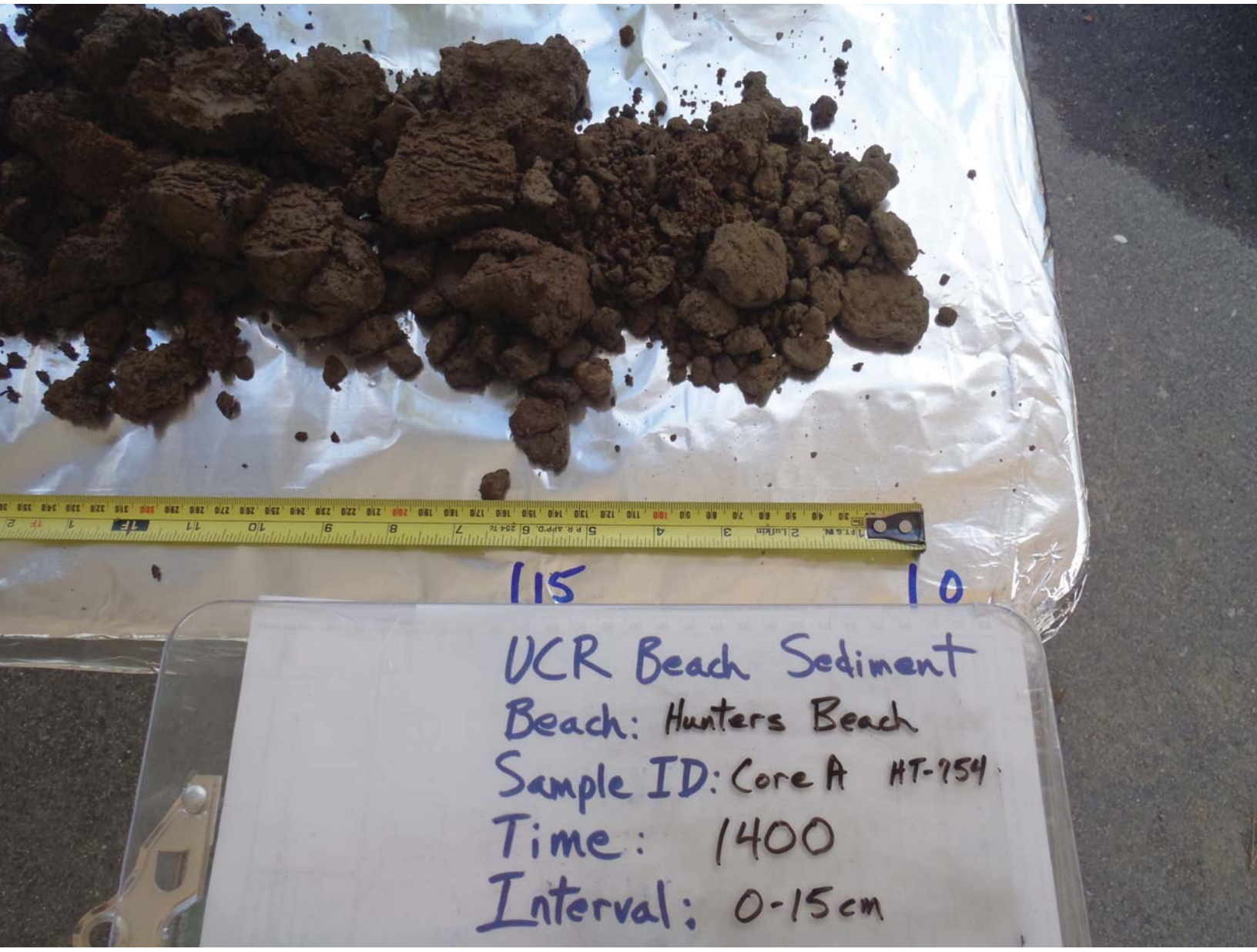

UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core B HT-398
Time: 1450
Interval: 45-66 cm

45
15
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core B HT-398
Time: 1440
Interval: 15-45 cm


15
10
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core B HT-398
Time: 1430
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core A HT-954
Time: 1420
Interval: 45-61 cm

45
15
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core A HT-754
Time: 1410
Interval: 15-45 cm


115
10
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core A HT-954
Time: 1400
Interval: 0-15cm

PROJECT: C.521 UCR BEACH SEDIMENT- 2011
DATE: 5-5-11
TIME: 1322
BEACH: Hunters Campground
STATION: HT- 55
Cores

PROJECT: C.521 UCR BEACHSEDIMENT-2011
DATE: 5-5-11
TIME: 1250
BEACH: Hunters Campground
STATION: HT-410
Cores

PROJECT: C.521 UCR BEACH SEDIMENT- 2011
DATE: 5-5-11
TIME: 1236
BEACH: Hunters Campground
STATION: HT-304
Cores

PROJECT: C.521 U.C.R. REACH SEDIMENT- 2011
DATE: 5-5-11
TIME: 1200
BEACH: Hunters Campground
STATION: HT-398
Cores

PROJECT: C.521 UCR BEACH SEDIMENT-2011
DATE: 5-5-11
TIME: 1056
BEACH: Hunters Campground
STATION: HT-754
Cores

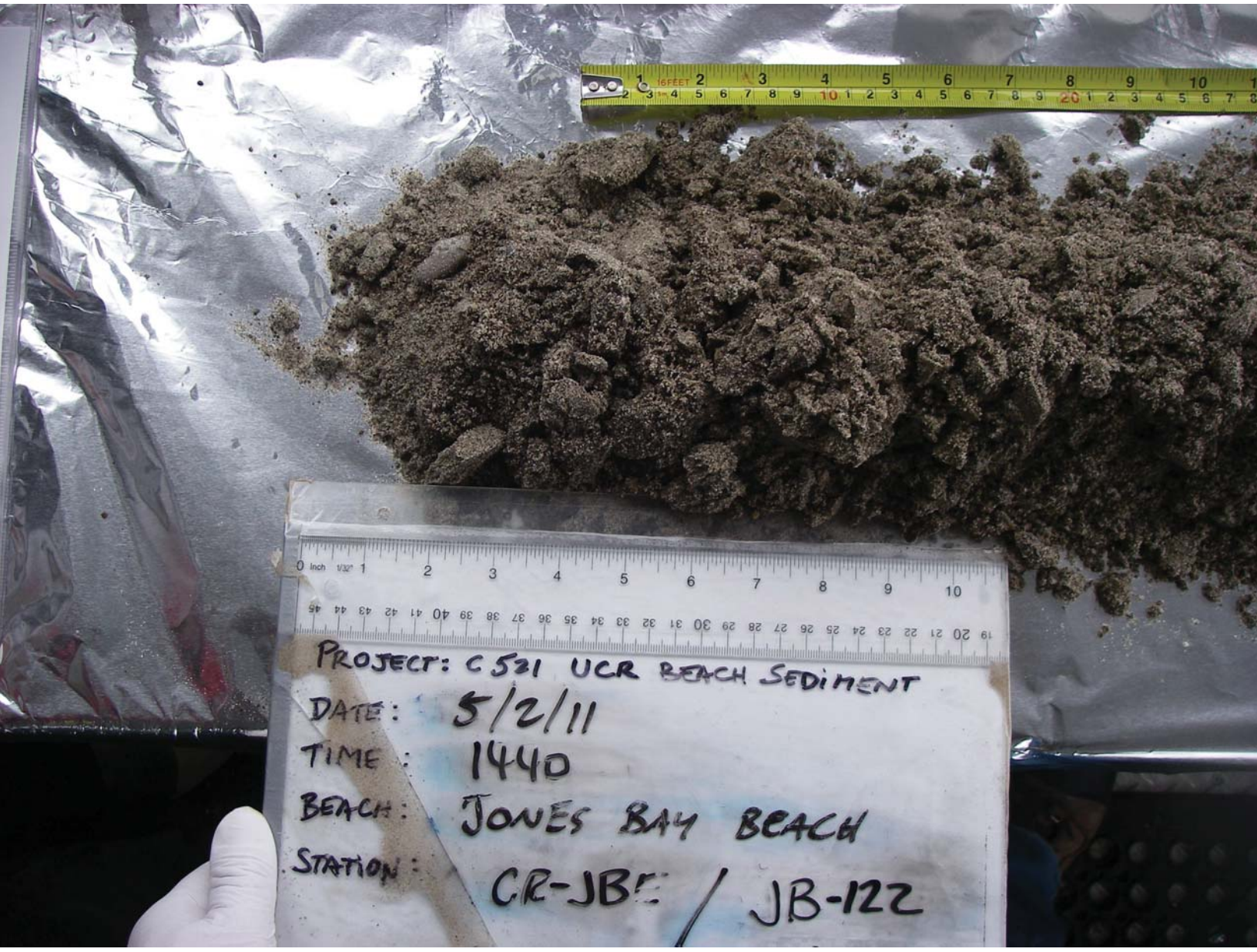
175
145
UCR Beach Sediment
Beach: Hunters Beach
Sample ID: Core E HT-55
Time: 1620
Interval: 45-75 cm

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

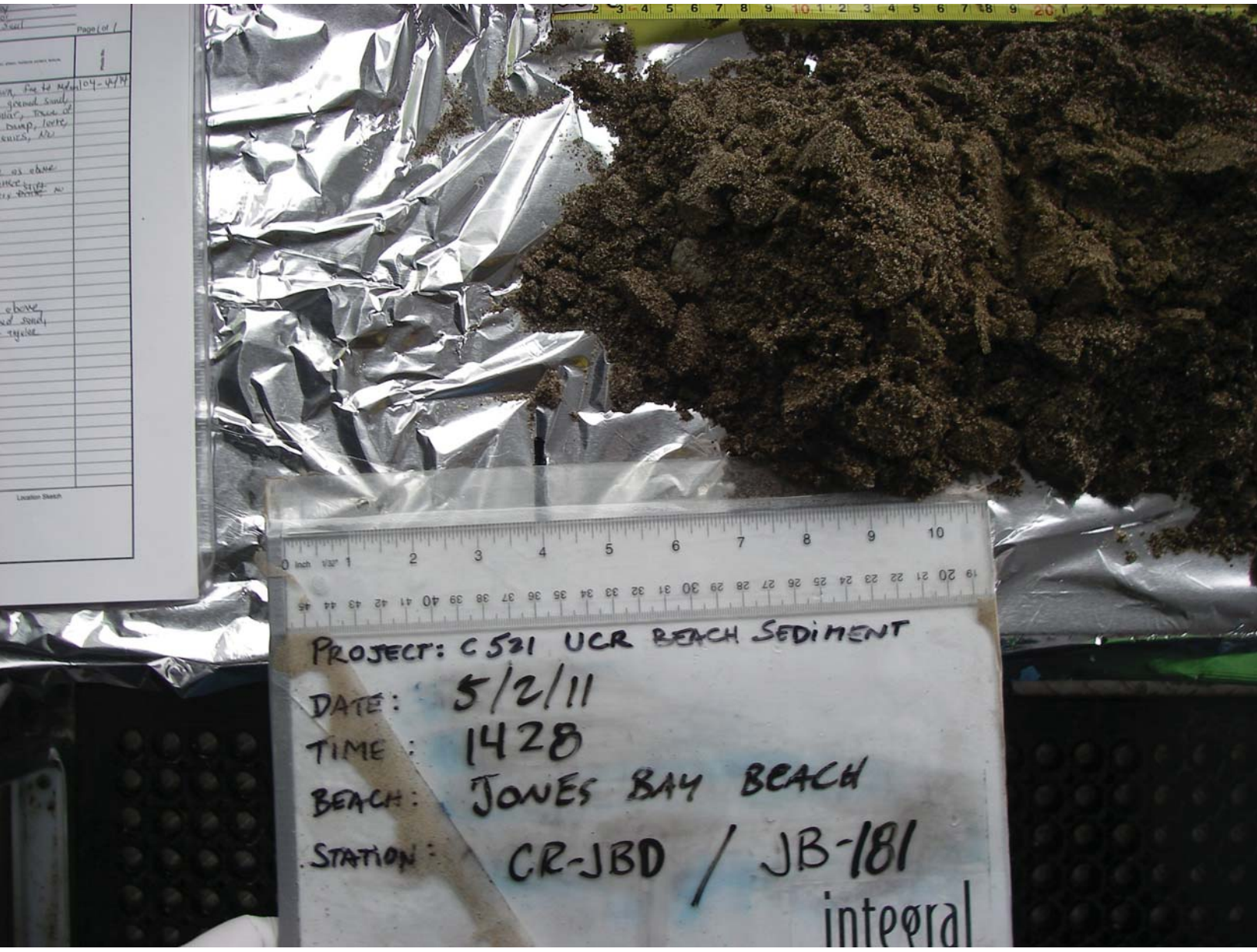
– JONES BAY

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1440
BEACH: JONES BAY BEACH
STATION: CR-JB / JB-122


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1440
BEACH: JONES BAY BEACH
STATION: CR-JB / JB-122

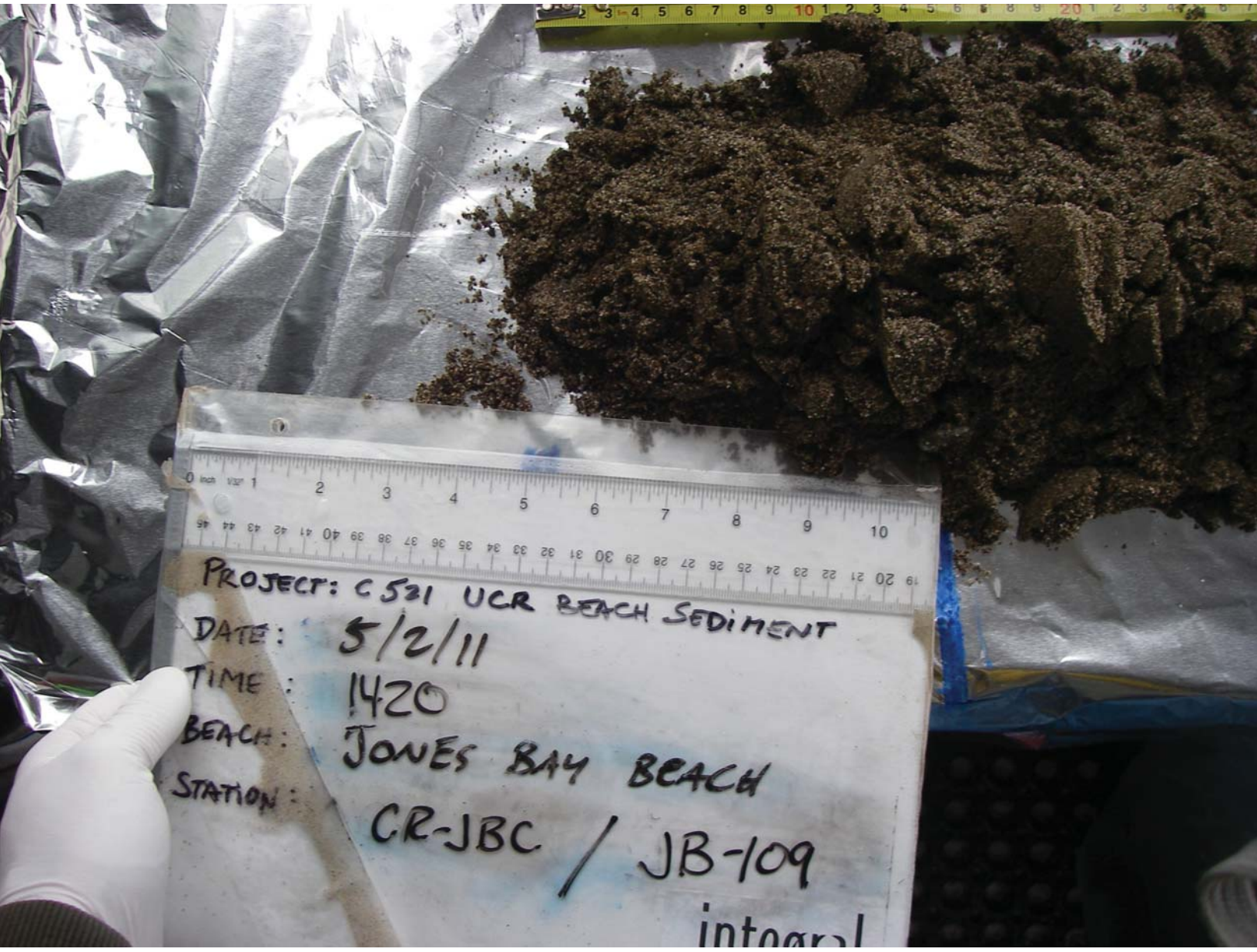
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1428
BEACH: JONES BAY BEACH
STATION: CR-JBD / JB-181
integral

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1428
BEACH: JONES BAY BEACH
STATION: CR-JBD / JB-181
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1428
BEACH: JONES BAY BEACH
STATION: CR-JBD / JB-181
integral

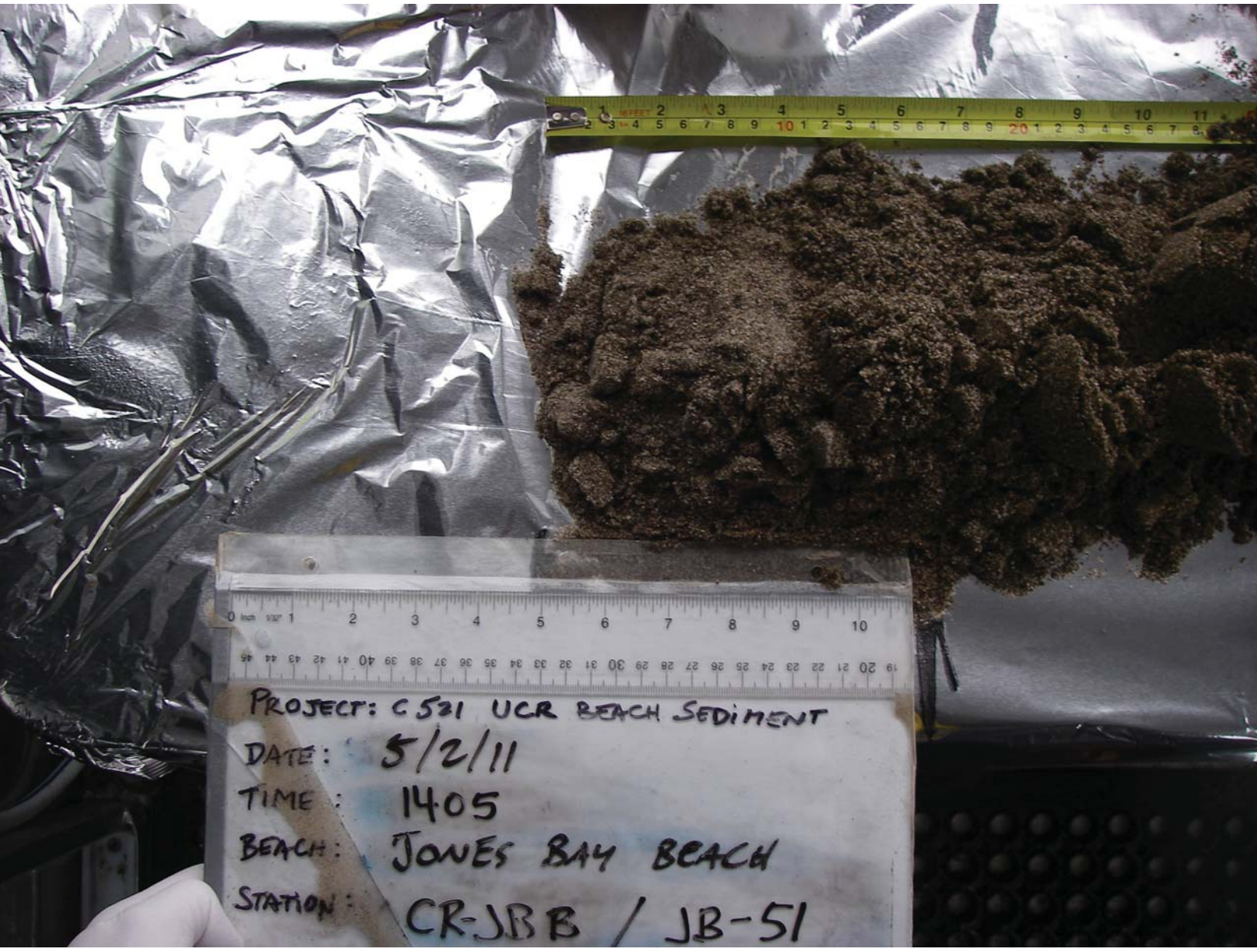
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1420
BEACH: JONES BAY BEACH
CR-JBC / JB-109
integral
consulting inc.

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1420
BEACH: JONES BAY BEACH
ATION: CR-JBC / JB-109


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1420
BEACH: JONES BAY BEACH
STATION: CR-JBC / JB-109
integral

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1405
BEACH: JONES BAY BEACH
STATION: CR-JBB / JB-51

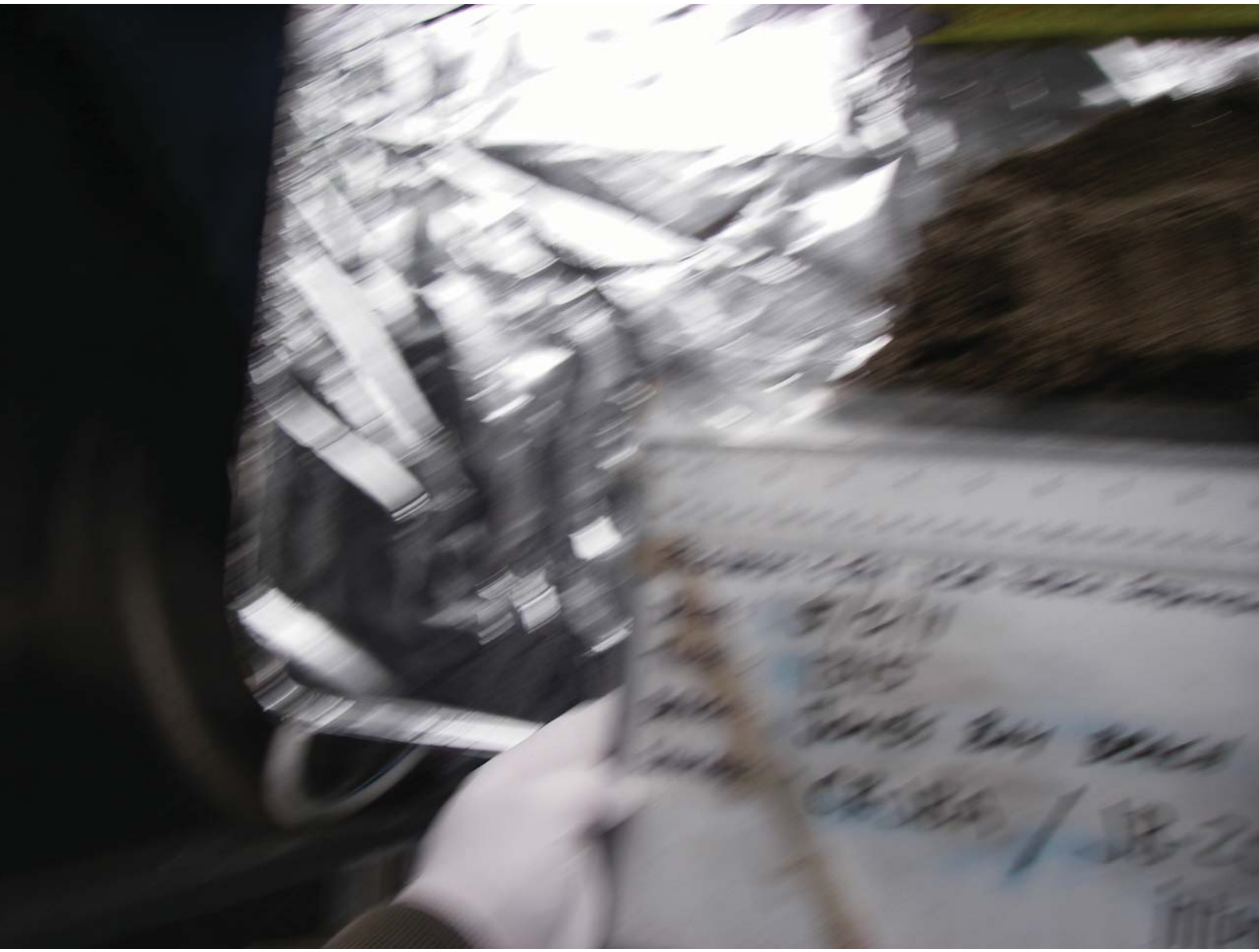
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1405
BEACH: JONES BAY BEACH
STATION: CR-JBB / JB-51


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1405
BEACH: JONES BAY BEACH
STATION: CR-JBB / JB-51

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1345
BEACH: JONES BAY BEACH
STATION: CR-JBA / JB-20
integral

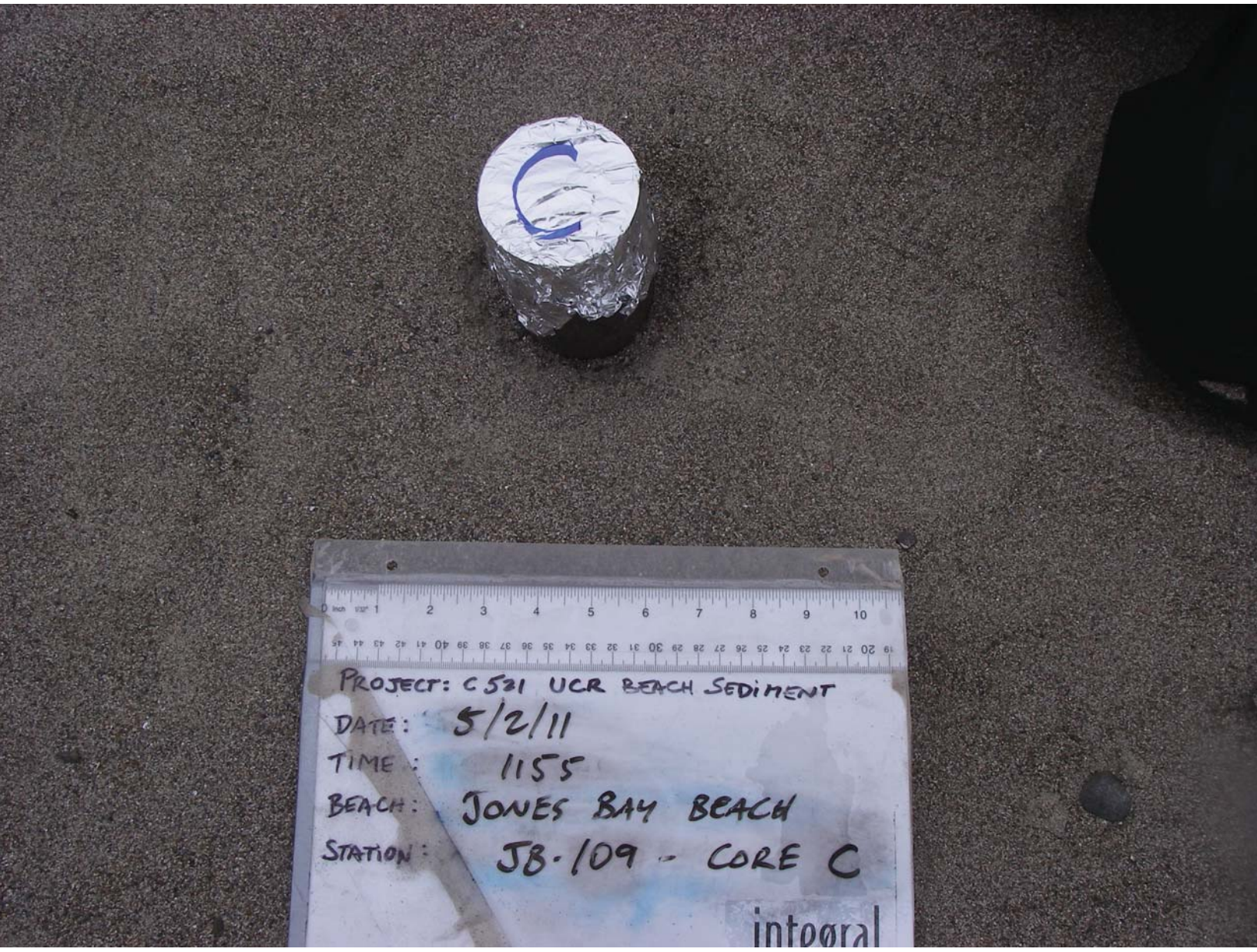
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1345
BEACH: JONES BAY BEACH
STATION: CR-JBA / JB-20

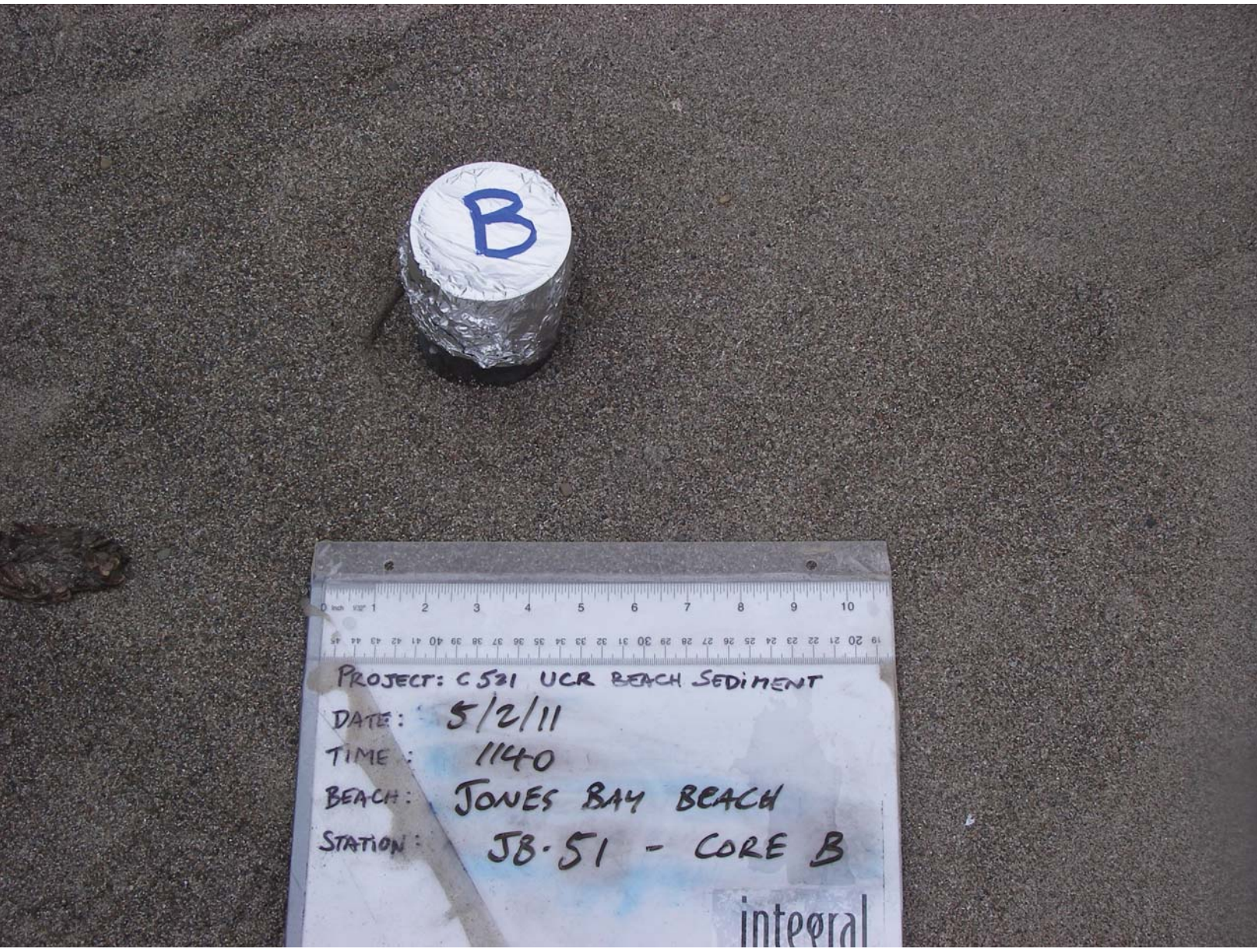
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1345
BEACH: JONES BAY BEACH
STATION: CR-JBA / JB-20
integral



PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1217
BEACH: JONES BAY BEACH
STATION: JB-122 - CORE E
integral
consulting inc

D
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1208
BEACH: JONES BAY BEACH
STATION: JB-181 - CORE D
integral


C
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1155
BEACH: JONES BAY BEACH
STATION: JB-109 - CORE C


B
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1140
BEACH: JONES BAY BEACH
STATION: JB-51 - CORE B
integral

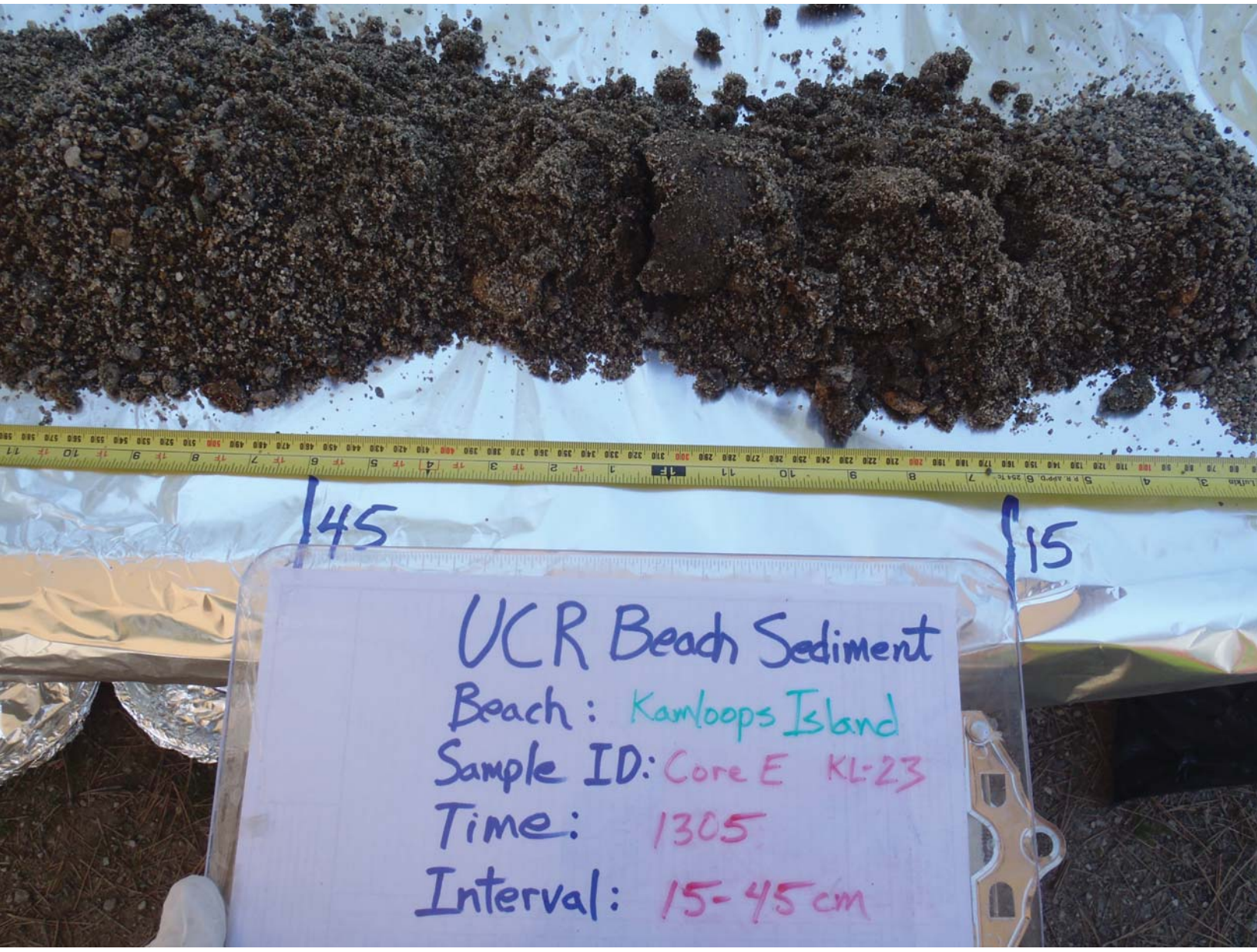
A
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1132
BEACH: JONES BAY BEACH
STATION: JB-20 - CORE A

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/2/11
TIME: 1440
BEACH: JONES BAY BEACH
STATION: CR-JB / JB-122

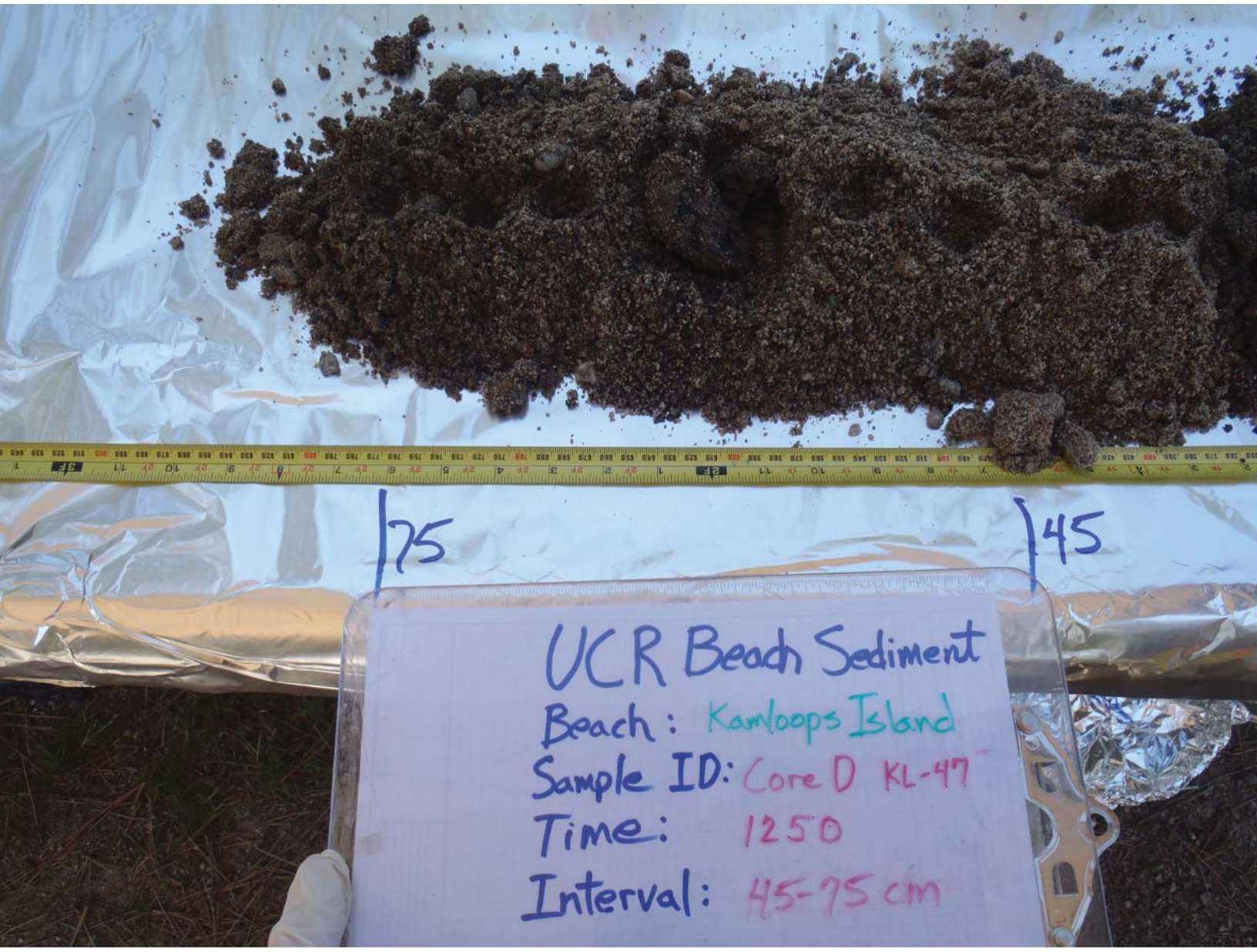
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– KAMLOOPS ISLAND


45
15
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core E KL-23
Time: 1305
Interval: 15-45 cm

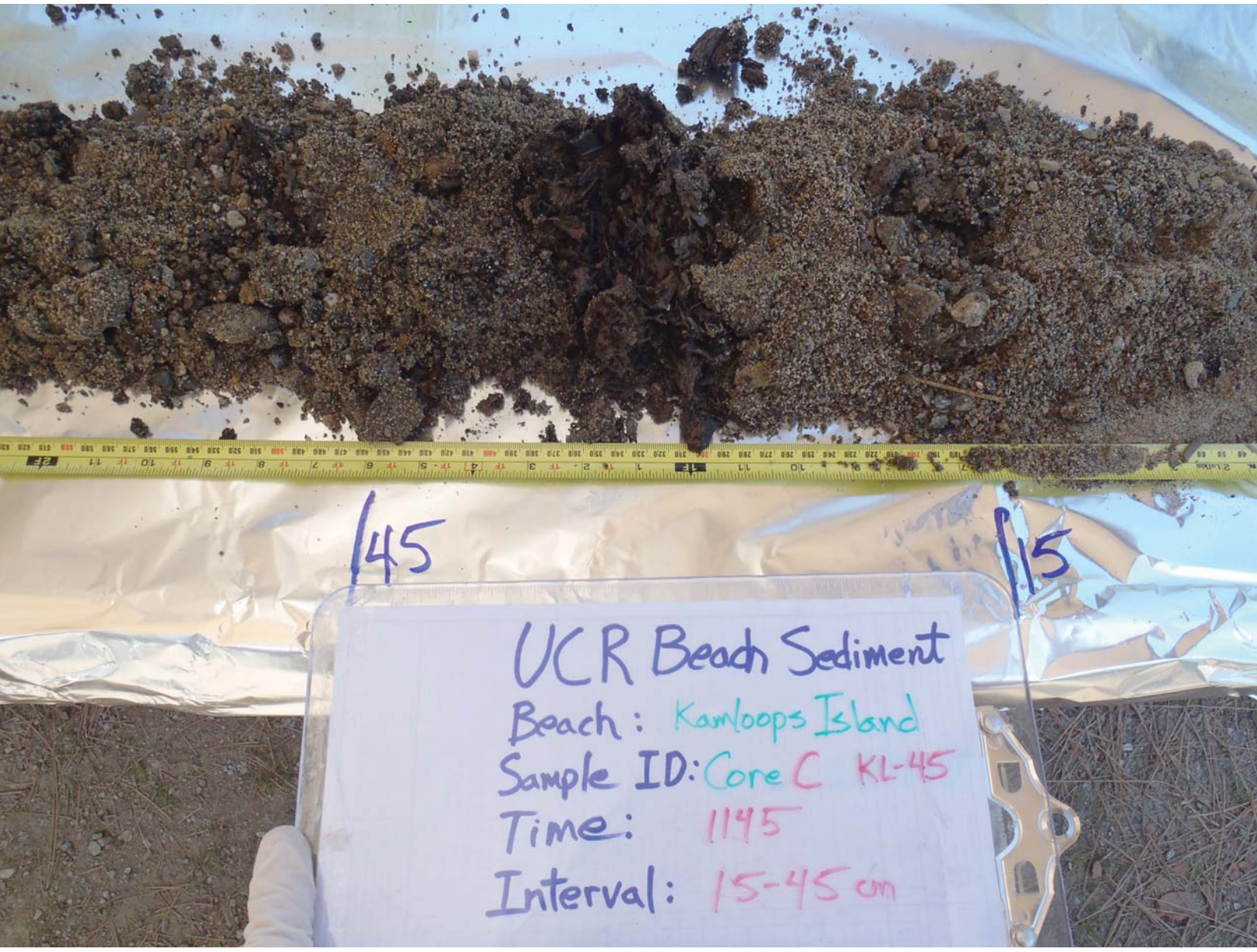
15
0
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core E KL-23
Time: 1300
Interval: 0-15 cm


75
45
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core D KL-47
Time: 1250
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core D KL-47
Time: 1245
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core D KL-47
Time: 1240
Interval: 0-15cm

75
45
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core C KL-45
Time: 1150
Interval: 45-75 cm

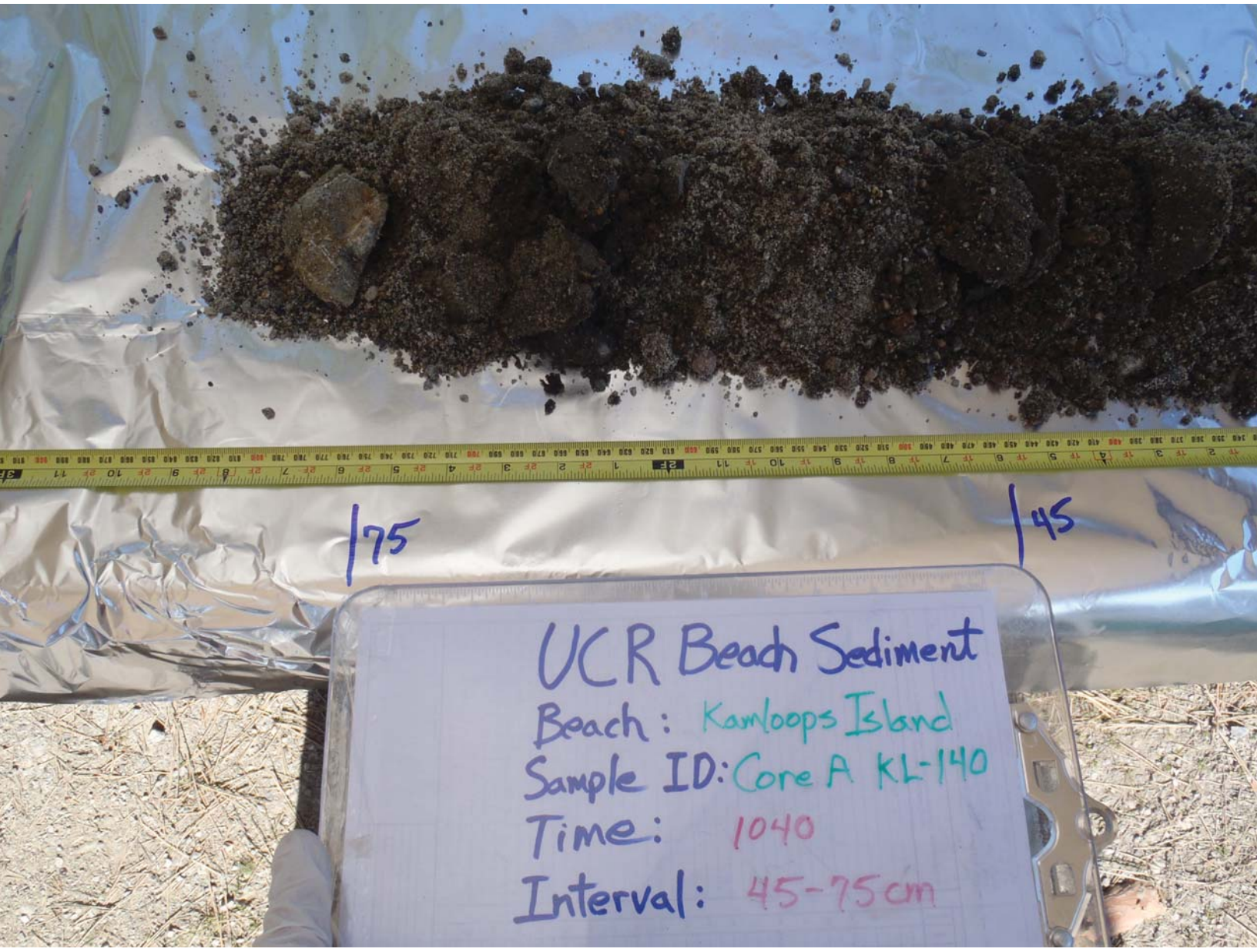

45
15
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core C KL-45
Time: 1145
Interval: 15-45 cm

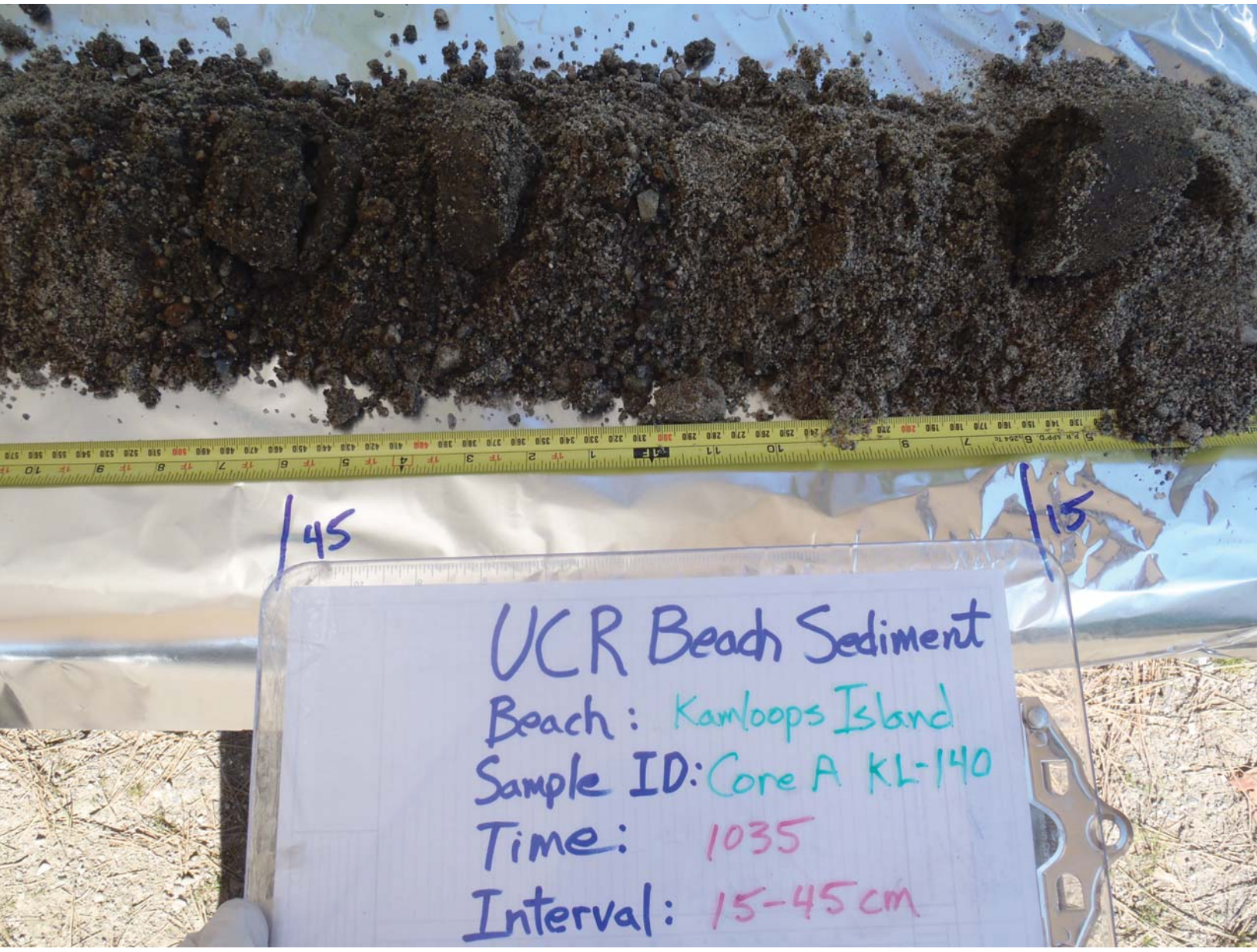
15
0
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core C KL-45
Time: 1140
Interval: 0-15cm

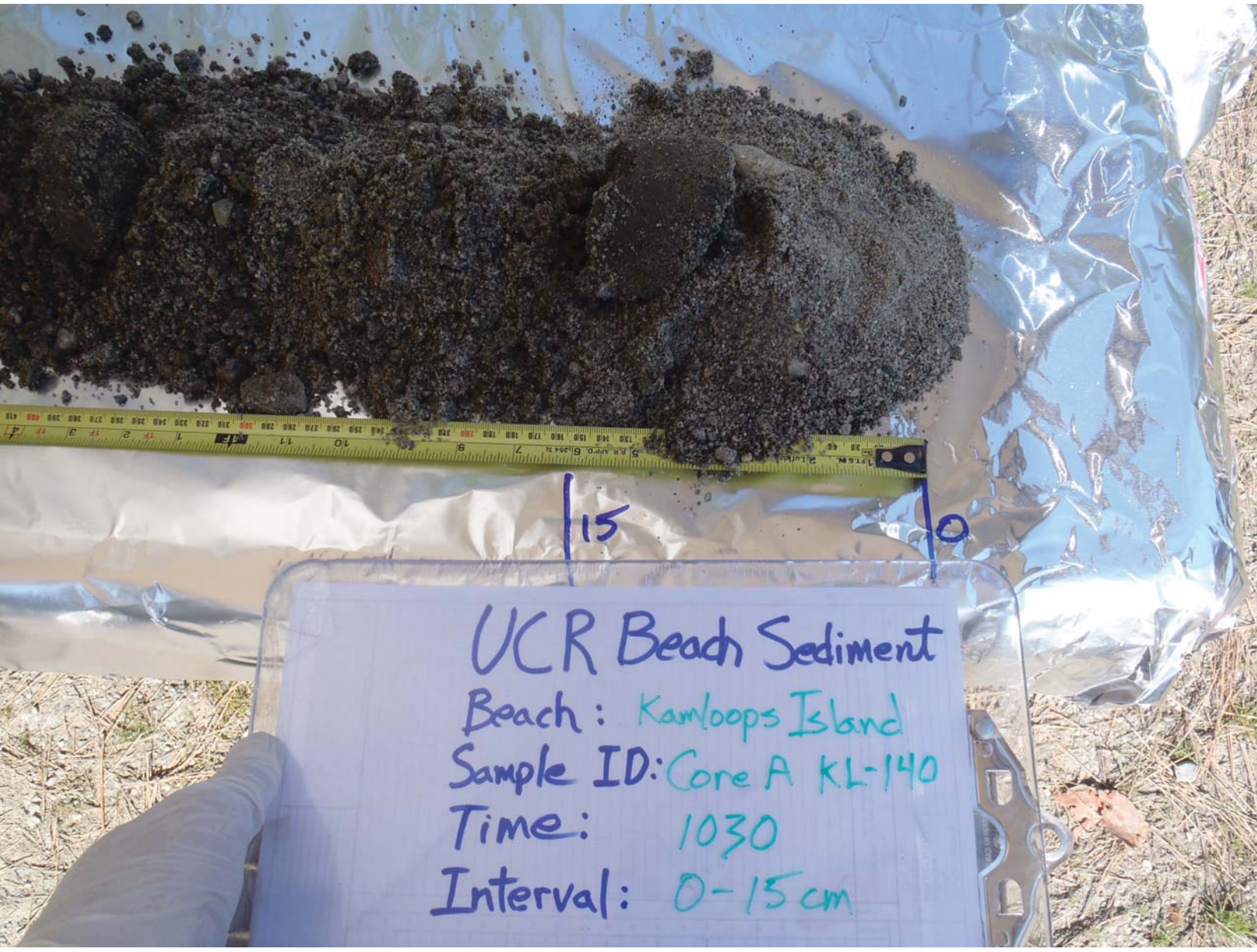
75
45
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core B KL-87
Time: 1130
Interval: 45-75 cm

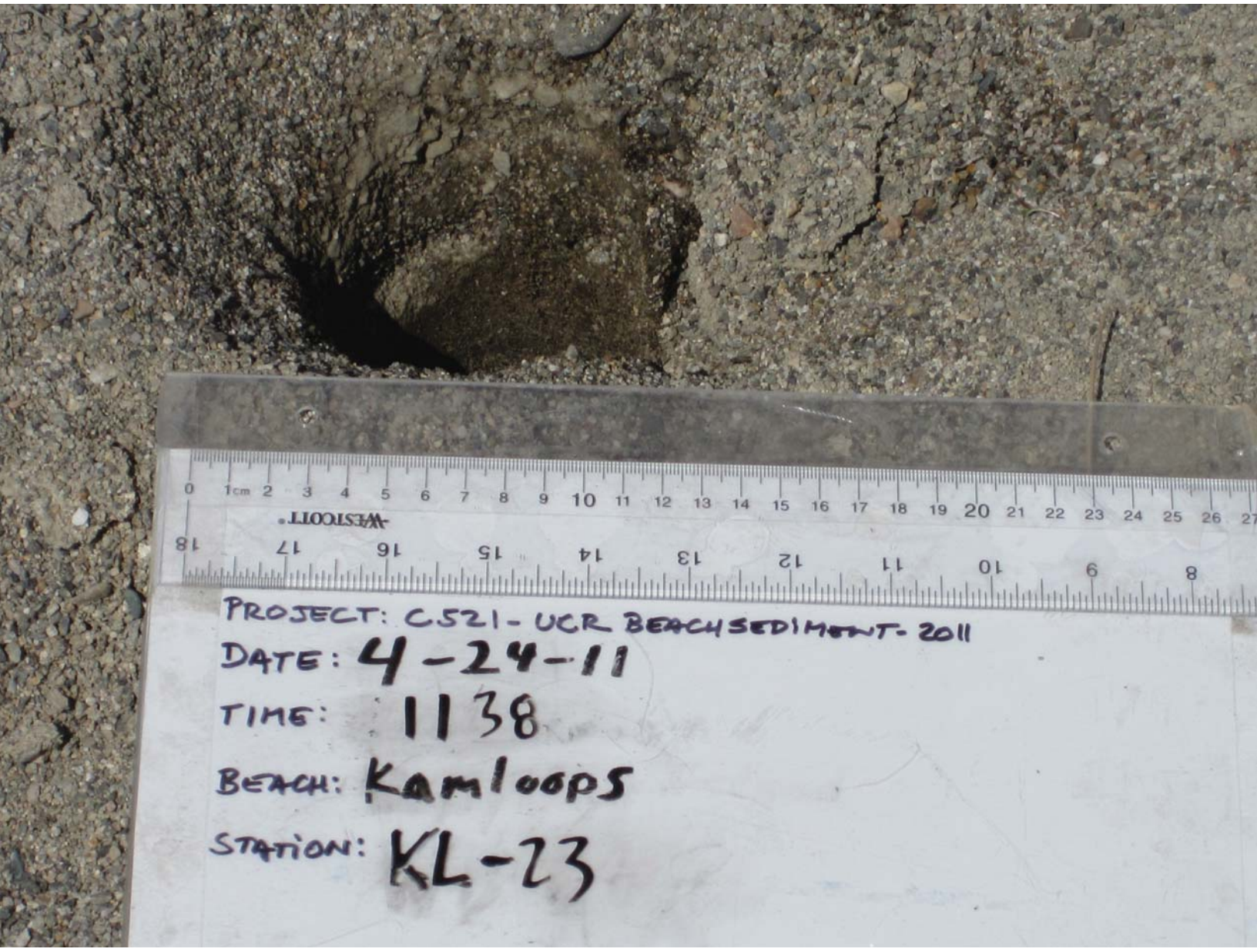
45
15
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core B KL-87
Time: 1125
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core B KL-87
Time: 1120
Interval: 0-15 cm


75
45
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core A KL-140
Time: 1040
Interval: 45-75cm

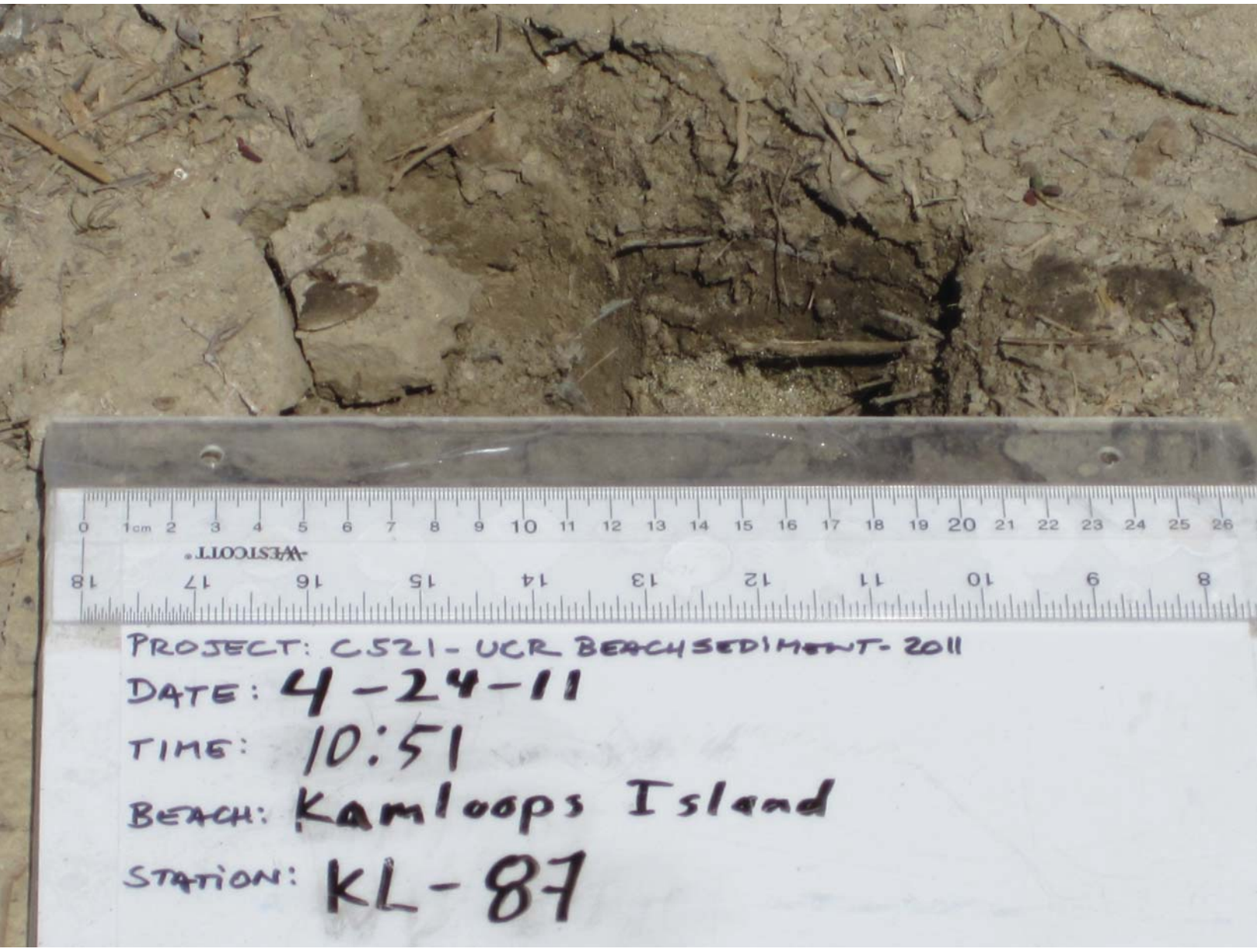

45
15
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core A KL-140
Time: 1035
Interval: 15-45 cm


15
0
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core A KL-140
Time: 1030
Interval: 0-15 cm

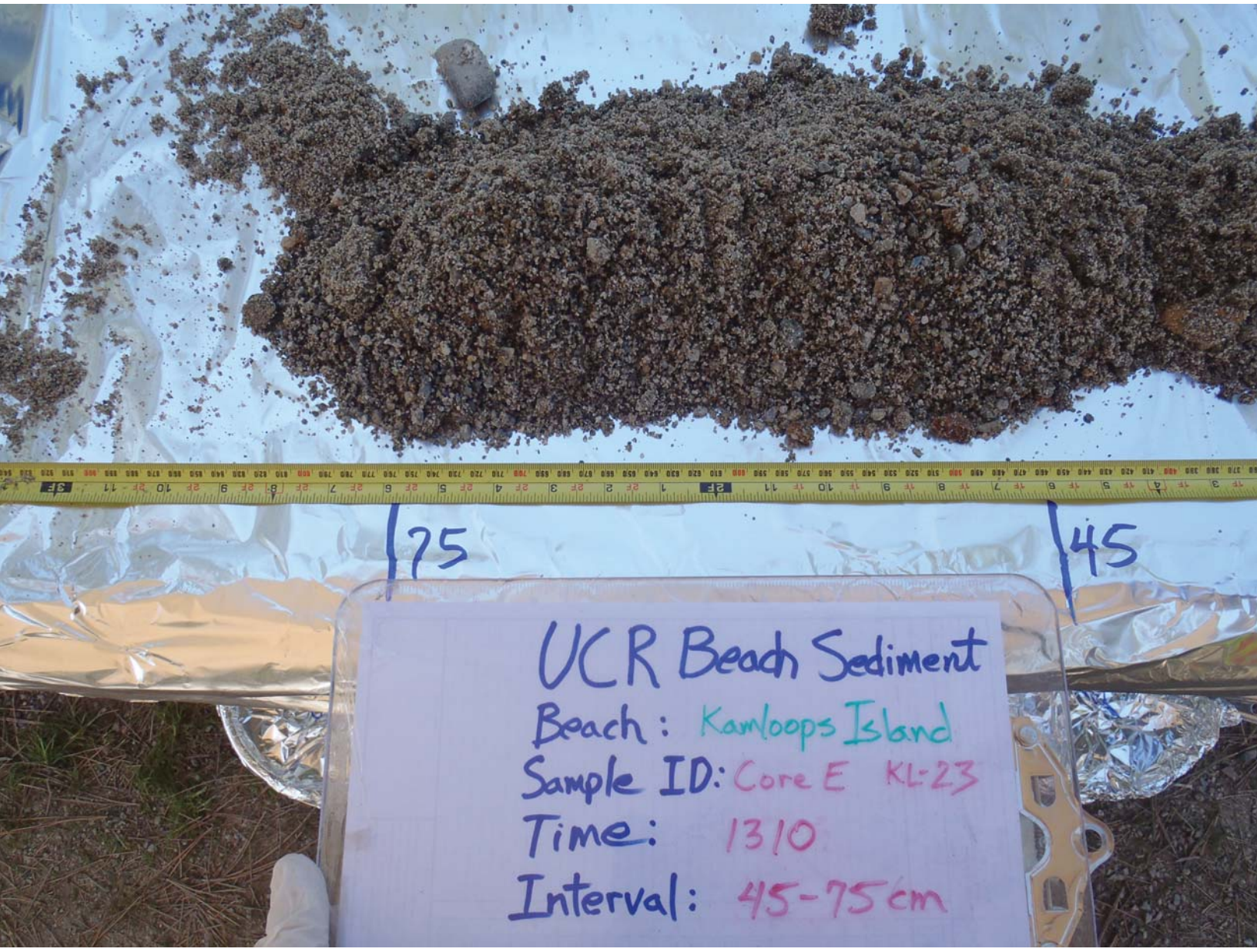

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-24-11
TIME: 1138
BEACH: Kamloops
STATION: KL-23

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-24-11
TIME: 1124
BEACH: Kamloops
STATION: KL-47

PROJECT: C521-UCR BEACH SEDIMENT-2011
DATE: 4-24-11
TIME: 1108
BEACH: Kamloops Island
STATION: KL-45


PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-24-11
TIME: 10:51
BEACH: Kamloops Island
STATION: KL-87

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-24-11
TIME: 0954
BEACH: Kamloops Island
STATION: KL-140


75
45
UCR Beach Sediment
Beach: Kamloops Island
Sample ID: Core E KL-23
Time: 1310
Interval: 45-75cm

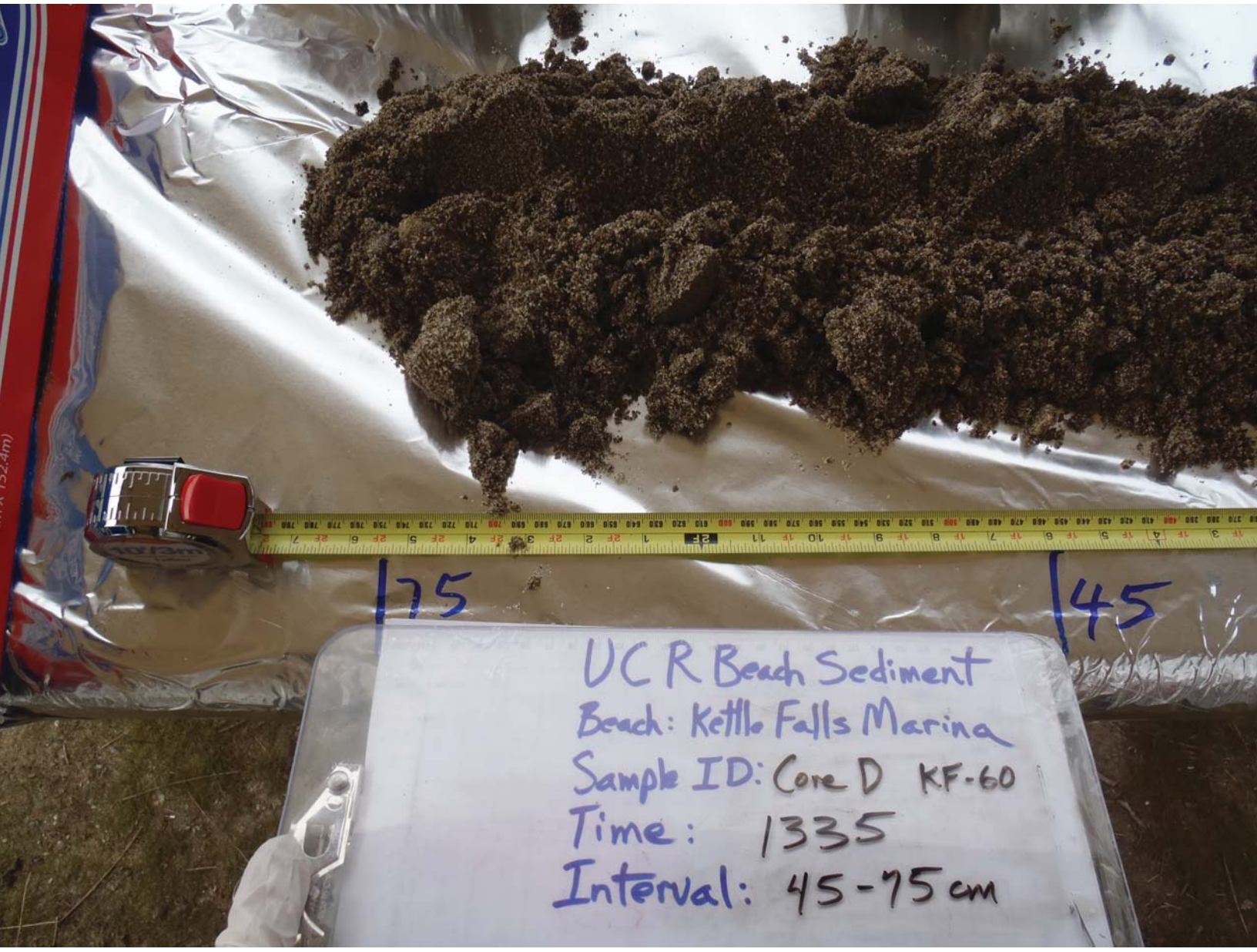
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– KETTLE FALLS MARINA

45
15
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core E KF-28
Time: 1355
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core E KF-28
Time: 1345
Interval: 0-15cm


75
45
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core D KF-60
Time: 1335
Interval: 45-75 cm

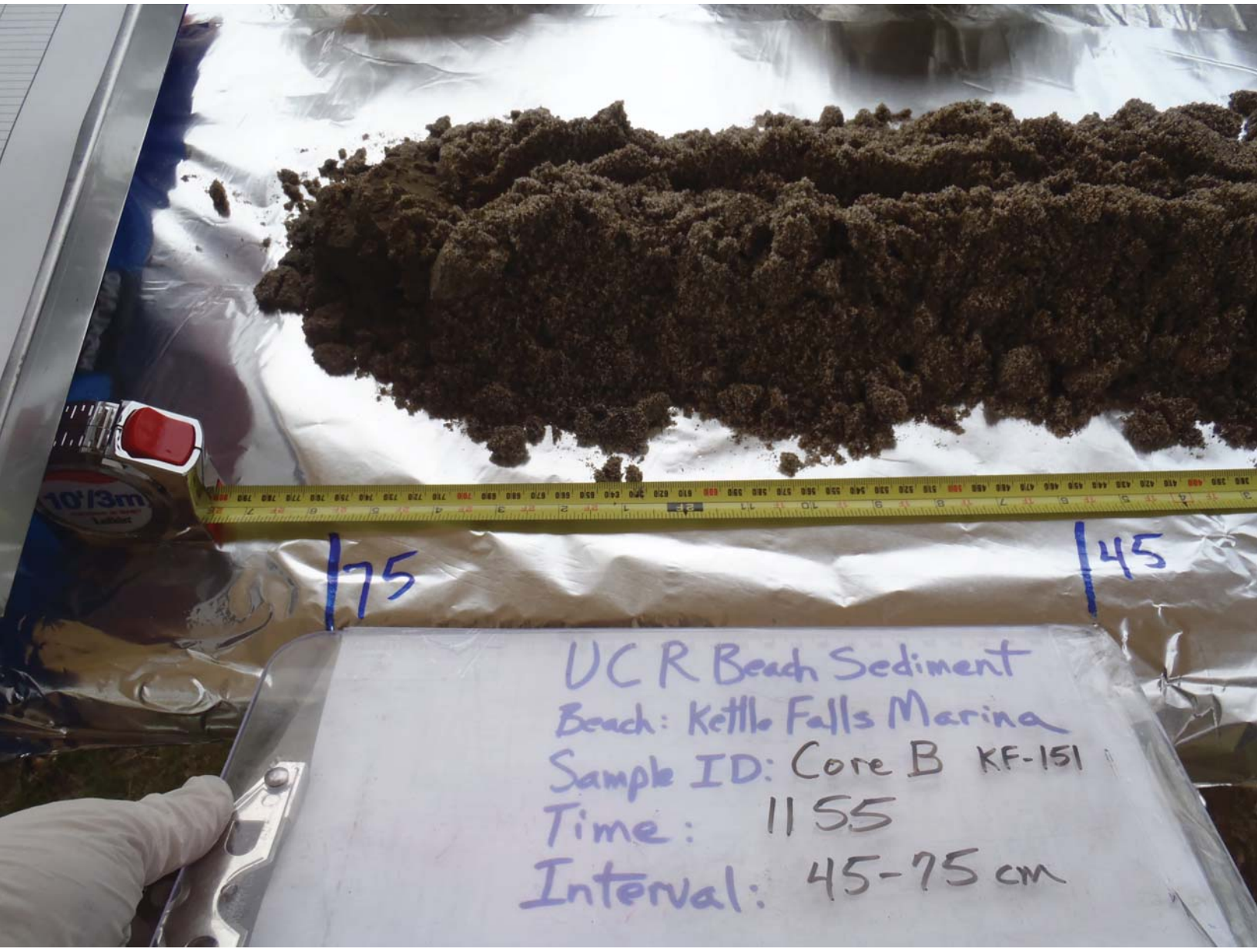
45
15
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core D KF-60
Time: 1325
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core D KF-60
Time: 1315
Interval: 0-15 cm

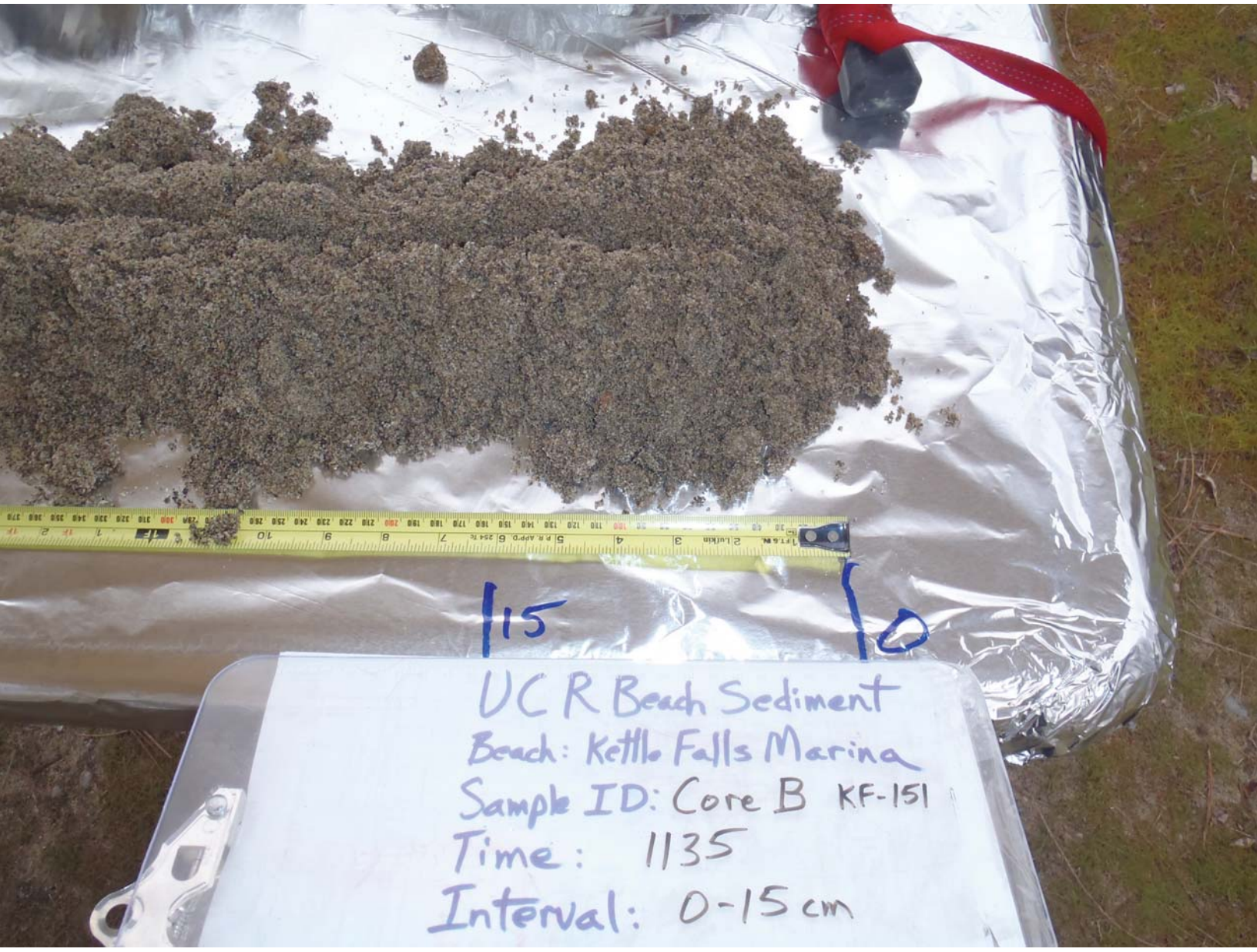
75
45
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core C KF-97
Time: 1245
Interval: 45-75 cm

45
15
UC R Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core C KF-97
Time: 1235
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core C KF-97
Time: 1225
Interval: 0-15cm


75
45
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core B KF-151
Time: 1155
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core B KF-151
Time: 1145
Interval: 15-45 cm


15
10
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core B KF-151
Time: 1135
Interval: 0-15 cm

75
45
UC R Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core A KF-241
Time: 1125
Interval: 45-75 cm

45
15
UC R Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core A KF-241
Time: 1115
Interval: 15-45cm

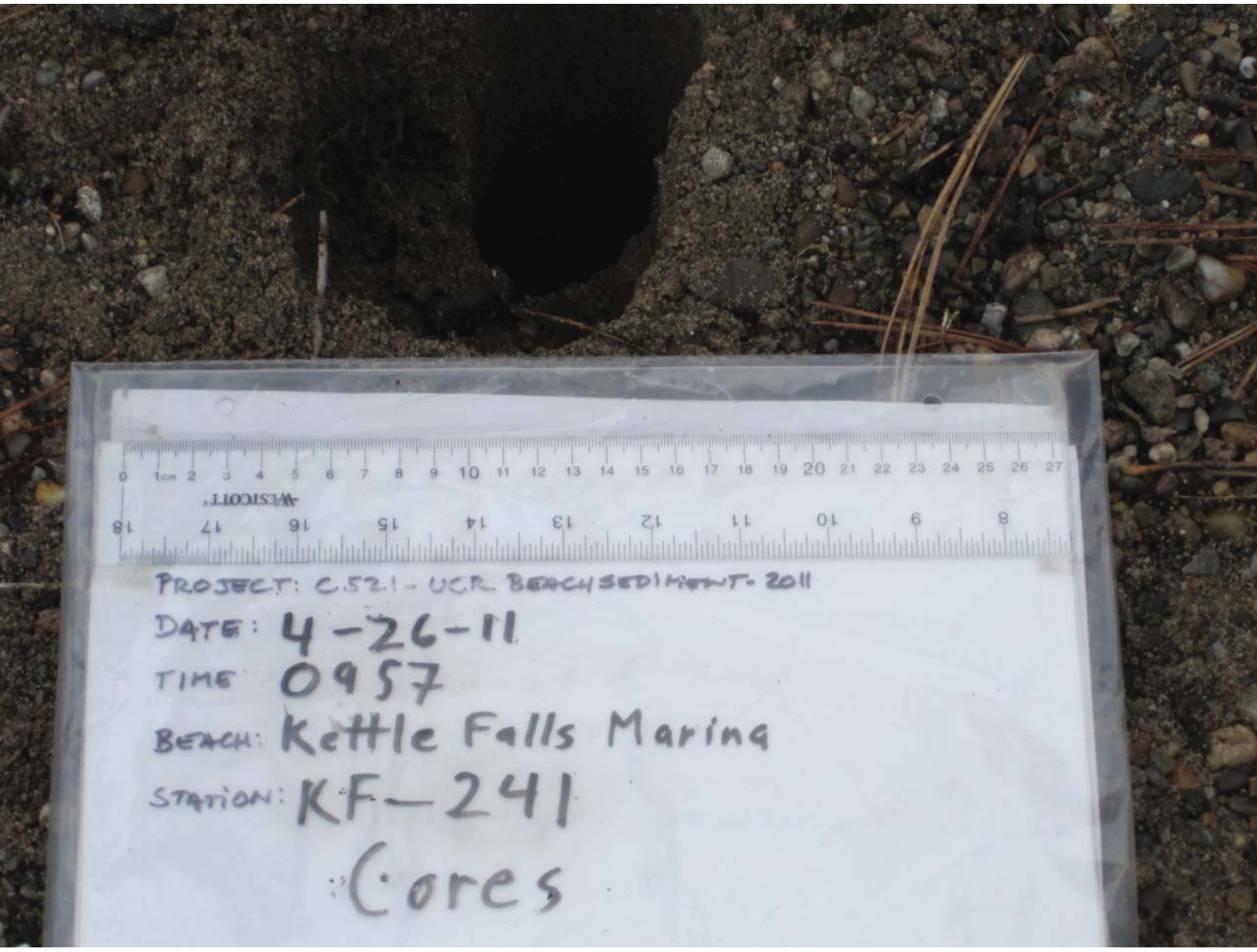
15
10
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core A KF-241
Time: 1105
Interval: 0-15 cm

PROJECT: C.521 - UCR BEACH SEDIMENT - 2011
DATE: 4-26-11
TIME: 1220
BEACH: Kettle Falls Marina
STATION: KF-28
Cores

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-26-11
TIME: 1202
BEACH: Kettle Falls Marina
STATION: KF-60
Cores

PROJECT: C.521 - UCR BEACH SEDIMENT - 2011
DATE: 4-26-11
TIME: 1141
BEACH: Kettle Falls Maring
STATION: KF-97
Cores

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4-26-11
TIME: 1016
BEACH: Kettle Falls Marina
STATION: KF-157
Cores


PROJECT: C.521 - UCR BEACH SEDIMENT - 2011
DATE: 4-26-11
TIME 0957
BEACH: Kettle Falls Marina
STATION: KF-241
Cores

RK624
175
145
UCR Beach Sediment
Beach: Kettle Falls Marina
Sample ID: Core E KF-28
Time: 1405
Interval: 45-75 cm

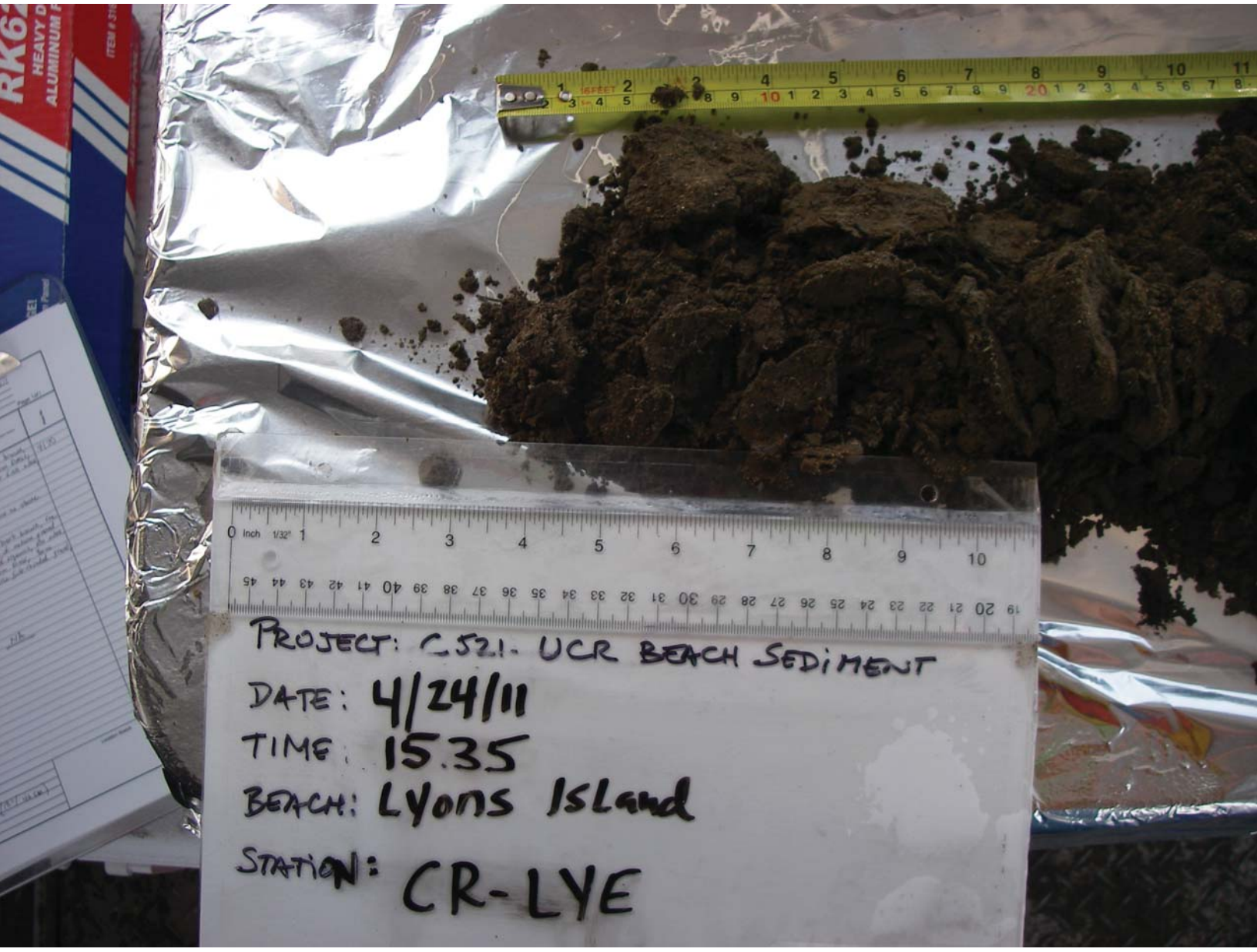
APPENDIX F

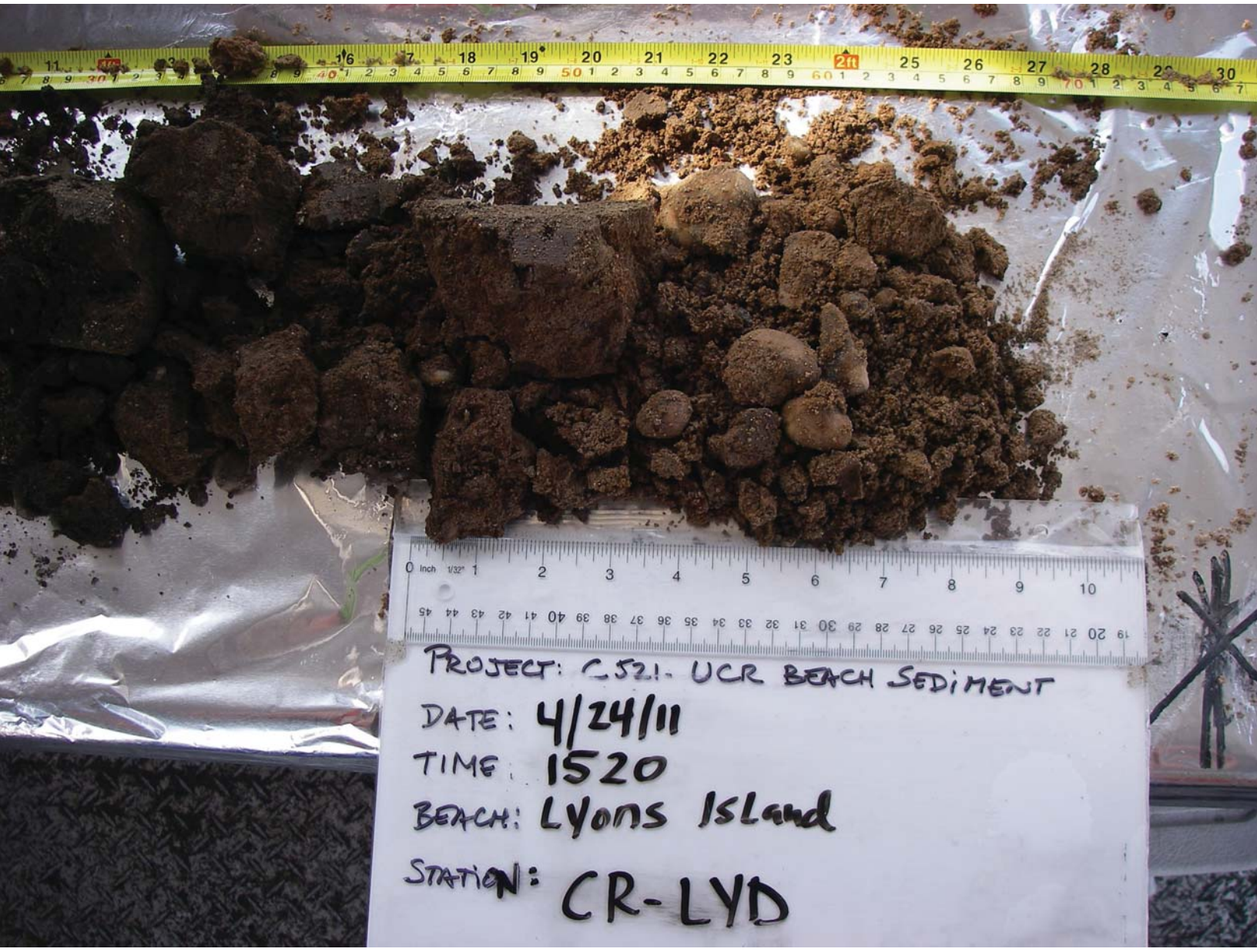
BEACH CORE SEDIMENT PHOTOGRAPHS

– LYONS ISLAND

PROJECT: C.521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1535
BEACH: Lyons Island
STATION: CR-LYE

PROJECT: C.521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 15.35
BEACH: Lyons Island


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1535
BEACH: Lyons Island
STATION: CR-LYE


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1520
BEACH: LYONS ISLAND
STATION: CR-LYD

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1520
BEACH: Lyons Island
STATION: CR-LYD

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1520
BEACH: LYONS ISLAND
STATION: CR-LYD

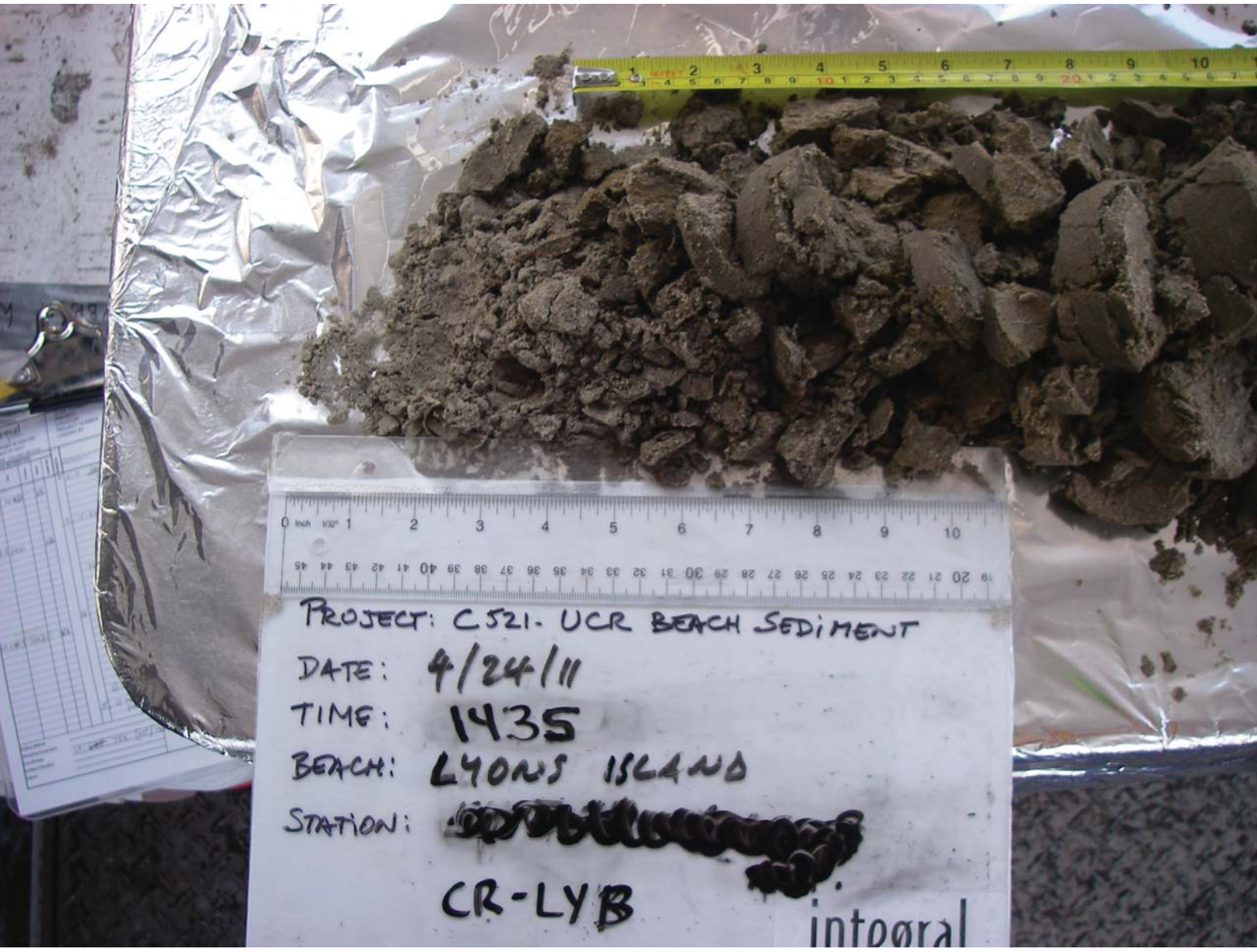
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1455
BEACH: Lyons Island
STATION: CR-LYC

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1455
BEACH: Lyons Island
STATION: CR-LYC

FOODSERVICE FOIL
CAUTION!
SHARP CUTTER EDGE!
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1455
BEACH: Lyons Island
STATION: CR-LYC

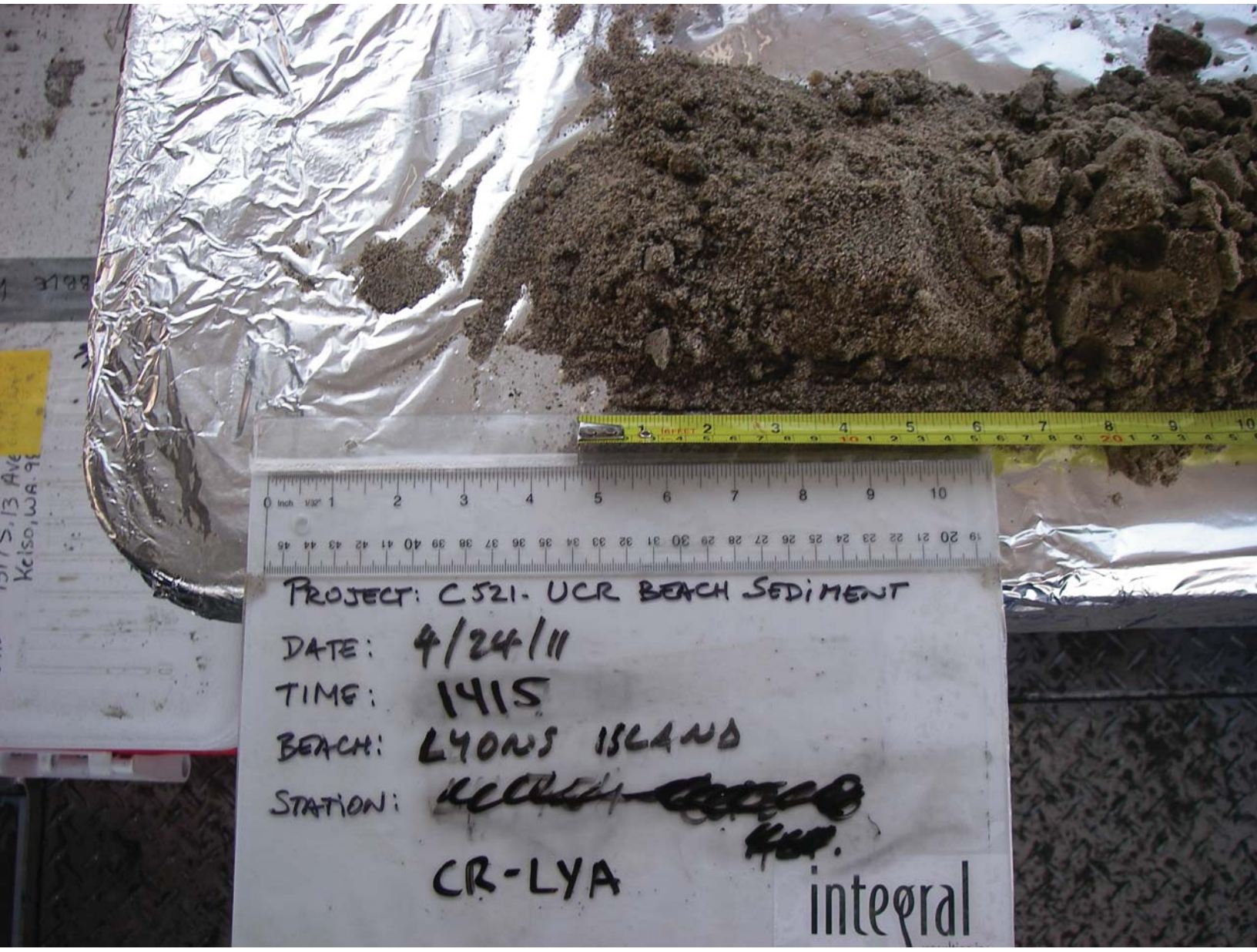
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1435
BEACH: LYONS ISLAND
STATION: [redacted]
CR-LYB
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1435
BEACH: LYONS ISLAND
STATION: [redacted]
CR-LYB


PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1435
BEACH: LYONS ISLAND
STATION: [redacted]
CR-LYB
integral

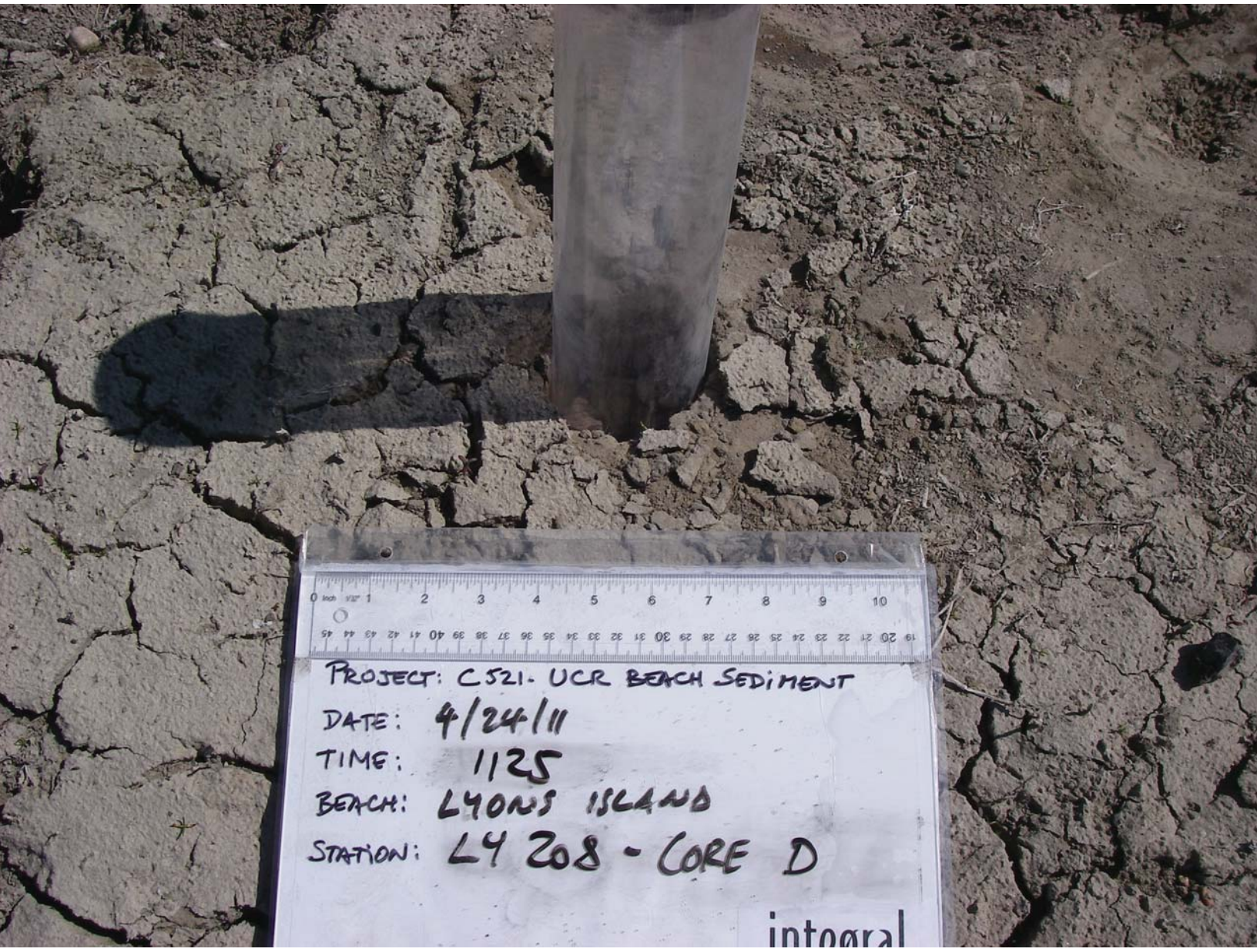
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1415
BEACH: LYONS ISLAND
STATION:
CR-LYA
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1415
BEACH: LYONS ISLAND
STATION:
CR-LYA
integral
consulting inc.


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1415
BEACH: LYONS ISLAND
STATION:
CR-LYA
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1217
BEACH: LYONS ISLAND
STATION: L4 754 - CORE B
ALT.

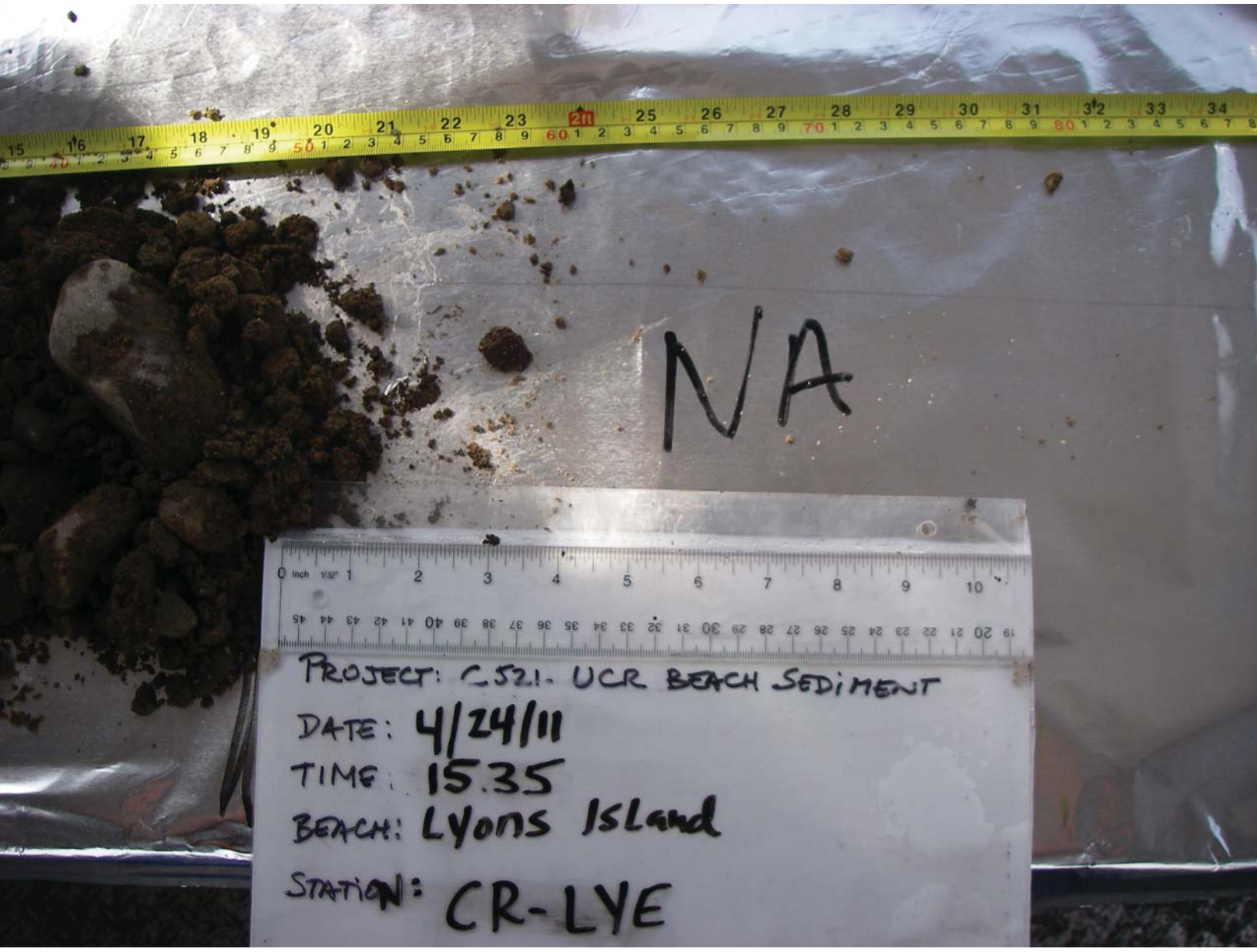
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1157
BEACH: LYONS ISLAND
STATION: L4333 - CORE B


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1125
BEACH: LYONS ISLAND
STATION: L4 208 - CORE D
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1142
BEACH: LYONS ISLAND
STATION: LY 88 - CORE E
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1107
BEACH: LYONS ISLAND
STATION: LY 514 - CORE C

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 1058
BEACH: LYONS ISLAND
STATION: LY 625 - CORE A
ALTERNATE
integral


NA
PROJECT: C.521- UCR BEACH SEDIMENT
DATE: 4/24/11
TIME: 15.35
BEACH: Lyons Island
STATION: CR-LYE

APPENDIX F

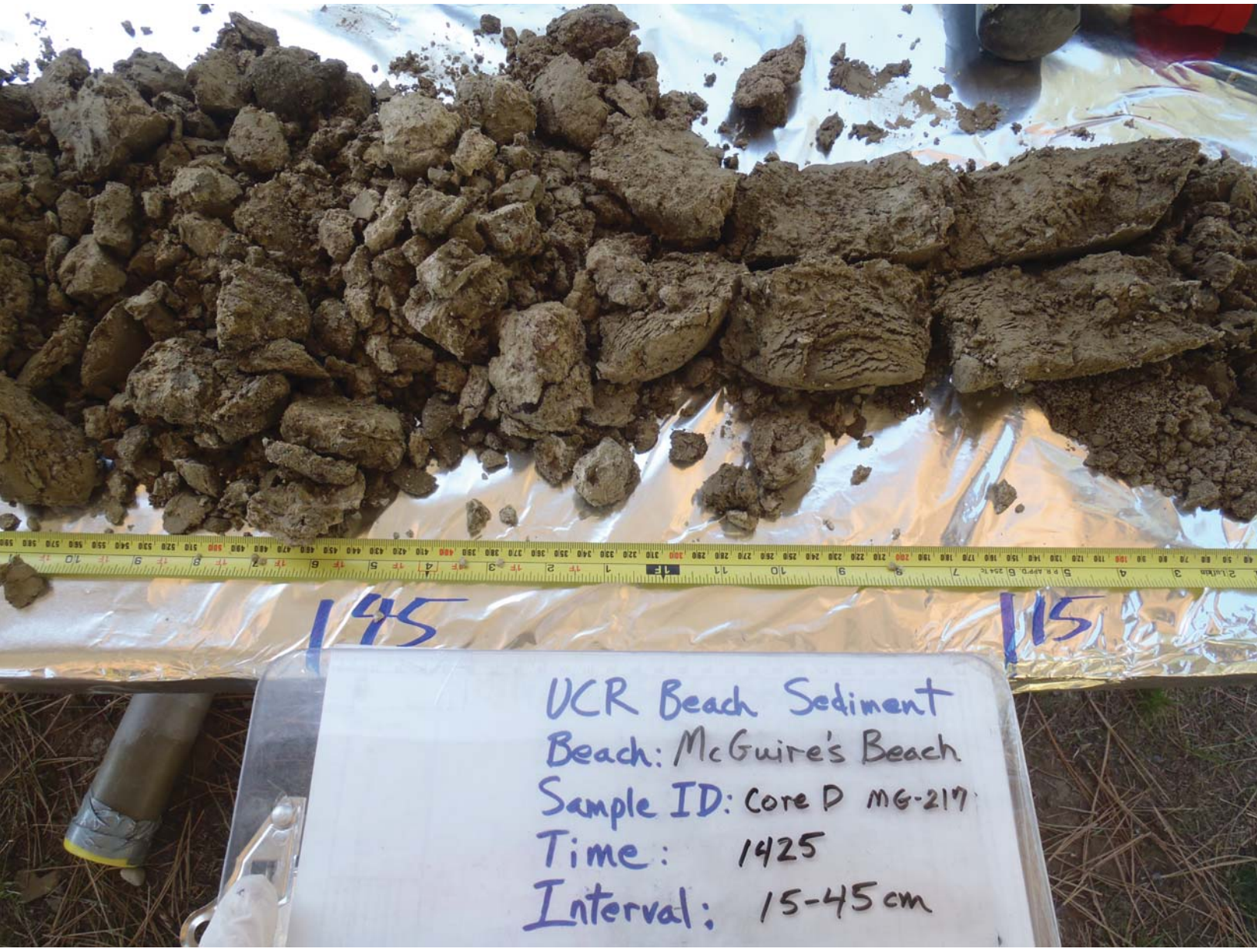
BEACH CORE SEDIMENT PHOTOGRAPHS

– MCGUIRE'S

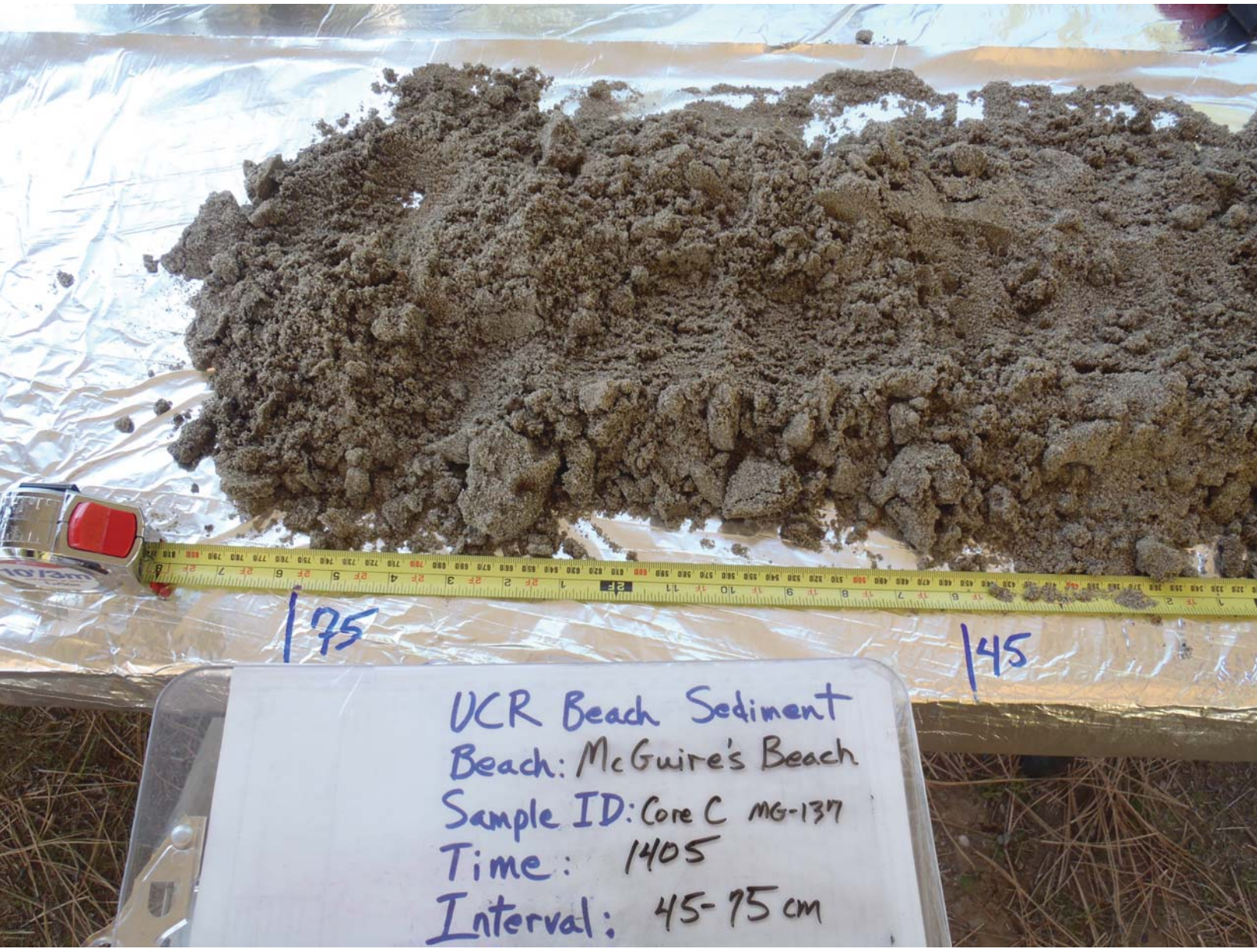
45
15
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core E MG-106
Time: 1455
Interval: 15-45 cm

115
10
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core E MG-106
Time: 1445
Interval: 0-15cm

175
145
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core D MG-217
Time: 1435
Interval: 45-75 cm


UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core D MG-217
Time: 1425
Interval: 15-45 cm

115
10
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core D MG-217
Time: 1415
Interval: 0-15cm


175
145
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core C MG-137
Time: 1405
Interval: 45-75 cm

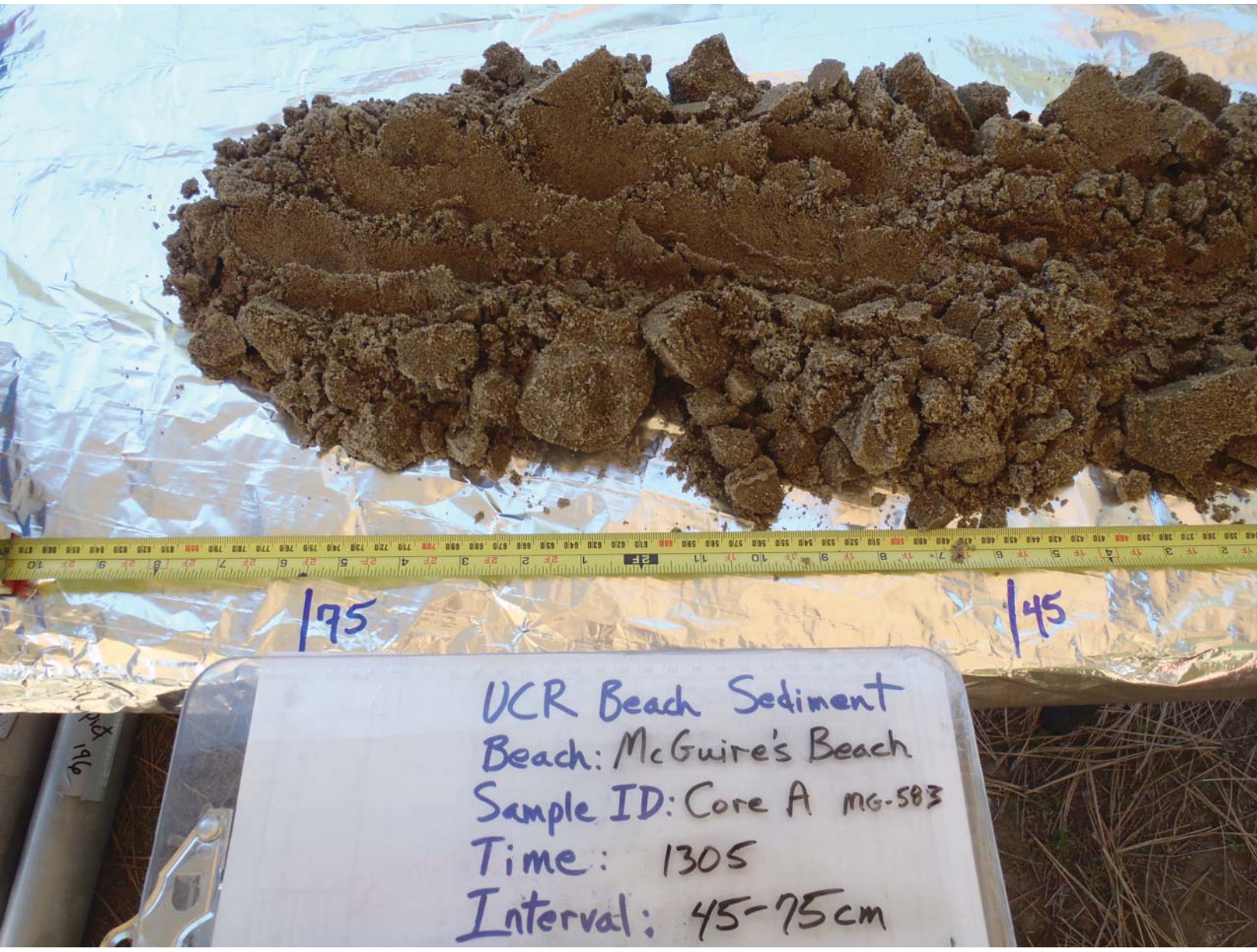
145
15
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core C MG-137
Time: 1355
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core C MG-137
Time: 1345
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core B MG-566
Time: 1335
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core B MG-566
Time: 1325
Interval: 15-45cm

115
10
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core B MG-566
Time: 1315
Interval: 0-15 cm


175
145
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core A MG-583
Time: 1305
Interval: 45-75cm

45
15
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core A MG-583
Time: 1255
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core A MG-583
Time: 1245
Interval: 0-15 cm

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-4-11
TIME: 1153
BEACH: Maguires
STATION: MG-106
Cores
integral
consulting inc.

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-4-11
TIME: 1116
BEACH: MaGuires
STATION: MG-217
Cores

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-4-11
TIME: 1039
BEACH: MaGuires
STATION: MG-137
Cores

PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-4-11
TIME: 1023
BEACH: McGuire's Beach
STATION: MG-566
Cores

PROJECT: C521 UCR BEACHSEDIMENT-2011
DATE: 5-4-11
TIME: 1008
BEACH: McGuire's Beach
STATION: MG-583
Cores

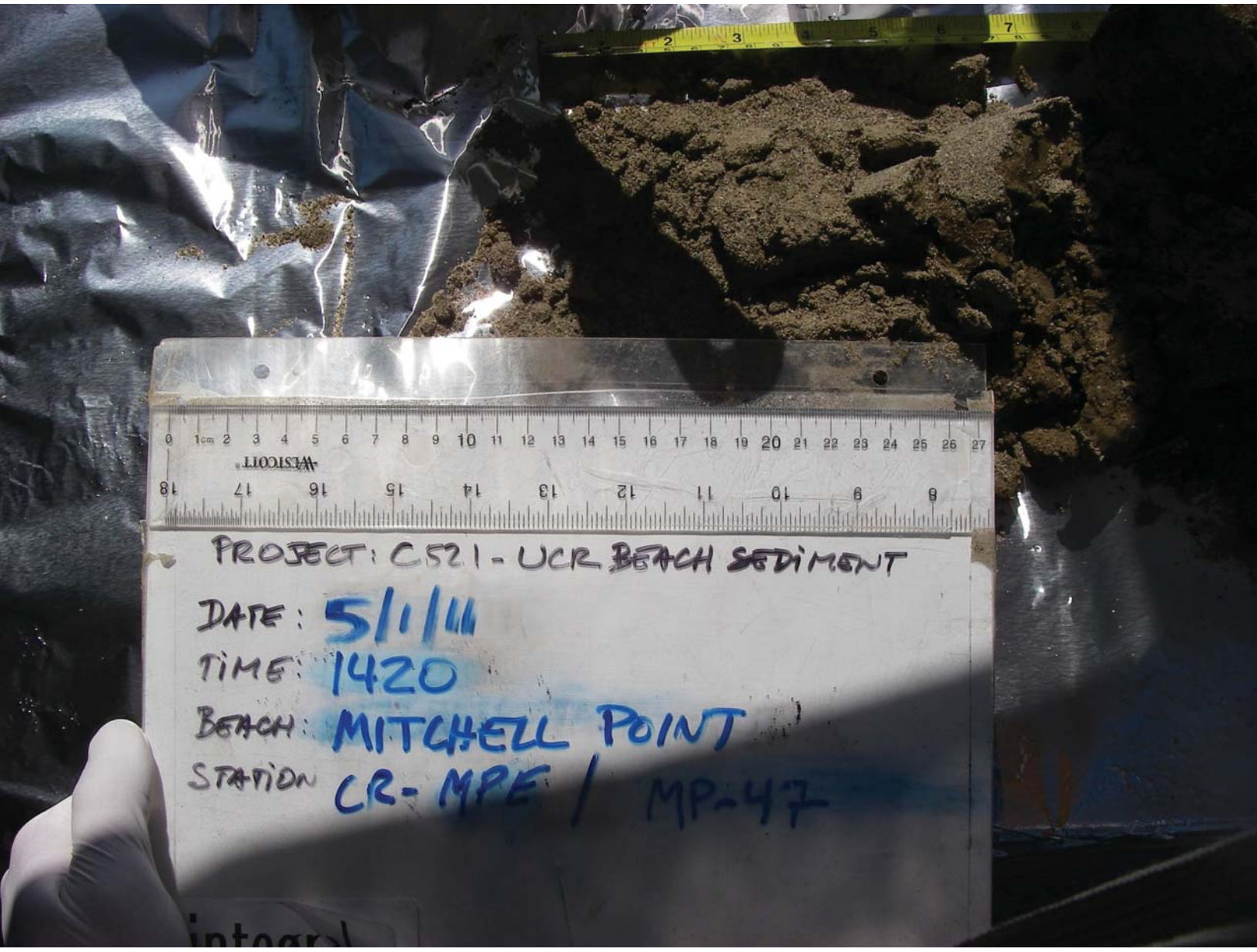
175
145
UCR Beach Sediment
Beach: McGuire's Beach
Sample ID: Core E MG-106
Time: 1505
Interval: 45-75cm

APPENDIX F

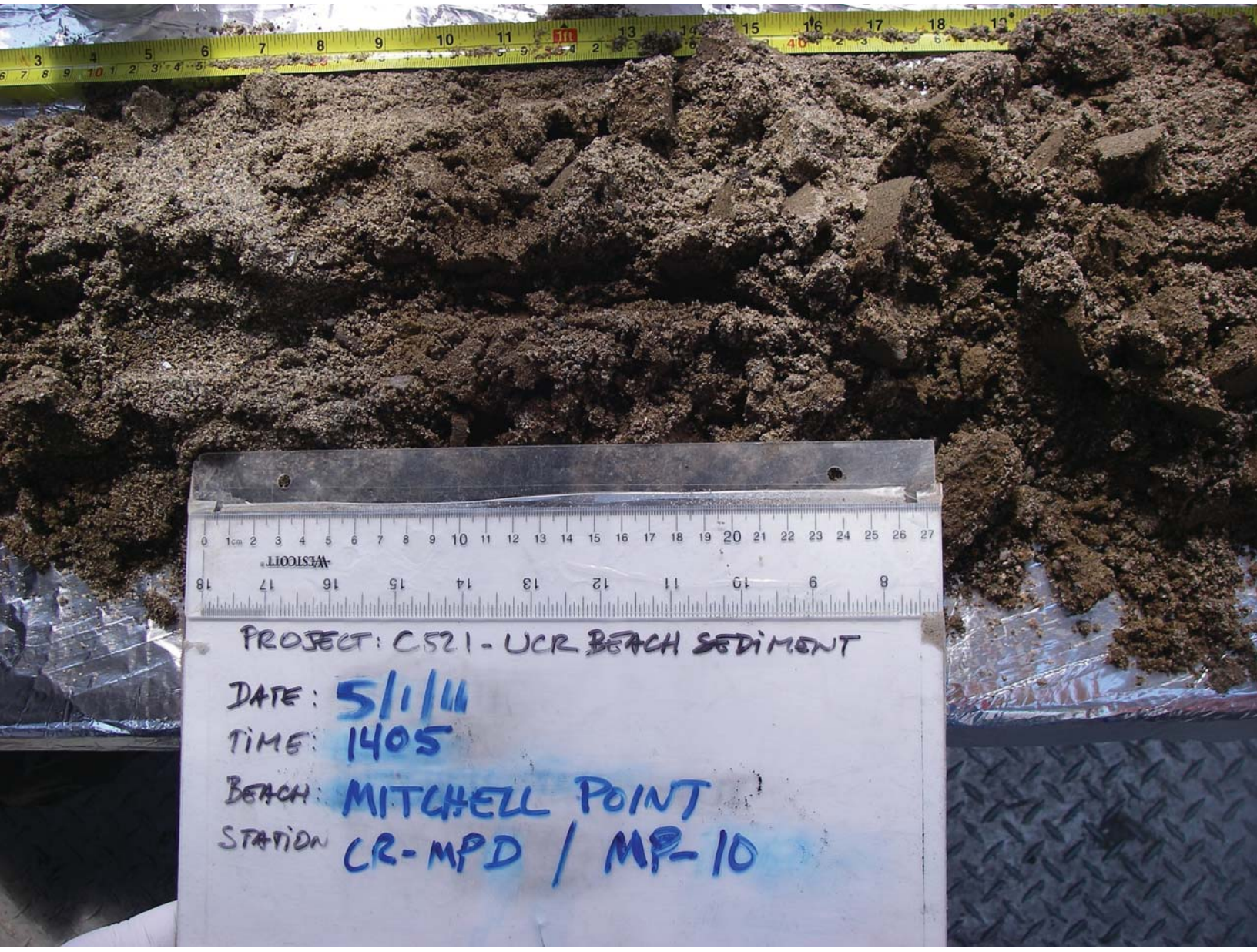
BEACH CORE SEDIMENT PHOTOGRAPHS

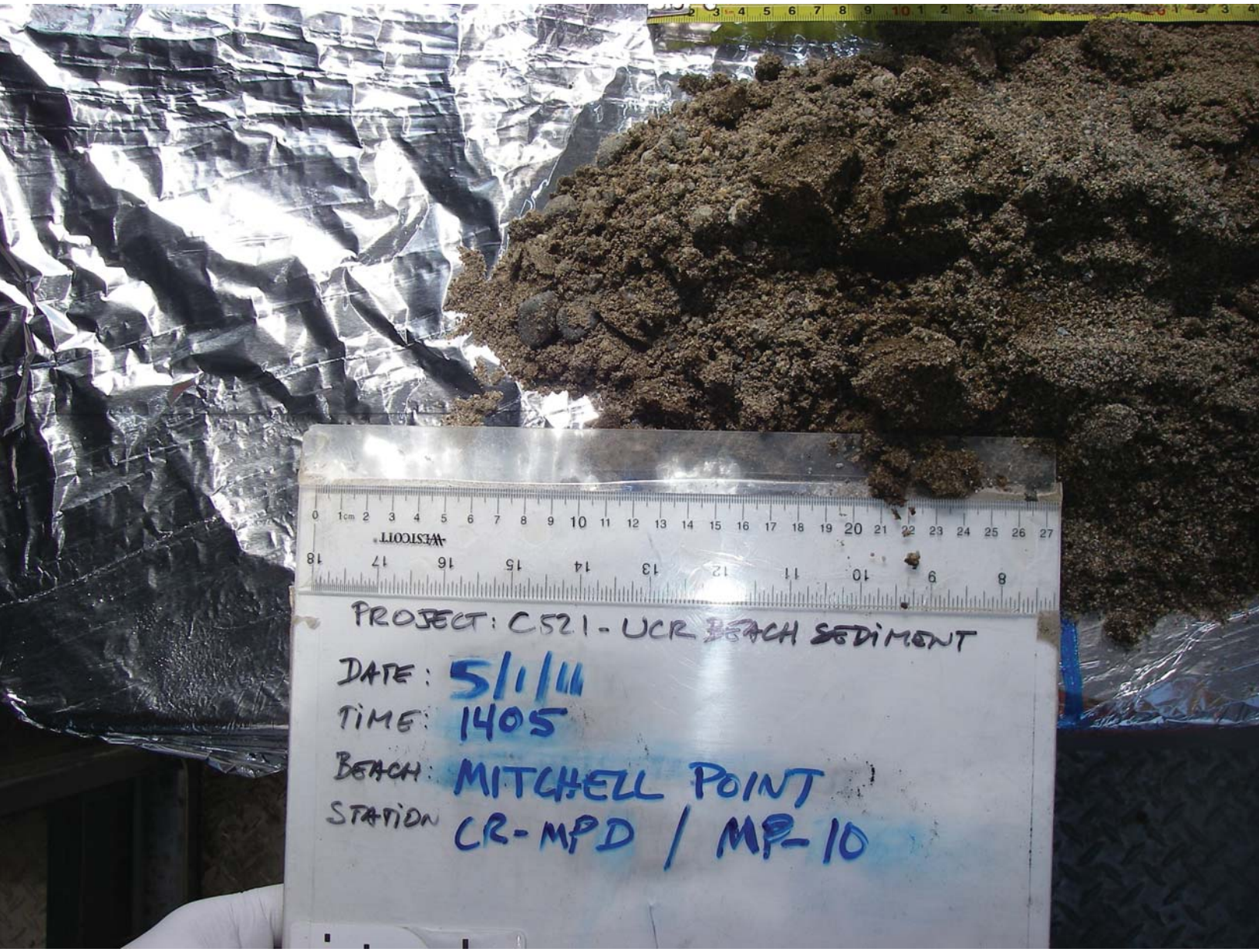
– MITCHELL POINT

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1420
BEACH: MITCHELL POINT
STATION CR-MPE / MP-47


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1420
BEACH: MITCHELL POINT
STATION CR-MPE / MP-47

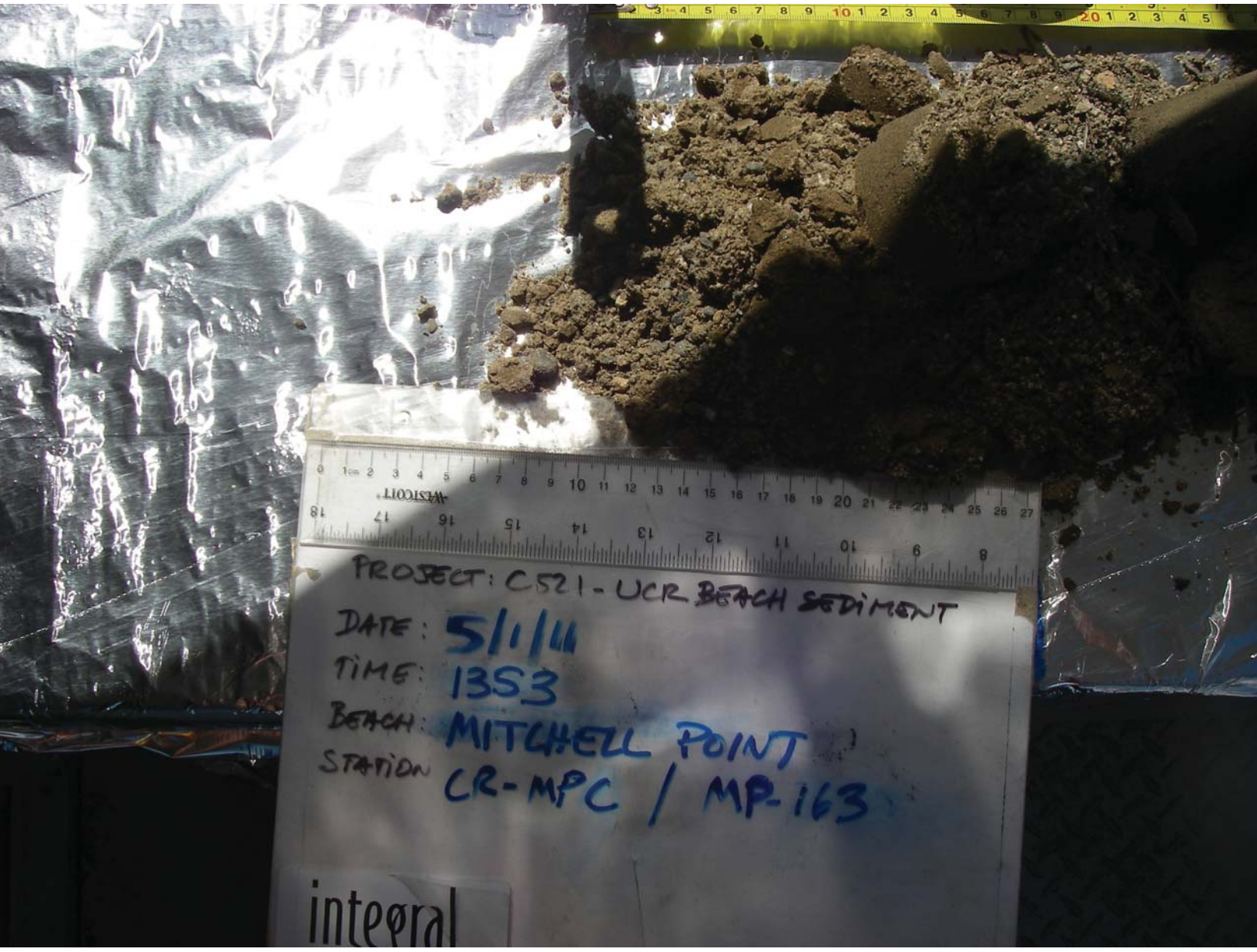
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1405
BEACH: MITCHELL POINT
STATION CR-MPD / MP-10


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1405
BEACH: MITCHELL POINT
STATION CR-MPD / MP-10


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1405
BEACH: MITCHELL POINT
STATION CR-MPD / MP-10

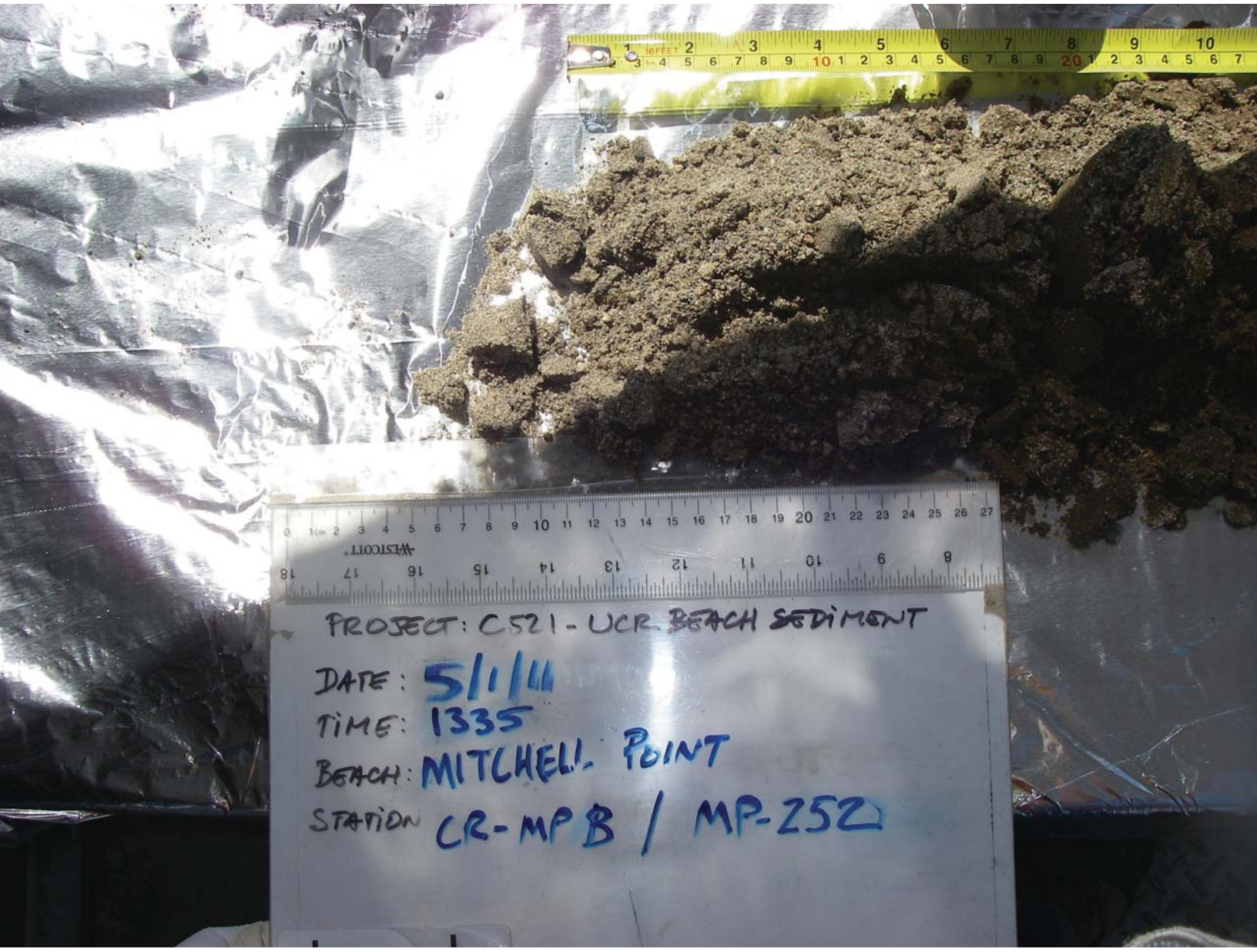
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1353
BEACH: MITCHELL POINT
STATION: CR-MPC / MP-163

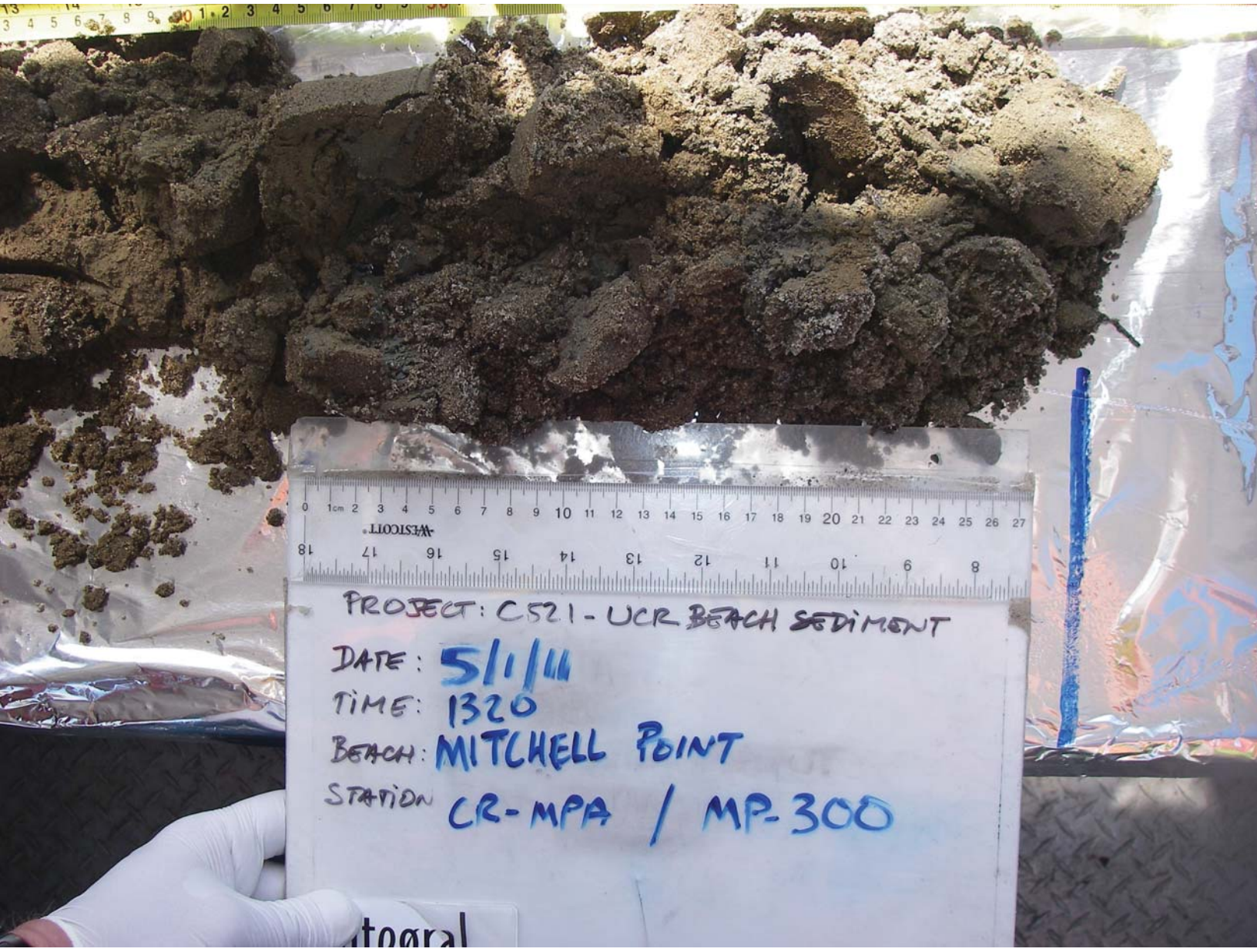
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1353
BEACH: MITCHELL POINT
STATION CR-MPC / MP-163

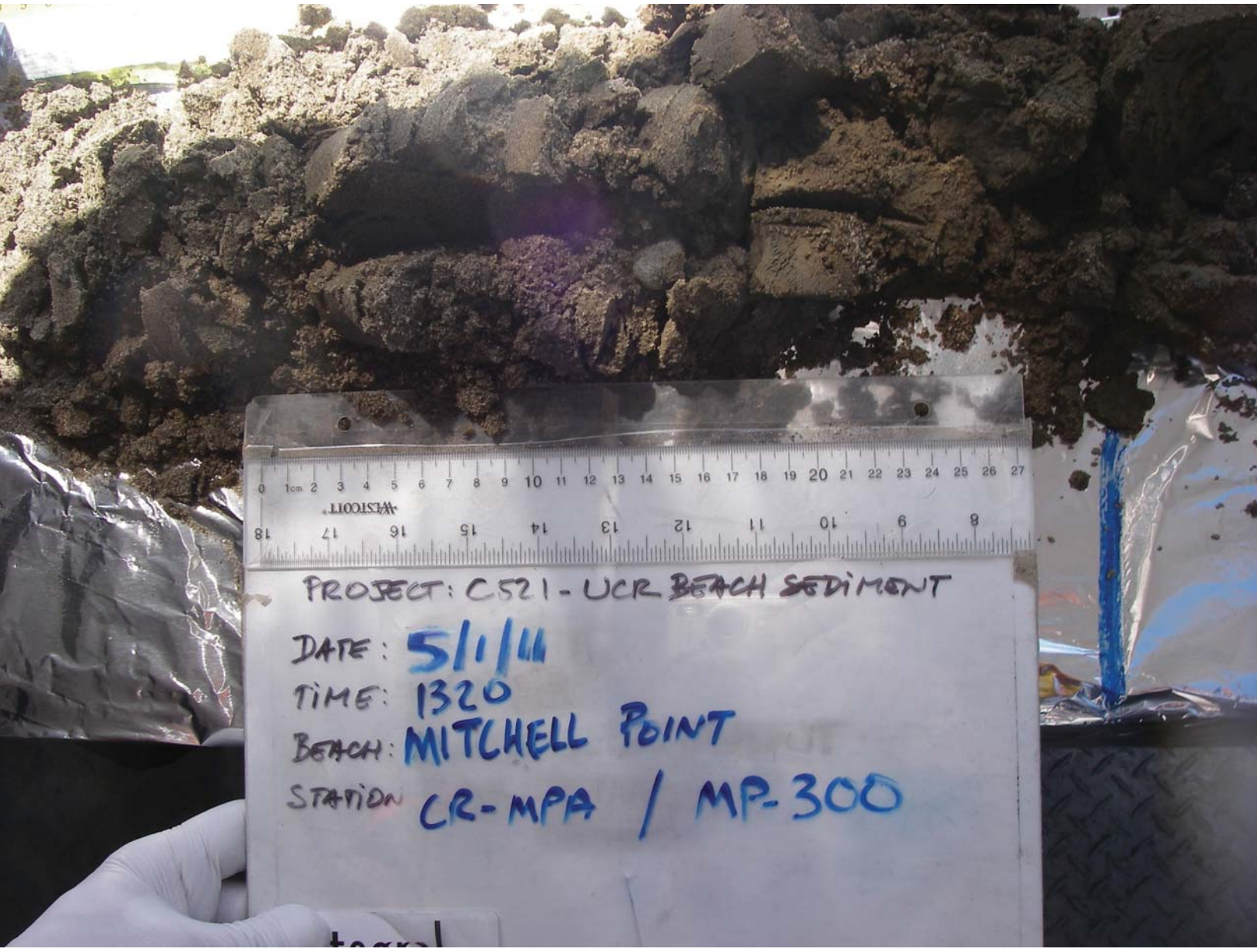

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1353
BEACH: MITCHELL POINT
STATION: CR-MPC / MP-163
integral

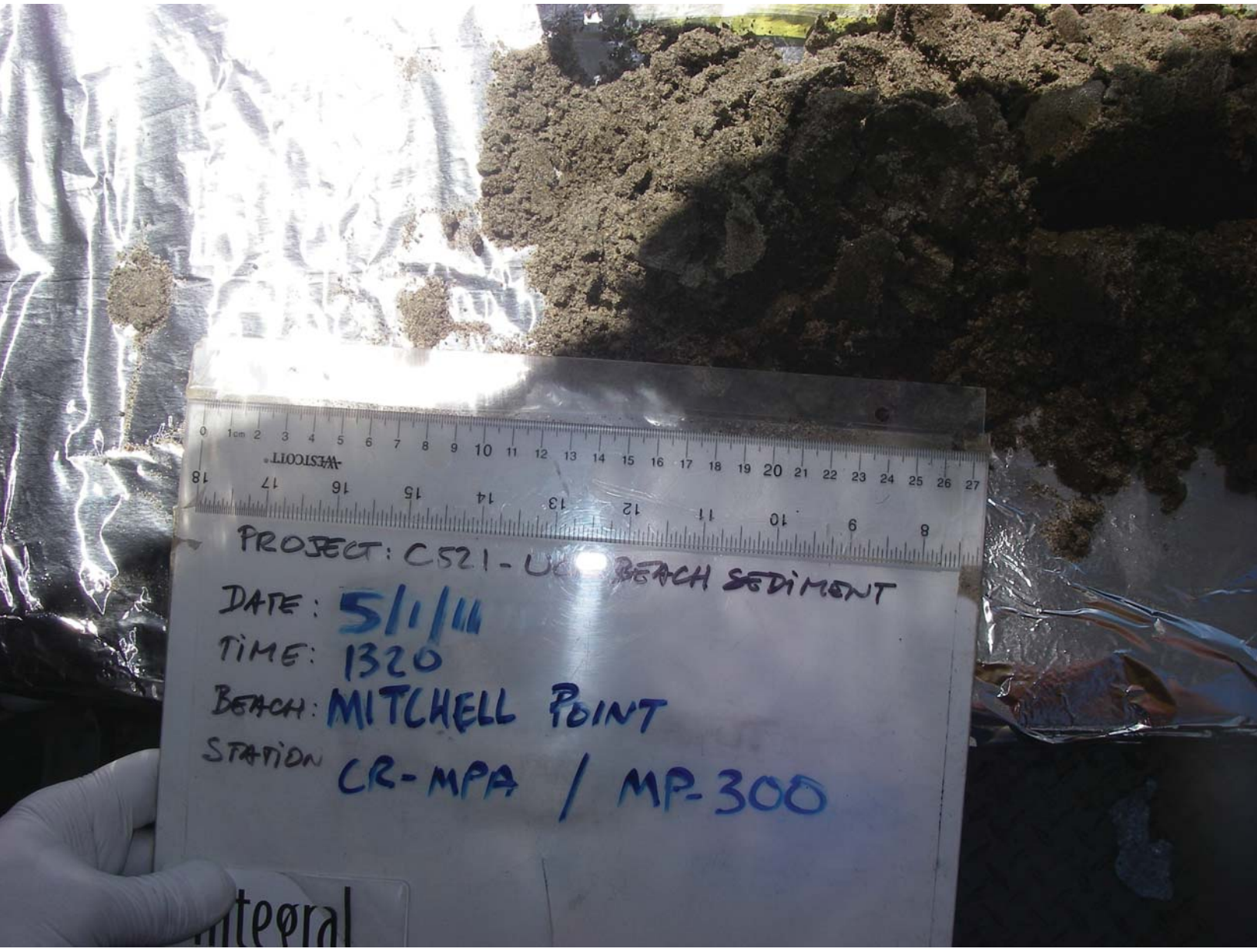
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1335
BEACH: MITCHELL POINT
STATION CR-MPB / MP-252

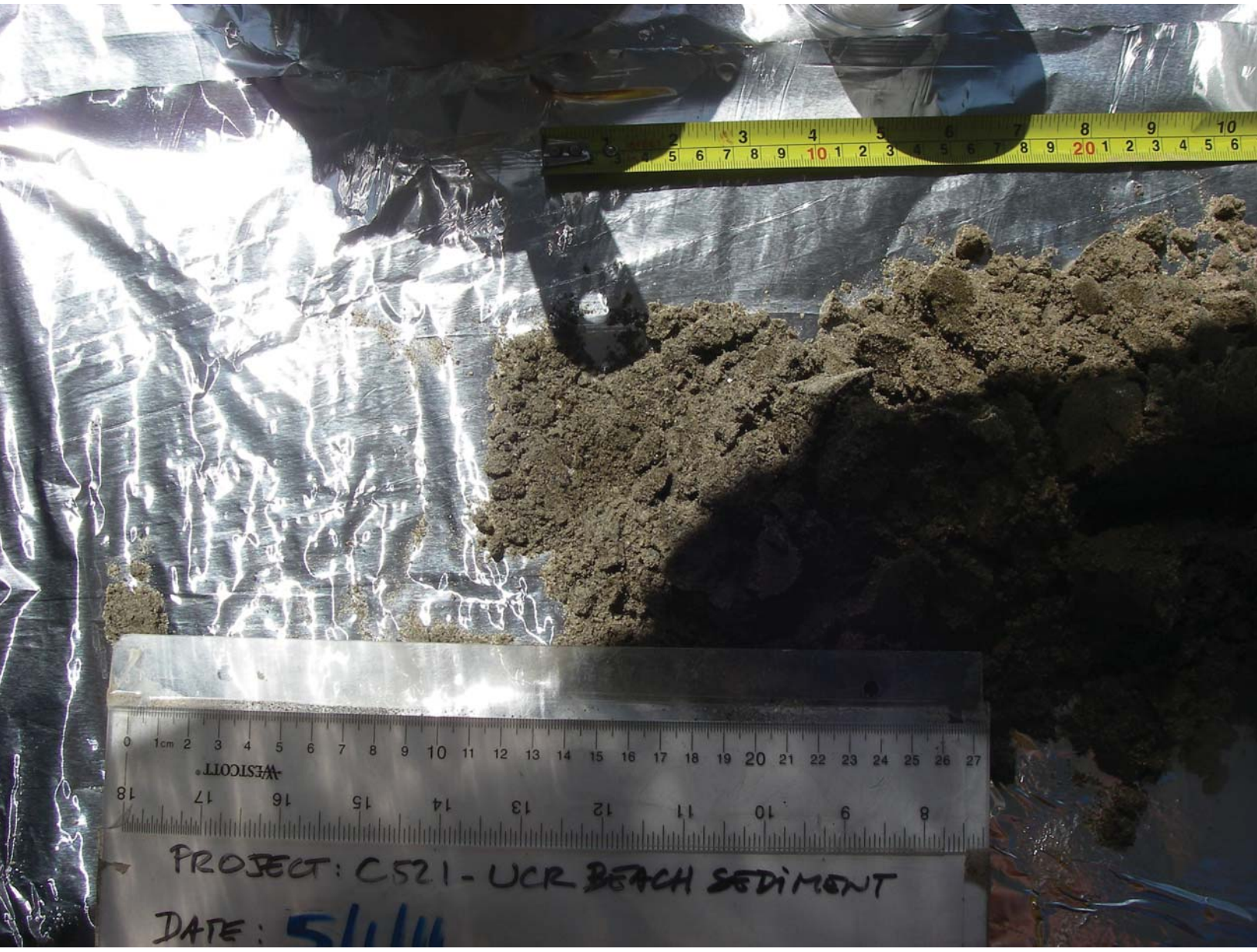
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1335
BEACH: MITCHELL POINT
STATION CR-MPB / MP-252

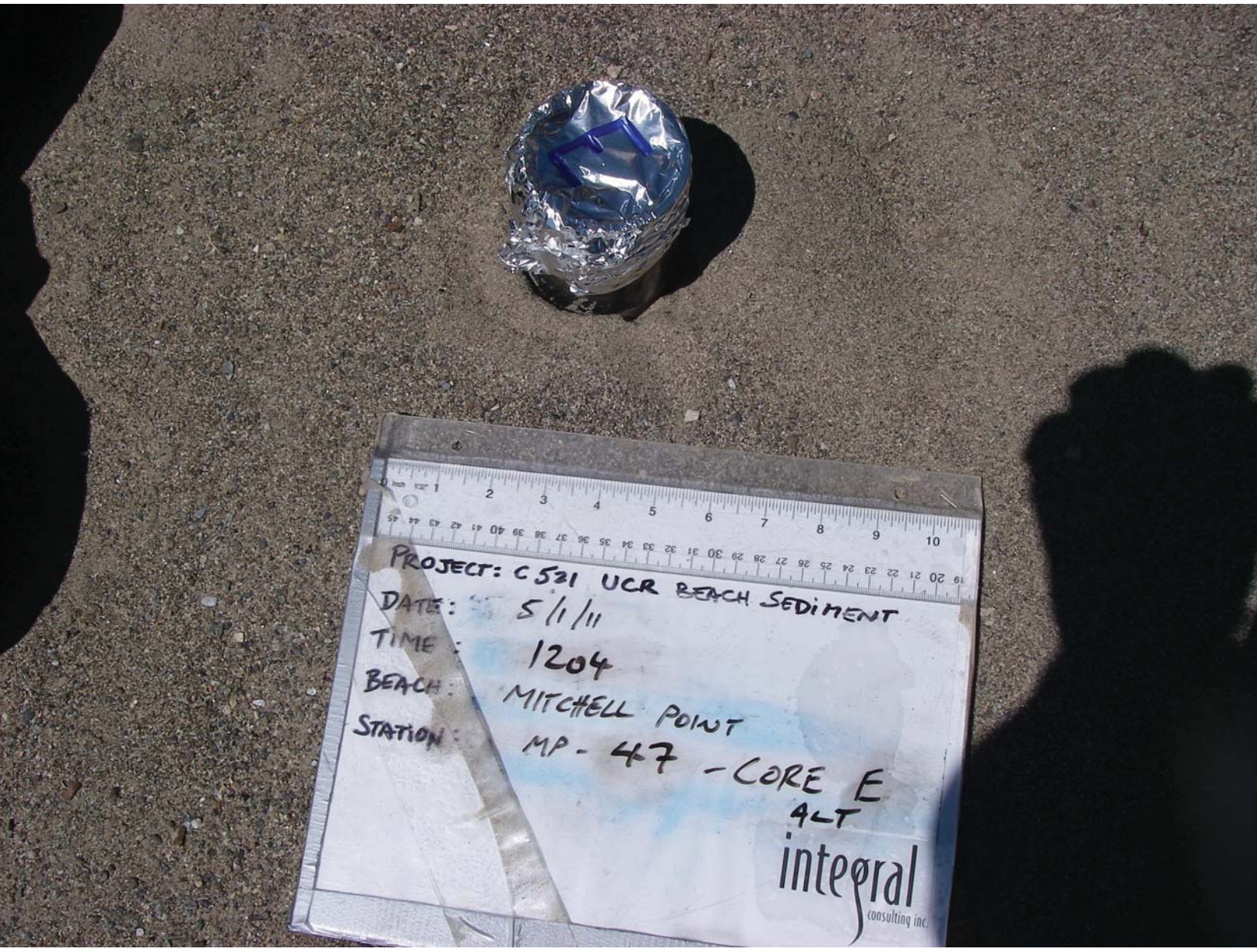

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1335
BEACH: MITCHELL POINT
STATION CR-MPB / MP-252


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1320
BEACH: MITCHELL POINT
STATION CR-MPA / MP-300


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1320
BEACH: MITCHELL POINT
STATION CR-MPA / MP-300

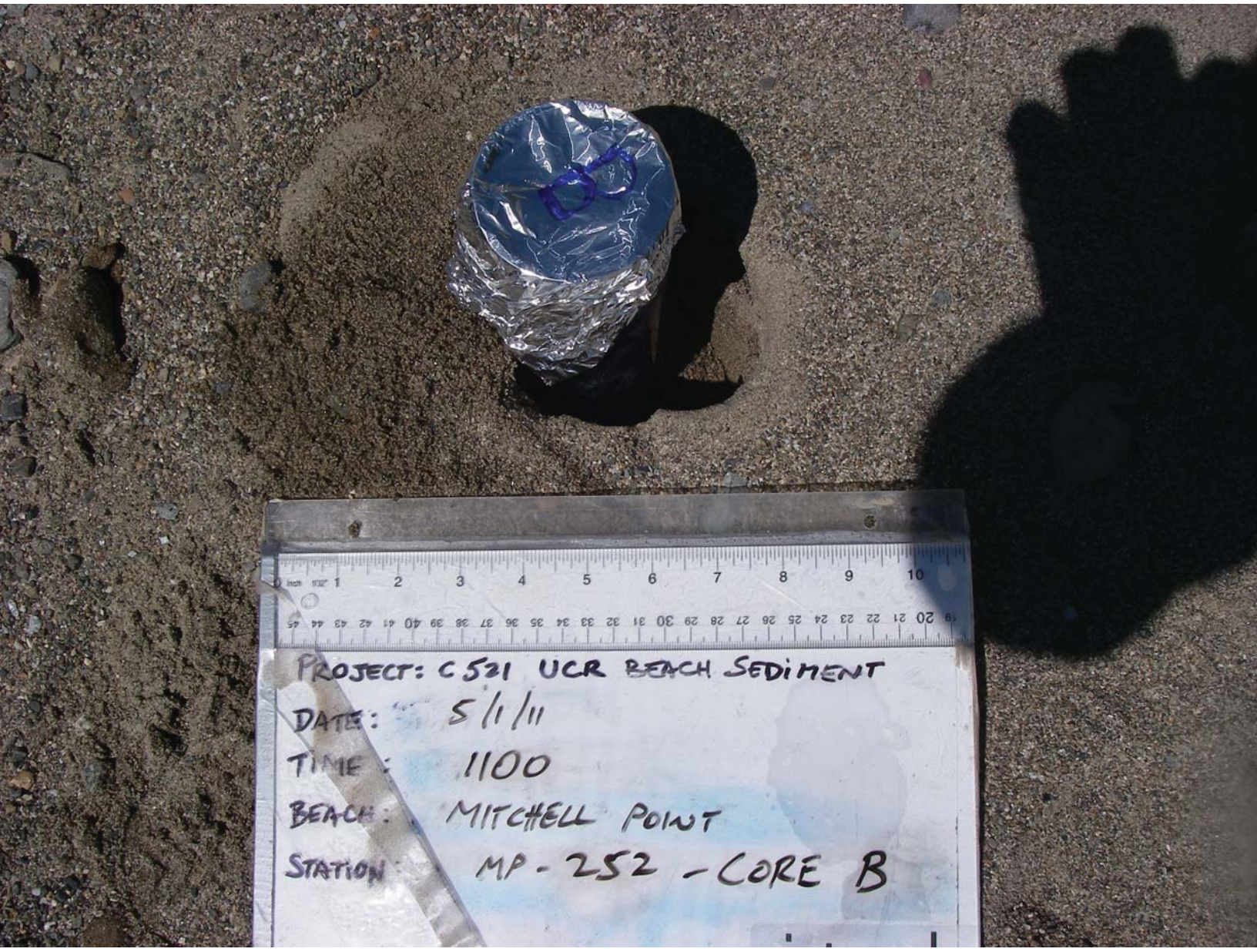

PROJECT: C521 - UC BEACH SEDIMENT
DATE: 5/1/11
TIME: 1320
BEACH: MITCHELL POINT
STATION CR-MPA / MP-300


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/14


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1204
BEACH: MITCHELL POINT
STATION: MP-47 - CORE E
ALT
integral
consulting inc.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1138
BEAC: MITCHELL POINT
STATION: MP-10 -CORE D
ALT.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1116
BEACH: MITCHELL POINT
STATION: MP-163 -CORE C


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1100
BEACH: MITCHELL POINT
STATION: MP-252 - CORE B

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1057
BEACH: MITCHELL POINT
STATION: MP-300 - CORE A
integral

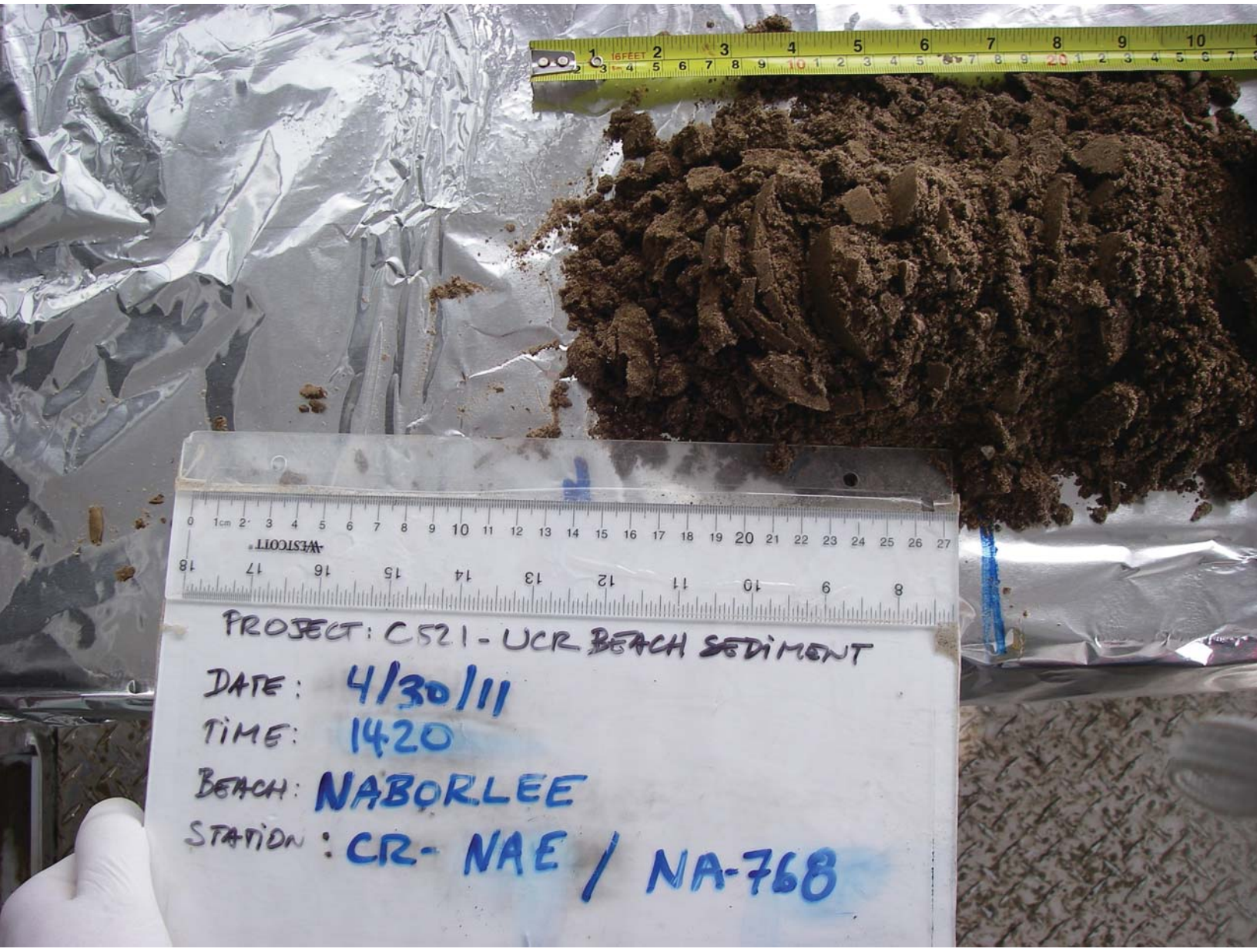
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/1/11
TIME: 1420
BEACH: MITCHELL POINT
STATION CR-MPE / MP-47

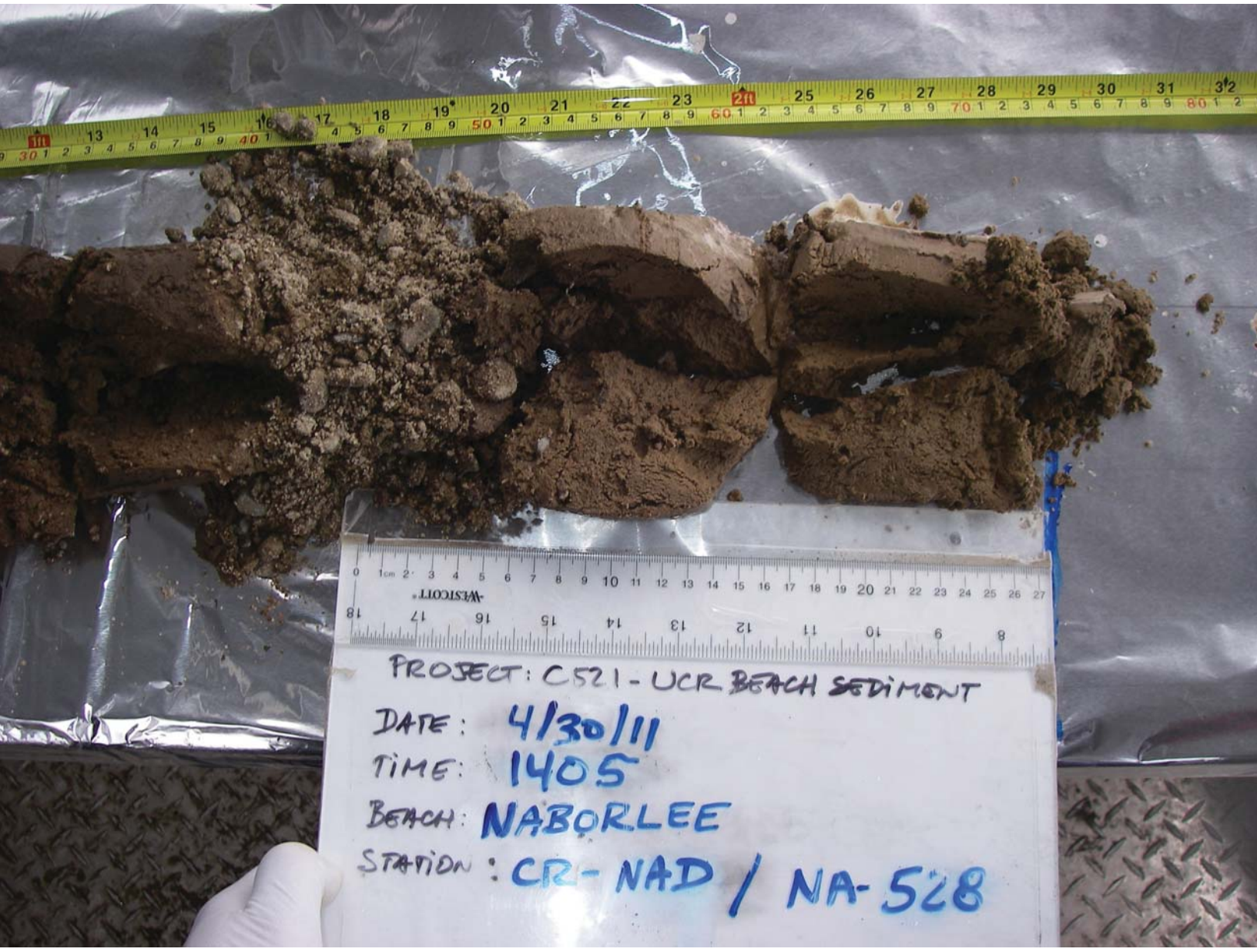
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– NABORLEE

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1420
BEACH: NABORLEE
STATION: CR- NAE / NA-768


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1420
BEACH: NABORLEE
STATION: CR- NAE / NA-768

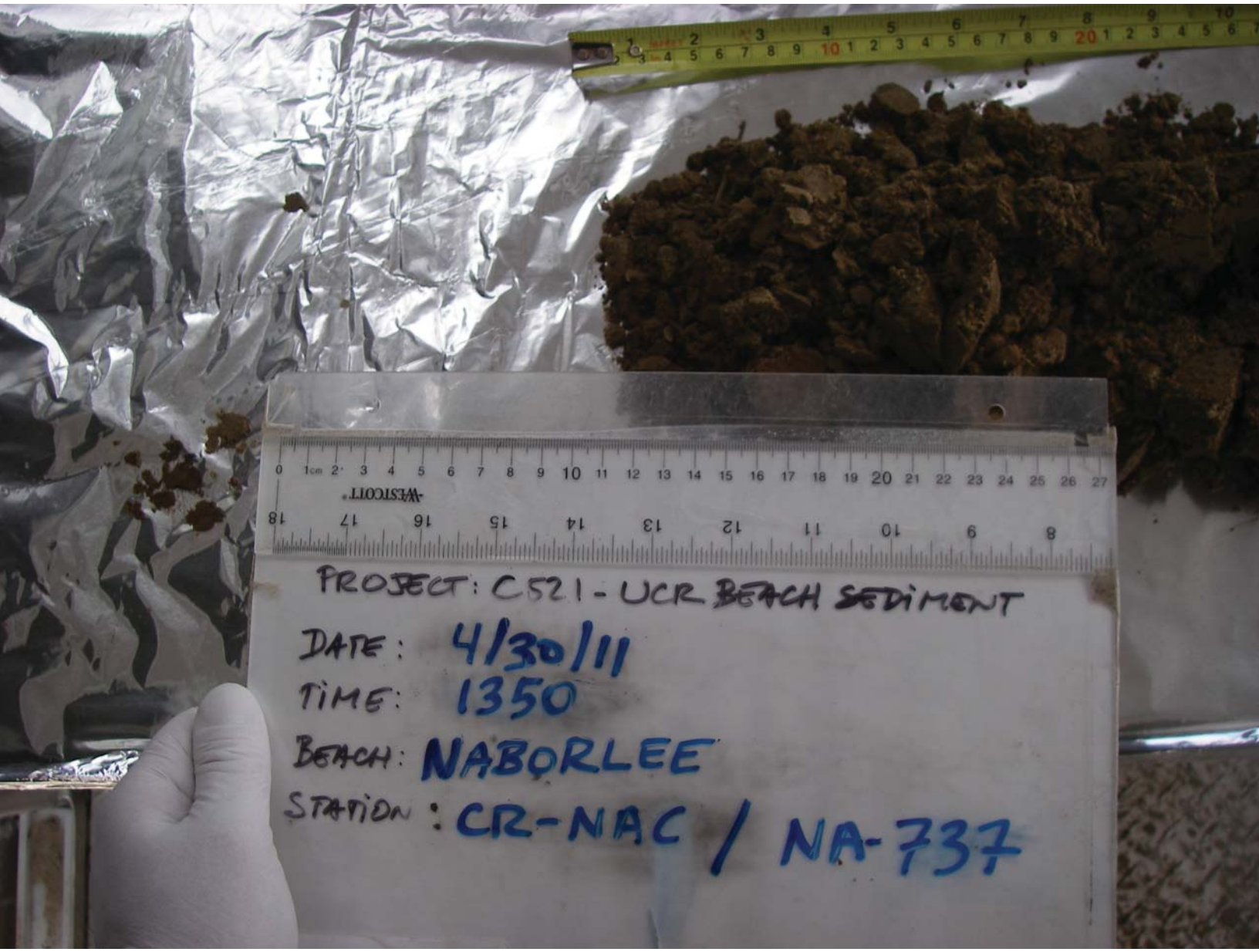

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1405
BEACH: NABORLEE
STATION: CR-NAD / NA-528

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1405
BEACH: NAPORLEE
STATION: CR-NAD / NA-528

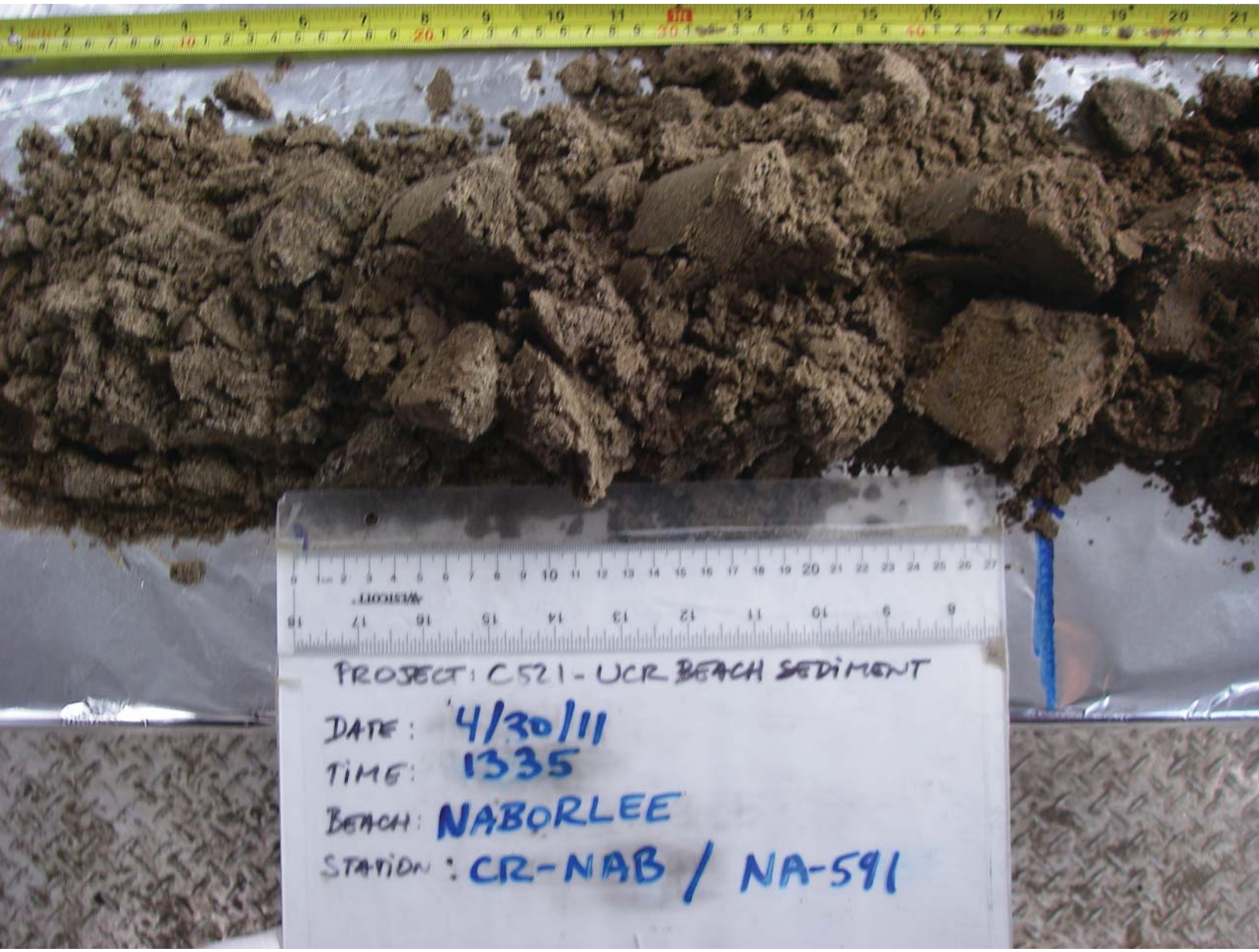
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1405
BEACH: NABORLEE
STATION: CR-NAD / NA-528

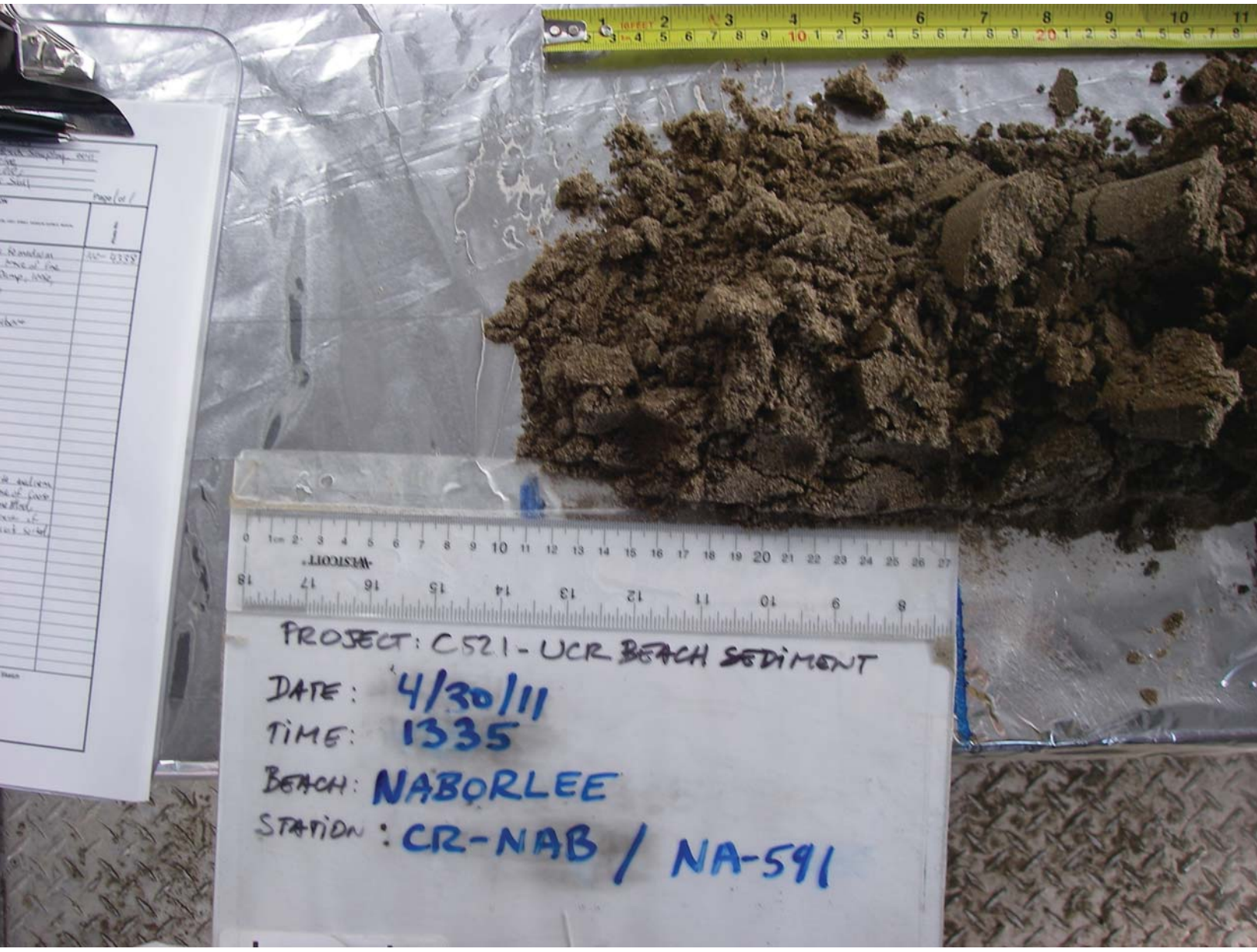
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1350
BEACH: NAPLES
STATION: CR-NAC / NA-737

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1350
BEACH: NABORLEE
STATION: CR-NAC / NA-737

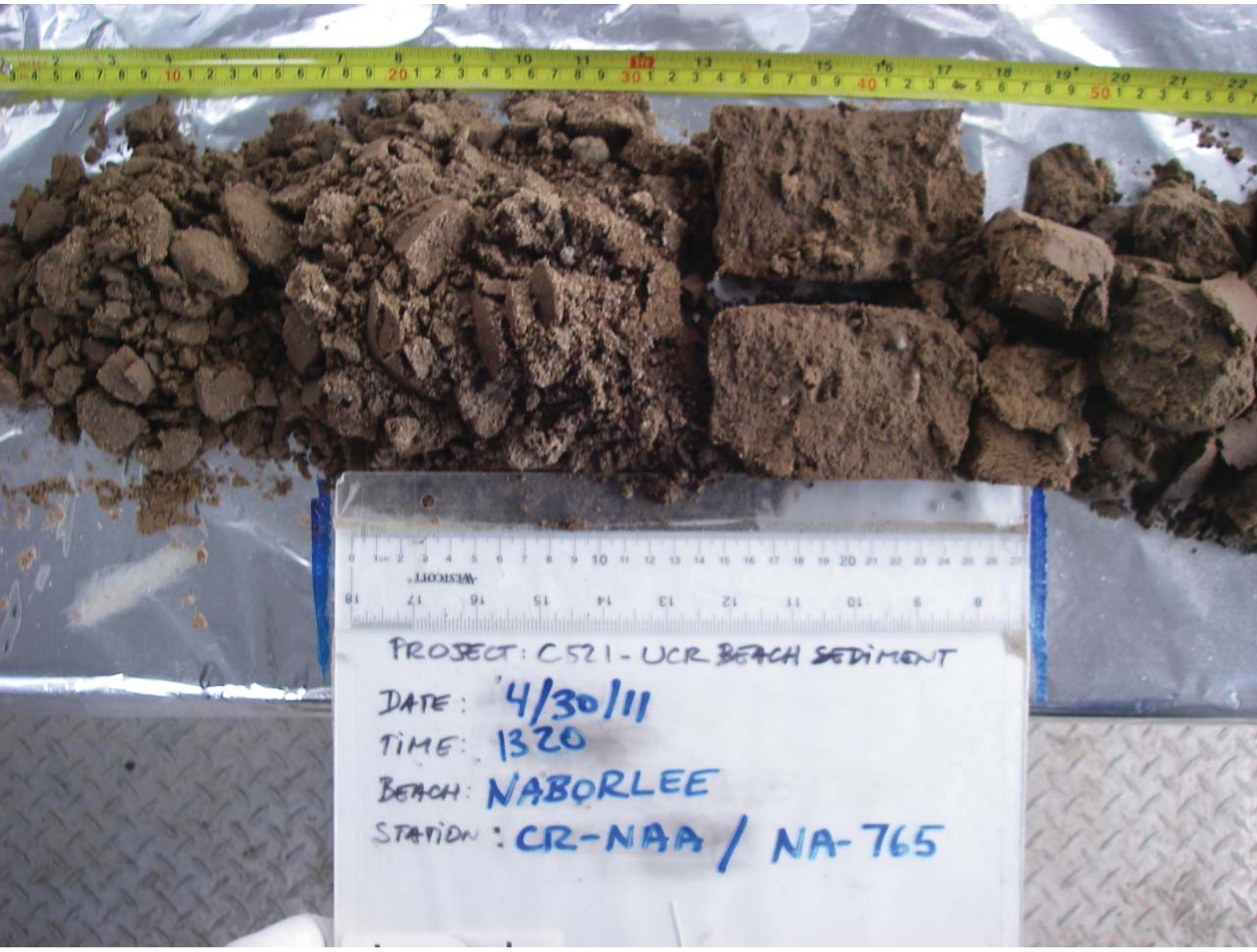

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1350
BEACH: NAPORLEE
STATION: CR-NAC / NA-737

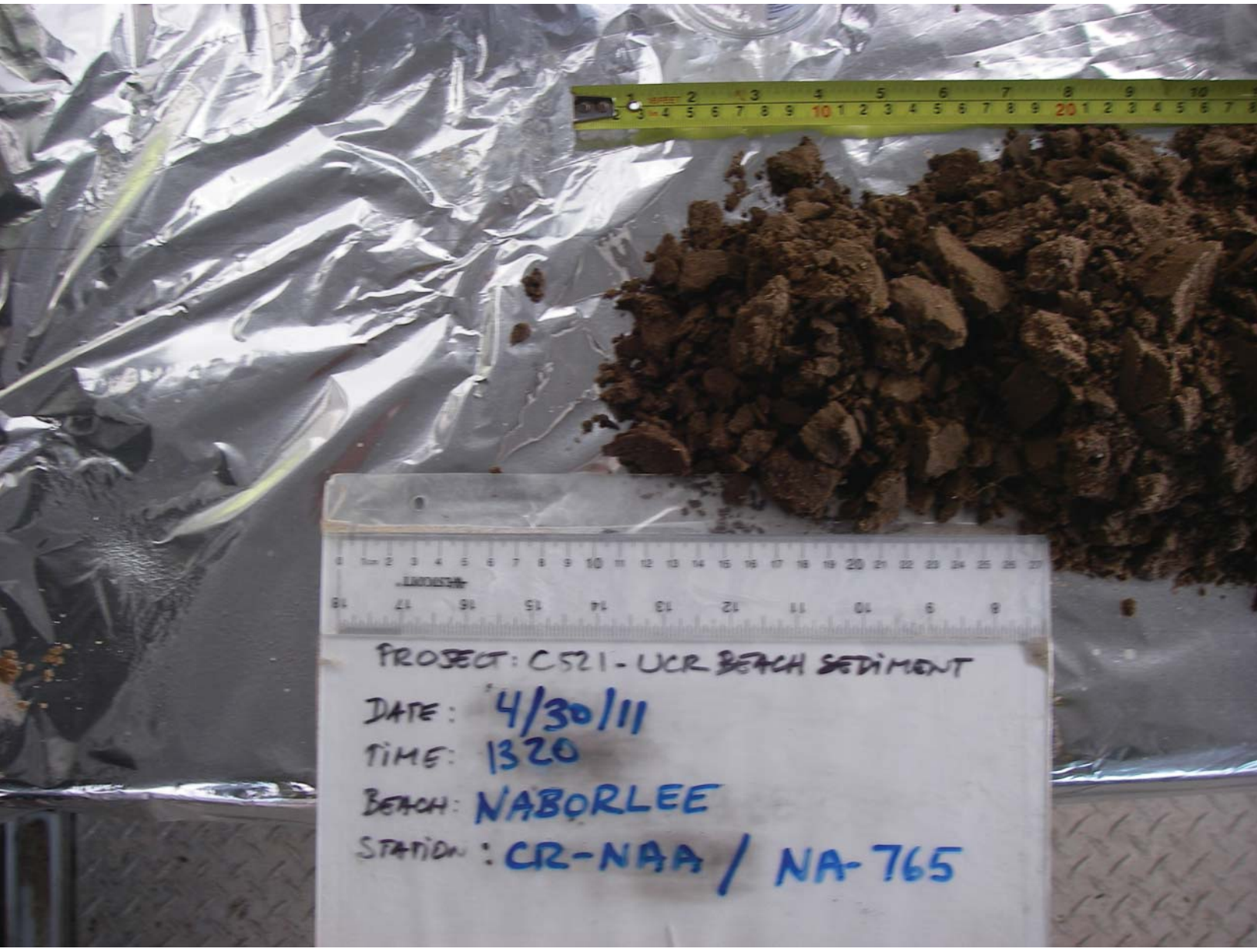
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1335
BEACH: NABORLEE
STATION: CR-NAB / NA-591


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1335
BEACH: NABORLEE
STATION: CR-NAB / NA-591


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1335
BEACH: NABORLEE
STATION: CR-NAB / NA-591

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1320
BEACH: NABORLEE
STATION: CR-NAA / NA-765


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1320
BEACH: NABORLEE
STATION: CR-NAA / NA-765

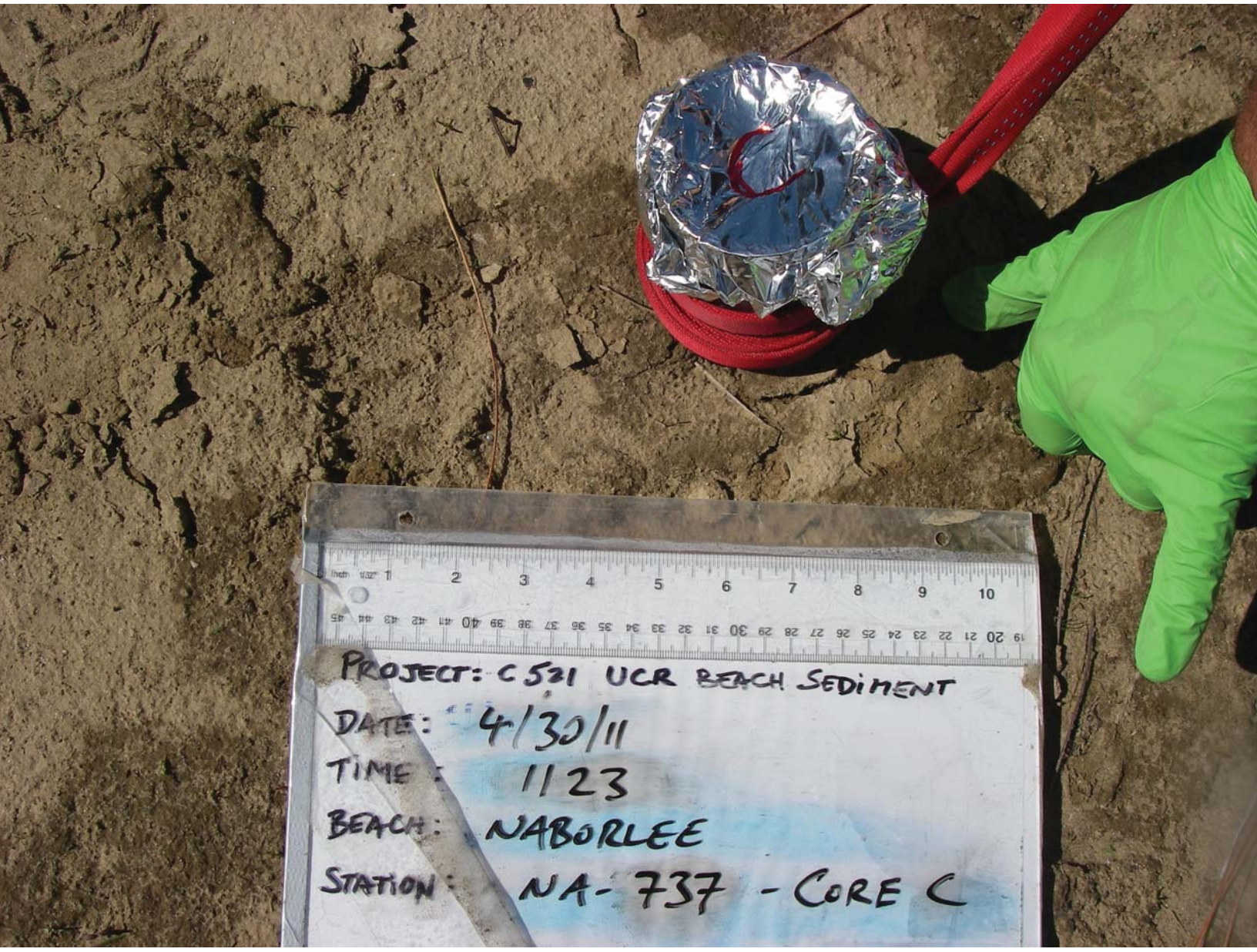

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1320
BEACH: NABORLEE
STATION: CR-NAA / NA-765

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1200
BEACH: NABORLEE
STATION: NA-768 - CORE E
ALT
integral
consulting inc.

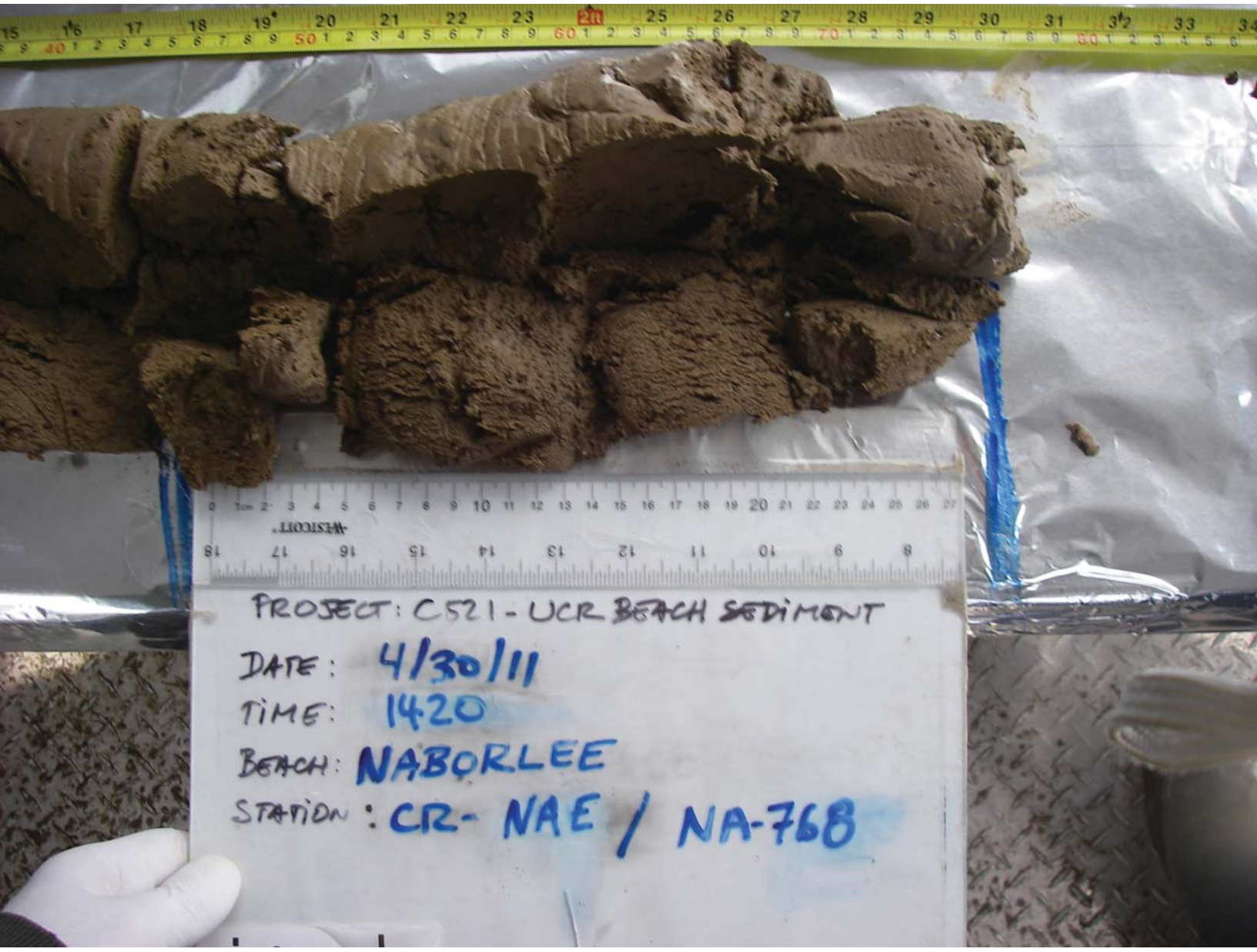
A
PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1153
BEACH: NABORLEE
STATION: NA-765 - CORE A
ALT
integral

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1139
BEACH: NABORLEE
STATION: NA-676 - CORE E
integral
consulting inc.

D
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 11:31
BEACH: NABORLEE
STATION: NA-528 - CORE D
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1123
BEACH: NABORLEE
STATION: NA-737 - CORE C

B
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1117
BEACH: NABORLEE
STATION: NA-591 - CORE B
integral


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 4/30/11
TIME: 1420
BEACH: NABORLEE
STATION: CR- NAE / NA-768

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– NEZ PERCE

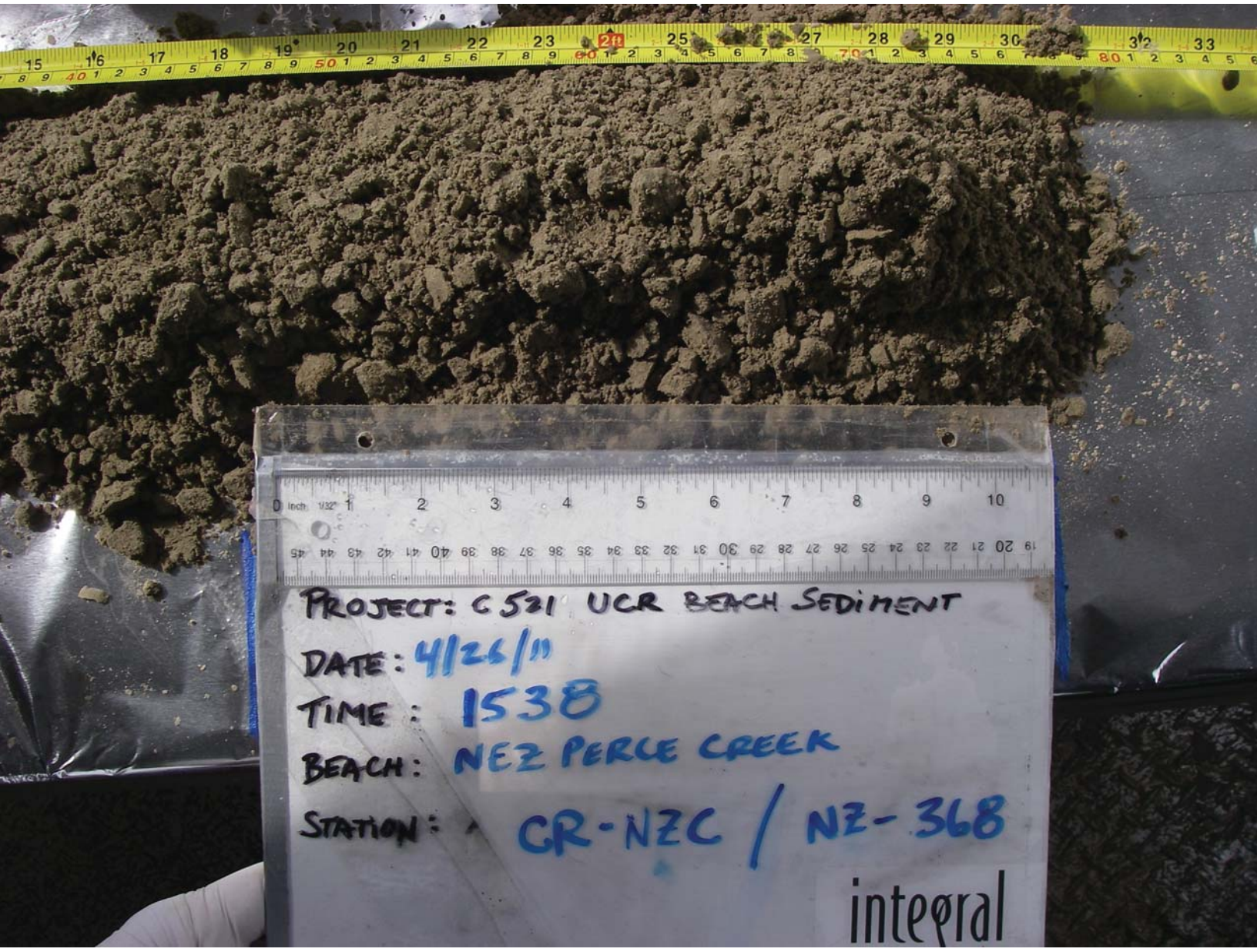
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1613
BEACH: NEZ PERCE CREEK
STATION: CR-NZE / NZ-192

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1613
BEACH: NEZ PERCE CREEK
STATION: CR-NZE / NZ-
integral

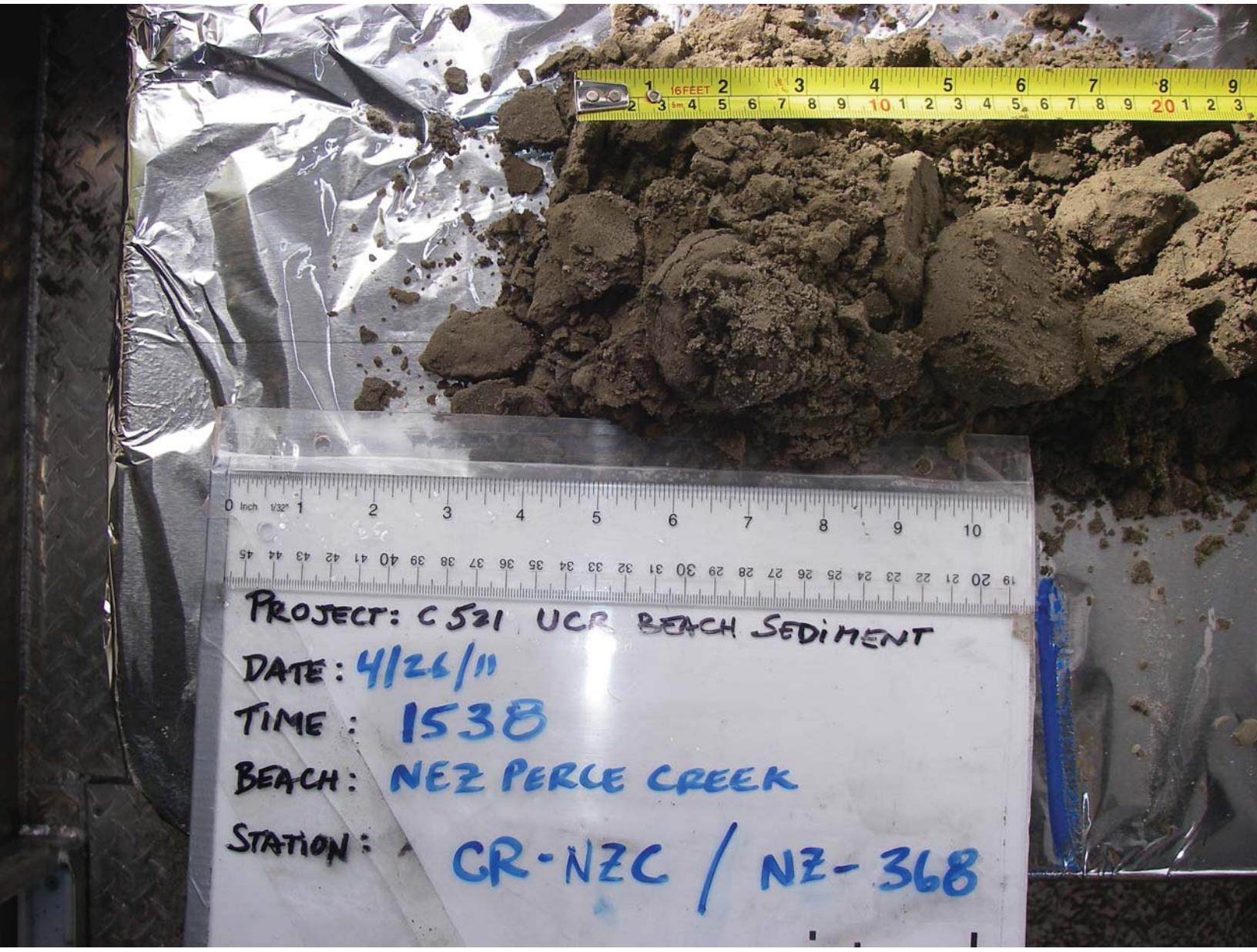
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1553
BEACH: NEZ PERCE CREEK
STATION: GR-NZD / NZ-229
integral

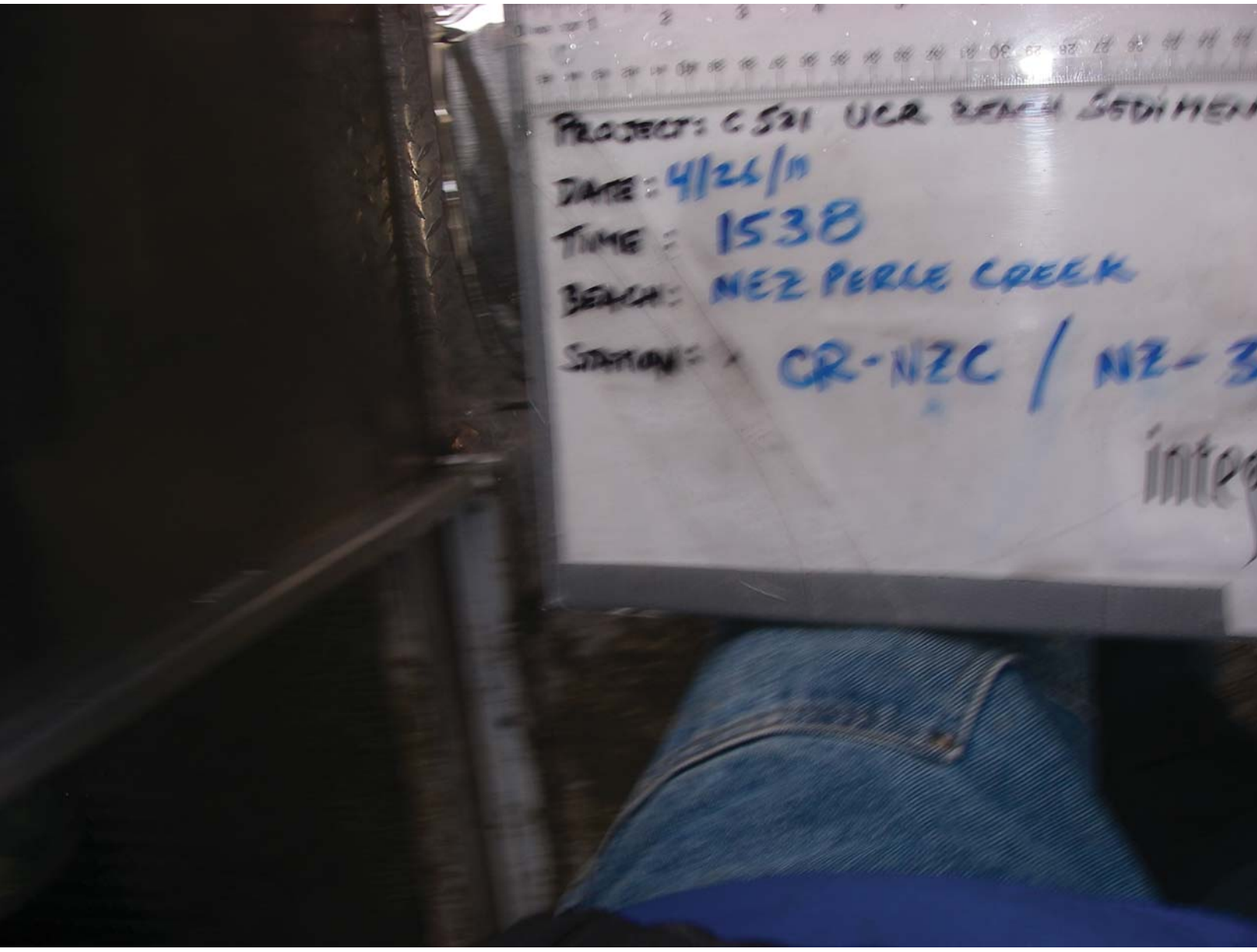
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1553
BEACH: NEZ PERCE CREEK
STATION: CR-NZD / NZ-229

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1553
BEACH: NEZ PERCE CREEK
STATION: CR-NZD / NZ-229
integral


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1538
BEACH: NEZ PERCE CREEK
STATION: CR-NZC / NZ-368
integral

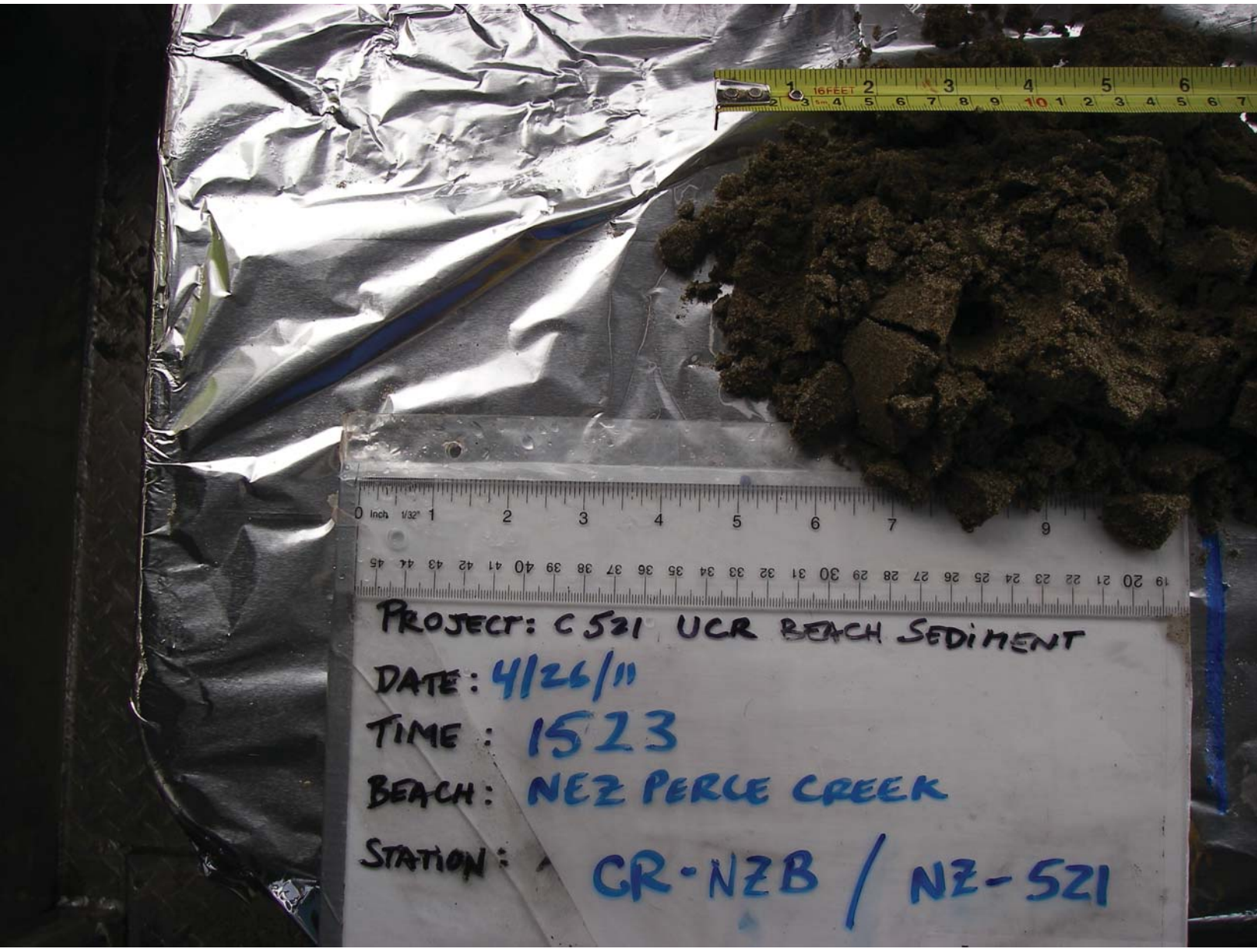
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1538
BEACH: NEZ PERCE CREEK
STATION: CR-NZC / NZ-368

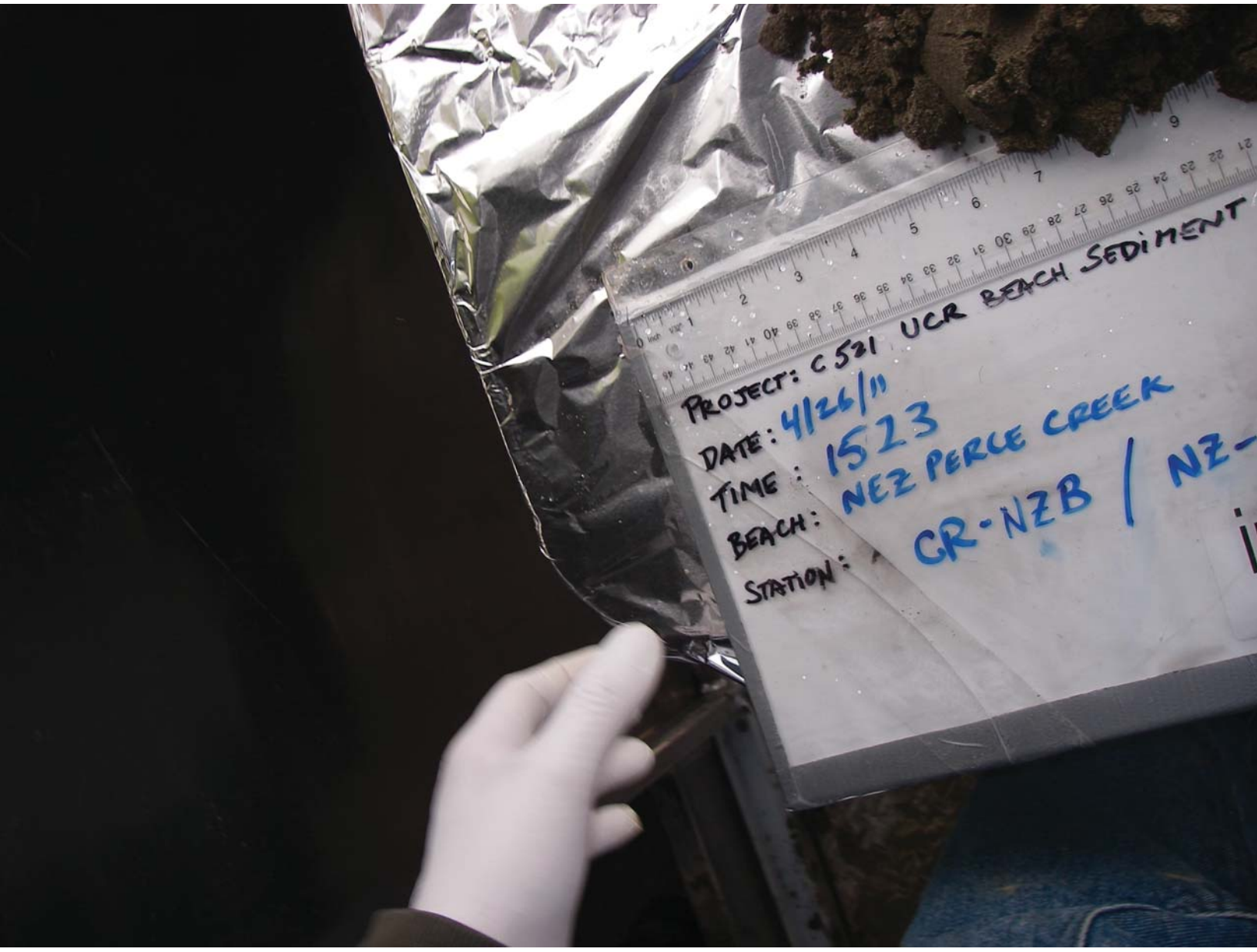

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1538
BEACH: NEZ PERCE CREEK
STATION: CR-NZC / NZ-368


PROJECT: C 521 UCR
DATE: 4/26/11
TIME: 1538
BEACH: NEZ PERCE CREEK
STATION: CR-NZC / NZ-

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1523
BEACH: NEZ PERCE CREEK
STATION: CR-NZB / NZ-521
integral

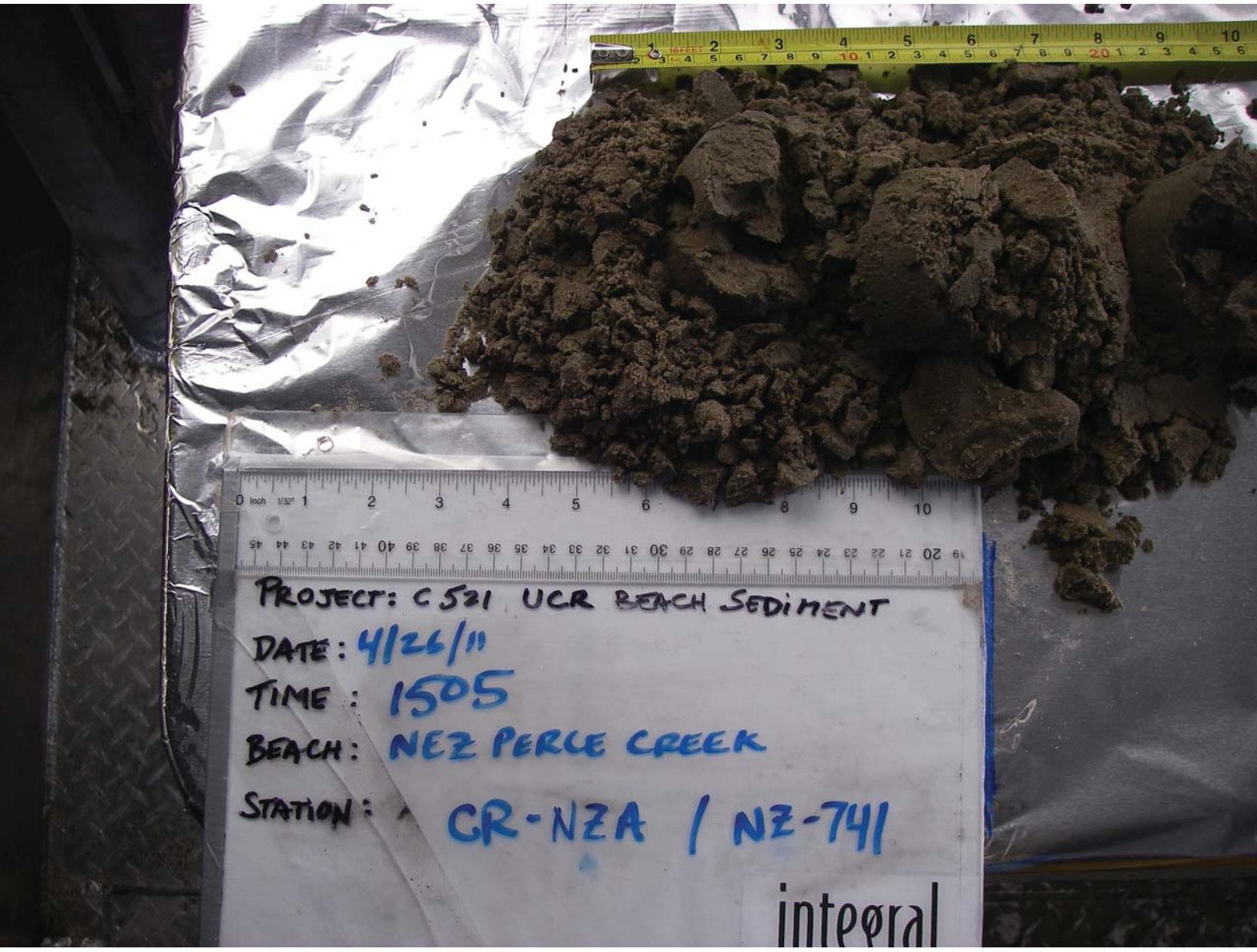
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1523
BEACH: NEZ PERCE CREEK
STATION: GR-NZB / NZ-521

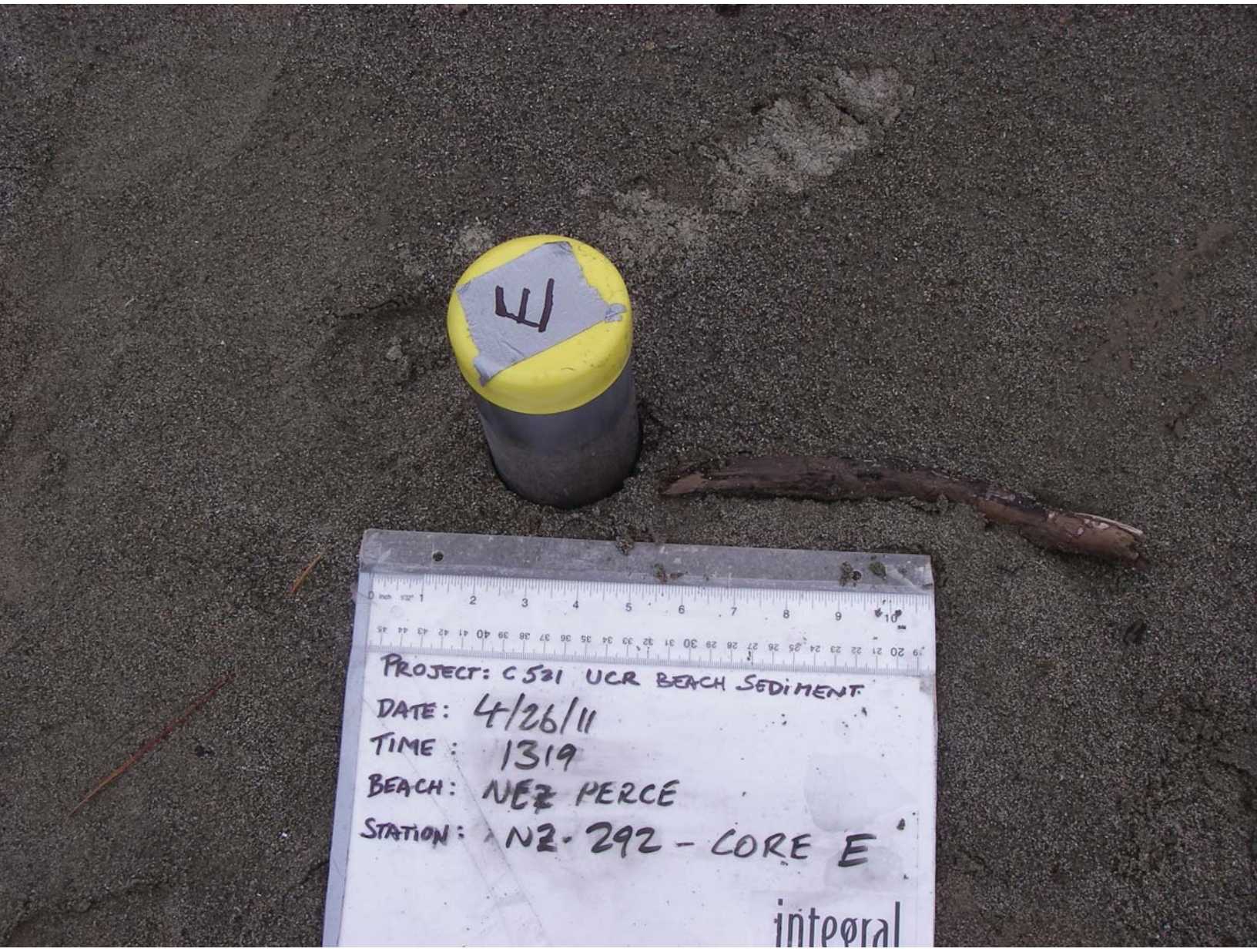

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1523
BEACH: NEZ PERCE CREEK
STATION: CR-NZB / NZ-521


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1523
BEACH: NEZ PERCE CREEK
STATION: GR-NZB / NZ-

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1505
BEACH: NEZ PERCE CREEK
STATION: CR-NZA / NZ-741
integral

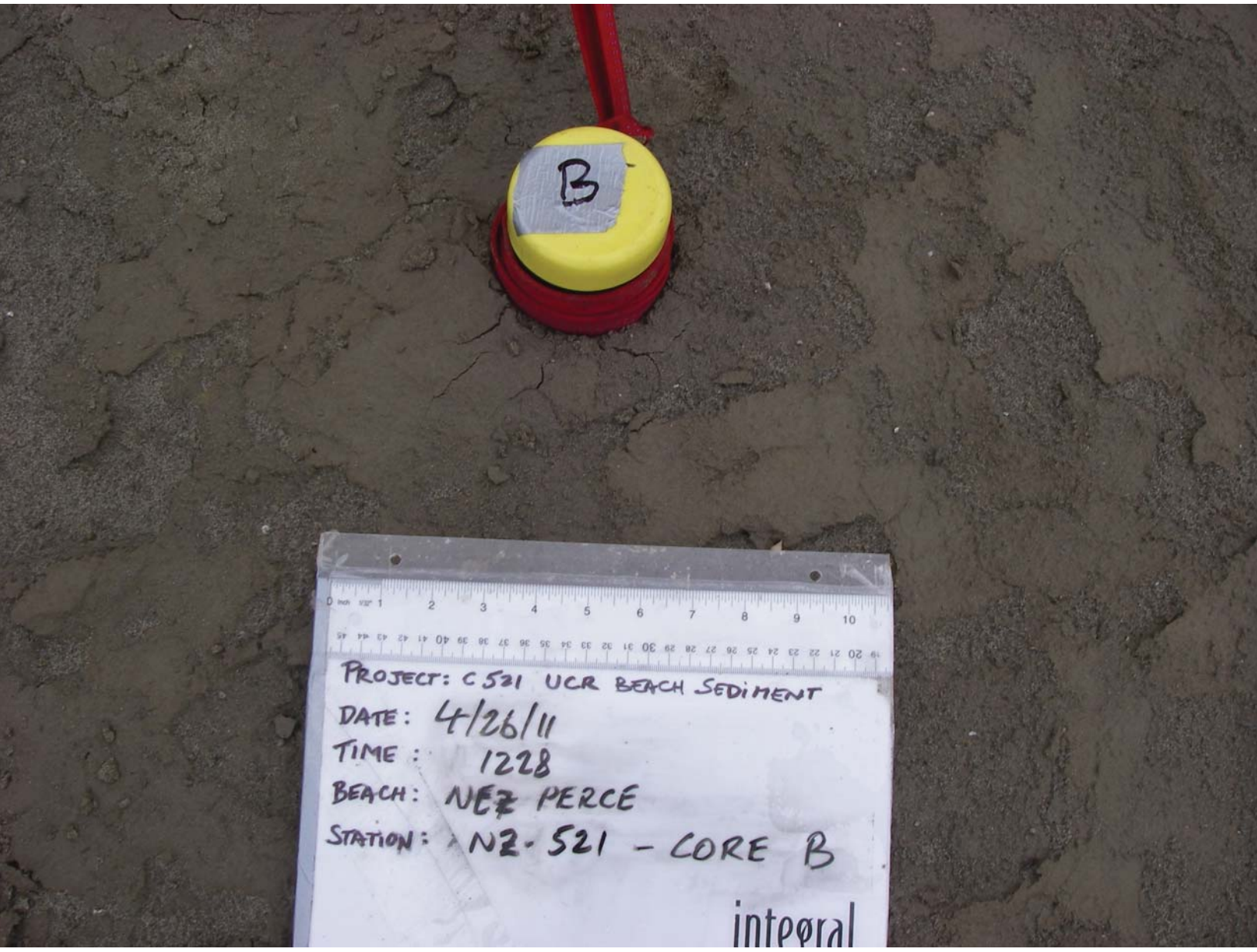
PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1505
BEACH: NEZ PERCE CREEK
STATION: GR-NZA / NZ-741
intgral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1505
BEACH: NEZ PERCE CREEK
STATION: CR-NZA / NZ-741
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1319
BEACH: NEZ PERCE
STATION: NZ-292 - CORE E
integral

D
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1310
BEACH: NEZ PERCE
STATION: NZ-229-CORE C
integral
consulting inc.

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1247
BEACH: NEZ PERCE
STATION: NZ-368 - CORE C
integral
consulting inc.


B
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1228
BEACH: NEZ PERCE
STATION: NZ-521 - CORE B
integral

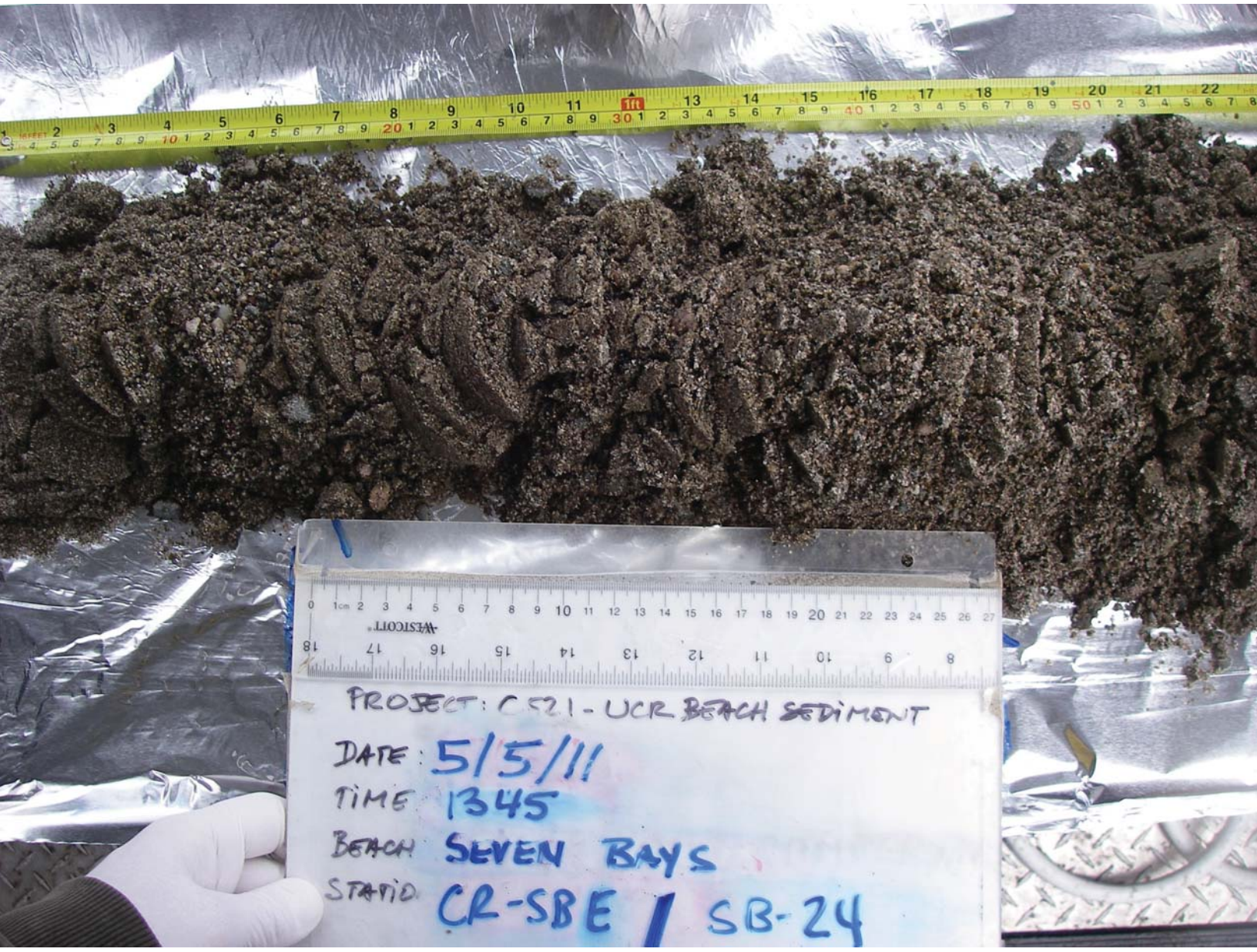
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1213
BEACH: NEZ PERCE
STATION: NZ-714 - CORE A
integral

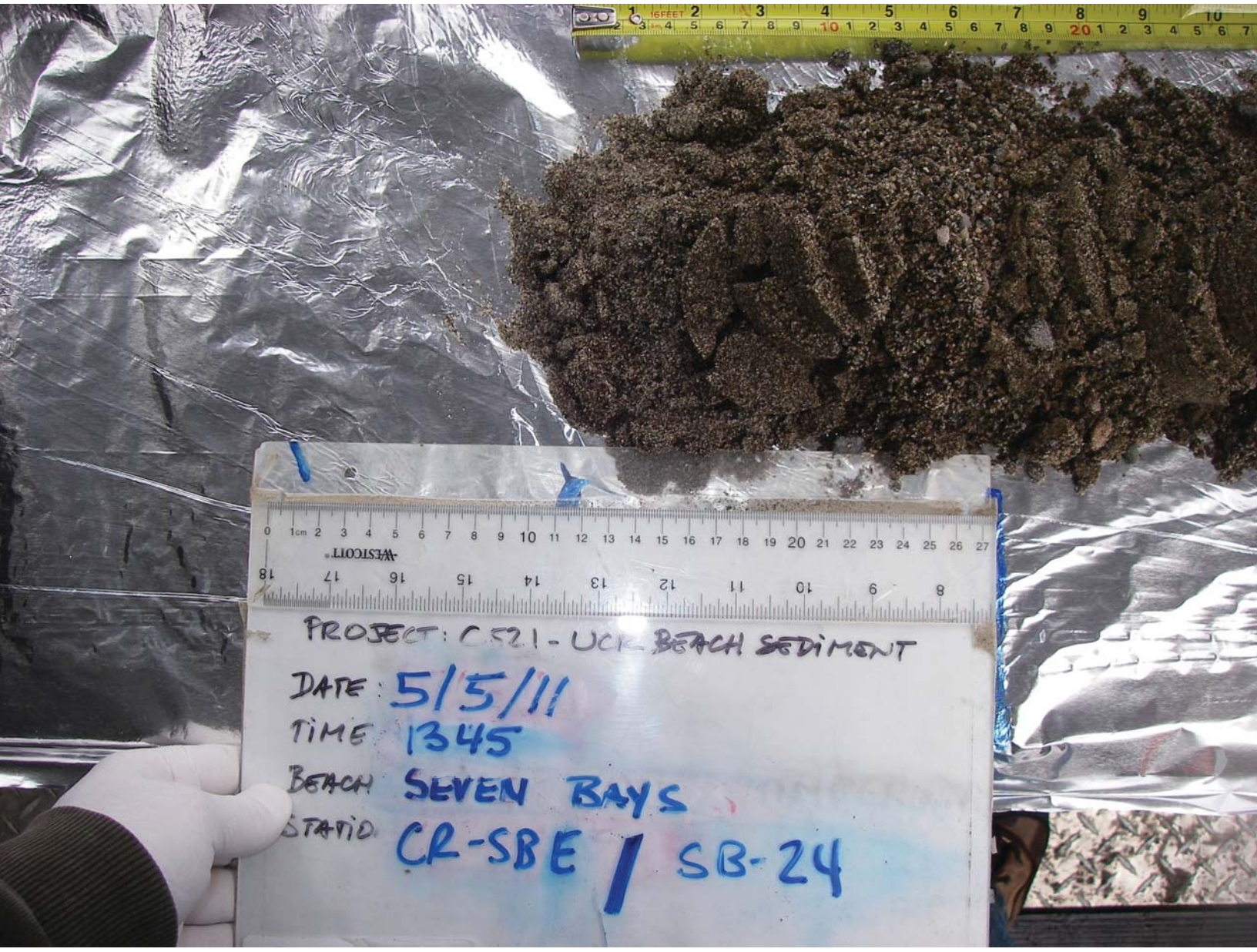
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/26/11
TIME: 1613
BEACH: NEZ PERCE CREEK
STATION: CR-NZE / NZ-192

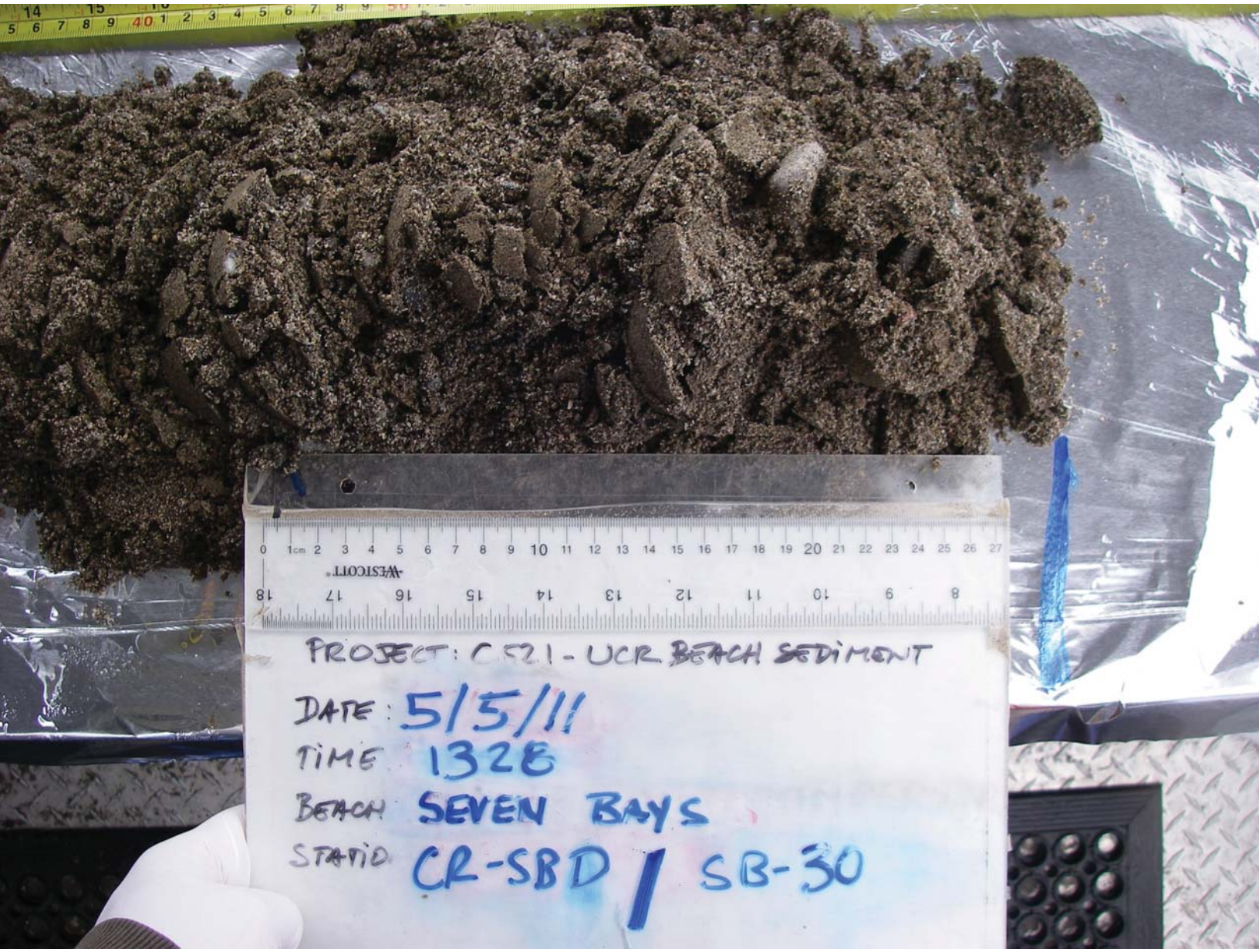
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

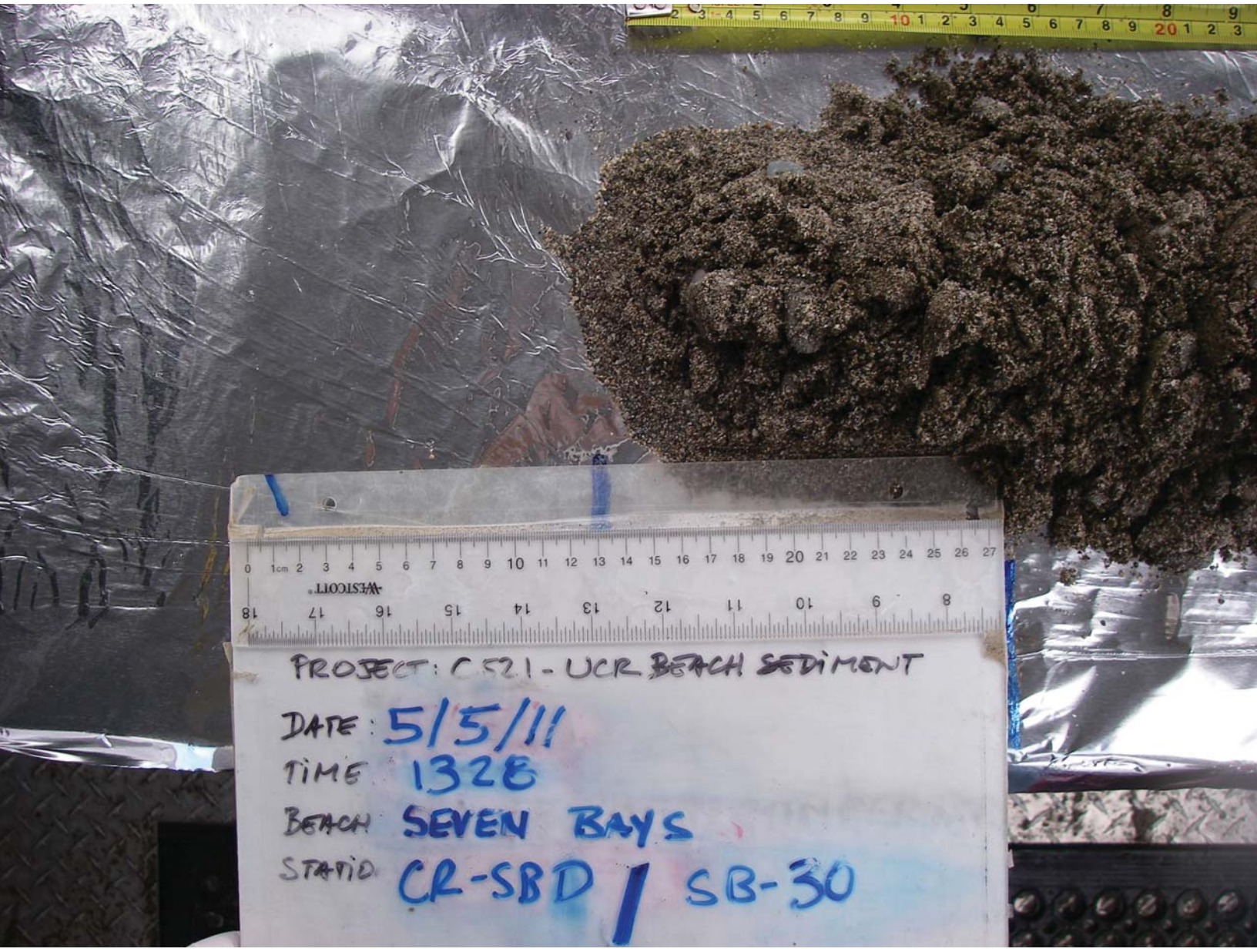
– SEVEN BAYS


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1345
BEACH SEVEN BAYS
STATIO CR-SBE / SB-24


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1345
BEACH: SEVEN BAYS
STATION: CR-SBE / SB-24

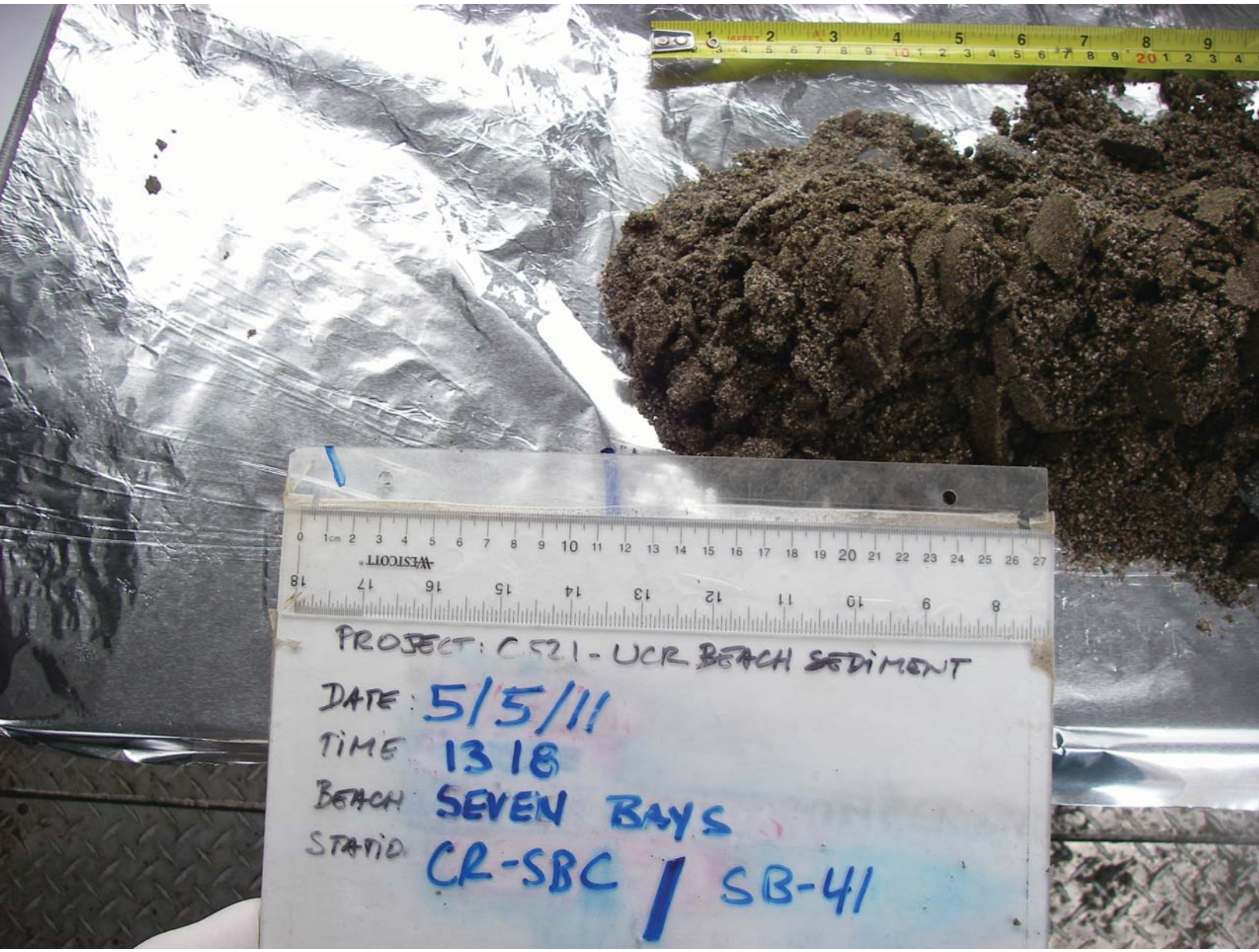

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1328
BEACH SEVEN BAYS
STATIO CR-SBD 1 SB-30

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1328
BEACH SEVEN BAYS
STATIO CR-SBD 1 SB-30


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1328
BEACH SEVEN BAYS
STATIO CR-SBD 1 SB-30

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1318
BEACH SEVEN BAYS
STATION CR-SBC / SB-41

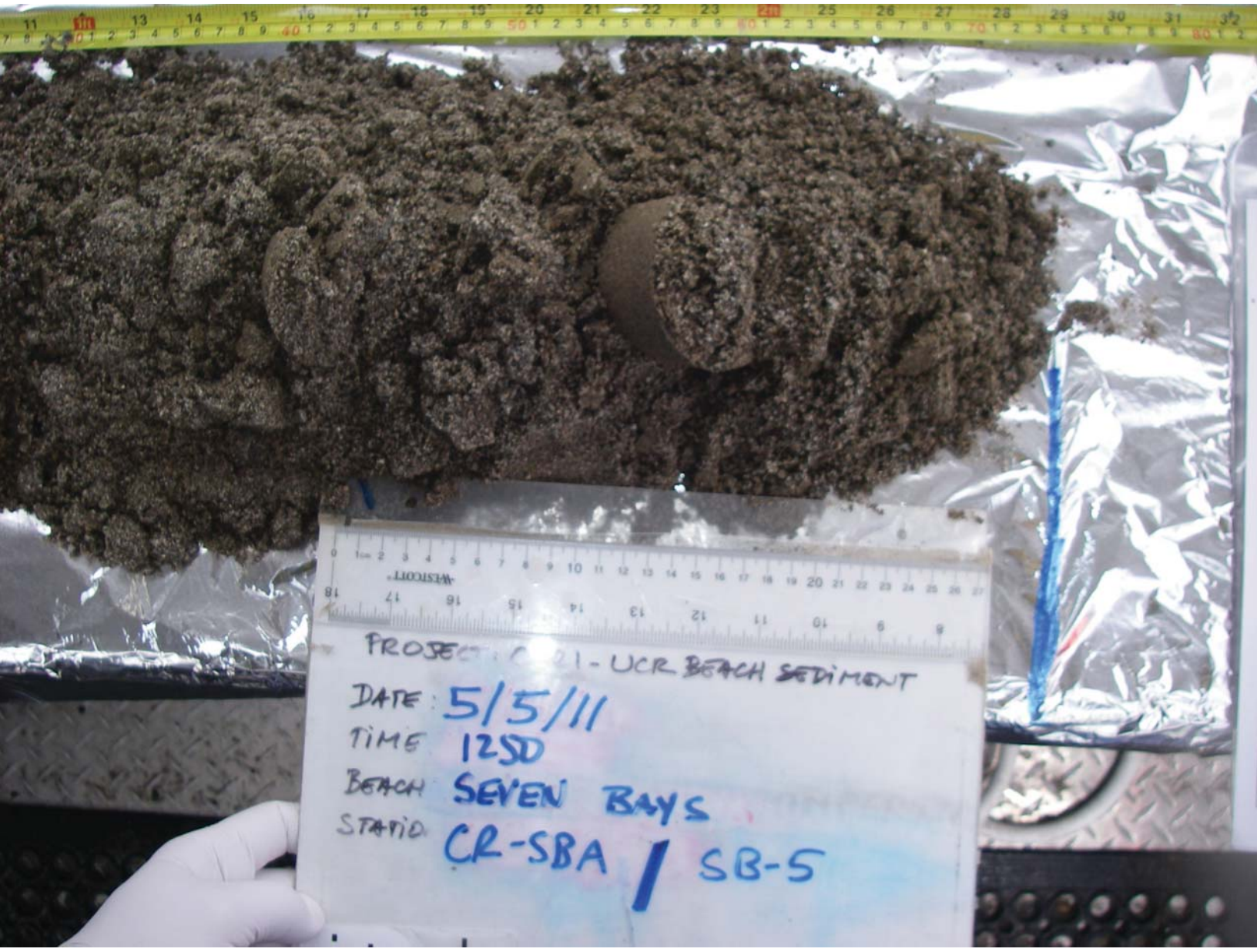
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1318
BEACH SEVEN BAYS
STATION CR-SBC / SB-41


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1318
BEACH SEVEN BAYS
STATIO CR-SBC / SB-41

PROJECT: C[illegible]1 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1305
BEACH: SEVEN BAYS
STATION: CR-SBB / SB-49

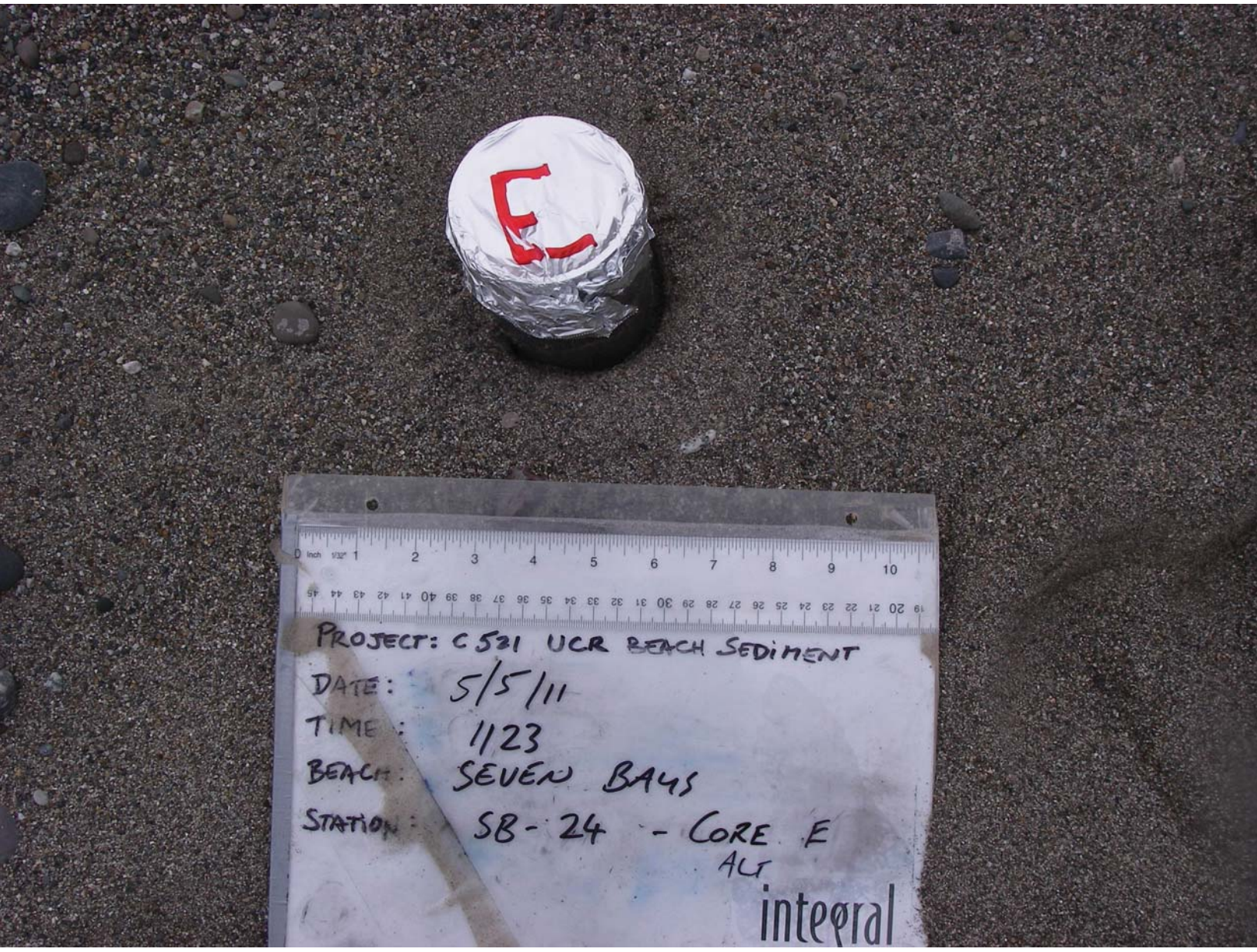
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1305
BEACH SEVEN BAYS
STATIO CR-SBB / SB-49

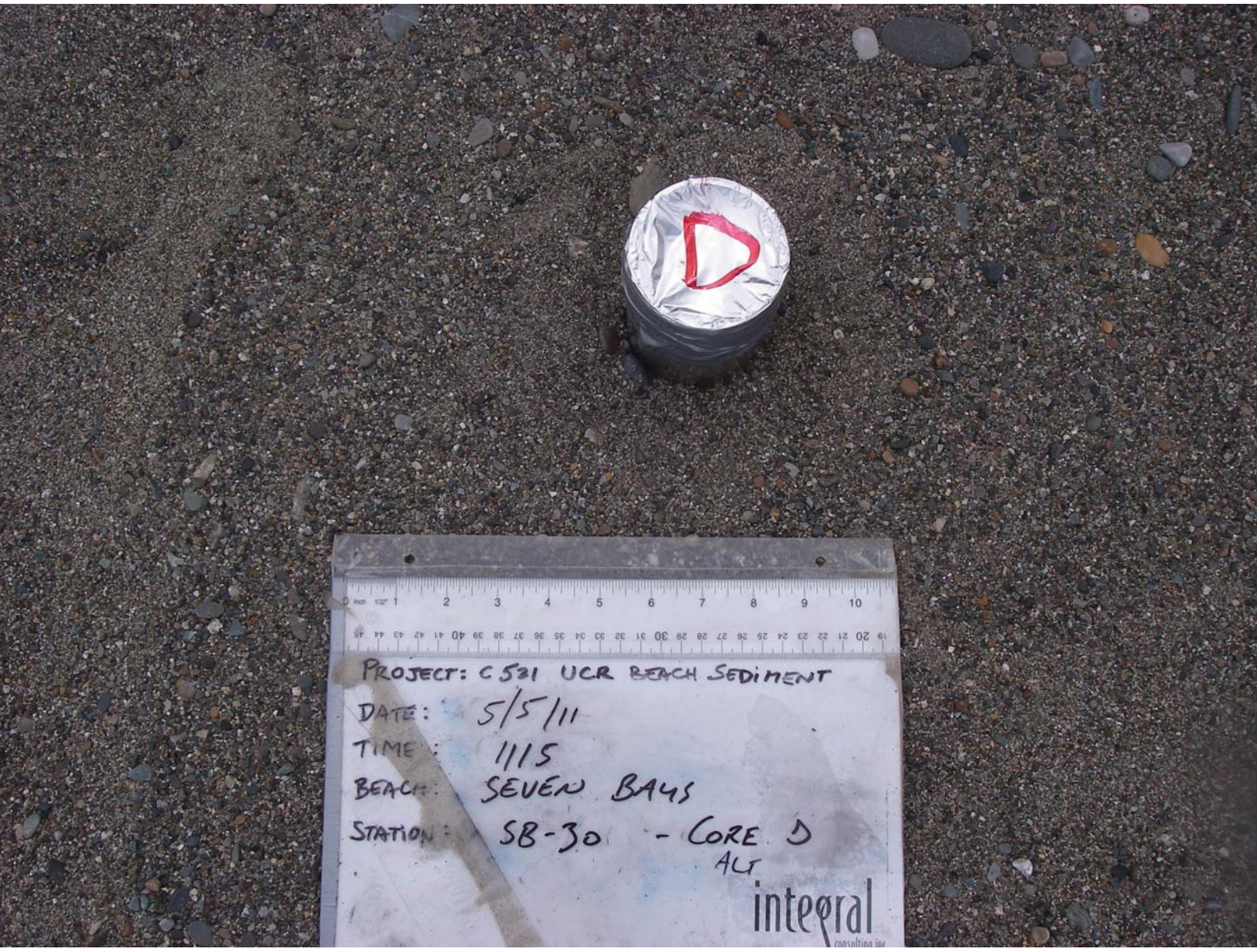
PROJECT: C521 - UCI BEACH SEDIMENT
DATE: 5/5/11
TIME 1305
BEACH SEVEN BAYS
STATION CR-SBB / SB-49

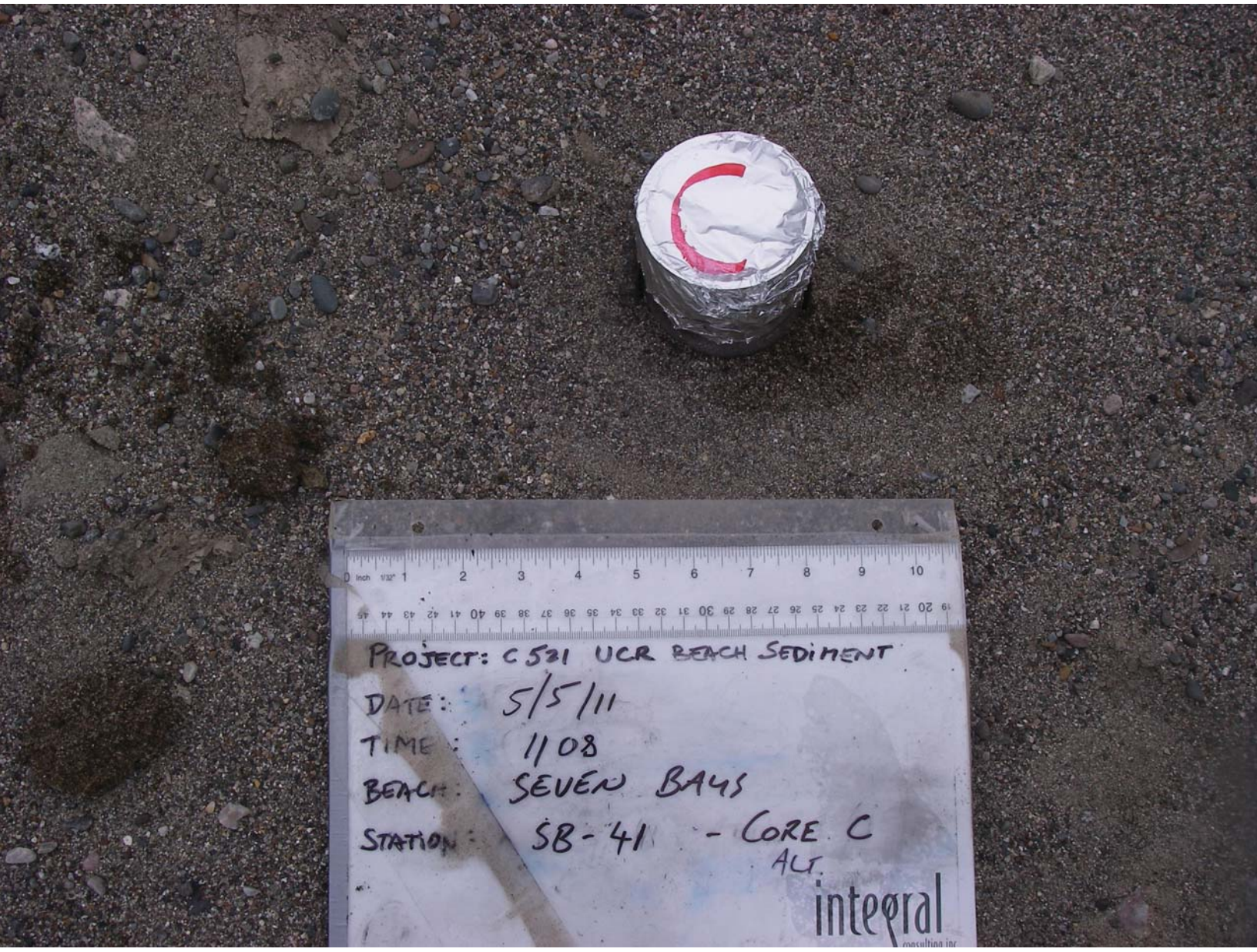

PROJECT: 21 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1250
BEACH SEVEN BAYS
STATION CR-SBA / SB-5

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1250
BEACH SEVEN BAYS
STATIO CR-SBA / SB-5

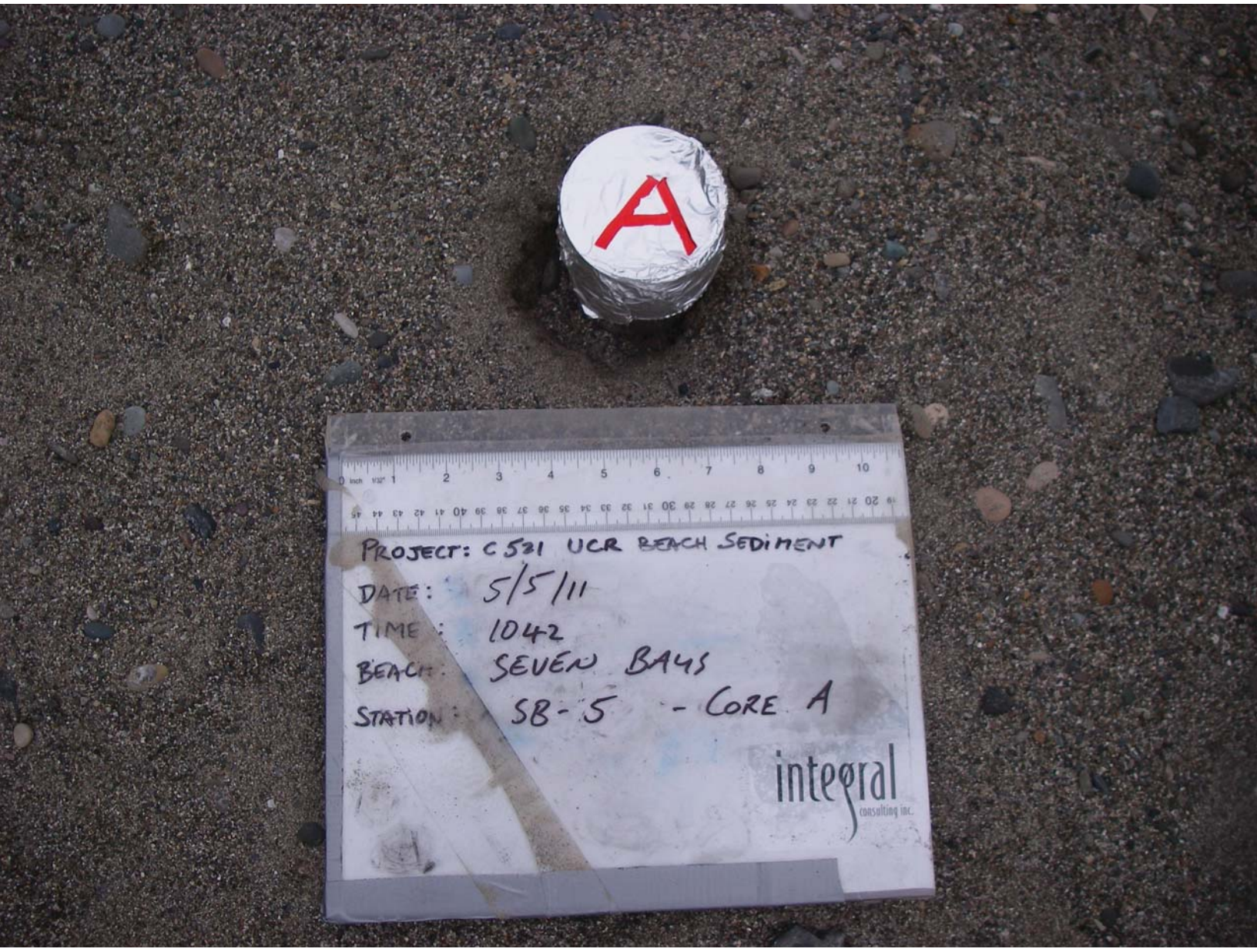
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1250
BEACH SEVEN BAYS
STATIO CR-SBA / SB-5


E
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1123
BEACH: SEVEN BAYS
STATION: SB-24 - CORE E
ALT
integral


D
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1115
BEACH: SEVEN BAYS
STATION: SB-30 - CORE D
ALT
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1108
BEACH: SEVEN BAYS
STATION: SB-41 - CORE C
ALT.
integral
consulting inc

B
PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1103
BEACH: SEVEN BAYS
STATION: SB-49 - CORE B
ALT
integral
consulting inc.


A
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/5/11
TIME: 1042
BEACH: SEVEN BAYS
STATION: SB-5 - CORE A
integral
consulting inc.

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/5/11
TIME 1345
BEACH SEVEN BAYS
STATIO CR-SBE / SB-24

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– SPRING CANYON

145
15
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core E SC-91
Time: 1310
Interval: 15-45 cm

115
10
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core E SC-71
Time: 1300
Interval: 0-15 cm

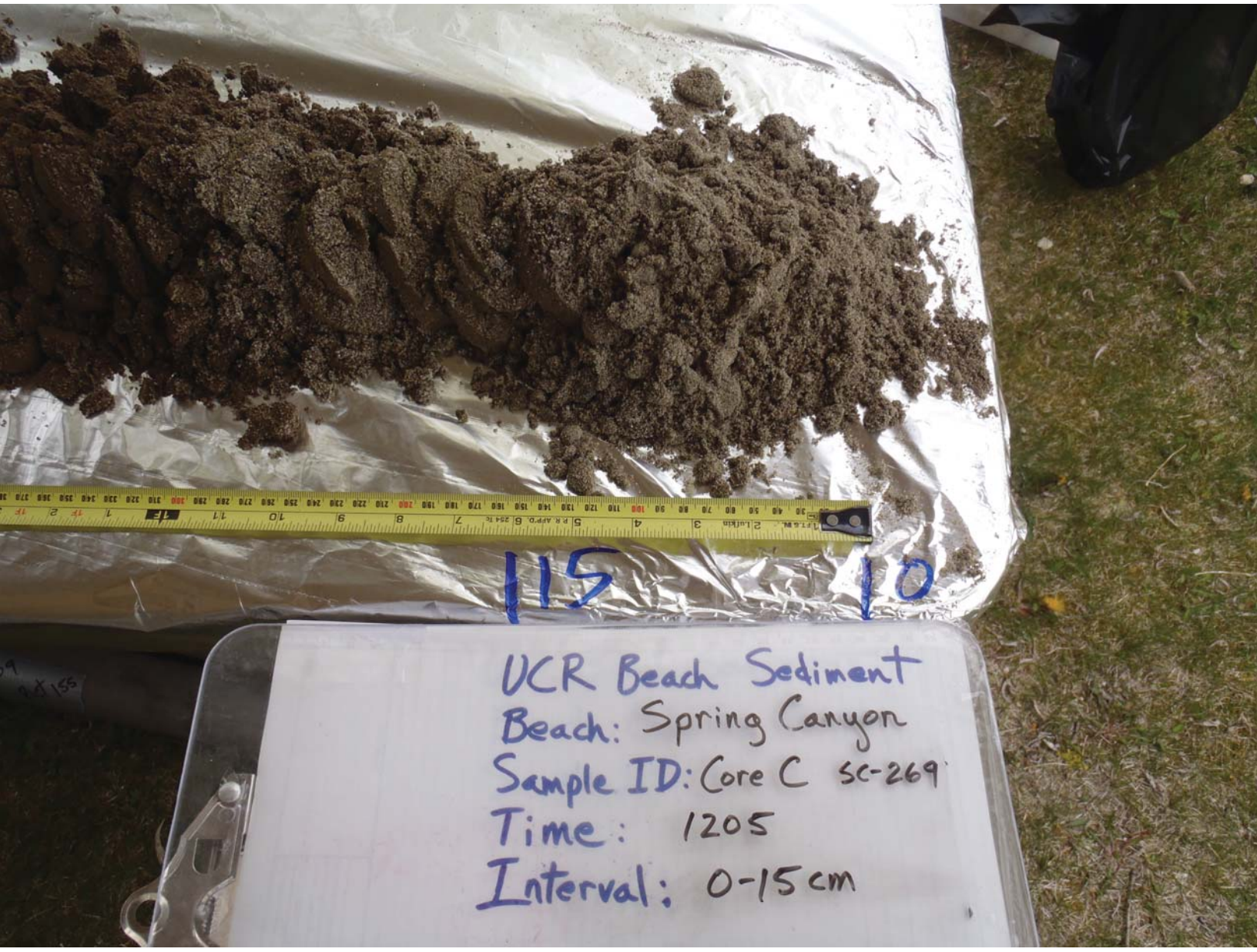
75
45
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core D SC-242
Time: 1250
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core D SC-242
Time: 1240
Interval: 15-45 cm

115
10
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core D SC-242
Time: 1230
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core C SC-269
Time: 1220
Interval: 45-75 cm

UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core C SC-269
Time: 1215
Interval: 15-45 cm


115
10
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core C SC-269
Time: 1205
Interval: 0-15 cm

RK624
175
145
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core B SC-165
Time: 1150
Interval: 45-75 cm

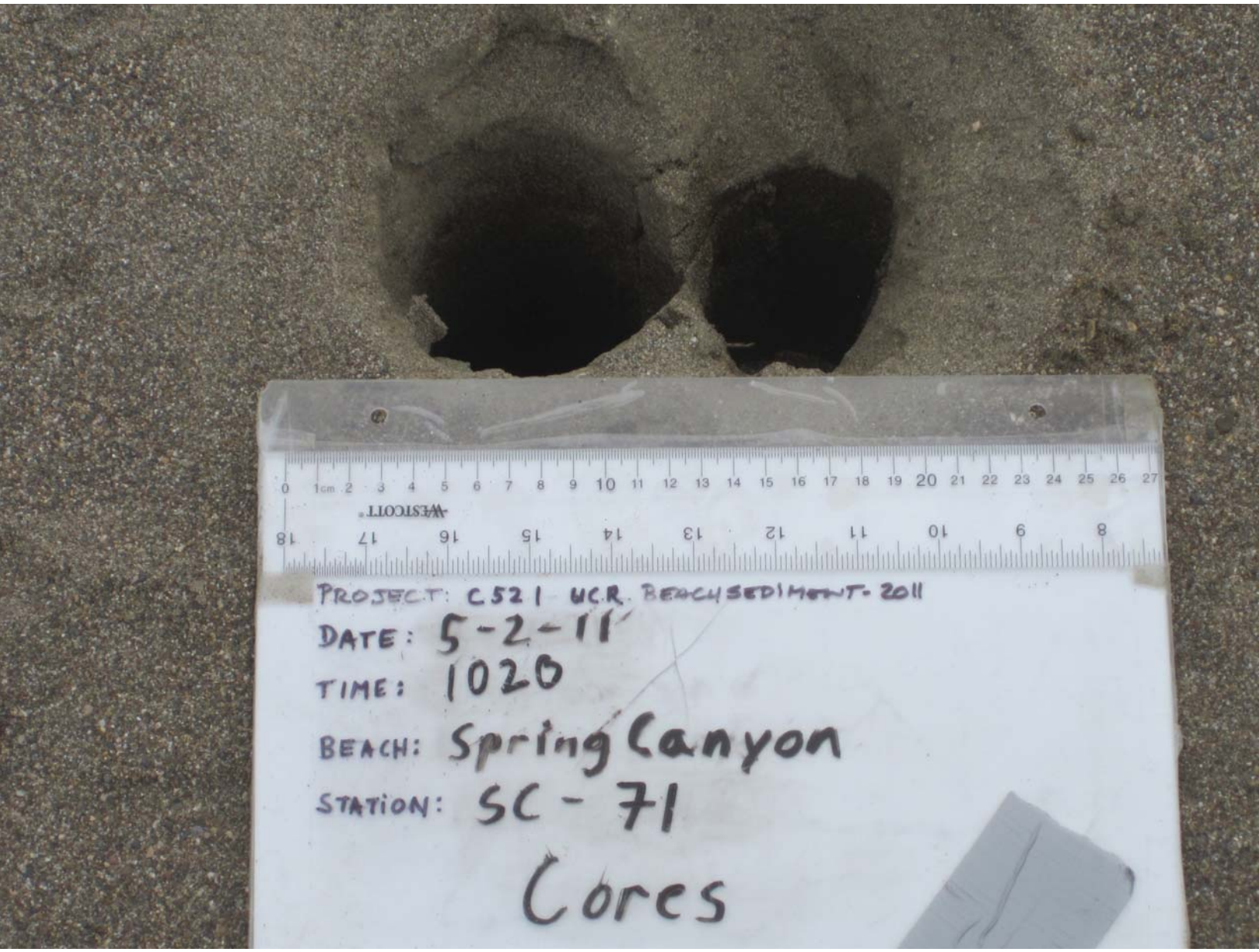
145
15
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core B SC-165
Time: 1140
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core B SC-165
Time: 1130
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core A SC-209
Time: 1120
Interval: 45-75 cm

45
15
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core A SC-209
Time: 1110
Interval: 15-45 cm

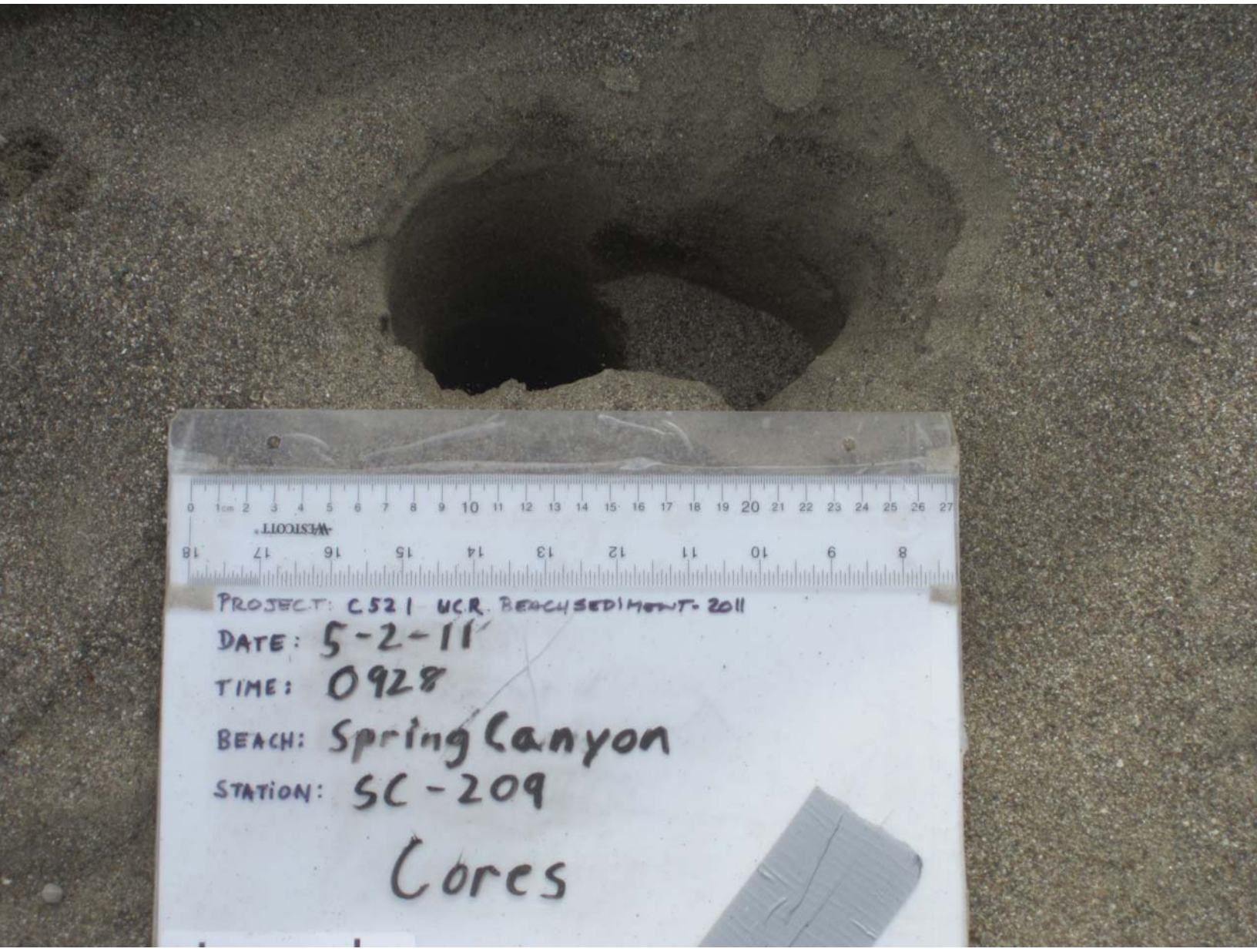
15
10
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core A SC-209
Time: 1100
Interval: 0-15 cm


PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-2-11
TIME: 1020
BEACH: Spring Canyon
STATION: SC-71
Cores

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-2-11
TIME: 1009
BEACH: Spring Canyon
STATION: SC-242
Cores
integral

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-2-11
TIME: 0957
BEACH: Spring Canyon
STATION: SC-269
Cores

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-2-11
TIME: 0943
BEACH: Spring Canyon
STATION: SC-165
Cores

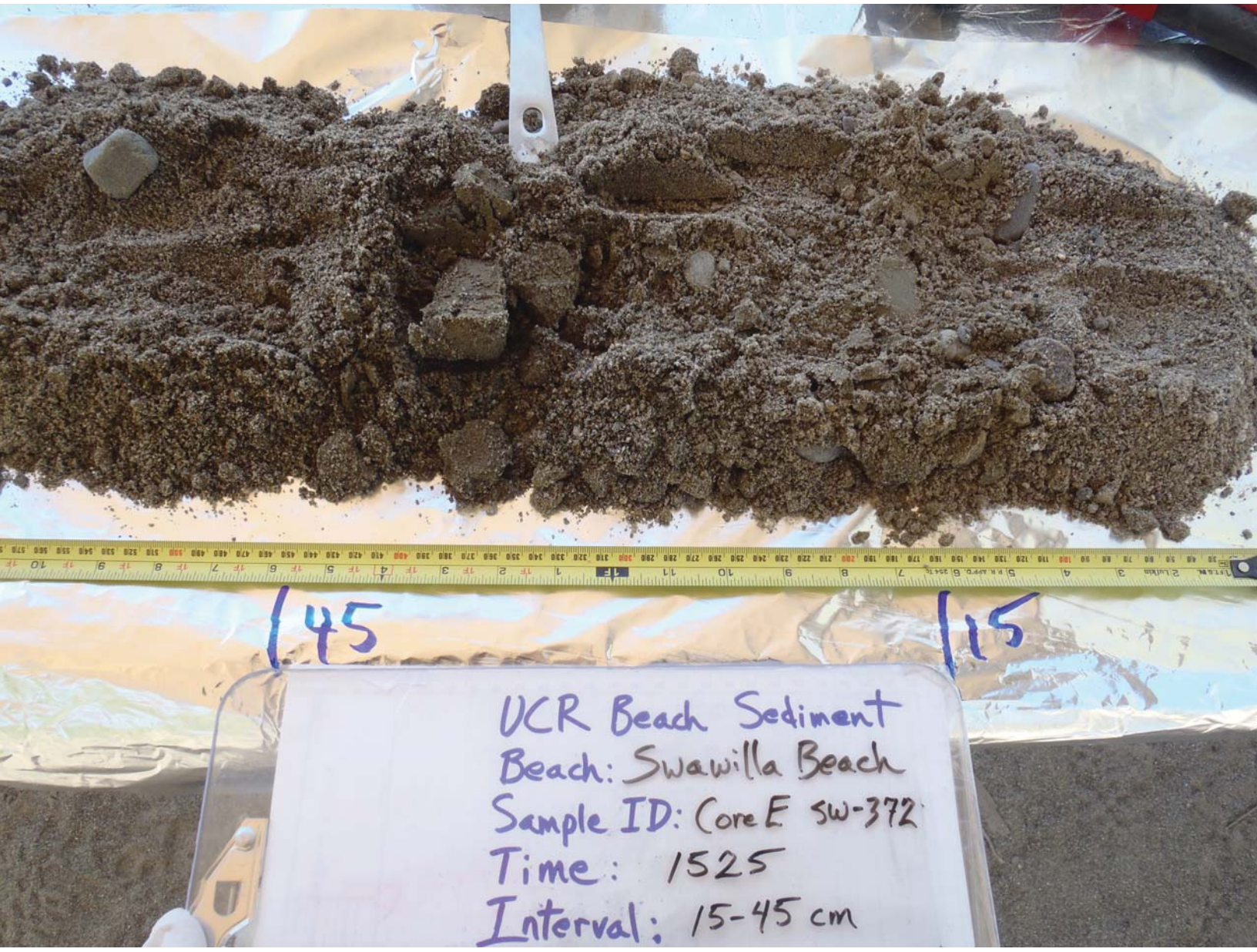

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-2-11
TIME: 0928
BEACH: Spring Canyon
STATION: SC-209
Cores

175
145
UCR Beach Sediment
Beach: Spring Canyon
Sample ID: Core E SC-71
Time: 1320
Interval: 45-75cm

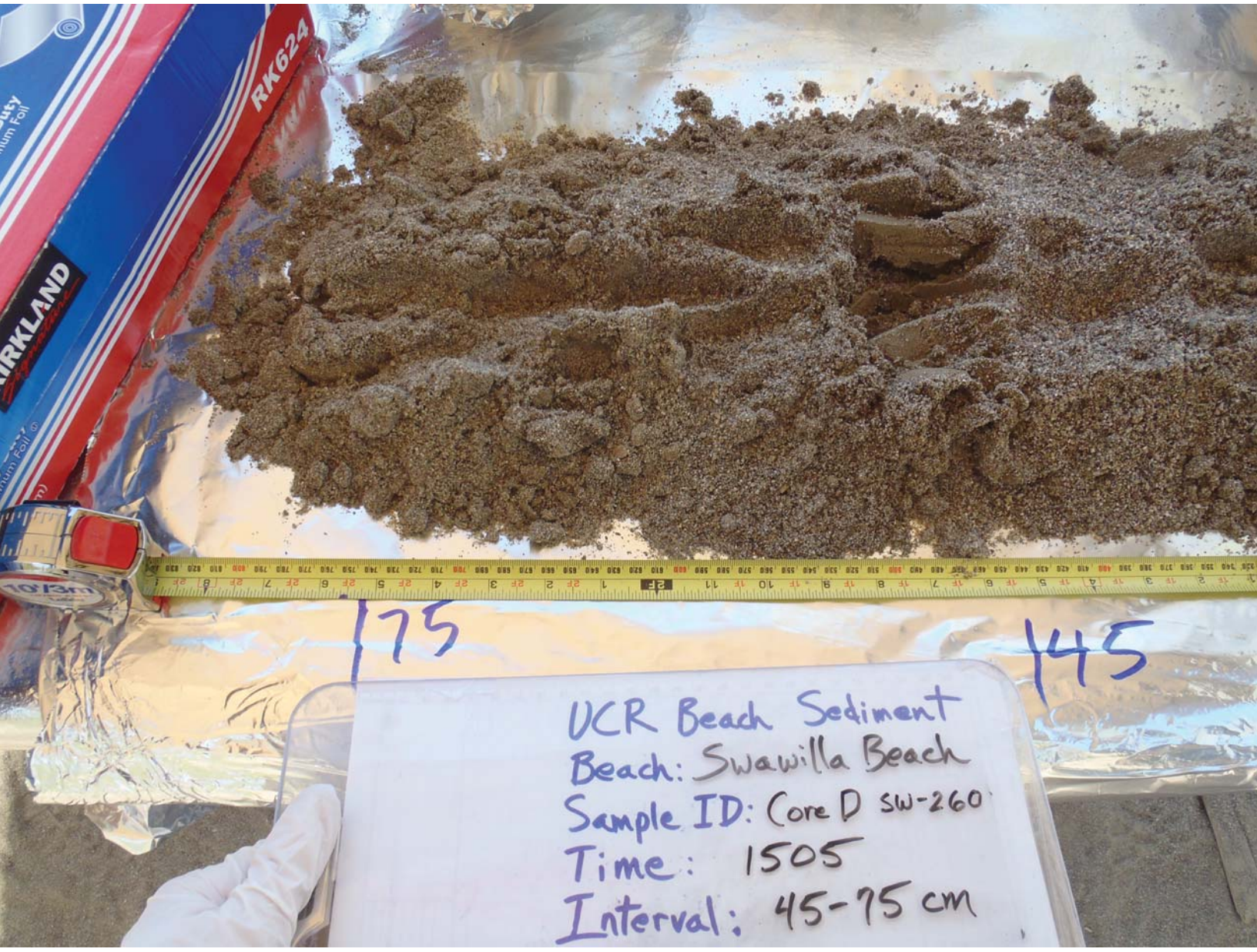
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– SWAWILLA


45
15
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core E SW-372
Time: 1525
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core E SW-372
Time: 1515
Interval: 0-15 cm

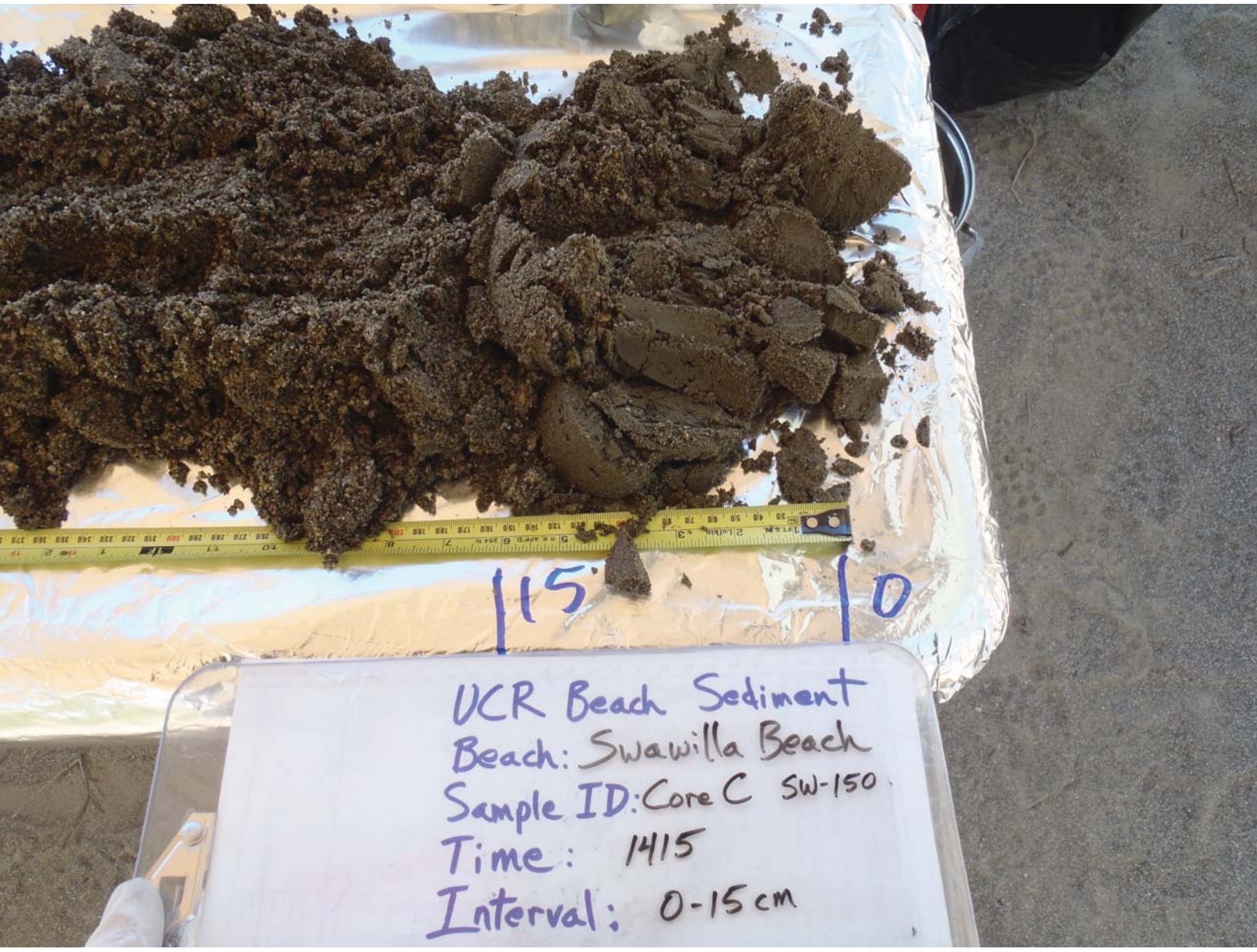

RK624
KIRKLAND
175
145
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core D SW-260
Time: 1505
Interval: 45-75 cm

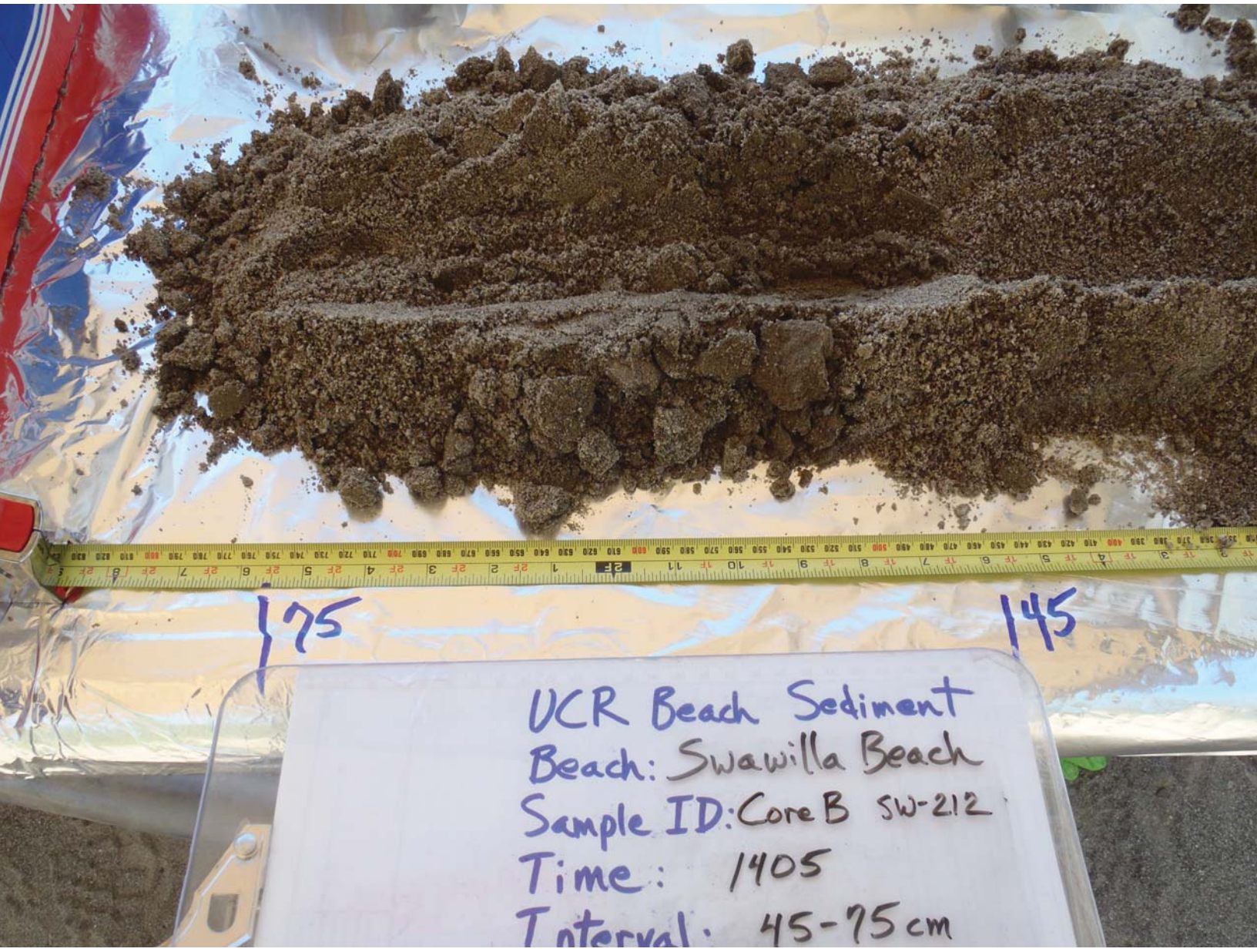
145
15
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core D SW-260
Time: 1455
Interval: 15-45 cm

15
10
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core D SW-260
Time: 1445
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core C SW-150
Time: 1435
Interval: 45-75 cm

145
15
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core C SW-150
Time: 1425
Interval: 15-45 cm


15
10
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core C SW-150
Time: 1415
Interval: 0-15 cm


175
145
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core B SW-212
Time: 1405
Interval: 45-75 cm

145
15
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core B SW-212
Time: 1355
Interval: 15-45 cm

15
0
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core B SW-212
Time: 1345
Interval: 0-15 cm

175
145
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core A SW-248
Time: 1335
Interval: 45-75 cm

145
115
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core A SW-248
Time: 1325
Interval: 15-45 cm

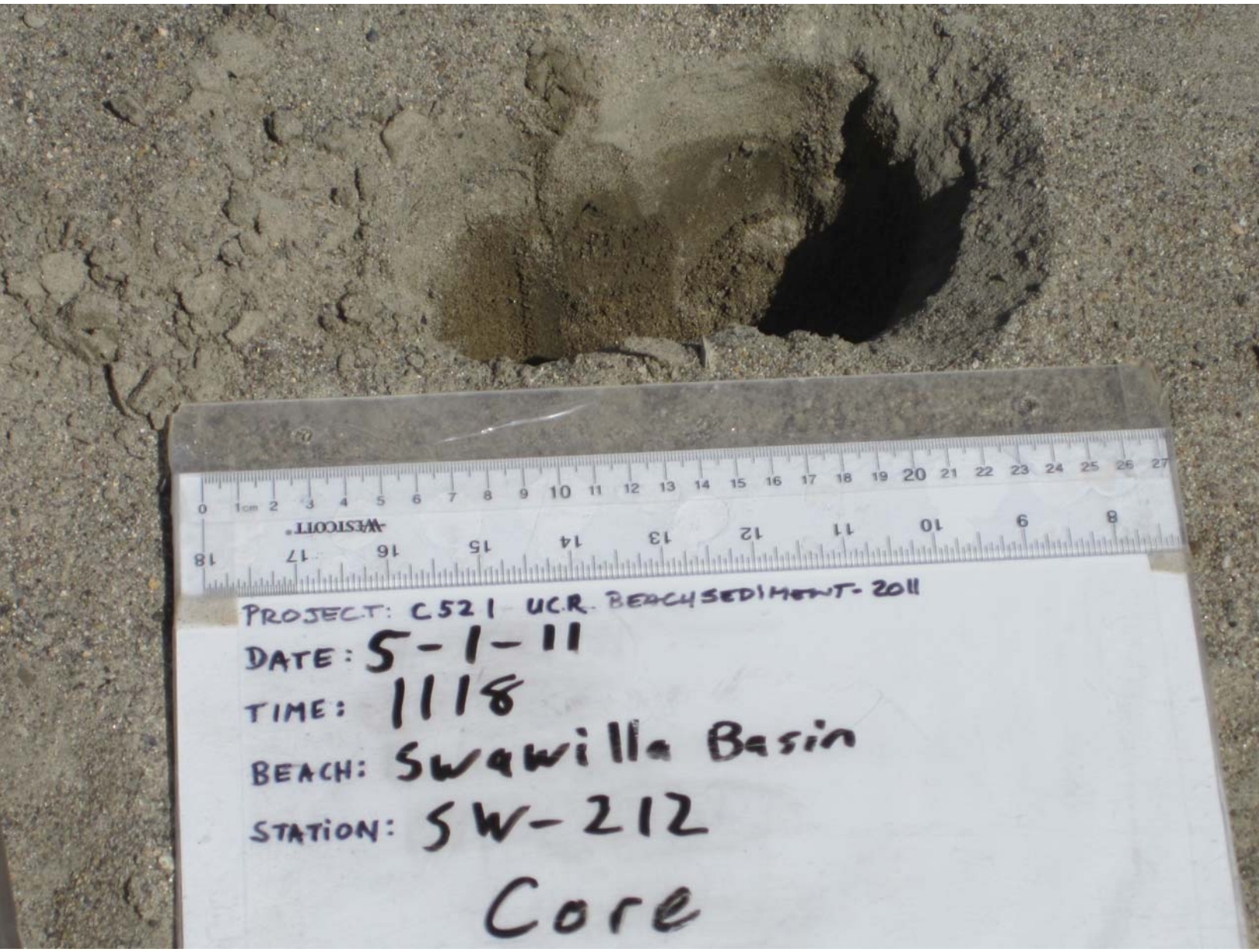
115
10
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core A SW-248
Time: 1315
Interval: 0-15 cm

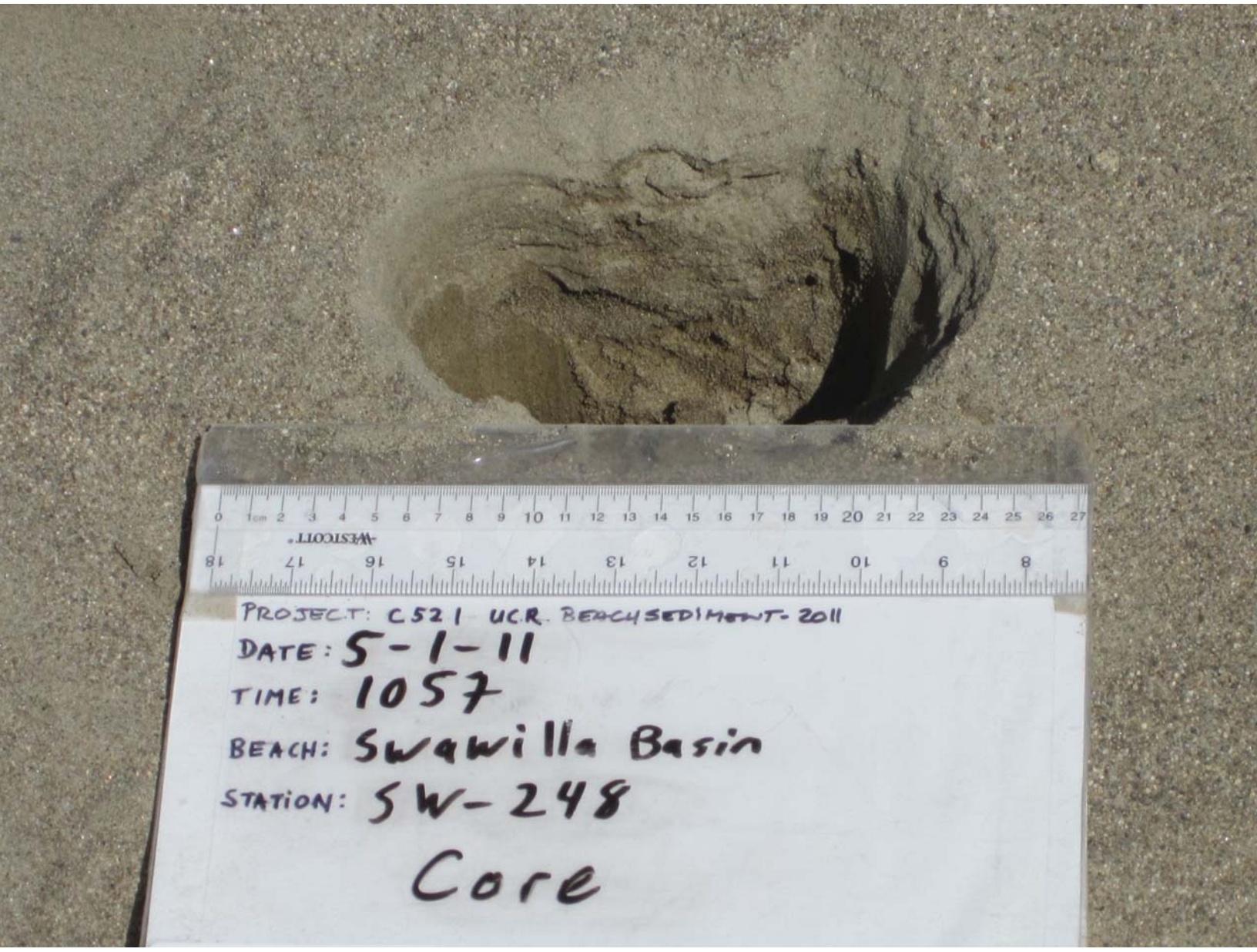
PROJECT: C521 UCR BEACHSEDIMENT-2011
DATE: 5-1-11
TIME: 1243
BEACH: Swawilla Basin
STATION: SW-372
Core

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-1-11
TIME: 1200
BEACH: Swawilla Basin
STATION: SW-260
Core

SW-150 (2) 1146
Core
Pic# 137
SW-150 @ 1150
Core
Pic# 136

PROJECT: C521 UCR BEACH SEDIMENT- 2011
DATE: 5-1-11
TIME: 1130
BEACH: Swawilla Basin
STATION: SW-150
Core


PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-1-11
TIME: 1118
BEACH: Swawilla Basin
STATION: SW-212
Core


PROJECT: C521 UCR BEACH SEDIMENT-2011
DATE: 5-1-11
TIME: 1057
BEACH: Swawilla Basin
STATION: SW-248
Core

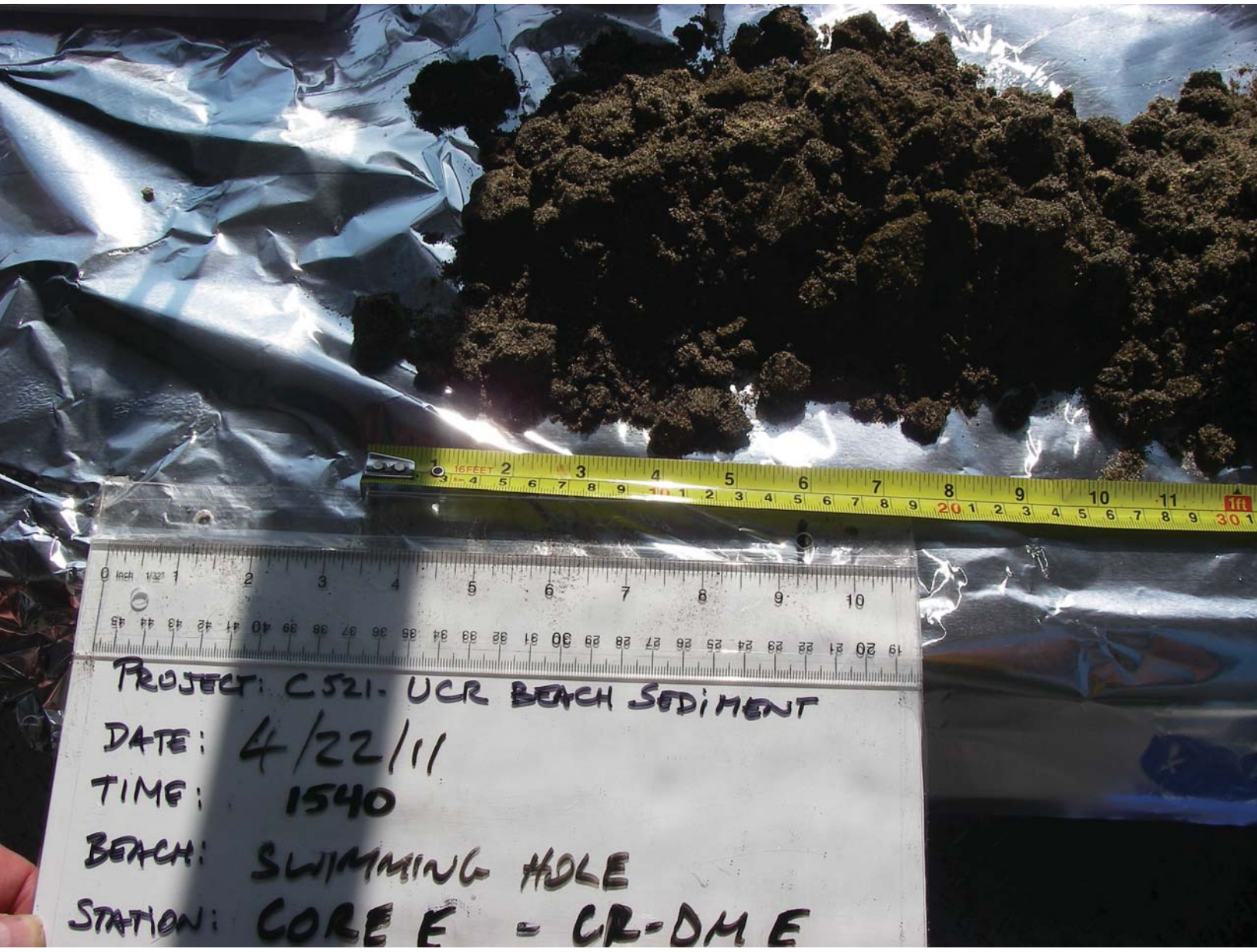
175
145
UCR Beach Sediment
Beach: Swawilla Beach
Sample ID: Core E SW-372
Time: 1535
Interval: 45-75cm

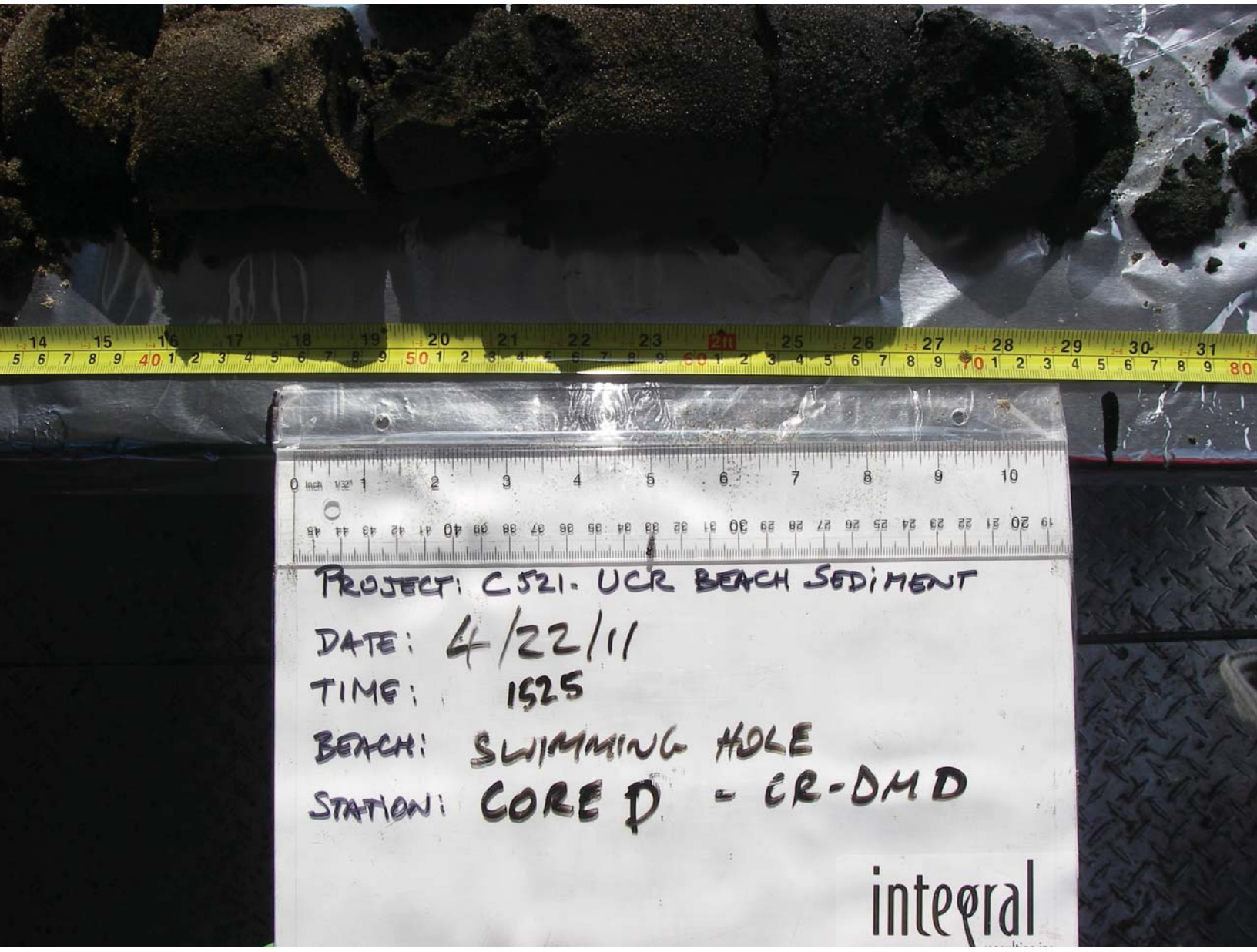
APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– SWIMMING HOLE

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1540
BEACH: SWIMMING HOLE
STATION: CORE E - CR-DM E

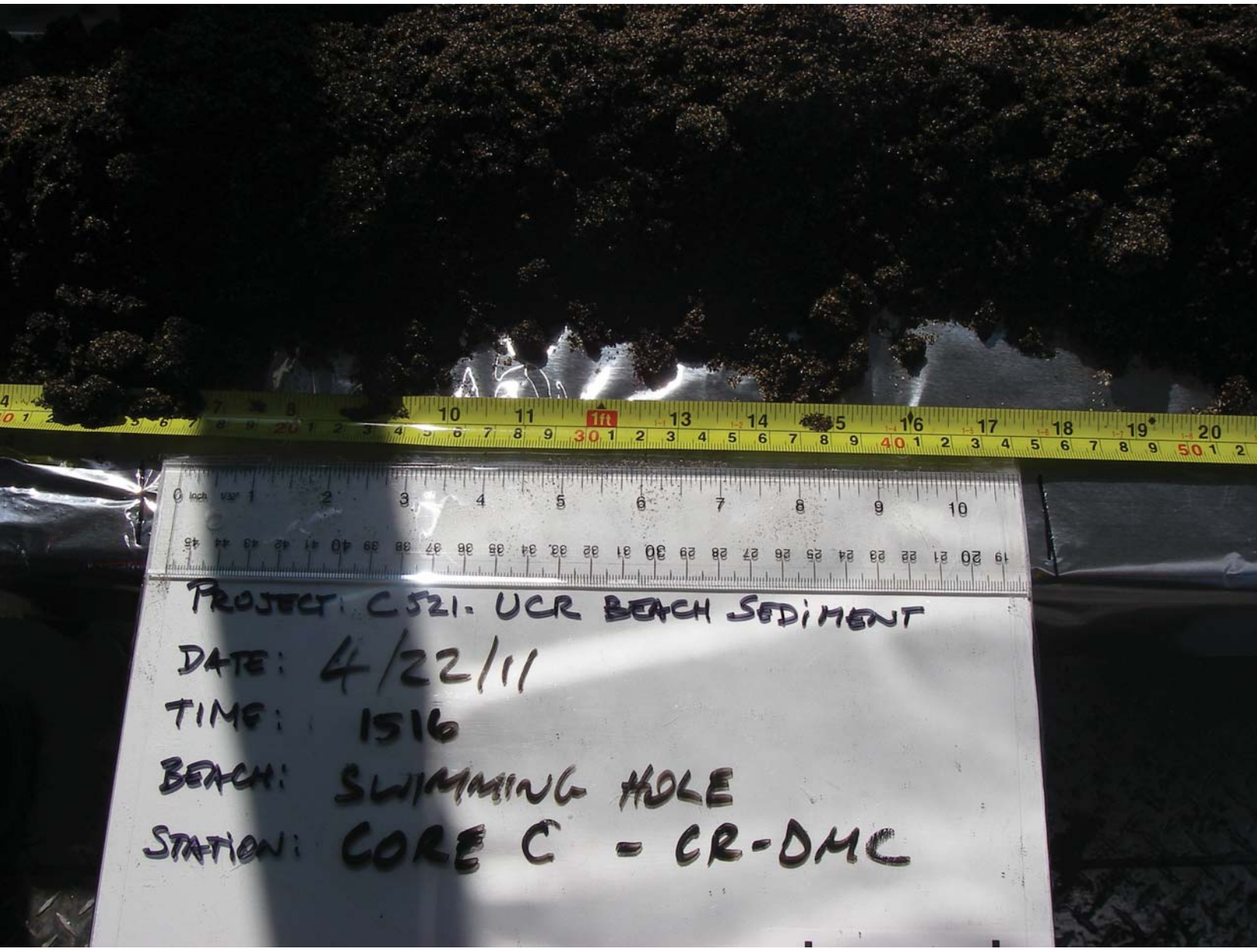

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1540
BEACH: SWIMMING HOLE
STATION: CORE E - CR-DM E


PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1525
BEACH: SWIMMING HOLE
STATION: CORE D - CR-DMD
integral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1525
BEACH: SWIMMING HOLE
STATION: CORE D - CR-DMD

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1525
BEACH: SWIM HOLE
STATION: CORE D - CR-DMD

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1516
BEACH: SWIMMING HOLE
STATION: CORE C - CR-DMC
integral


PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1516
BEACH: SWIMMING HOLE
STATION: CORE C - CR-DMC

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1516
BEACH: SWIMMING HOLE
STATION: CORE C - CR-DMC
intøgral

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1511
BEACH: SWIMMING HOLE
STATION: CORE B - CR-DMB

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/1
TIME: 1511
BEACH: SWIMMING HOLE
STATION: CORE 8 - CR-DMB

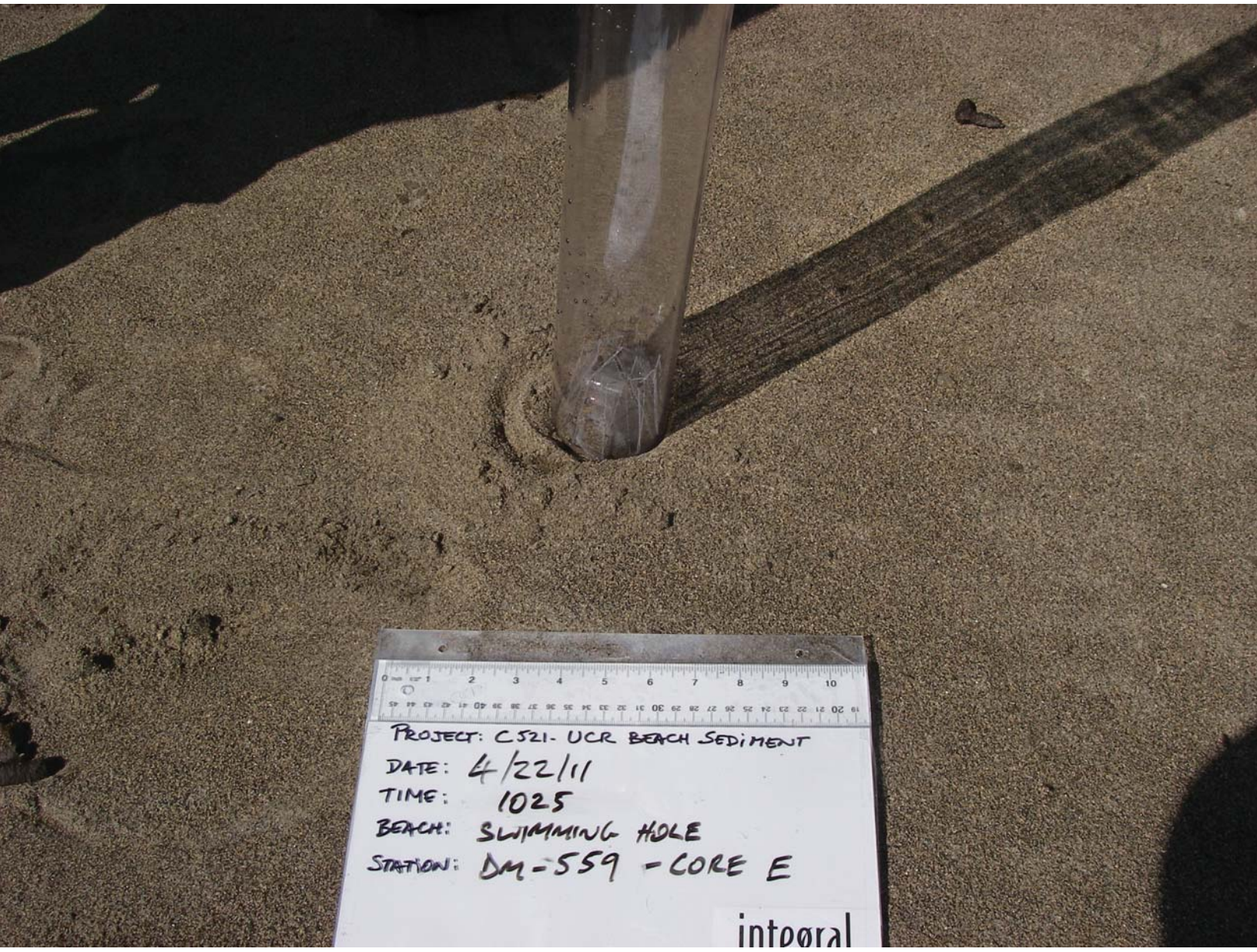
PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1511
BEACH: SWIMMING HOLE
STATION: CORE 8 - CR-DMB

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1430
BEACH: SWIMMING HOLE
STATION: CORE A - CR-DMA

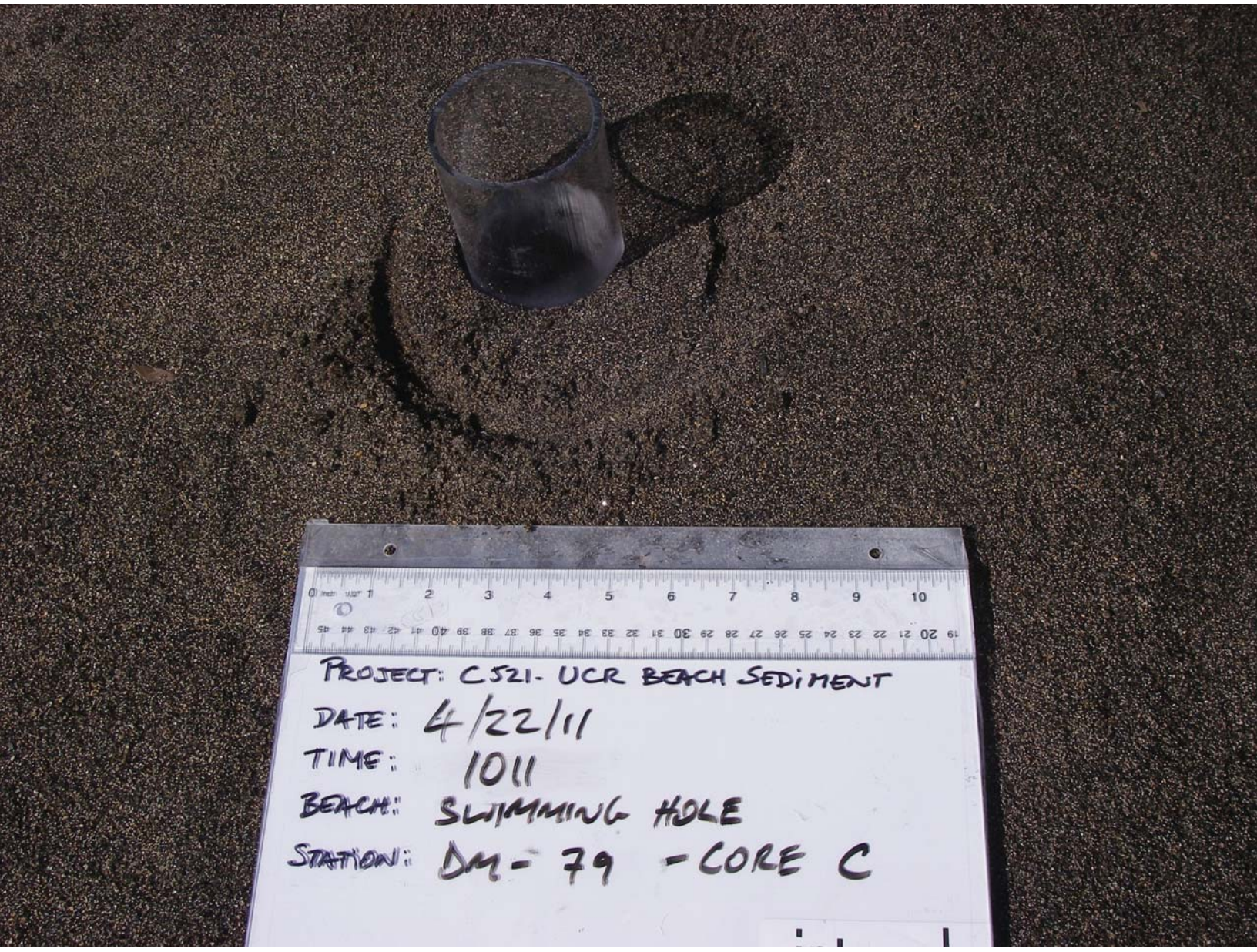
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1430
BEACH: SWIMMING HOLE
STATION: CORE A - CR-DMA
DMA

PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1430
BEACH: SWIMMING HOLE
STATION: CORE A - CR-DMA
DMA-2

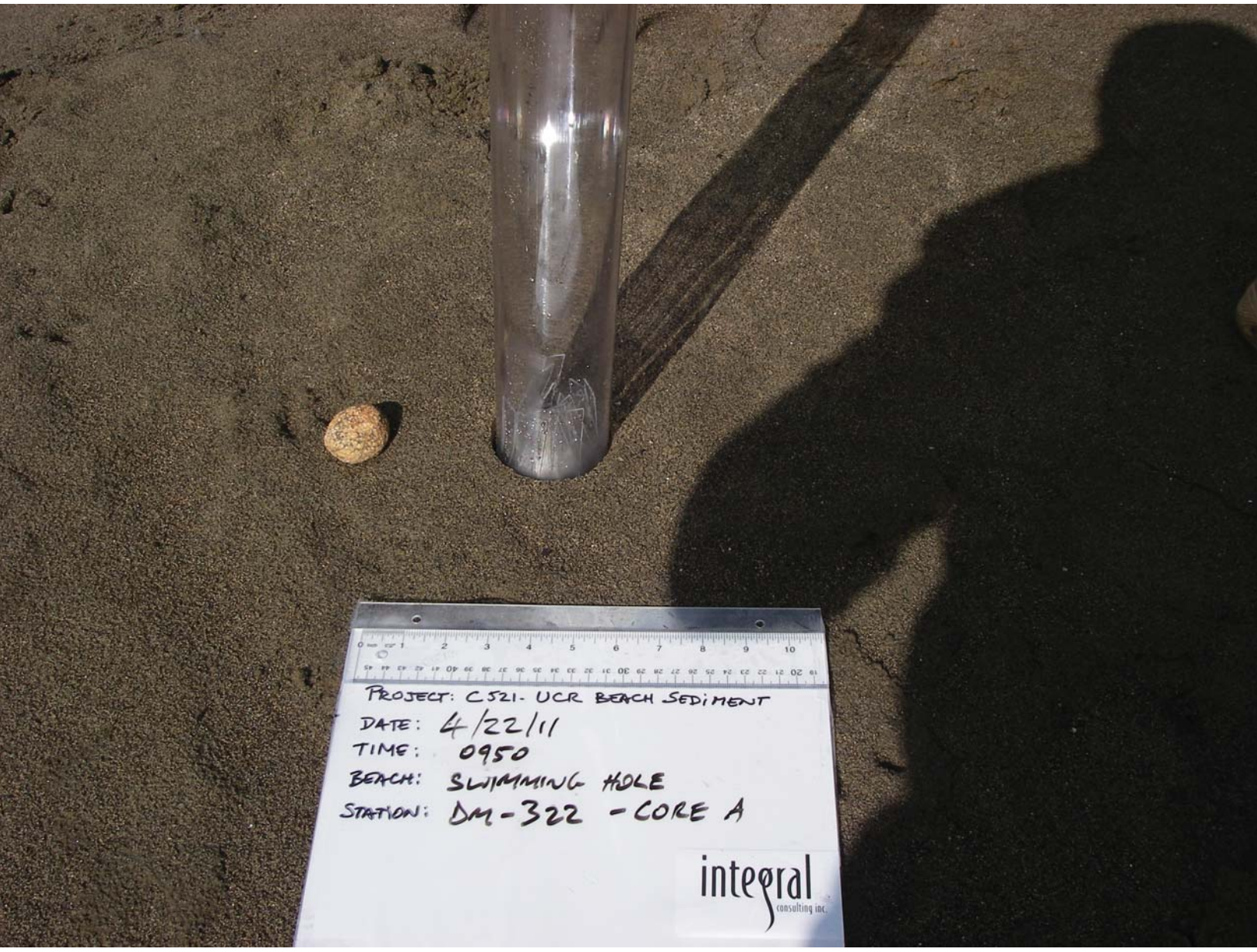
PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1048
BEACH: SWIMMING HOLE
STATION: DM-532 - CORE A-ALT
integral
consulting inc.

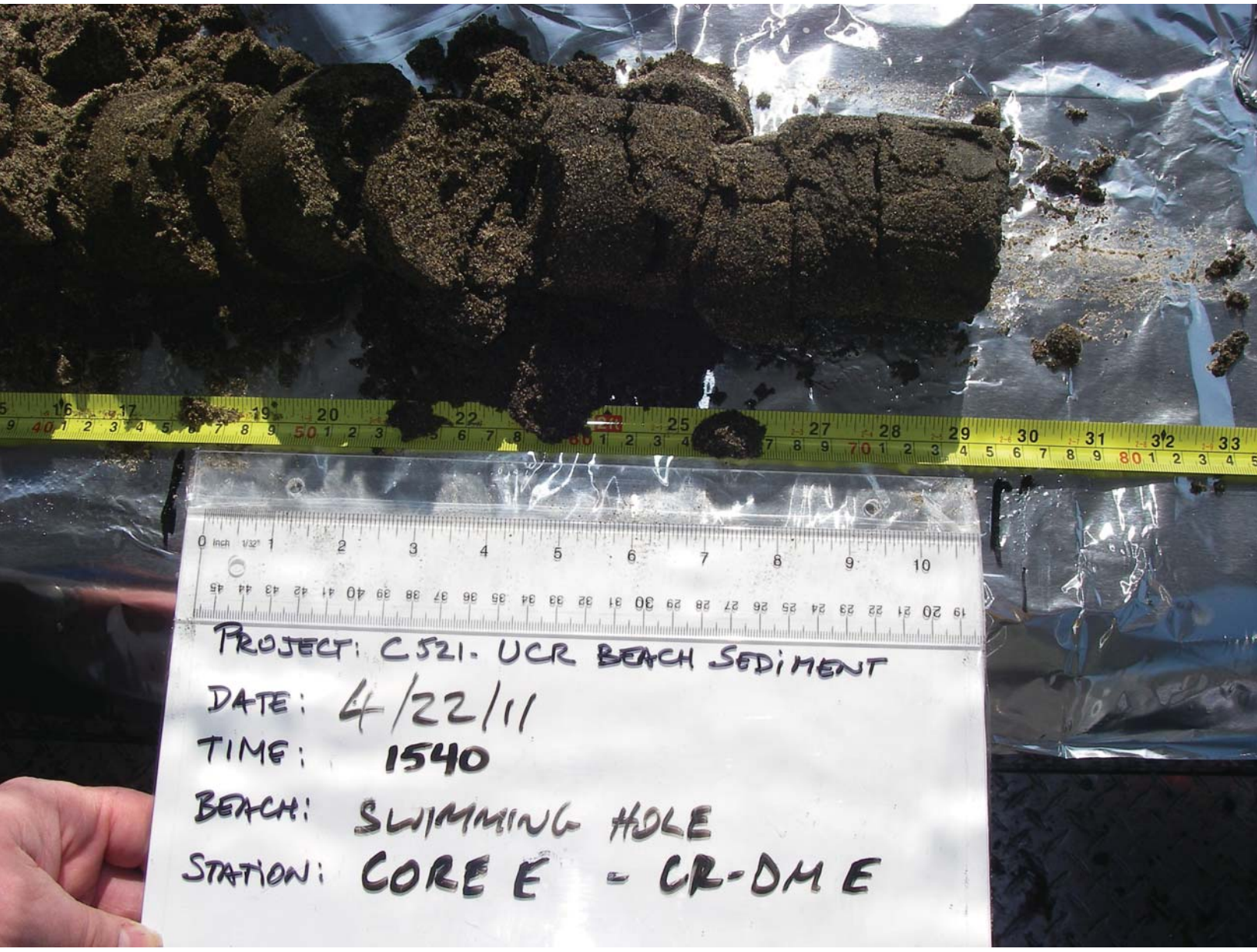

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1025
BEACH: SWIMMING HOLE
STATION: DM-559 - CORE E
integral

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1018
BEACH: SWIMMING HOLE
STATION: DM-538 - CORE D


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1011
BEACH: SWIMMING HOLE
STATION: DM- 79 -CORE C

PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME:
BEACH: SWIMMING HOLE
STATION: DM-179 -CORE B
integral


PROJECT: C521- UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 0950
BEACH: SWIMMING HOLE
STATION: DM-322 - CORE A
integral
consulting inc.


PROJECT: C521. UCR BEACH SEDIMENT
DATE: 4/22/11
TIME: 1540
BEACH: SWIMMING HOLE
STATION: CORE E - CR-DM E

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

– WELTY BAY

45
15
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core E WB-175
Time : 1220
Interval: 15-45 cm

15
0
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core E WB-175
Time: 1215
Interval: 0-15 cm

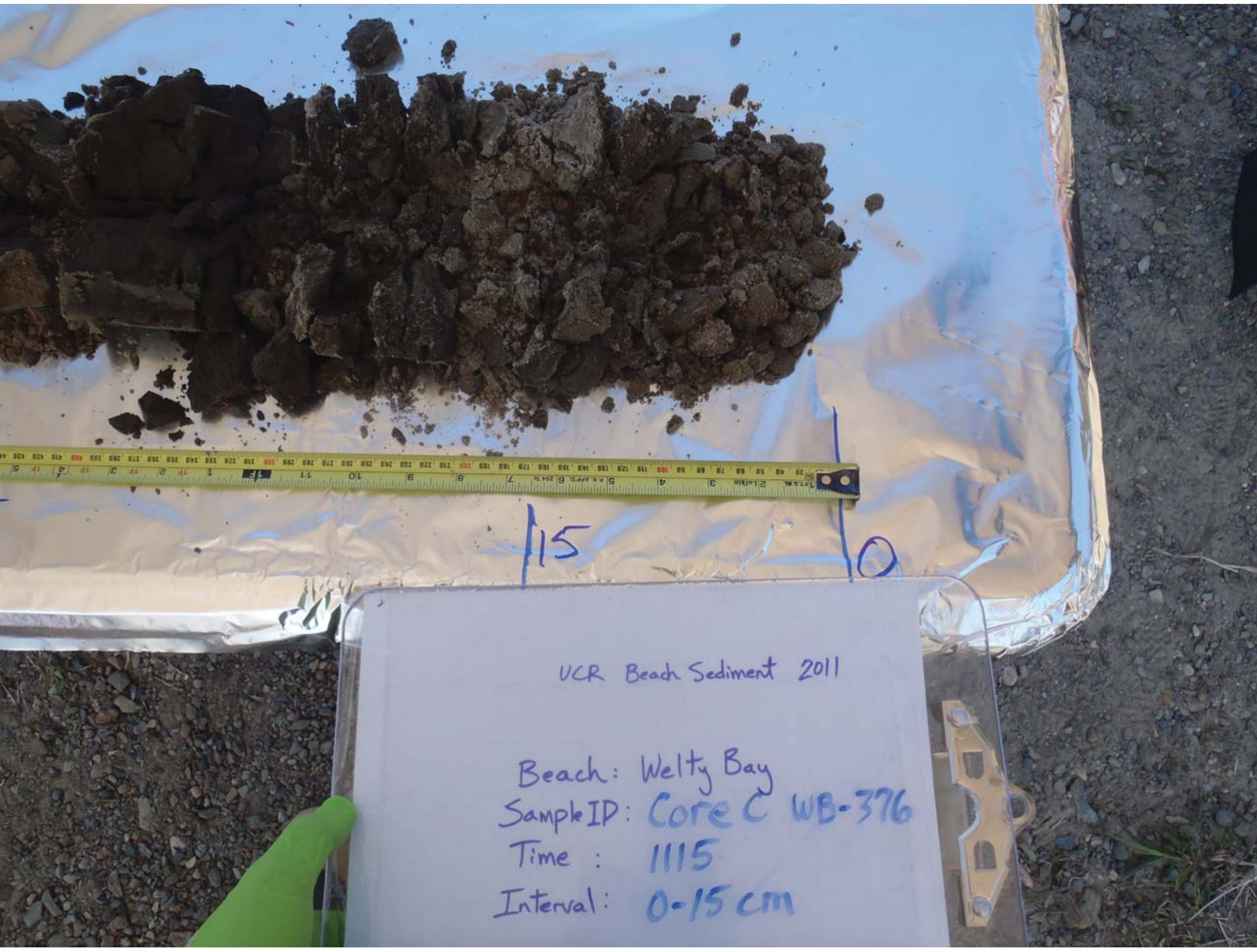
75
45
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: CORE D WB-210
Time: 1210
Interval: 45-75cm

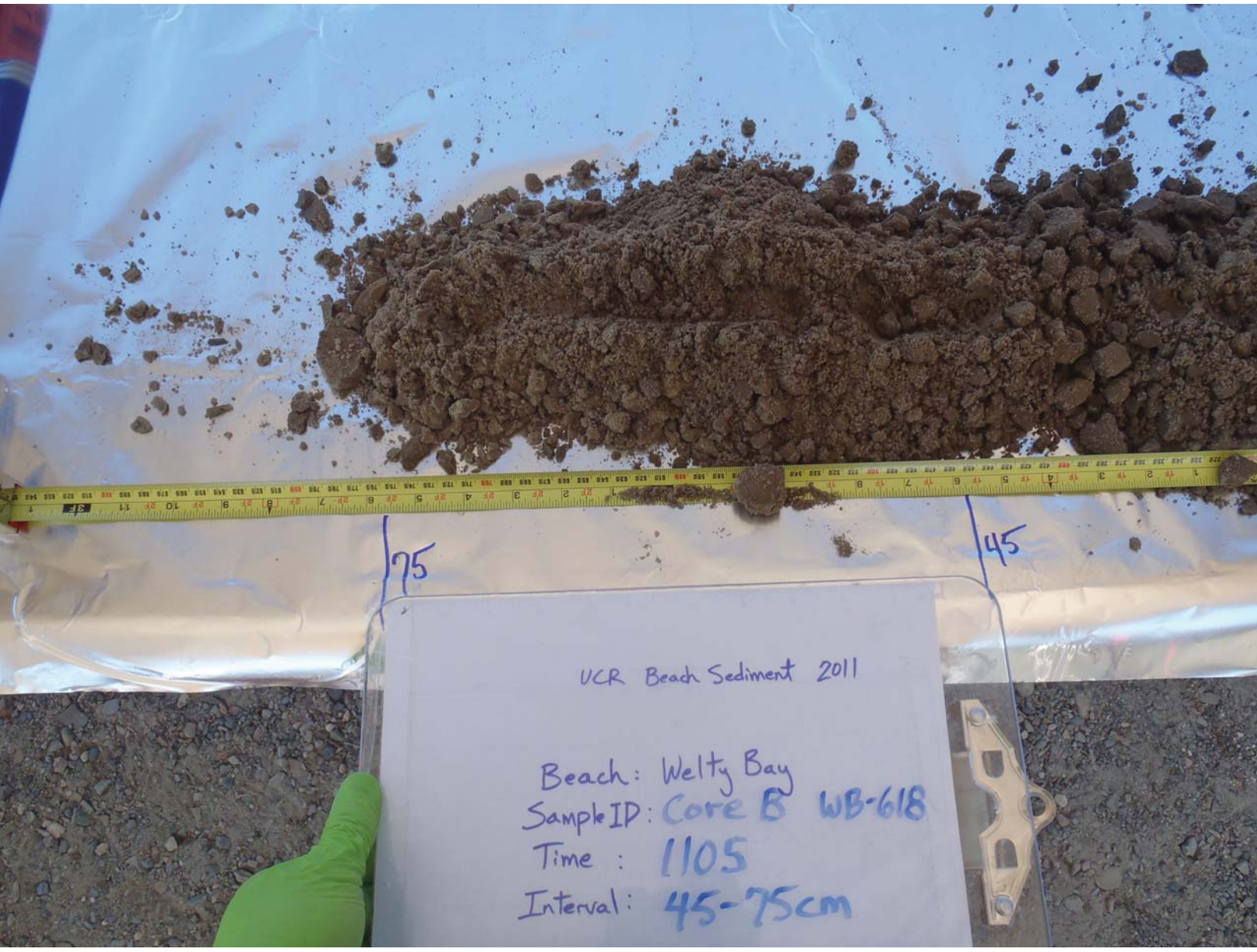
45
15
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: CORE D WB-210
Time: 1205
Interval: 15-45 cm

15
10
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: CORE D WB-210
Time : 1200
Interval: 0-15 cm

75
45
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core C WB-376
Time: 1125
Interval: 45-75 cm

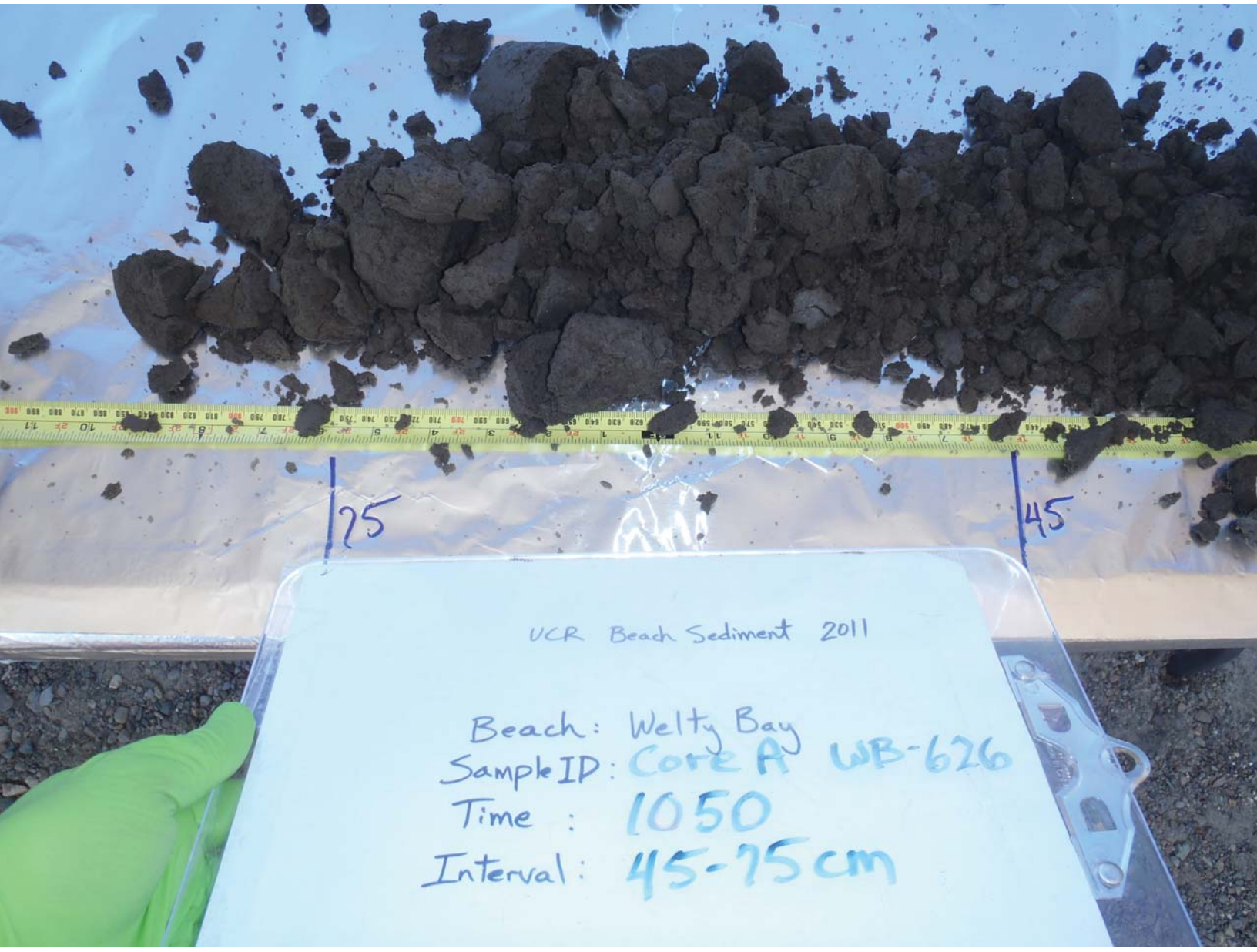
45
15
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core C WB-376
Time: 1120
Interval: 15-45 cm


15
0
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core C WB-376
Time: 1115
Interval: 0-15 cm


75
45
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core B WB-618
Time: 1105
Interval: 45-75cm

45
15
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core B WB-618
Time: 1100
Interval: 15-45cm

15
0
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core B WB-618
Time: 1055
Interval: 0-15 cm


25
45
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core A WB-626
Time: 1050
Interval: 45-75 cm

45
15
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core A WB-626
Time: 1045
Interval: 15-45cm

15
0
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core A WB-626
Time : 1040
Interval: 0-15 cm

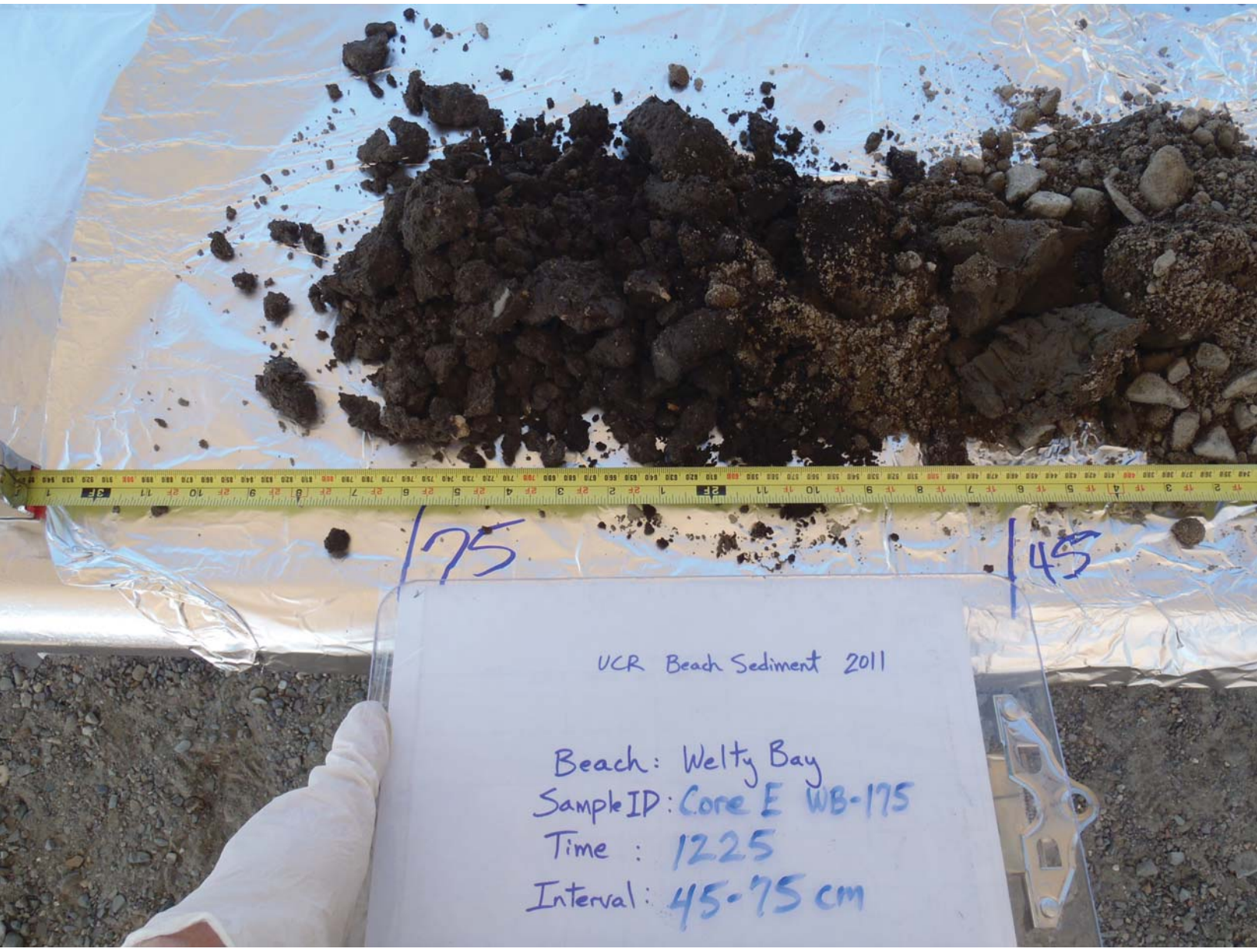
PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4.23.11
TIME: 1102
BEACH: Welty Bay
STATION: WB-175
integral
consulting inc.

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4.23.11
TIME: 10:40
BEACH: Welty Bay
STATION: WB-210
integral
consulting inc.

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4.23.11
TIME: 10:15
BEACH: Welty Bay
STATION: WB-376
integral

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4.23.11
TIME: 09:56
BEACH: Welty Bay
STATION: WB-618
integral
consulting inc.

PROJECT: C521 - UCR BEACH SEDIMENT - 2011
DATE: 4.23.11
TIME: 09:36
BEACH: Welty Bay
STATION: WB-626
integral
consulting inc.

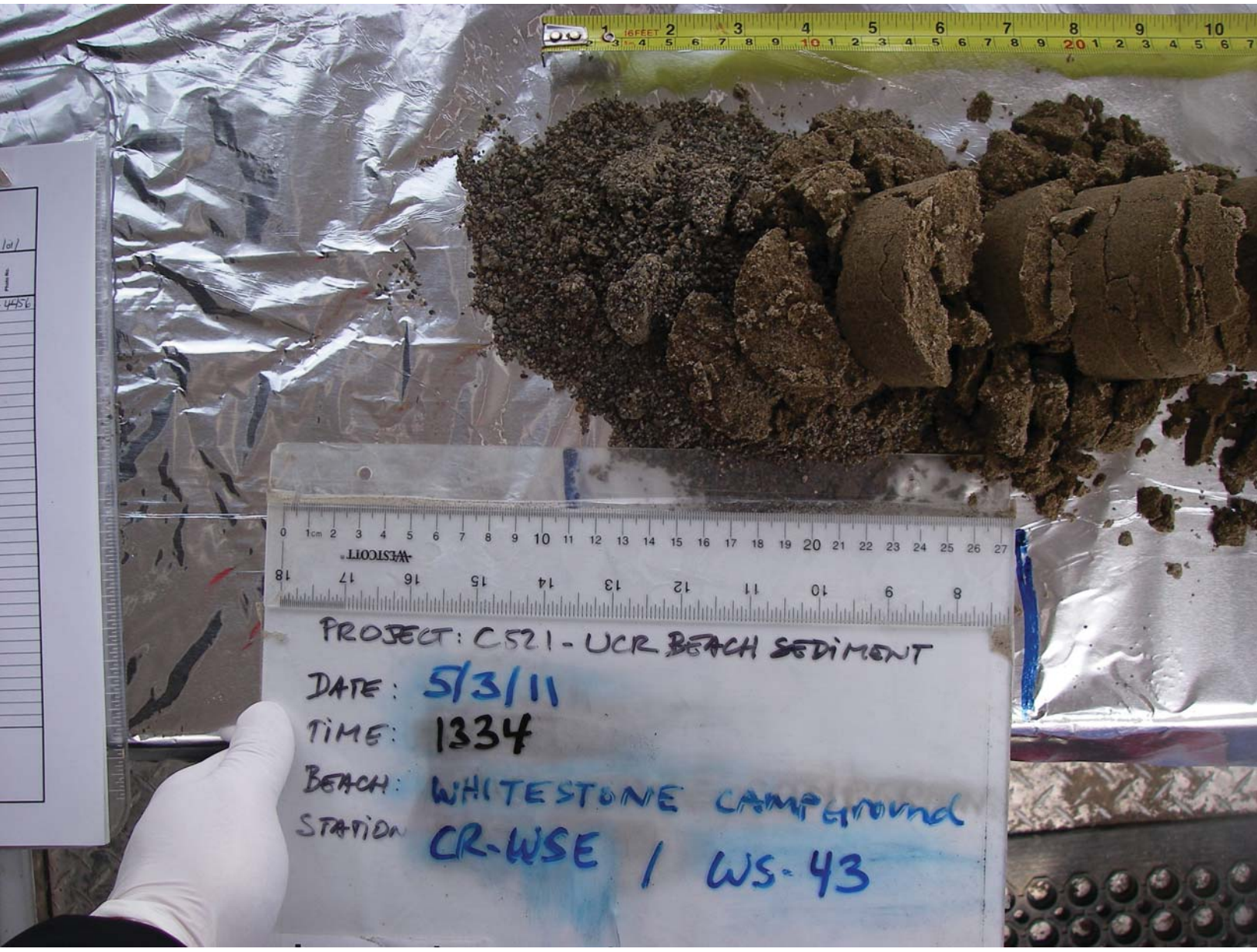

175
145
UCR Beach Sediment 2011
Beach: Welty Bay
Sample ID: Core E WB-175
Time: 1225
Interval: 45-75 cm

APPENDIX F

BEACH CORE SEDIMENT PHOTOGRAPHS

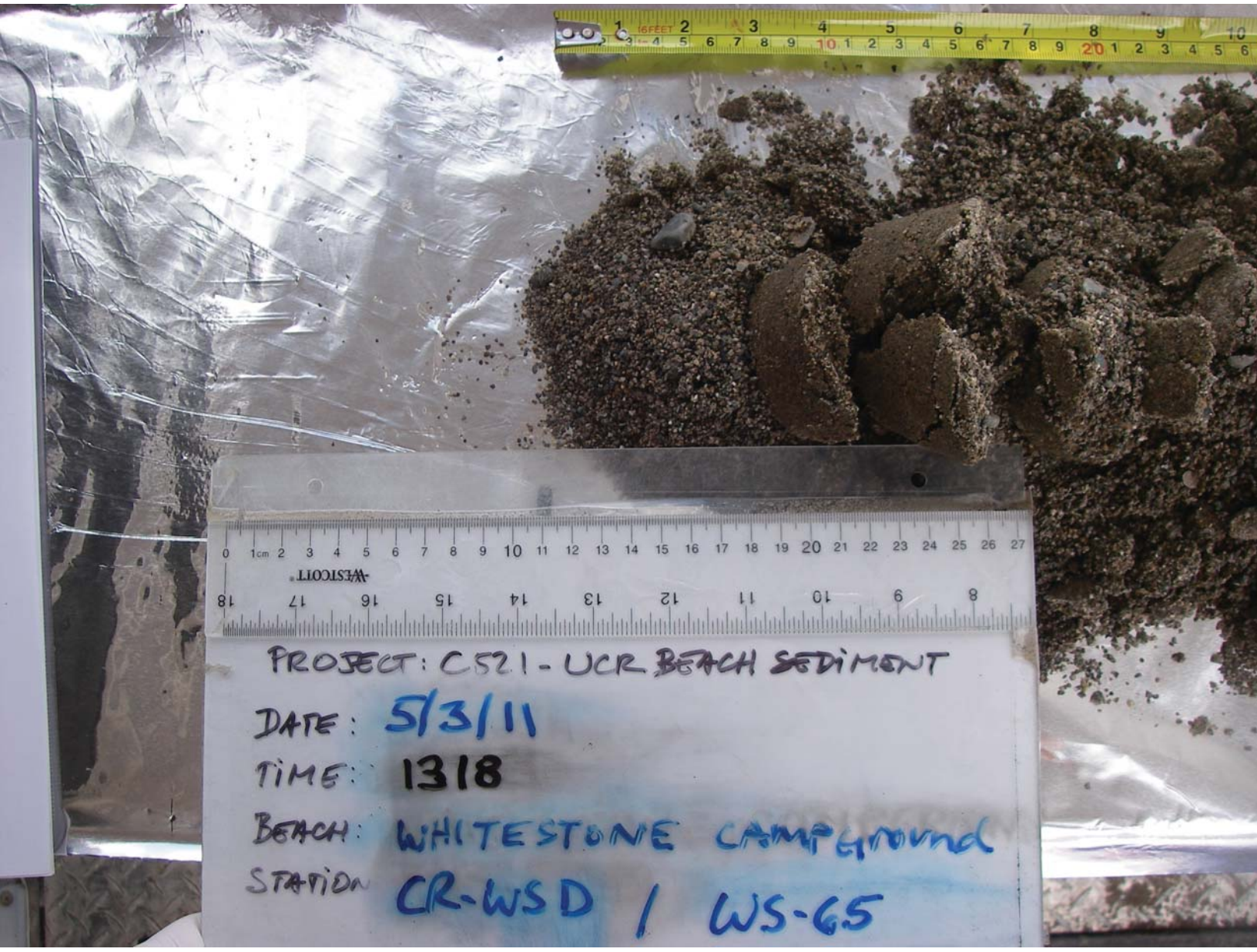
– WHITESTONE

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1334
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSE / WS-43


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1334
BEACH: WHITESTONE CAMPGROUND
STATION: CR-WSE / WS-43

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1318
BEACH: WHITESTONE CAMPGROUND
STATION: CR-WSD / WS-65

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1318
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSD / WS-65


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1318
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSD / WS-65

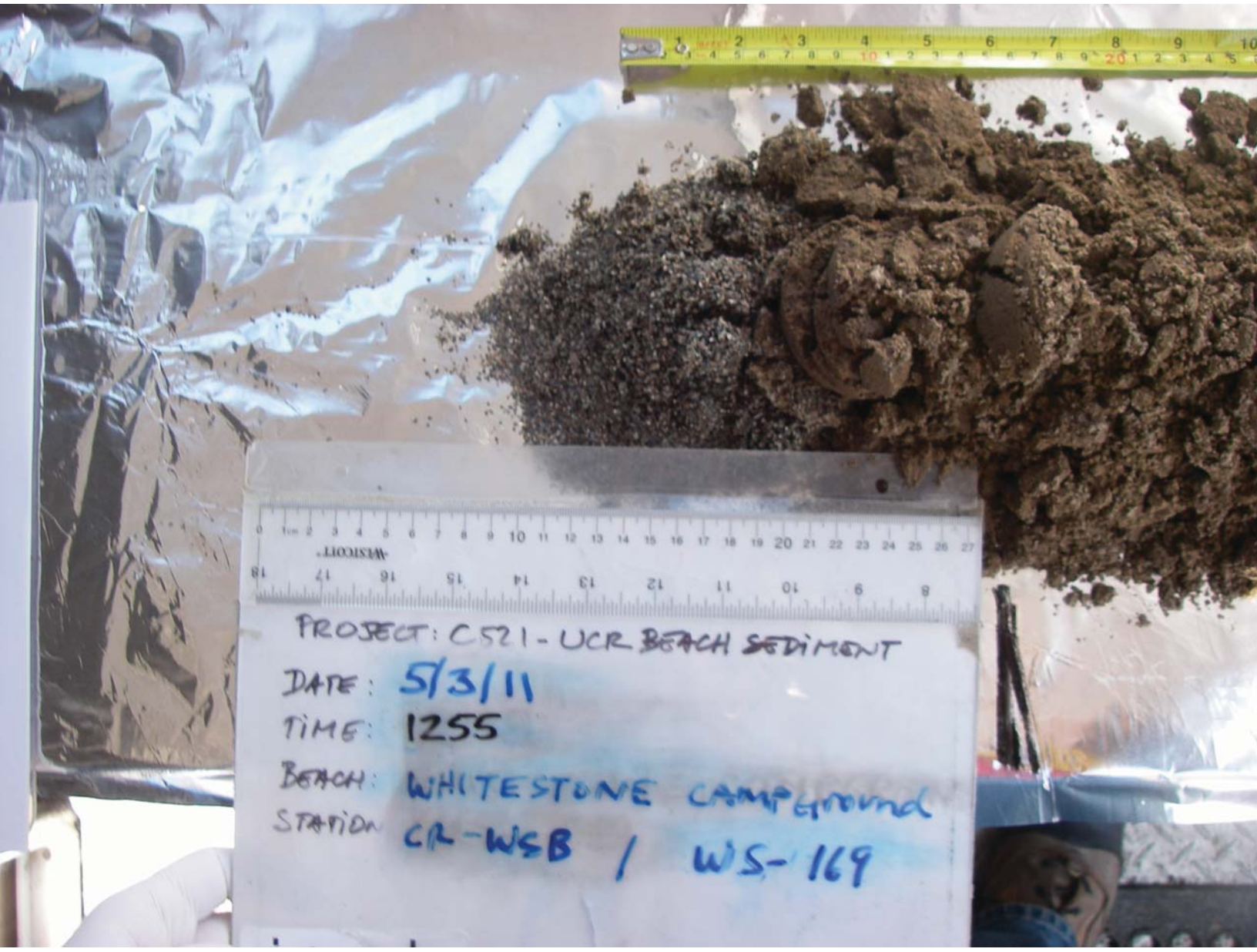
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1307
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSC / WS-84

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1307
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSC / WS-84

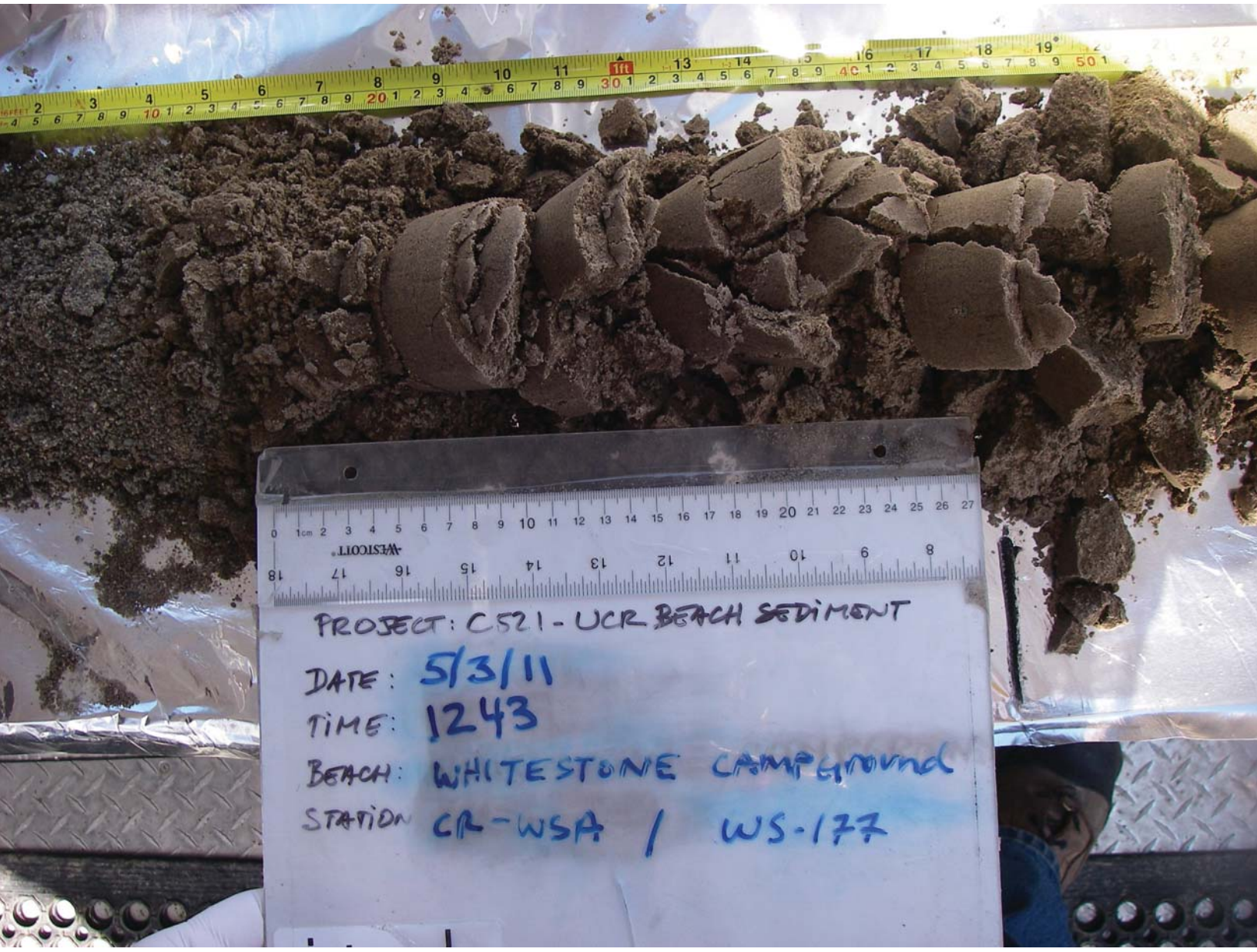
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1307
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSC / WS-84

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1255
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSB / WS-169

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1255
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSB / WS-169


PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1255
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSB / WS-169

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1243
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSA / WS-177

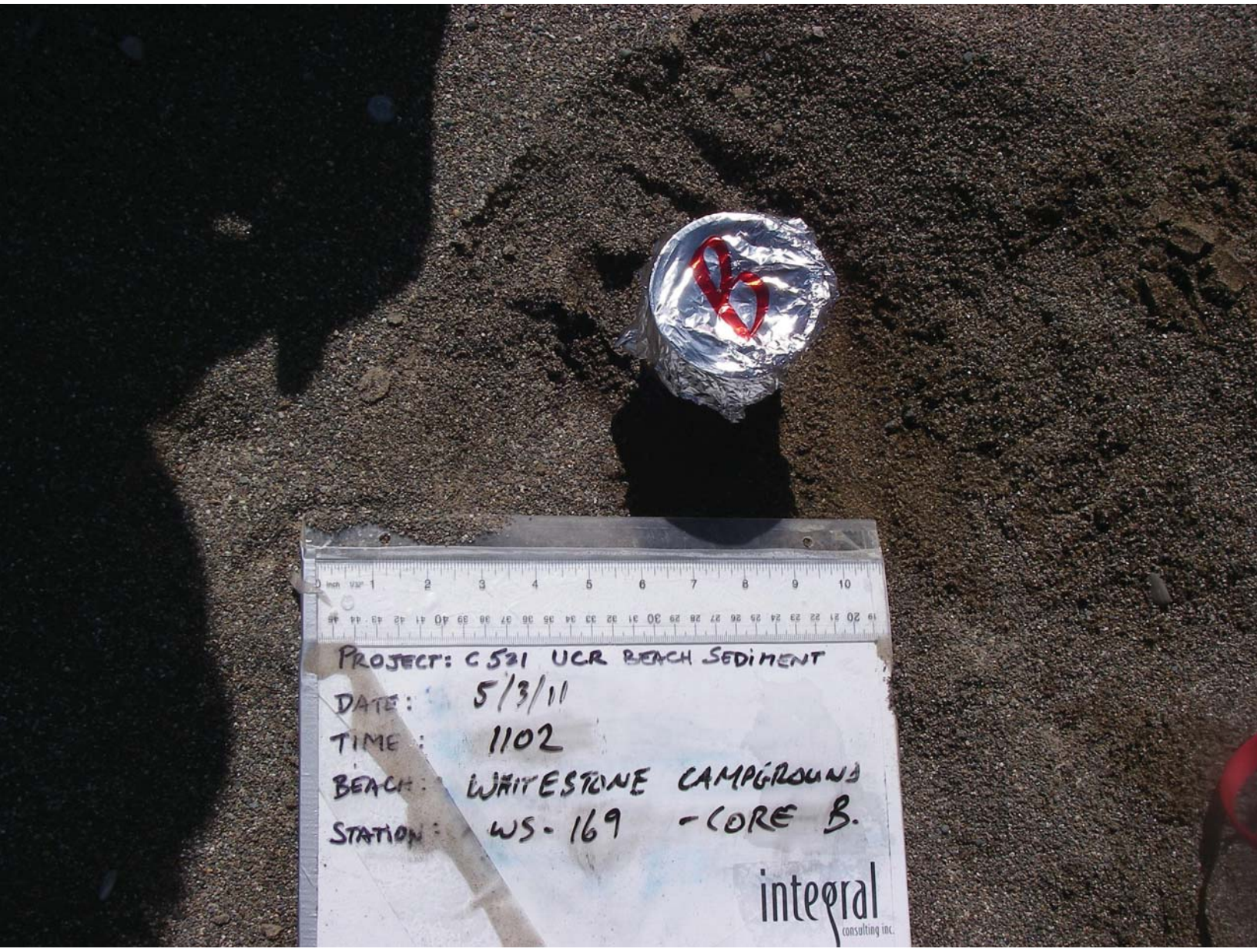

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1243
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSA / WS-177

PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1243
BEACH: WHITESTONE CAMPGROUND
STATION CR-WSA / WS-177

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1122
BEACH: WHITESTONE CAMPGROUND
STATION: WS-43 -CORE E
integral

PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1116
BEACH: WHITESTONE CAMPGROUND
STATION: WS-65 -CORE D
integral
consulting inc.

PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1110
BEACH: WHITESTONE CAMPGROUND
STATION: WS-84 - CORE C
integral


PROJECT: C531 UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1102
BEACH: WHITESTONE CAMPGROUND
STATION: WS-169 -CORE B.
integral
consulting inc.

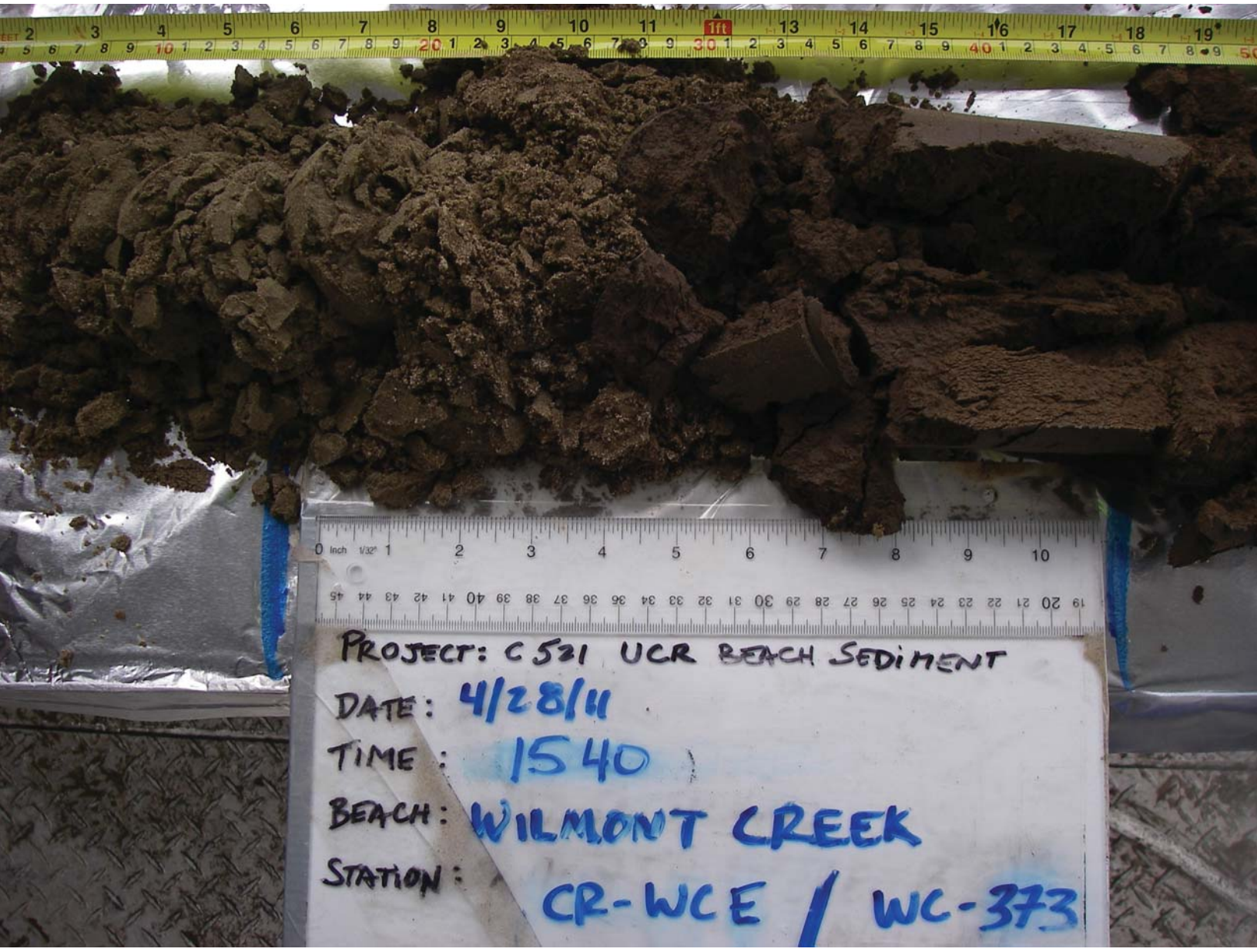
A
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1053
BEACH: WHITESTONE CAMPGROUNDS
STATION: WS-177 - CORE A.
integral

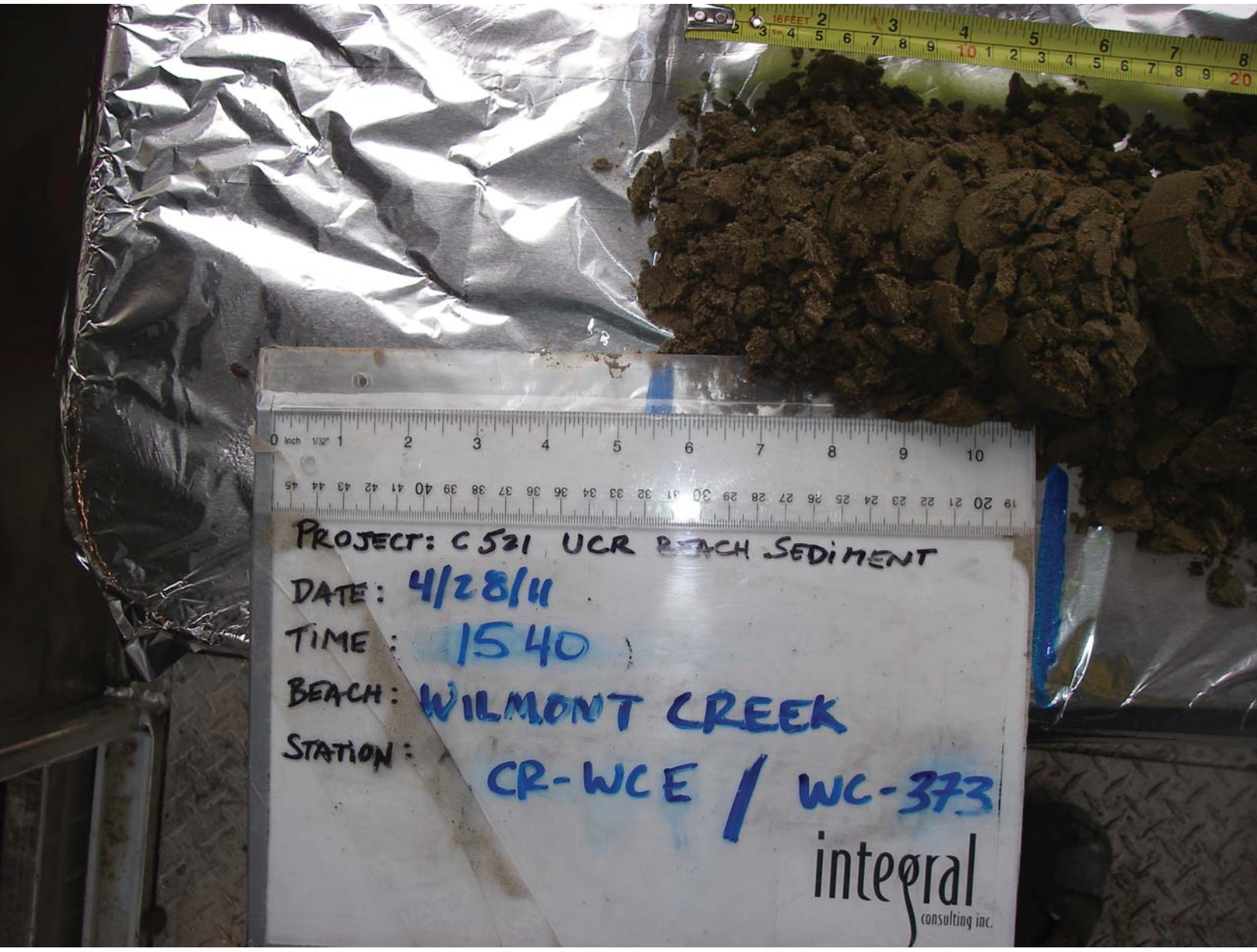
PROJECT: C521 - UCR BEACH SEDIMENT
DATE: 5/3/11
TIME: 1334
BEACH: WHITESTONE CAMPGROUND
STATION: CR-WSE / WS-43

APPENDIX F

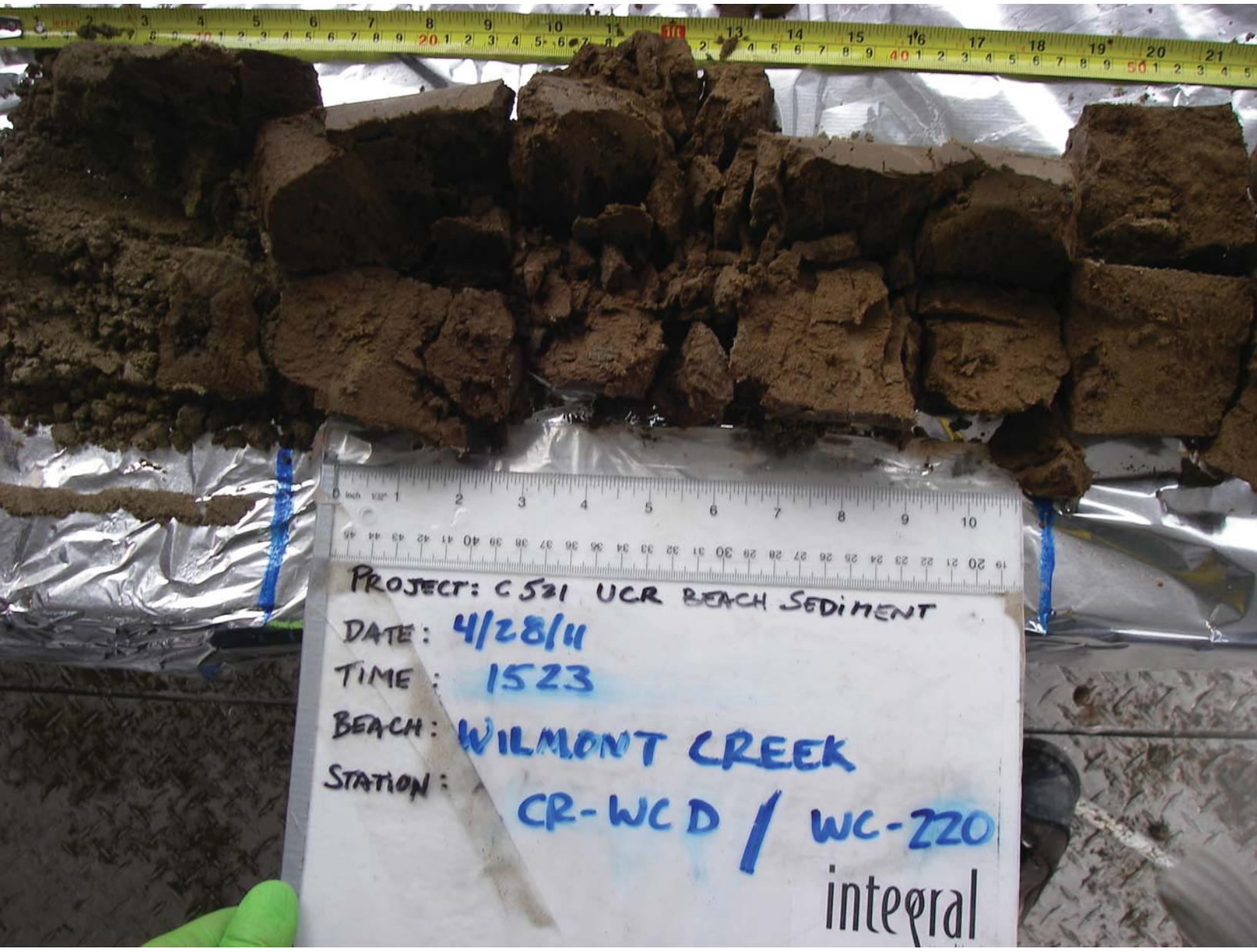
BEACH CORE SEDIMENT PHOTOGRAPHS

– WILMONT CREEK


PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1540
BEACH: WILMONT CREEK
STATION: CR-WCE / WC-373


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1540
BEACH: WILMONT CREEK
STATION: CR-WCE / WC-373
integral
consulting inc.

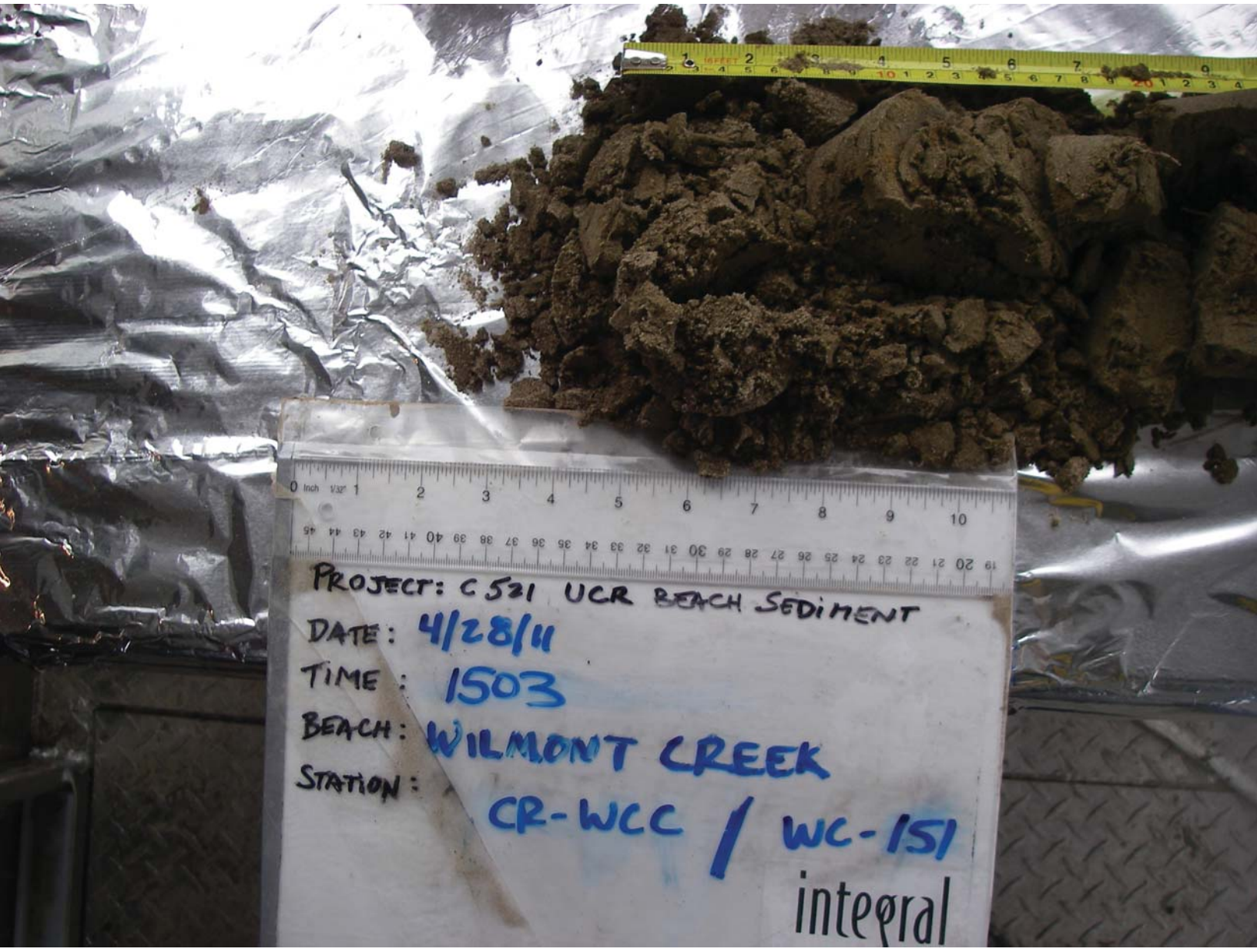
PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1523
BEACH: WILMONT CREEK
STATION: CR-WCD / WC-220
integral

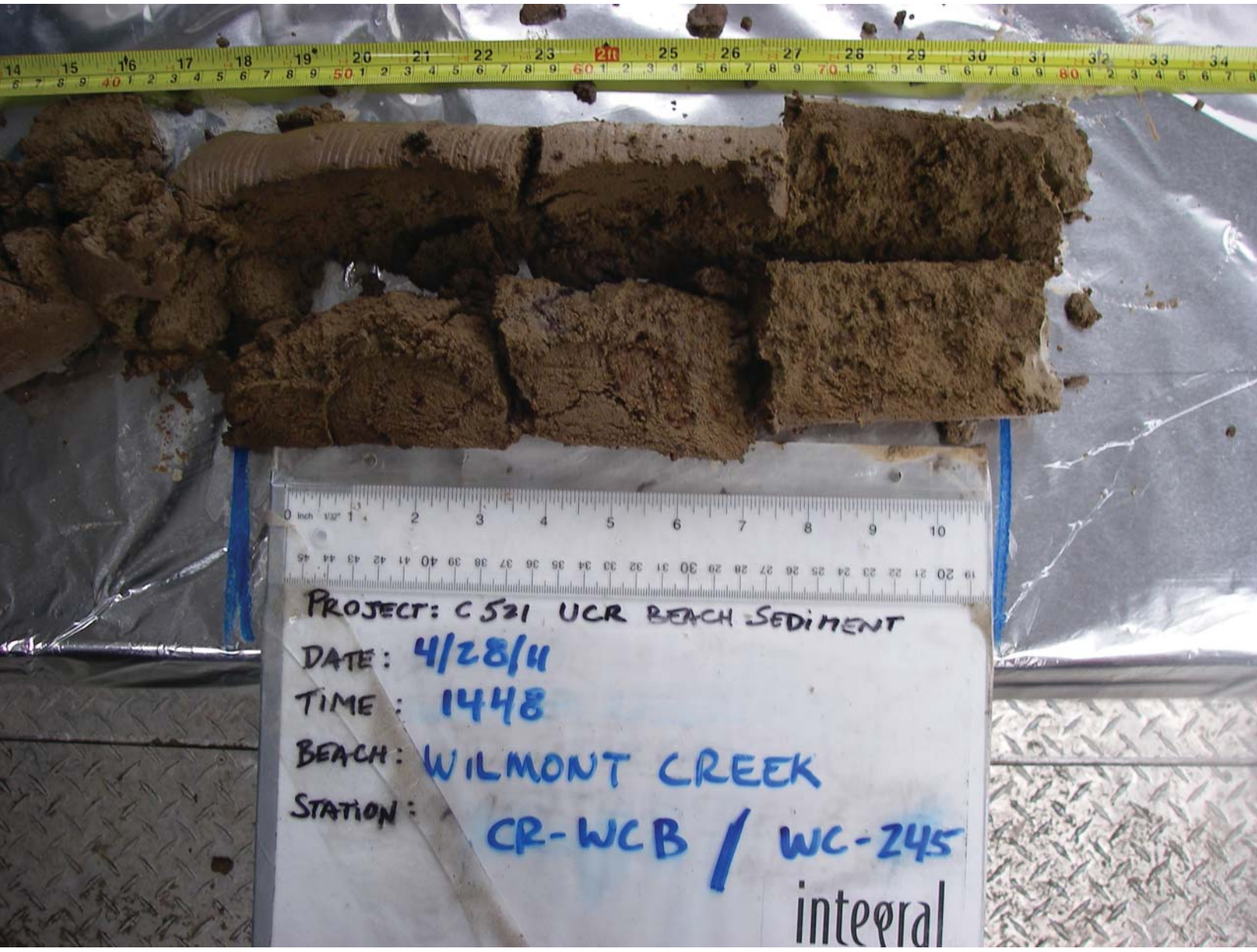

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1523
BEACH: WILMONT CREEK
STATION: CR-WCD / WC-220
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1523
BEACH: WILMONT CREEK
STATION: CR-WCD / WC-220
integral

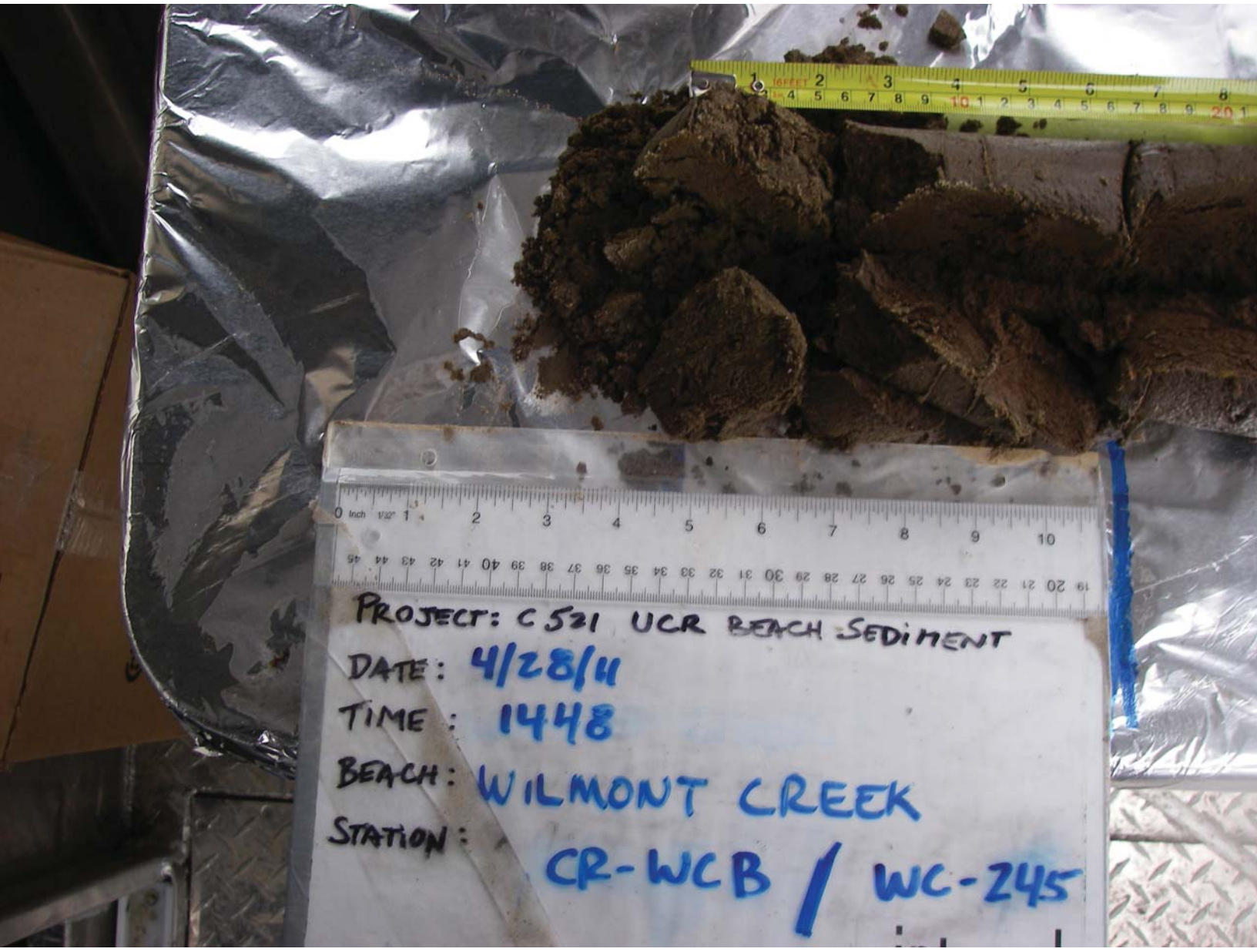
PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1503
BEACH: WILMONT CREEK
STATION: CR-WCC / WC-151
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1503
BEACH: WILMONT CREEK
STATION: CR-WCC / WC-151
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1503
BEACH: WILMONT CREEK
STATION: CR-WCC / WC-151
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1448
BEACH: WILMONT CREEK
STATION: CR-WCB / WC-245
integral

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1448
BEACH: WILMONT CREEK
STATION: CR-WCB / WC-245
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1448
BEACH: WILMONT CREEK
STATION: CR-WCB / WC-245

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1433
BEACH: WILMONT CREEK
STATION: CR-WCA / WC-54

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1433
BEACH: WILMONT CREEK
STATION: CR-WCA / WC-54

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/14
TIME: 1433
BEACH: WILMONT CREEK
STATION: CR-WCA / WC-54
integral

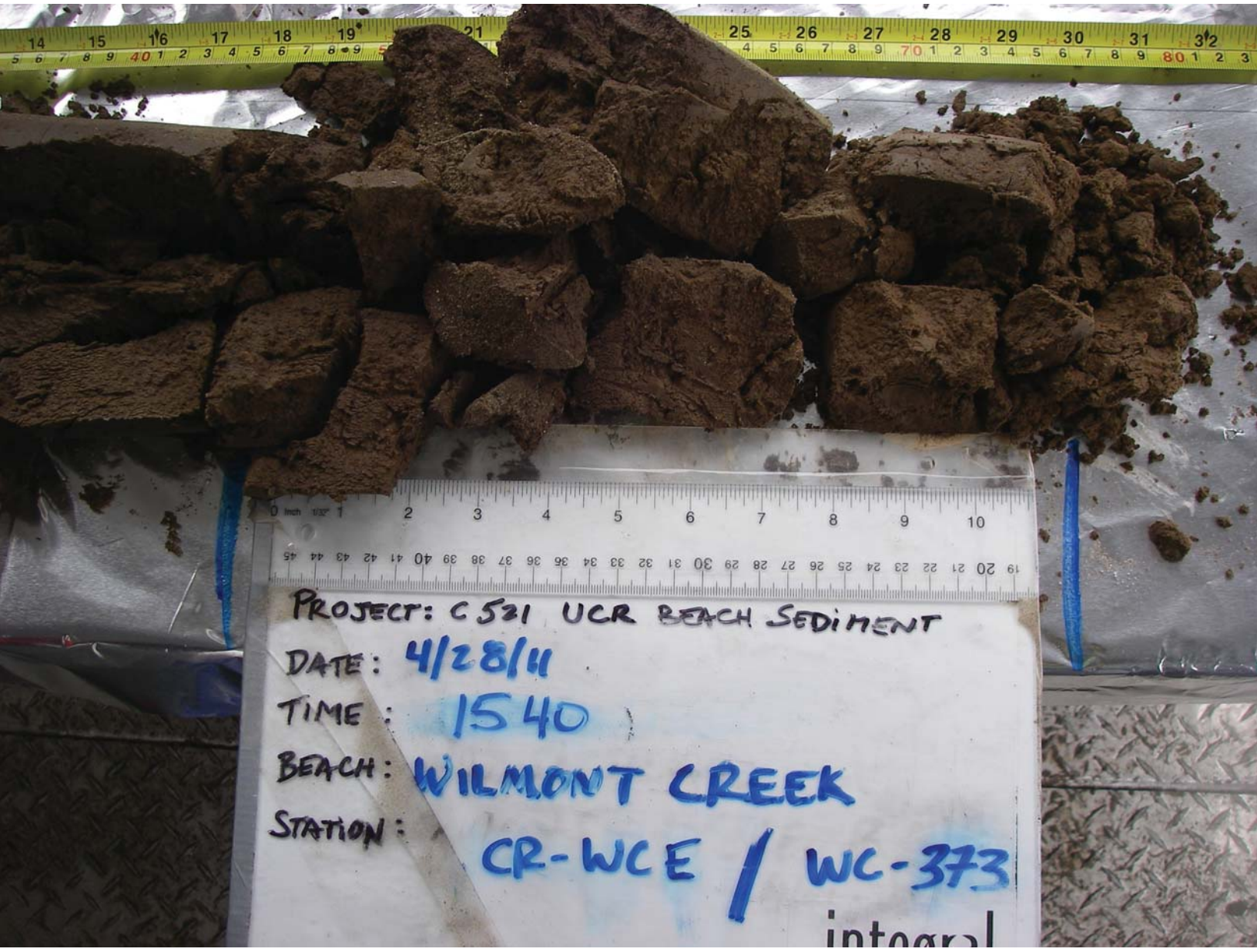
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1325
BEACH: WILMONT CREEK
STATION: WC-373-CORE E
ALT.
integral
consulting inc.

D
PROJECT: C531 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1255
BEACH: WILMONT CREEK
STATION: WC-220 - CORE D
ALT.

C
PROJECT: C 521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1248
BEACH: WILMONT CREEK
STATION: WC-151 - CORE C

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1240
BEACH: WILMONT CREEK
STATION: WC-245-CORE B
ALT.

PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1156
BEACH: WILMONT CREEK
STATION: WC-54 - CORE A
integral


PROJECT: C521 UCR BEACH SEDIMENT
DATE: 4/28/11
TIME: 1540
BEACH: WILMONT CREEK
STATION: CR-WCE / WC-373
integral

APPENDIX G

CHAIN-OF-CUSTODY FORMS

CHAIN OF CUSTODY

SR#: _____

PAGE 1 OF 1 COC # 1

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0557	4/29/11	12:00		SED	3	TG 701-3
SN-0558		1420				TG 704-6
SN-0559		1430				TG 707-9
SN-0560		1435				TG 710-12
SN-0561		1425				TG 713-15
SN-0562		1430				TG 716-18
SN-0581		1530		WTR	2	TG 743-44

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below)
URANIUM Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3
ALKALINITY TOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOTAL SULFIDES, % MOISTURE
TIMES + IVBA

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm.

Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/2/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 2

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521 - ~~0107~~ 0101 KMC
PROJECT MANAGER: JESS MOORE / ENG CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: ~~360~~ 705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐	Hydrocarbons 8260☐ 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ (*see below)	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID	Oil & Grease/TRPH 1664 HEM☐	PCB's Aroclors☐	Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals: Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
SN-0563	4/29/11	1145		SED	1										X							TG 719
SN-0564		1155			1										X							TG 720
SN-0565		1205			1										X							TG 721
SN-0566		1215			1										X							TG 722
SN-0567		1225			1										X							TG 723
SN-0568		1235			1										X							TG 724
SN-0569		1245			1										X							TG 725
SN-~~0570~~ 0570 KMC		1255			1										X							TG 726
SN-0571		1305			1										X							TG 727
SN-0572	↓	1315		↓	1										X							TG 728

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to <2mm.
Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/2/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC # 3

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE/EAS CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x17 | FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ (*see below) Oil☐	Fuel Fingerprint (FIO)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	URANIUM Hex-Chrom☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	ARCHIVE TOX-9020☐ AOX-1650☐ 506☐	GRAIN SIZE TOT SULFIDES, %MOISTURE			REMARKS
SN-0573	4/29/11	1325		SED	1										X									TG 729
SN-0574		1335			1										X									TG 730 KAC
SN-0575		1345			1										X									TG 731
SN-0576		1355			1										X									TG 732
SN-0577		1405			1										X									TG 733
SN-0578		1500			3	X					X	X		X		X	X	X	X	X				TG734-6
SN-0579		1505			1	X					X	X		X		X	X	X	X	X				TG737-9
SN-0580	↓	1510		↓	↓	X					X	X		X		X	X	X	X	X				TG740-42
																								745

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to <2mm.
Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/2/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 4

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Jess Moore / lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX#:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0531	4/29/11	1324		S	3	TG-647-649
SN-0532	"	1336		"	3	TG 650-652
SN-0533	"	1338		"	3	TG 653-655
SN-0534	"	1340		"	3	TG 656-658
SN-0535	↓	1342		↓	3	TG 659-661

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
(Metals; Total or Dissolved (See list below))
CHROMIUM
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, NH_3-N, COD, TSS, TDS (circle)
DOC (circle) Total-P, TKN, TOC, NO_2+NO_3
ARCHIVE
TOX-9020 ☐ AOX 1650 ☐ 506 ☐
Grain size total sulfides percent moisture
Lines 1 VBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 13:30	Date/Time:
Printed Name: SILVIA BAKER	Printed Name: Kim CARLTON	Printed Name: Kim CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

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Kar 5/2/11

SR#: _____

PAGE 1 OF 2 COC # 5

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	8021 ☐ BTEX ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐	1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐				REMARKS
SN-0536	4/29/11	1428		S	1											X									TG 662
SN-0537		1429			1											X									TG 663
SN-0538		1430			1											X									TG 664
SN-0539		1445			1											X									TG 665
SN-0540		1446			1											X									TG 666
SN-0541		1447			1											X									TG 667
SN-0542		1501			1											X									TG 668
SN-0543		1502			1											X									TG 669
SN-0544		1503			1											X									TG 670
SN-0545	✓	1504		✓	1											X									TG 671

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 1330	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: Kim CARLTON	Printed Name: Kim CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

Kas 5/2/11

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 32 COC # 6

PROJECT NAME: VCR Beach sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Jess Moore / Lab contact: Greg Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: ghutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ Diesel☐ Oil☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID	Oil & Grease/TRPH 1664 HEM☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	pH/Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐	AOX 1650☐ 506☐	Archive grain size percent moisture			REMARKS
SN-0546	4/29/11	1513		S	1									X										TG 672
SN-0547		1514			1									X										TG 673
SN-0548		1515			1									X										TG 674
SN-0549		1523			1									X										TG 675
SN-0550		1524			1									X										TG 676
SN-0551		1525			1									X										TG 677
SN-0552		1528			3	X					X	X		X		X	X	X	X	X				TG 678-680
SN-0553		1529			3	X					X	X		X		X	X	X	X	X				TG 681-683
SN-0554		1530			3	X					X	X		X		X	X	X	X	X				TG 684-686
SN-0555	↓	1531		↓	3	X					X	X		X		X	X	X	X	X				TG 687-689

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex Waybill # 8694 3422 5117

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 08:35	Date/Time: 5/2/11 13:30	Date/Time:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

1 of 1 KAC 5/2/11

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 SR#: _____ COC # 7

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Jess Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3539 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Cr(VI) ☐ Hex-Chrom ☐	pH; Cond.; Cl, SO_4, PO_4, F, NO_2, NO_3; NH_3-N; COD, Total-P, TKN; TSS; TDS (circle) DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Alk ☒				REMARKS
SN-0556	4/29/11	1540		W	9	X					X	X		X	X	X		X		X				TG-690-698

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm
FED EX WAYBILL # 8694 3422 5117
Hold = hold PCDD/F, PCB Congners, & PBDE rinse blanks for further instruction.

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 08:35	Date/Time: 5/2/11 13:30	Date/Time:

RCOC #1 03/10

CHAIN OF CUSTODY

KH 5/04/11

SR#: _____

PAGE 1 OF 1 COC # 1

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PROJECT NAME: UCR Beach sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore/Rob contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3531 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒	Congeners☐	Pesticides/Herbicides 608☐ 8081A☒	8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐ CRA/ATOM	Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, (TOC,) DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	HOLD	REMARKS
SN-0607	4/30/11	1445		W	9	X						X		X		X	X	X	X			X		T0790-798

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples - grain size on whole sediments, all other analyses sieved to .2mm

Hold = hold PCB/F, PCB Congeners & PBDE rinse blanks for further instruction

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 2

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: CH2I-0101
PROJECT MANAGER: Jess Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0582	4/30/11	1247		S	3	T6747-749
SN-0583		1248			3	T6750-752
SN-0584		1249			3	T6753-755
SN-0585		1250			3	T6756-758
SN-0586		1251			3	T6759-761

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ CHROMIUM Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
Grain size on whole sediments, percent solids, percent moisture
Fines + IVBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 08:35	Date/Time: 5/2/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

KAR 5/2/11

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC # 3

PROJECT NAME	UCR Beach Sampling 2011
PROJECT NUMBER	C521-0101
PROJECT MANAGER	Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS	Integral Consulting
	1205 West Bay Drive NW
CITY/STATE/ZIP	Olympia WA 98502
E-MAIL ADDRESS	chutchings@integral-corp.com
PHONE #	360-705-3534 x17 FAX #
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
SN-0587	4/30/11	1328		S	1	X	TG 762
SN-0588		1329			1	X	TG 763
SN-0589		1330			1	X	TG 764
SN-0590		1343			1	X	TG 765
SN-0591		1344			1	X	TG 766
SN-0592		1345			1	X	TG 767
SN-0593		1355			1	X	TG 768
SN-0594		1356			1	X	TG 769
SN-0595		1357			1	X	TG 770
SN-0596	↓	1358		↓	1	X	TG 771

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 SGT ☐ 1664 HEM ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to <2 mm

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Sh Bel	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 1330	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

5/2/11 KAC

SR#: _____

PAGE 31 OF 32 COC # 4

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore/Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons Gas☐ Diesel☐ (*see below) Oil☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals: Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	Hex-Chrom☐	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX-9020☐ AOX-1650☐ 506☐	Grain size, total solids, percent total solids (circle)				REMARKS
SN-0597	4/30/11	1413		S	1									X											TG 772
SN-0598		1414			1									X											TG 773
SN-0599		1415			1									X											TG 774
SN-0600		1427			1									X											TG 775
SN-0601		1428			1									X											TG 776
SN-0602		1429			1									X											TG 777
SN-0603		1432			3	X					X	X		X		X	X	X	X	X					TG 778-780
SN-0604		1433			3	X					X	X		X		X	X	X	X	X					TG 781-783
SN-0605		1434			3	X					X	X		X		X	X	X	X	X					TG 784-786
SN-0606	↓	1435		↓	3	X					X	X		X		X	X	X	X	X					TG 787-789

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2mm

Fed Ex Waybill # 8694 3482 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 1330	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 5

PROJECT NAME: WCR BEACH SAMPLING 2011
PROJECT NUMBER: CSH-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DR. NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☐	(Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	(pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC) DOC (circle) NO2+NO3	ARSENIC FOX-9020☐ AOX-1650☐ 5060☐	GRAIN SIZE TOTAL SOLIDS, % MOISTURE	FINES + IVBA	HOLD	REMARKS
SN-0633	5/1/11	12:40		SD	3									X	X	X	X	X	X			TG849-849
SN-0634		~~13:20~~ 14:45												X	X	X	X	X	X			TG850-852
SN-0635		13:20												X	X	X	X	X	X	X		TG853-855
SN-0636		1510												X	X	X	X	X	X			TG856-858
SN-0637		1525												X	X	X	X	X	X			TG859-861
SN-0658		1515		WTR	9	X					X	X	X	X	X		X			X		TG890-898

R. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2mm.
Hold = hold PCDD/F, PCB Congeners & PBDE rinse blanks for further instruction. Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton 5/2/11 1330	Signature:	Signature:	Signature:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:
Date/Time:	Date/Time:	Date/Time:	Date/Time:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 1 OF 2 COC # 6

PROJECT NAME: LACR. BEACH SAMPLING 2011
PROJECT NUMBER: 1524-010
PROJECT MANAGER: JESS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CORP CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	REMARKS
SN-0638	5/1/11	1315		SED	1	X		TG 862
SN-0639		1325				X		TG 863
SN-0640		1335				X		TG 864
SN-0641		1345				X		TG 865
SN-0642		1355				X		TG 866
SN-0643		1405				X		TG 867
SN-0644		~~1355~~ 1415				X		TG 868
SN-0645		1425				X		TG 869
SN-0646		1435				X		TG 870
SN-0647	↓	1440		↓	↓	X		TG 871

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2mm.

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/2/11 1330	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 2 OF 2 COC # 7

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: 1521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 | FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen	Oil & Grease/TRPH 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☒	Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	(Metals, Total or Dissolved (See list below) URANIUM	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX-9020☐ AZRINE AOX-1650☐ 506☐	GRAIN SIZE, TOT. SULFIDES & MOISTURE				REMARKS
SN-0648	5/1/11	1445		Sed	1											X											Tg 872
SN-0649		1455														X											Tg 873
SN-0650		1505														X											Tg 874
SN-0651		1515														X											Tg 875
SN-0652		1525														X											Tg 876
SN-0653		1535			↓											X											Tg 877
SN-0654		1530			3	X					X	X		X			X	X	X	X	X						Tg 878-880
SN-0655		1540			1	X					X	X		X			X	X	X	X	X						Tg 881-883
SN-0656		1535				X					X	X		X			X	X	X	X	X						Tg 884-886
SN-0657	↓	1540		↓	↓	X					X	X		X			X	X	X	X	X						Tg 887-889

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
~~Moisture~~ All Samples: grain size on whole sediments, all other analyses sieved to < 2mm.

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/2/11 1330	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 8

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3435 x14 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0608	5/1/11	1234		S	3	TG801-803
SN-0609		1235			3	TG804-806
SN-0610		1236			3	TG807-809
SN-0611		1237			3	TG810-812
SN-0612		1238			3	TG813-815
SN-0613		1239			3	TG816-818
SN-0632		1258		W	2	TG843-844

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals: Total or Dissolved (See list below)
Cyanide☐ Hex-Chrom☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3
TOX-9020☐ AOX-1650☐ 506☐
Grain size, total sulfides, percent moisture
Fines + IV BA

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analytes sieved to < 2mm

Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 0835	Date/Time: 5/2/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 9

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3531 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
SN-0614	5/1/11	1325		S	1	X	TG 819
SN-0615		1326			1	X	TG 820
SN-0616		1327			1	X	TG 821
SN-0617		1343			1	X	TG 822
SN-0618		1344			1	X	TG 823
SN-0619		1345			1	X	TG 824
SN-0620		1357			1	X	TG 825
SN-0621		1358			1	X	TG 826
SN-0622		1359			1	X	TG 827
SN-0623	↓	1413		↓	1	X	TG 828

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, NH_3-N, COD, TSS, TDS (circle)
DOC (circle) COD, Total-P, TKN, TOC, NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn) Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments
all other analyses sieved to < 2 mm
Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11 08:35	Date/Time: 5/2/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: Kim CARLTON	Printed Name: Kim CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

PAGE 2 OF 2 COC # 10

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-001
PROJECT MANAGER: Jess Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID	Oil & Grease/TRPH 1664 HEM☐	PCB's Aroclors☒	1664 SGT☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒	8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐	PCP☐	PAHs 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	Grain size on whole sediments Archive Archive Archive	REMARKS
SN-0624	5/1/11	1414		S	1													X								TG-829
SN-0625	"	1415		"	1													X								TG-830
SN-0626	"	1428		"	1													X								TG-831
SN-0627	"	1429		"	1													X								TG-832
SN-0628	↓	1430		↓	1													X								TG-833
SN-0629	5/1/11	1435		S	3	X						X	X			X			X	X	X	X	X				TG-834-836
SN-0630	"	1436		"	3	X						X	X			X			X	X	X	X	X				TG-837-839
SN-0631	↓	1437		↓	3	X						X	X			X			X	X	X	X	X				TG-840-842

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments.
all other analyses sieved to < 2 mm
Fed Ex Waybill # 8694 3422 5106

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:
Date/Time: 5/2/11 0835	Date/Time: 5/2/11	Date/Time: 5/2/11 13:30	Date/Time:

RCOC #1 03/10

Surface

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 1

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / EPA CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-8[illegible] 3534x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ Diesel☐ (*see below) Oil☐ Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	(Metals, Total or Dissolved (See list below)	Uranium☐ Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3	Archive TOX 9020☐ AOX 1650☐ 5096☐	Grain Size ; TOC 9060☐ Moisture	Fines + Sulfides Sulfides	Fines + IVBA	Rand Nuclides	Hold	REMARKS
SN-0684	5/2/11	1100		SED	3								X	X	X	X	X	X						TG 948	947-949
SN-0685		1309											X	X	X	X	X	X							950-952
SN-0686		1135											X	X	X	X	X	X							753-755 TG 953-954 (15)
SN-0687		1430											X	X	X	X	X	X							956-958
SN-0688		1311											X	X	X	X	X	X	X	X					959-961
SN-0709		1425		WTR	9	X				X	X	X	X	X		X							X		990-992

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm.
Hold = hold PCDD/F, PCB Congeners, & PBDEs rinse blanks for further instruction. Fed Ex Waybill # 8694 3422 5128

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

Subsurface

CHAIN OF CUSTODY

SR#: _____

PAGE 1 OF 2 COC # 2

PROJECT NAME: UCR BEACH SAMPLING 2011

PROJECT NUMBER: C521-0101

PROJECT MANAGER: JESS MOORE / LAB CONTACT CRAIG HUTCHINGS

COMPANY/ADDRESS: INTEGRAL CONSULTING INC

1205 WEST BAY DRIVE NW

CITY/STATE/ZIP: OLYMPIA, WA 98502

E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM

PHONE #: 360-705-3534 x19 FAX #:

SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ ☐Fuel Fingerprint (*see below) Diesel☐ Oil☐ ☐NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	(Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH; Cond. Cl, SO4, PO4, F, NO2, NO3; BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐				TAT #	REMARKS
SN-0689	5/2/11	1100		SED	1									X										TG 962
SN-0690		1110												X										TG963
SN-0691		1120												X										TG964
SN-0692		1130												X										TG965
SN-0693		1140												X										TG966
SN-0694		1150												X										TG967
SN-0695		1205												X										TG968
SN-0696		1215												X										TG969
SN-0697		1220												X										TG970
SN-0698	↓	1230		↓	↓									X										TG971

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to <2mm.

Send Rx Waybill # 8694 3422 5128

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Subsurface

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____

PAGE 2 OF 2 COC # 3

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINS@INTEGRAL-CORP.COM
PHONE #: 360-705-3531 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ (*see below) ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐ Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE, 1ST 5 SPLITTES 2b MOISTURE			TAG #	REMARKS
SN-0699	5/2/11	1235		SED	1									X										TG972
SN-0700		1240												X										TG973
SN-0701		1250												X										TG974
SN-0702		1300												X										TG975
SN-0703		1310												X										TG976
SN-0704		1320			↓									X										TG977
SN-0705		1315			3	X				X	X		X		X	X	X	X	X					978-980
SN-0706		1315			1	X				X	X		X		X	X	X	X	X					981-983
SN-0707		1325				X				X	X		X		X	X	X	X	X					984-986
SN-0708	↓	1320		↓	↓	X				X	X		X		X	X	X	X	X					987-989

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2mm.

Fed Ex Waybill # 8694 3422 5128

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services™

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 4

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0659	5/2/11	1312		S	3	TG-901-903
SN-0660		1313			3	TG-904-906
SN-0661		1314			3	TG-907-909
SN-0662		1315			3	TG-910-912
SN-0663		1310			3	TG-913-915
SN-0664		1311			3	TG-916-918
SN-0683		1330		W	2	TG-943-944

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ Hydrocarbons 8260☐ 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ (*see below) ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals, Total or Dissolved (See list below)
Cyanide☐ CHROMIUM Hex-Chrom☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN (circle) NO_2+NO_3
DOC (circle) TOX-9020☐ AOX-1650☐ 506☐
ARCHIVE
Grain size on whole sediments, all other analyses sieved to <2mm
Fines + IVRA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2mm

Fed Ex Waybill # 8694 3422 5128

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0810	Date/Time: 5/2/11 0810	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 5

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore/Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
SN-0665	5/2/11	1358		S	1	X	TG 919
SN-0666	"	1359		"	1	X	TG 920
SN-0667	"	1400		"	1	X	TG 921
SN-0668	"	1413		"	1	X	TG 922
SN-0669	"	1414		"	1	X	TG 923
SN-0670	"	1415		"	1	X	TG-924
SN-0671	"	1423		"	1	X	TG-925
SN-0672	"	1424		"	1	X	TG-926
SN-0673	"	1425		"	1	X	TG-927
SN-0674	↓	1433		↓	1	X	TG-928

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons 8021 ☐ BTEX ☐ Gas ☐ Diesel ☐ (*see below) Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 SGT ☐ 1664 HEM ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION
P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS
____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:
Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm
Fed Ex Waybill # 8694 3422 5125

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/4/11 0810	Date/Time: 5/2/11 0810	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: [illegible]	Printed Name: Kim Carlton	Printed Name: Kim Carlton	Printed Name:
Firm: [illegible]	Firm: Integral	Firm: Integral	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 2 OF 2 COC # 6

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: 521-0101
PROJECT MANAGER: Joss Moore - lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting 1205 West Bay Dr. NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	Grain size for all samples, percent moisture			REMARKS
SN-0675	5/2/11	1434		S	1									X									TG 929
SN-0676		1435			1									X									TG 930
SN-0677		1445			1									X									TG 931
SN-0678		1446			1									X									TG 932
SN-0679		1447			1									X									TG 933
SN-0680		1452			3	X				X	X		X		X	X	X	X	X				TG 934-936
SN-0681		1453			3	X				X	X		X		X	X	X	X	X				TG 937-939
SN-0682	↓	1454		↓	3	X				X	X		X		X	X	X	X	X				TG 940-942

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analytes sieved to < 2 mm
Fed Ex waybill # 8694 3422 5125

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/2/11 0810	Date/Time: 5/2/11 0810	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

SURFACE

CHAIN OF CUSTODY

Columbia Analytical Services

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SR#: _____

PAGE 1 OF 1 COC # 1 of 1

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS HODGE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DR. NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 EXT 17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0735	5/3/11	1030		SED	3	1047-1049
SN-0736		1150				1050-1052 ~~1053-1055~~ (LS)
SN-0737		1055				1053-1055
SN-0738		1155				1056-1058
SN-0739		1200		↓	↓	1059-1061
SN-0760	↓	1245		WTR	9	1090-1098

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒
Volatile Organics 624☐ 8260☐
Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ (*see below) Oil☐
☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☒ Congeners☐
Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHs 8310☐ SIM☒
Metals, Total or Dissolved (See list below)
Cyanide☐ Hex-Chrom☐
(pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO_2+NO_3
Archive FOX-9020☐ AOX-1650☐ 506☐
Grain size, TOT. SULFIDES, % moisture
FINES + VBA
RADIONUCLIDES
HOLD

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
ALL SAMPLES: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO < 2mm
HOLD= HOLD PCDD/F, PCB CONGENERS, AND PBDE RINSATE BLANKS FOR FURTHER INSTRUCTION
FEDEX WAYBILL# 8694 3422 5128

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

SUBSURFACE

CHAIN OF CUSTODY

SR#: _____

PAGE 1 OF 2 COC # 8

Columbia Analytical Services™
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PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS TOMKE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 EXT 17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ Diesel☐ (*see below) Oil☐	8021☐ BTEX☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX-9020☐ AOX 1650☐ 9061☐	GRAIN SIZE / TOT. SULFIDES % MOISTURE	TAG #	REMARKS
SN-0740	5/3/11	11:00		SED	1										X								1062
SN-0741		11:10													X								1063
SN-0742		11:20													X								1064
SN-0743		11:30													X								1065
SN-0744		11:40													X								1066
SN-0745		1150													X								1067
SN-0746		1200													X								1068
SN-0747		1210													X								1069
SN-0748		1220													X								1070
SN-0749	↓	1230		↓	↓										X								1071

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
_X_ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
_X_ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
_X_ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
ALL SAMPLES: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO <2mm.

FedEx Waybill # 8694 3422 5128

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

SUBSURFACE

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 2 OF 2 COC # 4

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS TAVENNE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 EXT 17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ (*see below) ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals: Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, DOC (circle) NO2+NO3	TOX-9020☐ AOX-1650☐ 506☐	GRAIN SIZE (TOT. SULFIDES & TOC) STUDY				TAG # REMARKS
SN-0750	5/3/11	1240		SED	1									X										1072
SN-0751		1245			1									X										1073
SN-0752		1250												X										1074
SN-0753		1300												X										1075
SN-0754		1310	TAG #											X										1076
SN-0755		1320			↓									X										1077
SN-0756		~~1245~~ 1255			3	X			X	X		X			X	X	X	X	X					1078-1080
SN-0757		1305			1	X			X	X		X			X	X	X	X	X					1081-1083
SN-0758		1300				X			X	X		X			X	X	X	X	X					1084-1086
SN-0759	↓	1315	1068	↓	↓	X			X	X		X			X	X	X	X	X					1087-1089

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

ALL SAMPLES: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO < 2mm.

FedEx Waybill # 8694 3422 5128

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 5/4/11 13:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 10

PROJECT NAME: UCK Beach sampling 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0710	5/3/11	1210		S	3	TG 1001-1003
SN-0711		1211			3	TG 1004-1006
SN-0712		1212			3	TG 1007-1009
SN-0713		1213			3	TG 1010-1012
SN-0714		1214			3	TG 1013-1015
SN-0715		1215		↓	3	TG 1016-1018
SN-0734	↓	1240		W	2	TG 1043-1044

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals: Total or Dissolved (See list below)
Cyanide
pH, Cond., Cl, SO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020☐ AOX 1650☐ 506☐
Grain size percent fines + total sulfides
Fines + IVBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex waybill # 8694 3422 5/28

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/4/11 0750	Date/Time: 5/4/11 0950	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 11

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	Metals: Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	REMARKS
SN-0716	5/3/11	1250		S	1	X							TG-1019
SN-0717	"	1251		"	1	X							TG-1020
SN-0718	"	1252		"	1	X							TG-1021
SN-0719	"	1303		"	1	X							TG-1022
SN-0720	"	1304		"	1	X							TG-1023
SN-0721	"	1305		"	1	X							TG-1024
SN-0722	"	1314		"	1	X							TG-1025
SN-0723	"	1315		"	1	X							TG-1026
SN-0724	"	1316		"	1	X							TG-1027
SN-0725	↓	1325		↓	1	X							TG-1028

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex Waybill # 8694 3422 5128

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/4/11 0750	Date/Time: 5/4/11 0750	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: SIENNA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 2 OF 2 COC # 12

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0726	5/2/11	1326		S	1	TG 1029
SN-0727		1327			1	TG 1030
SN-0728		1342			1	TG 1031
SN-0729		1343			1	TG 1032
SN-0730		1344			1	TG 1033
SN-0731		1350			3	TG 1034-1036
SN-0732		1351			3	TG 1037-1039
SN-0733		1352			3	TG 1040-1042

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒
Volatile Organics 624☐ 8260☐
Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ (*see below)
☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☒ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics: Tri☐ Tetra☐ 8151M PCP☐
PAHs 8310☐ SIM☒
(Metals, Total or Dissolved (See list below)) ICP/MS☒
Cyanide☐ Hex-Chrom☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC; DOC (circle) NO_2+NO_3
TOX 9020☐ AOX 1650☐ 506☐
Grain size, total solids, percent moisture

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Fed Ex Waybill # 8694 3422 5126

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 5/4/11 0750	Date/Time: 5/4/11 0750	Date/Time: 5/4/11 13:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # 1429 1

PROJECT NAME: NCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA ~~98502~~ 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0506	4/21/11	1135		SED	3	TG601-03
SN-0507	4/28/11	1350				TG604-06
SN-0508		1355				TG607-09
SN-0509		1225				TG610-12
SN-0510		1400				TG613-15
SN-0511		1410				TG616-18
SN-0530		1505		WTR	2	TG643-44

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHs 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
URANIUM Cyanide ☐ Hex-Chrom ☐
pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC: DOC (circle) NO_2+NO_3
ARCHIVE TEX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOT SULFIDES, POREWATER SULFIDES, FINES + IWRA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to < 2mm.

FEDEX WAYBILL # 4694 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/11 11:25	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 52 Kda

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
SN-0512	4/28/11	1215		SED	1	X	TG 619
SN-0513		1225				X	TG 620
SN-0514		1235				X	TG 621
SN-0515		1245				X	TG 622
SN-0516		1255				X	TG 623
SN-0517		1305				X	TG-624
SN-0518		1315				X	TG 625
SN-0519		1325				X	TG-626
SN-0520		1335				X	TG-627
SN-0521	↓	1345		↓	↓	X	TG-628

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals: Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION
P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS
____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:
Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to < 2mm.

FED EX WAYBILL # 8691 3423 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton 11:25	Signature:	Signature:	Signature:
Date/Time: 4/29/11	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 2 OF 2 COC # 3 KAC

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ (*see below) Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Uranium Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3 TOX 9020 ☐ AOX 1650 ☐ 9060 ☐	Archive Grain Size, TOT SULFIDES, % MOISTURE			REMARKS
SN-0522	4/26/11	1355		SED	1									X										TG-6529
SN-0523		1405			1									X										TG-6530
SN-0524		1415			1									X										TG-6531
SN-0525		1425			1									X										TG-6532
SN-0526		1435			1									X										TG-6533
SN-0527		1450			3	X				X	X		X		X	X	X	X	X					TG-6534-36
SN-0528		1454			1	X				X	X		X		X	X	X	X	X					TG-6537-39
SN-0529		1455			1	X				X	X		X		X	X	X	X	X					TG-6540-42
																								TG-523

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All Samples: grain size on whole sediments, all other analyses sieved to <2mm.

FED EX WAYBILL # 8694 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Kim Carlton 4/29/11 11:25			
Signature Date/Time	Signature Date/Time	Signature Date/Time	Signature Date/Time
Kim CARLTON INTEGRAL			
Printed Name Firm	Printed Name Firm	Printed Name Firm	Printed Name Firm

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 4

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: Boss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Silvia Barber / Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0480	4/28/11	1342		S	3	T6547-549
SN-0481		1344			3	T6550-552
SN-0482		1346			3	T6553-555
SN-0483		1348			3	T6556-558
SN-0484		1350			3	T6559-561

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FiQ)
☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHs 8310☐ SIM☐
Metals, Total or Dissolved (See list below)
Cyanide☐ (ARCHIVE)
Hex-Chrom☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC; DOC (circle) NO_2+NO_3
TOX 9020☐ AOX 1650☐ 506☐
Grain size - (Material Passing Percent Moisture)
Fines + NBA
RADIONUCLIDES

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
✓ Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

FED EX WAYBILL # 8694 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/28/11 1738	Date/Time: 4/28/11 1738	Date/Time: 4/29/11 11:25	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 3 COC # 5

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Sam Baer

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Fuel Fingerprint (FIQ)☐ Oil☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
SN-0485	4/28/11	1435		S	1									X						TG 562
SN-0486		1436			1									X						TG 563
SN-0487		1437			1									X						TG 564
SN-0488		1455			1									X						TG 565
SN-0489		1456			1									X						TG 566
SN-0490		1457			1									X						TG 567
SN-0491		1458			1									X						TG 568
SN-0492		1513			1									X						TG 569
SN-0493		1514			1									X						TG 570
SN-0494	↓	1515		↓	1									X						TG 571

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2mm

FEDEX WAYBILL # 8694 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Sam Baer	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/28/11 1738	Date/Time: 4/28/11 1738	Date/Time: 4/29/11 11:25	Date/Time:
Printed Name: SAMUEL BAER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 2 OF 3 COC # 6

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Jess Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE: Sarah Baker

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	BTEX ☐ 8021 ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	(pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020 ☐	AOX-1650 ☐ 506 ☐	Grain size percent moisture			REMARKS
SN-0495	4/28/11	1530		S	1										X									TG-572
SN-0496		1531			1										X									TG-573
SN-0497		1532			1										X									TG-574
SN-0498		1548			1										X									TG-575
SN-0499		1549			1										X									TG-576
SN-0500		1550			1										X									TG-577
SN-0501		1551			3	X					X	X		X		X	X	X	X	X				TG578-580
SN-0502		1552			3	X					X	X		X		X	X	X	X	X				TG581-583
SN-0503		1553			3	X					X	X		X		X	X	X	X	X				TG584-586
SN-0504		1554			3	X					X	X		X		X	X	X	X	X				TG587-TG589

Arsenic Total & dissolved

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm

FED EX WAYBILL # 8814 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Sarah Baker	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/28/11 1738	Date/Time: 4/28/11 1738	Date/Time: 4/29/11 11:25	Date/Time:
Printed Name: SARAH BAKER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 3 OF 3 COC # 7

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore/Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting 1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	HOLD	REMARKS
SN-0505	4/28/11	1600		W	9	X					X	X		X	X	X	Hex-Chrom ☐	X	X		To 590-598

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm
Hold = hold PCDD/F, PCB congners & PBDE rinse blanks for further instruction.
FED EX WAYBILL # 8694 3422 5091

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 4/29/11 1738	Date/Time: 4/29/11 1738	Date/Time: 4/29/11 11:25	Date/Time:
Printed Name: SILVIA BARBOZA	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

CHAIN OF CUSTODY

SR#: _____

PAGE 2 OF 2 COC # 3

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: CS21-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE # 360-705-3534 x17 FAX #
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0471	4/27/11	1405		SED	1	TG-5291
SN-0472		1415				TG-5300
SN-0473		1425				TG-5311
SN-0474		1435				TG-5322
SN-0475		1445			↓	TG-5333
SN-0476		1515			3	TG-5341-346
SN-0477		1525				TG-5347-359
SN-0478	↓	1535		↓	↓	TG-5360-372
			K Carlton			
						TG-5328

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons Gas ☐ Diesel ☐ Oil ☐ (*see below)
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
~~Cyanide~~ ☐ ~~HEXAVALENT~~ Hex.Chrom ☐
pH Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC (circle) NO_2+NO_3
ARCHIVE TOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOT SULFIDES, % MOISTURE
TIMES + IVBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
☒ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
☒ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
☒ Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: Grain size on whole sediments, all other analyses sieved to < 2 mm.

FED EX WAYBILL # 8694 3422 5080

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/11 11:25	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

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SR#: _____ PAGE 1 OF 2 COC # 2

PROJECT NAME: UAR BEACH SAMPLING 2011
PROJECT NUMBER: C591-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	REMARKS
SN-0461	4/27/11	12:20		SED	1										X						TG-519
SN-0462		12:30													X						TG-520
SN-0463		~~12:40~~													X						TG-521
SN-0464		12:50													X						TG-522
SN-0465		13:00													X						TG-523
SN-0466		13:10													X						TG-524
SN-0467		13:20													X						TG-525
SN-0468		13:30													X						TG-526
SN-0469		13:40													X						TG-527
SN-0470		13:55													X						TG-528

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS: All samples: ~~[illegible]~~ Grain size on whole sediments, all other analyses sieved to 2mm.

FED EX WAYBILL # 8694 3422 5080

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/11 11:25	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: _____

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PAGE 1 OF 1 COC # 1

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0455	4/29/11	1300		SED	3	TG501-3
SN-0456		1305				TG504-6
SN-0457		1445				TG507-9
SN-0458		1230				TG510-12
SN-0459		1500				TG513-15
SN-0460		1505		↓	↓	TG516-18
SN-0479	↓	1530		WTR	2	TG543-44

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
(Metals, Total or Dissolved (See list below))
URANIUM
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, NH_3-N, COD, Total-P, TKN, TOC, DOC (circle)
ACUTE
TOX-9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOT SULFIDES, % MOISTURE
FINES + IVBA
RADIONUCLIDES
HOLD

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
☒ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
☒ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
☒ Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: ~~Al~~ As Sb Ba Be B ~~Ca~~ Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS: All samples: grain size or whole sediments, all others analyses sieved to ≤2mm.
Hold = hold PCDD/F, PCB Congeners, & PBDE rinse blanks for further instruction.
FED EX WAYBILL #8694 3422 5080

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Kim Carlton 4/29/11 11:25			
Signature / Date/Time	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
KIM CARLTON / INTEGRAL	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

PAGE 1 OF 1 COC # 1

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME: UCR BEACH SEDIMENT 2011
PROJECT NUMBER: C521 - 0101
PROJECT MANAGER: JASS MOORE/LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ Diesel☐ (*see below) Oil☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX-9020☐ AOX-1650☐ 506☐	Grain size (1st 50 samples, 20 thereafter)	Fines + RADIONUCLIDES	HOLD	REMARKS
SN-0429	4/26/11	1245		SED	3									X	X	X	X	X	X		X		TG447-9
SN-0430		1300												X	X	X	X	X	X		X		TG450-2
SN-0431		1305												X	X	X	X	X	X		X		TG453-5
SN-0432		1255												X	X	X	X	X	X		X		TG456-8
SN-0433		~~1445~~ 1445												X	X	X	X	X	X	X	X		TG459-61
SN-0454		1450		WTR	9		X				X	X		X	X	X		X				X	TG490-98

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to <2mm.
Hold = hold PCDD/F, PCB Congeners, PBDE rinse blanks for further instruction

FED EX WAYBILL # 8694 3422 5070

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton 10:30 4/27/11	Signature	Signature	Signature
Date/Time	Date/Time	Date/Time	Date/Time
Printed Name: KIM CARLTON	Printed Name	Printed Name	Printed Name
Firm: INTEGRAL	Firm	Firm	Firm

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 1 OF 2 COC # 2

PROJECT NAME	LCR BEACH SEDIMENT 2011
PROJECT NUMBER	C521-0101
PROJECT MANAGER	JASS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS	INTEGRAL CONSULTING INC
	1205 WEST BAY DRIVE NW
CITY/STATE/ZIP	OLYMPIA, WA 98502
E-MAIL ADDRESS	CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #	360-705-3534 x17 FAX #
SAMPLER'S SIGNATURE	Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-~~0434~~ 0434	4/26/11	11:05		SED	1	TG 462
SN-0435		11:15				TG 463
SN-0436		11:25				TG 464
SN-0437		11:35				TG 465
SN-0438		11:45				TG 466
SN-0439		~~11:50~~ 11:48			9	~~TG~~ 467
SN-0440		1155				TG 468
SN-0441		1225				TG 469
SN-0442		1235				TG 470
SN-0443		1245				TG 471

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
Cyanide ☐ URANIUM Hex-Chrom ☐
(pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ ARSENIC AOX 1650 ☐ 506 ☐
GRAIN SIZE, TST SULFIDES % MOISTURE
FINES + IVBA
RADIONUCLIDES

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

_X_ III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

_X_ V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

_X_ Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to <2mm.

FED EX WAYBILL # 8694 3422 5070

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/27/11 10:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____ PAGE 2 OF 2 COC # 3

PROJECT NAME: VCR BEACH SAMPLING 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: JOSS MOORE/ LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex.Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	ARSENIC TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE TST SULFIDES 9D W/DISTRIKE	FINES + LVBA	REMARKS
SN-0444	4/26/11	1315		SED	1										X									TG 472
SN-0445		1325													X									TG 473
SN-0446		1335													X									TG 474
SN-0447		1345													X									TG 475
SN-0448		1355													X									TG 476
SN-0449		~~1405~~			↓								KEC		X									TG 477
SN-0450		1420			3	X					X	X		X		X	X	X	X	X				TG 478-80
SN-0451		1425				X					X	X		X		X	X	X	X	X				TG 481-3
SN-0452		1430				X					X	X		X		X	X	X	X	X				TG 484-6
SN-0453	↓	1415		↓	↓	X					X	X		X		X	X	X	X	X				TG 487-9

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: ~~Al As Sb Ba Be~~ B ~~Ca Cd Co Cr Cu Fe Pb Mg Mn~~ Mo ~~Ni K Ag Na Se~~ Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to < 2mm.

FED EX WAYBILL # 8694 3422 5070

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton 4/27/11 10:30	Signature	Signature	Signature
Printed Name: KIM CARLTON	Printed Name	Printed Name	Printed Name
Firm: INTEGRAL	Firm	Firm	Firm
Date/Time	Date/Time	Date/Time	Date/Time

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 4

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore/Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534x14 FAX #:
SAMPLER'S SIGNATURE: Silvia Barber

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN0404	4/26/11	1410		S	3	TG401-403
SN0405		1414		S	3	TG404-406
SN0406		1428		S	3	TG407-409
SN0407		1434		S	3	TG410-412
SN0408		1440		S	3	TG413-415
SN0409		1441		S	3	TG416-418
SN-0428		1500		W	2	TG443-444

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐
Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ (*see below) Oil☐
☐ Fuel Fingerprint (FIO)
☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals: Total or Dissolved (See list below)
Cyanide☐ CHROMIUM Hex-Chrom☐
(pH) Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO2+NO3
TOX 9020☐ AOX 1650☐ 506☐
Grain size total solids (percent moisture)
Fines + IVBA
Radionuclides

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO < 2mm

~~FED~~ EX WAYBILL # 8694 3422 5070

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Date/Time: 4/27/11 0807	Date/Time: 4/27/11 0807	Date/Time: 4/27/11 1013	Date/Time:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC # 5

PROJECT NAME: OCR Beach Sampling 2011
PROJECT NUMBER: 521-0101
PROJECT MANAGER: Joss Moore. Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	REMARKS
SN-0410	4/26/11	1515		S	1	X	X	TG419
SN-0411		1516			1	X	X	TG420
SN-0412		1517			1	X	X	TG421
SN-0413		1533			1	X	X	TG422
SN-0414		1534			1	X	X	TG423
SN-0415		1535			1	X	X	TG424
SN-0416		1545			1	X	X	TG425
SN-0417		1546			1	X	X	TG426
SN-0418		1547			1	X	X	TG427
SN-0419	↓	1600		↓	1	X	X	TG428

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses stored to <2mm

FED EX WAYBILL # 8694 3422 5070

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 4/27/11 0807	Date/Time: 4/27/11 0807	Date/Time: 4/27/11 10:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC # 6

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 | FAX #:
SAMPLER'S SIGNATURE: Silvia Barber

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	(Metals; Total or Dissolved (See list below)	Cyanide ☐	pH; Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Grain size, total solids, percent fines, SPHC				REMARKS
SN-0420	4/26/11	1601		S	1								X											TG-429
SN-0421	|	1602		|	1								X											TG-430
SN-0422	|	1620		|	1								X											TG-431
SN-0423	|	1621		|	1								X											TG-432
SN-0424	|	1622		|	1								X											TG-433
SN-0425	|	1625		|	3	X				X	X		X		X	X	X	X	X					TG-434-436
SN-0426	|	1626		|	3	X				X	X		X		X	X	X	X	X					TG-437-439
SN-0427	↓	1629		↓	3	X				X	X		X		X	X	X	X	X					TG-440-442

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses were to < 2 mm

FED EX WAYBILL # 8694 3422 5070

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/27/11 0807	Date/Time: 4/27/11 0807	Date/Time: 4/27/11 10:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____

PAGE 1 OF 3 COC # 1

PROJECT NAME: UCR BEACH SEDIMENT 2011
PROJECT NUMBER: 0521-010
PROJECT MANAGER: JESS MOORE / LDB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 X17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0378	4/25/11	11:20		SED	3	TG349-9
SN-0379	"	1415		"	"	TG350-2
SN-0380	"	1130		"	"	TG353-5
SN-0381	"	1435		"	"	TG356-8
SN-0382	"	1400		"	"	TG359-61
SN-0403	4/25/11	1515		INTR	9	TG390-8

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ (*see below) Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FiQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
Cyanide ☐ WAD/Lachat
(pH) Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) Hex-Chrom ☐
NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
Grain Size, TOC, Total Sulfides, 2mm Sieve
Fines + IVBA
Radionuclides
Hold

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION
P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS
____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:
Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All Samples: grain size on whole sediments, all others analyses sieved to <2 mm.
Hold PCDD/F, PCB Congeners, & PBDE rinse blanks for further instruction.

FED EX WAYBILL # 8694 3422 5069

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/26/11 09:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 2 OF 3 COC # 2

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: 521-0101
PROJECT MANAGER: JOSS WOODRE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: 7305 WEST BAY DRIVE NW
OLYMPIA, WA 98502
CITY/STATE/ZIP: INTEGRAL CONSULTING INC
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX-9020 ☐ AOX-1650 ☐ 506 ☐	GRAIN SIZE, TPT SULFIDES & MOISTURE	FINES + LVBA	RADIONUCLIDES	REMARKS
SN-0383	4/25/11	11:15		SED	1	X									TG 362
SN-0384		11:20				X									TG 363
SN-0385		11:25				X									TG 364
SN-0386		11:45				X									TG 365
SN-0387		11:50				X									TG 366
SN-0388		11:55				X									TG 367
SN-0389		12:05				X									TG 368
SN-0390		12:20				X									TG 369
SN-0391		12:25				X									TG 370
SN-0392		12:30				X									TG 371

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to 2mm.

FED EX WAYBILL # 8694 3422 5069

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/26/11 09:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____ PAGE 3 OF 3 COC # 3

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0393	4/25/11	~~1240~~	1210	SED	1	TG 372
SN-0394		~~1250~~	1250		1	TG 373
SN-0395		~~1300~~	1300		1	TG 374
SN-0396		~~1315~~	1315		1	TG 375
SN-0397		~~1325~~	1325		1	TG 376
SN-0398		1335	1335		1	TG 377
SN-0399		1420			3	TG 378-80
SN-0400		1422			3	TG 381-3
SN-0401		1425			3	TG 384-6
SN-0402		1430			3	TG 387-9

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
URANIUM Cyanide ☐ Hex-Chrom ☐
(pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOC, % moisture
FINES + IVEA
RADIONUCLIDES

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
all samples: grain size on whole sediments, all other analyses sieved to <2mm.

FED EX WAYBILL # 8694 3422 5069

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Kim Carlton 4/26/11 09:30			
Signature / Date/Time	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
Kim CARLTON INTEGRAL			
Printed Name / Firm	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 4

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Silvia Barber

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ (*see below) Oil☐ Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals: Total or Dissolved (See list below)	Cyanide☐ CN Amenable☐	pH☐ Cond., Cl, SO_4, Hex-Chrom☐ NO_3; BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, PO_4, F, NO_2, NO_3+NO_2-N, TKN, TOC, DOC (circle)	TOX 9020☐ AOX 1650☐ 506☐	Fines + IVGA	Radionuclides	Grain size, total sulfides, percent moisture	REMARKS
SN-0353	4/25/11	1340		S	3									X	X	X	X	X		X	X	TG301-303
SN-0354		1343			3									X	X	X	X	X		X	X	TG304-306
SN-0355		1346			3									X	X	X	X	X		X	X	TG307-309
SN-0356		1349			3									X	X	X	X	X		X	X	TG310-312
SN-0357		1351			3									X	X	X	X	X		X	X	TG313-315
SN-0358		1354		↓	3									X	X	X	X	X	X	X	X	TG316-318
SN-0377	↓	1425		W	4									X	X					X		TG343-346

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2mm

FED EX WAYBILL # 8694 3422 5069

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Date/Time: 4/26/11 0700	Date/Time: 4/26/11 0700	Date/Time: 4/26/11 09:30	Date/Time:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC # 5

PROJECT NAME	UCR Beach Sampling 2011
PROJECT NUMBER	C521-0101
PROJECT MANAGER	Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS	Integral Consulting
	1205 West Bay Drive NW
CITY/STATE/ZIP	Olympia WA 98502
E-MAIL ADDRESS	chutchings@integral-corp.com
PHONE #	360-705-3534 x17
FAX #	
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐	☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐	8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals: Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐	AOX 1650☐ 506☐				REMARKS
SN-0359	4/25/11	1430		S	1												X										TG 319
SN-0360		1431			1												X										TG 320
SN-0361		1432			1												X										TG 321
SN-0362		1450			1												X										TG 322
SN-0363		1451			1												X										TG 323
SN-0364		1452			1												X										TG 324
SN-0365		1510			1												X										TG 325
SN-0366		1511			1												X										TG 326
SN-0367		1512			1												X										TG 327
SN-0368	↓	1525		↓	1												X										TG 328

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on wind sediments, all other analyses sieved to <2 mm

FED EX WAY BILL # 8694 3422 5069

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: SW Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/26/11 0700	Date/Time: 4/26/11 07:00	Date/Time: 4/26/11 09:30	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 2 OF 2 COC # 6

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Jess Moore/Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Silvia Barber

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	(Metals: Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	Grain size/total solids/ percent moisture			REMARKS
SN-0369	4/25/11	1526		S	1										X										TG 329
SN-0370		1527			1										X										TG 330
SN-0371		1544			1										X										TG 331
SN-0372		1545			1										X										TG 332
SN-0373		1546			1										X										TG 333
SN-0374		1555			3	X						X	X	X		X		X	X	X	X	X			TG 334-336
SN-0375		1552			3	X						X	X	X		X		X	X	X	X	X			TG 337-339
SN-0376	↓	1554		↓	3	X						X	X	X		X		X	X	X	X	X			TG 340-342

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm

FED EX
WAYBILL # 8694 3422 5069

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Date/Time: 4/26/11 0700	Date/Time: 4/26/11 07:00	Date/Time: 4/26/11 09:30	Date/Time:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 1 COC # 1

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0225	4/22/11	14:30		SED	3	TG47-49
SN-0228		14:45				TG56-58
SN-0229		15:00				TG59-61
SN-0226		17:00				TG50-52
SN-~~BC~~ 0227		17:15				TG53-55

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ (*see below) Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID ☐
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below) URANIUM
Cyanide ☐ Hex Chrom ☐
(pH) Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3
ARCHIVE TOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE; TOTAL SULFIDES, % MOISTURE
FINES + IVBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO <2mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 0900	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____

PAGE 1 OF 1 COC # 2

PROJECT NAME: NCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 X17 FAX #:
SAMPLER'S SIGNATURE: Kimberly Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	REMARKS
SN-0230	4/22/11	1820		SED	1	X		TG62
SN-0231		1822				X		TG63
SN-0232		1825				X		TG64
SN-0233		1830				X		TG65
SN-0234		1840				X		TG66
SN-0235		1845				X		TG67
SN-0236		1850				X		TG68
SN-0237		1900				X		TG69
SN-0238		1905				X		TG70
SN-0239		1910				X		TG71

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen ☐ Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals: Total or Dissolved (See list below) URANIUM
Cyanide ☐ Hex. Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO_2+NO_3
ARCHIVE TOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE TOTAL SULFIDES % MOISTURE

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO < 2MM.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kimberly Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 0900	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services

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SR#: _____ PAGE 1 OF 1 COC # 3.

PROJECT NAME: GGR BEACH 2011
PROJECT NUMBER: C521 - 0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE # 360-705-3534 x11 FAX #
SAMPLER'S SIGNATURE: Kimberly Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH; Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, (TOC) DOC (circle) NO2+NO3	TOX-9020 ☐ AOX-1650 ☐ 506 ☐	GRAIN SIZE, TSULFIDES & MOISTURE	REMARKS
SN-0240	4/22/11	1915		SED	1								X								TG72
SN-0241		1920											X								TG73
SN-0242		1925											X								TG74
SN-0243		1930											X								TG75
SN-0244		1935											X								TG76
SN-0245		1940											X								TG77
SN-0247		1955			3	X			X	X		X		X	X	X	X	X			TG81-83
SN-0248		1955				X			X	X		X		X	X	X	X	X			TG84-86
SN-0246		1950				X			X	X		X		X	X	X	X	X			TG78-80
SN-0249	↓	2000		↓		X			X	X		X		X	X	X	X	X			TG87-89

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHERS ANALYSES SIEVED (KAL) TO < 2 mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

PAGE 1 OF 1 COC # 4

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC / 205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 30-705-3534 X17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	URANIUM	Cyanide ☐ Hex-Chrom ☐	pH; Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐			HOLD	REMARKS
SN0250	4/22/11	1930		WTR	9		X				X	X		X	X	X		X					X	T690-98

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

HOLD = HOLD PCDD/F, PCB CONGENERS, & PBDE RINSE BLANKS FOR FURTHER INSTRUCTION.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 0900	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 5

PROJECT NAME	UCR BEACH SAMPLING 2011
PROJECT NUMBER	C521-0101 (JM 4/22)
PROJECT MANAGER	JOSS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS	INTERTIDAL CONSULTING
	1205 WEST BAY DRIVE NW
CITY/STATE/ZIP	OLYMPIA WA 98502
E-MAIL ADDRESS	CHUTCHINGS@INTERTIDAL-CORP.COM
PHONE #	360-705-3534 FAX #
SAMPLER'S SIGNATURE	Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN0200	4/22	1340		S	3	TG1-3
SN-0201	4/22/11	1341		S	3	TG4-6
SN-0202		1345		S	3	TG7-9
SN-0203		1346		S	3	TG10-12
SN-0204		1347		S	3	TG13-15
SN-0205	↓	1348		S	3	TG16-18
~~SDUP-SN08~~	4/22	1420		SW	~~3~~ 2	TG43 ~~TG46~~ 45
~~SN-0204~~					~~3~~ 2	
KAC		KAC				

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐
Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ (*see below) Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID ☐
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
(Metals, Total or Dissolved (See list below))
Cyanide ☐ CHROMIUM Hex-Chrom ☐
pH, Cond, Cl, SO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX-9020 ☐ AOX-1650 ☐ 506 ☐
GRAIN SIZE, TOTAL SOLIDS d/o MOISTURE
FINES + LOI
Archive
KAC

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al) As Sb Ba Be B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

- GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHERS SIEVED TO <2mm
- FINES + LOI ON SN-0203 ONLY.

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/22/11 17:00	Date/Time: 4/22/11 17:00	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: JOSS MOORE	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTERTIDAL	Firm: INTERTIDAL	Firm: INTERTIDAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC # 6

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JASS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTERTEK CONSULTING
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTERTEK-USRP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☒	REMARKS
SN-0206	4/22	1450		S	1	X	TG19
SN-0207		1455		S	1	X	TG20
SN-0208		1500		S	1	X	TG21
SN-0209		1511		S	1	X	TG22
SN-0210		1513		S	1	X	TG23
SN-0211		1515		S	1	X	TG24
SN-0212		1518		S	1	X	TG25
SN-0213		1519		S	1	X	TG26
SN-0214		1520		S	1	X	TG27
SN-0215	↓	1527		S	1	X	TG28

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FiO) ☐ NW-HCID ☐ Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond, Cl, SO_4^{2-}, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

- GRAIN SIZE ON WHOLE SEDIMENTS. ALL OTHER ANALYSES SIEVED TO 2 mm

Waybill # 8694 3422 5059

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/22/11 17:00	Date/Time: 4/22/11 17:00	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: JASS MOORE	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTERTEK	Firm: INTERTEK	Firm: INTERTEK	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 2 OF 2 COC # 7

PROJECT NAME	UCR BEACH SAMPLING 2011
PROJECT NUMBER	CSZ1-0101
PROJECT MANAGER	JOSS MOORE / CRAIG HUTCHINS
COMPANY/ADDRESS	INTEGRAL CONSULTING
	1205 WEST BAY DRIVE NW
CITY/STATE/ZIP	OLYMPIA WA 98502
E-MAIL ADDRESS	CHUTCH@INTEGRAL-CORP.COM
PHONE #	360.705.3534 FAX #
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ Diesel☐ (*see below) Oil☐	☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors 8082☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐ Chromium Hex-Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ TOC 9060☐	AQX 1650☐ 506☐ GRAIN SIZE, TOTAL SOLIDS & % MOISTURE				REMARKS
SN-0216	4/22	1528		S	1									X										TG29
SN-0217		1529		S	1									X										TG30
SN-0218		1542		S	1									X										TG31
SN-0219		1543		S	1									X										TG32
SN-0220		1544		S	1									X										TG33
SN-0221		1600		S	3	X				X	X		X		X	X	X	X	X					TG34-36
SN-0222		1612		S	3	X				X	X		X		X	X	X	X	X					TG37-39
SN-0223		1614		S	3	X				X	X		X		X	X	X	X	X					TG40-42
				S																				
				S																				

JM 4/22

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS. ALL OTHER ANALYSES SIEVED TO <2mm.

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/22/11 17:00	Date/Time: 4/22/11 17:00	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: Joss Moore	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 1 OF 1 COC # 8

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC., 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ ARCHIVE	GRAIN SIZE, TOTAL SULFIDES, & MOISTURE ☐ 506 ☐ AOX 1650 ☐	FINES * IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0276	4/23/11	13:30		SED	3									X	X	X	X	X	X						TG147-9
SN-0277		13:35												X	X	X	X	X	X	X					TG150-2
SN-0278		13:40												X	X	X	X	X	X						TG153-5
SN-0279		13:45												X	X	X	X	X	X						TG156-8
SN-0280		13:55												X	X	X	X	X	X						TG159-61

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All Samples: grain size on whole sediments, all other analyses sieved to <2mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services™

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SR#: _____ PAGE 1 OF 1 COC # 9

PROJECT NAME	UCR BEACH SAMPLING 2011
PROJECT NUMBER	C521-0101
PROJECT MANAGER	JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY ADDRESS	INTEGRAL CONSULTING INC / 205 WEST BAY DRIVE NW
CITY/STATE/ZIP	OLYMPIA, WA 98502
E-MAIL ADDRESS	CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #	360-705-3534 x17
FAX #	
SAMPLER'S SIGNATURE	Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN (circle) NO_2+NO_3	DOC (circle) TOC	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	GRAIN SIZE / TOTAL SOLIDS (% MOISTURE)	FINES + IVEA	RADIONUCLIDES	HOLD	REMARKS
SN-0281	4/23/11	1040		SED	1								X													TG162
SN-0282		1045			1								X													TG163
SN-0283		1045			1								X													TG164
SN-0284		1050			1								X													TG165
SN-0285		1055			1								X													TG166
SN-0286		1100			1								X													TG167
SN-0287		1105			1								X													TG168
SN-0288		1115			1								X													TG169
SN-0289		11:20			1								X													TG170
SN-0290	↓	11:25		↓	1								X													TG171

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to <2mm. Kec

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature	Signature	Signature
Date/Time: 4/25/11 09:00	Date/Time	Date/Time	Date/Time
Printed Name: KIM CARLTON	Printed Name	Printed Name	Printed Name
Firm: INTEGRAL	Firm	Firm	Firm

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 1 OF 1 COC # 10

PROJECT NAME: UCR BEACH SEDIMENT SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	URANIUM	Cyanide ☐	(pH) Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3	ARSENIC TOX-9020 ☐ AOX-1650 ☐ 506 ☐	GRAIN SIZE, TOTAL SULFIDES, % MOISTURE	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0291	4/23/11	1200		SED	1								X											TG172
SN-0292		1205			1								X											TG173
SN-0293		1210			1								X											TG174
SN-0294		1215			1								X											TG175
SN-0295		12:20			1								X											TG176
SN-0296		12:25			1								X											TG177
SN-0297		1435			3	X			X	X		X		X										TG178-80
SN-0298		1440			3	X			X	X		X		X										TG181-83
SN-0299		1445			3	X			X	X		X		X										TG184-6
SN-0300	↓	1450		↓	3	X			X	X		X		X										TG187-9

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to <2mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature: KAC	Signature:	Signature:
Date/Time: 4/25/11 09:00 ~~09:00~~	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

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SR#: _____ PAGE 1 OF 1 COC # 11

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons (*see below) Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics Tri ☐ Tetra ☐ 8151M PCP ☐	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	Cyanide ☐	(pH) Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	Hex-Chrom ☐	TOX 9020 ☐ AOX 1650 ☐ 9076 ☐	GRAIN SIZE (circle) SIEVE HYDR. % MOISTURE	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0301	4/23/11	1455		WTR	9	X				X	X		X	X	X		X					X	T6190-198		

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
☒ III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
☒ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
☒ Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Hold = hold PCDD/F, PCB congeners, & PBDE rinse blanks for further instruction.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC # 12

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101 (0564123)
PROJECT MANAGER: Tess Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
120 S West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐	REMARKS
SN-0257	4/23/11	1415		S	1	X	TG 119
SN-0258		1417			1	X	TG 120
SN-0259		1419			1	X	TG 121
SN-0260		1421			1	X	TG 122
SN-0261		1423			1	X	TG 123
SN-0262		1425			1	X	TG 124
SN-0263		1427			1	X	TG 125
SN-0264		1429			1	X	TG 126
SN-0265		1431			1	X	TG 129
SN-0266	↓	1433		↓	1	X	TG 128

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

Waybill # 8694 3422 5058
☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 4/23/11 1656	Date/Time: 4/23/11 1656	Date/Time: 4/26/11 09:00	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: H. JESSE BENNETT	Printed Name: H. JESSE BENNETT	Printed Name:
Firm: INTEGRAL	Firm: Panamerix	Firm: Panamerix	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 2 OF 2 COC # 13

PROJECT NAME: UCR Beach Sampling 2011 (Sb) 4/23

PROJECT NUMBER: CS21-0101

PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings

COMPANY/ADDRESS: Integral Consulting

120 S West Bay Drive NW

CITY/STATE/ZIP: Olympia WA 98502

E-MAIL ADDRESS: chutchings@integral-corp.com

PHONE #: 360-705-3534 x17 | FAX #:

SAMPLER'S SIGNATURE: Sh Bar

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE TOTAL SULFIDES (Sb has ISTDs)				REMARKS
SN-0267	4/23/11	1435		S	1									X										TG 129
SN-0268	"	1437		"	1									X										TG 130
SN-0269	"	1439		"	1									X										TG 131
SN-0270	"	1441		"	1									X										TG 132
SN-0271	"	1443		"	1									X										TG 133
SN-0272	"	1536		"	3	X					X	X		X		X	X	X	X	X				TG134-136
SN-0273	"	1537		"	3	X					X	X		X		X	X	X	X	X				TG137-139
SN-0274	↓	1538		↓	3	X					X	X		X		X	X	X	X	X				TG140-142

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

X Standard (10-15 working days)

___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grainsize on whole sediment, all other analyses sieved to <2mm

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Sh Bar 4/23/11 1656	R Jesse Bennett 4/23/11 1657 (1656)	09:00	
Signature / Date/Time	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
SILVIA BARBER / INTEGRAL	H JESSE BENNETT / Fairmetrix		
Printed Name / Firm	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 1 OF 1 COC # 14

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Jim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☐ Congeners☐	Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☐	Metals, Total or Dissolved (See list below)	Cyanide☐ URANIUM	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3	TOX-9020☐ AOX-1650☐ 506☐ ARCHIVE	GRAIN SIZE ☐ TOTAL ☐ SAND/SILT/CLAY ☐ % MOISTURE	FINES ☐ LWBA			REMARKS
SN-0256	4/23	1220		S	3									X	X	X	X	X	X	X			TG116-118
SN-0251		1250		S	3									X	X	X	X	X	X				TG101-103
SN-0252		1340		S	3									X	X	X	X	X	X				TG104-106
SN-0253		1345		S	3									X	X	X	X	X	X				TG107-109
SN-0254		1240		S	3									X	X	X	X	X	X				TG110-112
SN-0255		1343		S	3									X	X	X	X	X	X				TG113-115
~~SDL-0125~~	↓	1356		W	2									X	X								TG143-~~144~~
SN-0215																							

Kor 4/20

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHERS ANALYSES SIEVED TO <2mm.

Waybill # 8694 3422 5059

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 4/23/11 1655	Date/Time: 4/23/11 ~~1655~~ 1650	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: A. JESSE BENNETT	Printed Name: A. JESSE BENNETT	Printed Name:
Firm: INTEGRAL	Firm: ~~INTEGRAL~~ SEALASKA	Firm: SEALASKA	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

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PAGE 1 OF 2 COC # 15

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: 521-0101
PROJECT MANAGER: Jess Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX#:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐					REMARKS
SN-0308	4/24/11	1425		S	1									X											TG219
SN-0309	"	1426		"	1									X											TG220
SN-0310	"	1427		"	1									X											TG221
SN-0311	"	1440		"	1									X											TG222
SN-0312	"	1441		"	1									X											TG223
SN-0313	"	1442		"	1									X											TG224
SN-0314	"	1500		"	1									X											TG225
SN-0315	"	1501		"	1									X											TG226
SN-0316	"	1502		"	1									X											TG227
SN-0317	↓	1525		↓	1									X											TG228

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all others analyses sieved to < 2 mm

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature:
Date/Time: 4/24/11 1700	Date/Time: 4/24/11 1700	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: SILVIA DALPAR	Printed Name: KIM CARLTON	Printed Name: JESSE BENNETT	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: [illegible]	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC # 16

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521 - 0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX#:
SAMPLER'S SIGNATURE: Sue Barbe

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐ (*see below)	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020☐ AOX 1650☐ 506☐	grain size (silt-clay, sand, gravel) percent moisture	REMARKS
SN-0318	4/24/11	1526		S	1										X							TF 229
SN-0319		1527			1										X							TG 230
SN-0320		1540			1										X							TG 231
SN-0321		1541			1										X							TG 232
~~SN-0322~~					1										X							TG 233 sb 4/24
SN-0323		1555			3	X					X	X		X		X	X	X	X	X		TG 234-236
SN-0324		1556			3	X					X	X		X		X	X	X	X	X		TG 237-239
SN-0325	↓	1557		↓	3	X					X	X		X		X	X	X	X	X		TG 240-242

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Sue Barbe	Signature: Kim Carlton	Signature: Kim Carlton	Signature:
Date/Time: 4/24/11 1700	Date/Time: 4/24/11 1700	Date/Time: 4/25/11 09:00	Date/Time:
Printed Name: SILVIA BARBER	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 17

PROJECT NAME	UCR BEACH SAMPLING - 2011
PROJECT NUMBER	C521-0101
PROJECT MANAGER	JOSE MOORE / CRAIG HUTCHINS
COMPANY/ADDRESS	INTERRA CONSULTING
	1205 WEST BAY DRIVE NW
CITY/STATE/ZIP	OLYMPIA WA 98502
E-MAIL ADDRESS	CHUTCHINS@INTERRA-CORP.COM
PHONE #	360-705-3534
FAX #	
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0302	4/24	1329		S	3	TG201-203
SN-0303		1331		S	3	TG204-206
SN-0304		1333		S	3	TG207-209
SN-0305		1335		S	3	TG210-212
SN-0306		1337		S	3	TG213-215
SN-0307		1339		S	3	TG216-218
(JM) ~~SN-0307~~ SN-0326		1355		W	2	TG243-246

4/24

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons Gas☐ Diesel☐ Oil☐ (*see below)
☐ Fuel Fingerprint (FIQ)
☐ NW-HCID Screen
Oil & Grease/TRPH 1664 SGT☐
1664 HEM☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M
Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals, Total or Dissolved (See list below)
Cyanide☐ TECHNICAL
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX-9020☐ AOX-1650☐ 506☐ ORGANICS
TEX-9060☐
GRAIN SIZE SEDIMENTS
FINES + TOTAL
16BA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni) K Ag Na Se Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO <2 MM

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY: 4/25/11	RECEIVED BY:
Signature	Kim Carlton	Kim Carlton	Signature
Printed Name: Jose Moore	Printed Name: KIM CARLTON	Printed Name: KIM CARLTON	Printed Name
Firm: INTERRA	Firm: INTERRA	Firm: INTERRA	Firm
Date/Time: 4/24/11 1700	Date/Time: 4/24/11 1700	Date/Time: 4/25/11 09:00	Date/Time

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services™

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____

PAGE 1 OF 1 COC # 18

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x19 | FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel* ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals: Total or Dissolved (See list below)	URANIUM Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3	ARCHIVE TOX 9020 ☐ AOX 1650 ☐ 506 ☐	GRAIN SIZE, TOTAL SOLIDS, % MOISTURE	FINES + IVISA	RADIONUCLIDES	HOLD	REMARKS
SN-0332	4/24/11	1030		SED	1									X											TG 262
SN-0333		1035												X											TG 263
SN-0334		1040												X											TG 264
SN-0335		1045												X											TG 265
SN-0336		1120												X											TG 266
SN-0337		1125												X											TG 267
SN-0338		1130												X											TG 268
SN-0339		1140												X											TG 269
SN-0340		1145												X											TG 270
~~SN-0340~~ DUP	0341	1150												X											TG 271

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to < 2 mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 1 COC # 19

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE # 360-705-3534 x17 FAX #
SAMPLER'S SIGNATURE

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ Diesel☐ (*see below) Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	URANIUM Cyanide☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) Hex-Chrom☐	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 506☐ ARCHIVE	GRAIN SIZE / TOTAL SOLIDS PERCENT MOISTURE	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0327	4/24/11	1200		SED	3								X										TG247-9
SN-0328		1245			3								X	X	X	X	X	X	X				TG250-2
SN-0329		11:50			3								X	X	X	X	X	X					TG253-5
SN-0330		13:45			3								X	X	X	X	X	X					TG256-8
SN-0331		1350		↓	3								X	X	X	X	X	X					TG259-61
SN-0352	↓	1415		WTR	9	X				X	X	X	X	X		X						X	TG290-98

K. Carlton

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to < 2mm.
Hold = hold PCDD/F, PCB congeners, & PBDE rinse blanks for further instruction
Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 1 COC # 20

PROJECT NAME: NCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons 8021☐ BTEX☐ Gas☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	DRAINAGE Cyanide☐ Hex-Chrom☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3	ARCHIVE TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE, TSN, SPLIT (circle) DO MOISTURE	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0342	4/24/11	1240		SED	1								X											TG 272
SN-0343		1245											X											TG 273
SN-0344		1250											X											TG 274
SN-0345		1300											X											TG 275
SN-0346		1305											X											TG 276
SN-0347		1310											X											TG 277
SN-0348		1340			3	X				X	X	X		X	X	X	X	X	X					TG 278-80
SN-0349		1345				X				X	X	X		X	X	X	X	X	X					TG 281-3
SN-0350		1350				X				X	X	X		X	X	X	X	X	X					TG 284-6
SN-0351	↓	1355		↓	↓	X				X	X	X		X	X	X	X	X	X					TG 287-9

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: ~~Al~~ ~~As~~ ~~Sb~~ ~~Ba~~ ~~Be~~ B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (~~Ni~~ ~~K~~ ~~Ag~~ ~~Na~~ ~~Se~~) Sr (~~Tl~~) Sn (~~V~~ ~~Zn~~) ~~Hg~~

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to <2 mm.
Hold = hold PCDD/F, PCB congeners & PBDEs rinse blanks for further instruction.
Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 0900	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 07/09

SUBSURFACE

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC #: _____

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C021-0101
PROJECT MANAGER: JOSH MOORE / LAB CONTACT - CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 EX17 | FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	PAHS 8310 ☐ SIM ☐ (Metals, Total or Dissolved (See list below))	TAG #	REMARKS
SN-0791	5/5/11	1400		SED	1	X		1162
SN-0792	"	1410		"	1	X		1163
SN-0793	"	1420		"	"	X		1164
SN-0794	"	1430		"	"	X		1165
SN-0795	"	1440		"	"	X		~~1166~~ 1166
SN-0796	"	1450		"	"	X		1167
SN-0797	"	1500		"	"	X		1168
SN-0798	"	1510		"	"	X		1169
SN-0799	"	1520		"	"	X		1170
SN-0800	"	1530		"	"	X		1171

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2mm.
~~Hold~~ (5)
FedEx Waybill #

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 5/6/11	Date/Time: 5/6/11 1735	Date/Time:	Date/Time:
Printed Name: Josh Moore	Printed Name: J. Smith	Printed Name:	Printed Name:
Firm: I-TECH	Firm: CAS	Firm:	Firm:

RCOC #1 03/10

SURFACE

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC #: _____

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOE MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC. / 1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360 705 3534 EXT 17 | FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons Gas☐ 8021☐ BTEX☐ Diesel☐ (*see below) Oil☐	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	pH☐ Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) Hex-Chrom☐	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 9076☐	GRAIN SIZE, TOTAL SOLIDS & MOISTURE	FINE + IVGA	RADIONUCLIDES	HOLD	TAG #	REMARKS
SN-0786	5/5/11	1325		SED	3									X	X	X	X	X	X					1147-1149
SN-0787		1544			1									X	X	X	X	X	X					1150-1152
SN-0788		1315												X	X	X	X	X	X					1153-1155
SN-0789		1605												X	X	X	X	X	X	X				1156-1158
SN-0790		1645												X	X	X	X	X	X					1159-1161
SN-0811	5/5/11	1630		WTR	9	X				X	X		X	X	X		X					X		1190-1198

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO <2mm.
HOLD PCDD/F, PCB CONGENERS, and PBDE RINSE BLANKS FOR FURTHER INSTRUCTION.

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 4/6/11	Date/Time: 5/6/11 1735	Date/Time:	Date/Time:
Printed Name: Joe Moore	Printed Name:	Printed Name:	Printed Name:
Firm: I-TEK	Firm: CAS	Firm:	Firm:

RCOC #1 03/10

SUBSURFACE

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____

PAGE 2 OF 2 COC #: _____

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360 705 3534 EXT 17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	TAG #	REMARKS
SN-0801	5/5/11	1540		SED	1		1172
SN-0802		1550					1173
SN-0803		1550					1174
SN-0804		1600					1175
SN-0805		1610					1176
SN-0806		1620					1177
SN-0807		1700			3		1178-1180
SN-0808		1710					1181-1183
SN-0809		1725					1184-1186
SN-0810		1730					1187-1189

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
(pH) Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N; COD; Total-P; TKN (TOC, DOC (circle) NO_2+NO_3
ARCHIVE FOX 9020 ☐ AOX 1650 ☐ 506 ☐
GRAIN SIZE, TOTAL SULFIDE, % MOISTURE
FINES + NSA
RADIONUCLIDES
H2S LD

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2mm.

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:		RECEIVED BY:		RELINQUISHED BY:		RECEIVED BY:	
Signature	Date/Time 5/6/11	Signature	Date/Time 5/6/11 1735	Signature	Date/Time	Signature	Date/Time
Printed Name JOSS MOORE	Firm INTEGRAL	Printed Name	Firm	Printed Name	Firm	Printed Name	Firm

RCOC #1 03/10

SUBSURFACE

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____

PAGE 11 OF 12 COC #: _____

PROJECT NAME: UCR BEACH SAMPLING 2011

PROJECT NUMBER: C527-070101

PROJECT MANAGER: JOSH MOORE / LAB CONTACT: CRAIG HUTCHINGS

COMPANY/ADDRESS: INTEGRAL CONSULTING INC

1205 WESTBAY DRIVE NW

CITY/STATE/ZIP: OLYMPIA, WA 98502

E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM

PHONE #: 360 705 2524 EXT 17 | FAX #:

SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ (*see below) Oil ☐ ☐ Fuel Fingerprint (FIO) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH; Cond; Cl; SO_4^{2-}; PO_4; F; NO_2; NO_3; BOD; TSS; TDS (circle)	NH_3-N; COD; Total-P; TKN; TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐				TAG #	REMARKS
SN-0842	5/4/11	1245		SED	1									X										1262
SN-0843		1255												X										1263
SN-0844		1305												X										1264
SN-0845		1315												X										1265
SN-0846		1325												X										1266
SN-0847		1335												X										1267
SN-0848		1345												X										1268
SN-0849		1355												X										1269
SN-0850		1405												X										1270
SN-0851	↓	1415		↓	↓									X										1271

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to <2mm.

FedEx Waybill #

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 4/6/11	Date/Time: 5/6/11 1735	Date/Time:	Date/Time:
Printed Name: Josh Moore	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm: CAS	Firm:	Firm:

RCOC #1 03/10

SUBSURFACE

CHAIN OF CUSTODY

SR#: _____

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC #: _____

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: JOSS MOORE / LAC CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DR NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360 705 3534 EXT 17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☑	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☑ Congeners☐	Pesticides/Herbicides 608☐ 8081A☑ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐	PAHS 8310☐ SIM☑	Metals, Total or Dissolved (See list below)	Cyanide☐	pH/Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 5060☐	GRAIN SIZE - TOT. SULFIDE & MOISTURE				TAG #	REMARKS
SN-0852	5/4/11	1425		SED	1										X									1272	
SN-0853		1435													X									1273	
SN-0854		1445													X									1274	
SN-0855		1450													X									1275	
SN-0856		1455													X									1276	
SN-0857		1505			↓										X									1277	
SN-0858		1550			3	X				X	X		X			X	X	X	X	X				1278-1280	
SN-0859		1555			1	X				X	X		X			X	X	X	X	X				1281-1283	
SN-0860		1600				X				X	X		X			X	X	X	X	X				1284-1286	
SN-0861	↓	1545		↓	↓	X				X	X		X			X	X	X	X	X				1287-1289	

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Ti Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All SAMPLES: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO < 2mm.
Fed Ex Waybill #

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature:
Date/Time: 5/6/11	Date/Time: 5/6/11 1755	Date/Time:	Date/Time:
Printed Name: JOSS MOORE	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm: CAS	Firm:	Firm:

RCOC #1 03/10

SURFACE

Columbia Analytical Services™ CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC # _____

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 3607053534 EXT 17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons 8021 ☐ BTEX ☐ Gas ☐ Diesel ☐ Oil ☐ (*see below)	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Oxidation ☐ Hex-Chrom ☐	(pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3 Alkalinity	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Grain size % moisture	TOT. SULFIDES FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0837	5/4/11	1255		SED	3										X	X	X	X	X	X				1247-1249
SN-0838		1515													X	X	X	X	X	X				1250-1252
SN-0839		1315													X	X	X	X	X	X				1253-1255
SN-0840		1605													X	X	X	X	X	X				1256-1258
SN-0841		1530		↓	↓										X	X	X	X	X	X	X			1259-1261
SN-0842	↓	1615		WTR	9	X				X	X		X	X	X		X					X		1290-1298

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All SAMPLES: GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHER ANALYSES SIEVED TO <2mm.
HOLD: HOLD PCDD/F, PCB CONGENERS, AND PBDE RINSE BLANKS FOR FURTHER INSTRUCTION.
FedEx Waybill #

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]
Printed Name: CRAIG STEVENS	Printed Name: JOSS MOORE	Printed Name: JOSS MOORE	Printed Name: [signature]
Date/Time: 4/5/11	Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1745
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm: PAS

RCOC #1 03/10

CHAIN OF CUSTODY

Columbia Analytical Services

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 1 COC #: _____

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3537 x17 FAX #:
SAMPLER'S SIGNATURE: Silvia Barber

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0812	5/5/11	1215		S	3	TG 1201-1203
SN-0813		1216			3	TG 1204-1206
SN-0814		1217			3	TG 1207-1209
SN-0815		1218			3	TG 1210-1212
SN-0816		1219			3	TG 1213-1215
SN-0817		1220			3	TG 1216-1218
SN-0836		1242		W	4	TG 1243-1246

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
Metals: Total or Dissolved (See list below)
URANIUM Cyanide☐ Hex-Chrom☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC
DOC (circle) NO2+NO3
ARCHIVE TOX-9020☐ AOX 1650☐ 506☐
Grain size, total sulfides, percent moisture
Fines + IVGA
Radionuclides

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn V (Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Silvia Barber	Signature:	Signature:	Signature:
Printed Name: SILVIA BARBER	Printed Name: Joss Moore	Printed Name: Joss Moore	Printed Name:
Date/Time: 4/5/11	Date/Time: 4/5/11 1756	Date/Time: 4/6/11 1536	Date/Time: 5/6/11 1735
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: _____ PAGE 1 OF 2 COC #: _____

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Doss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0767	5/4/11	1310		S	1	TG 1119
SN-0768		1311			1	TG 1120
SN-0769		1312			1	TG 1121
SN-0770		1320			1	TG 1122
SN-0771		1321			1	TG 1123
SN-0772		1322			1	TG 1124
SN-0773		1335			1	TG 1125
SN-0774		1336			1	TG 1126
SN-0775		1337			1	TG 1127
SN-0776	↓	1358		↓	1	TG 1128

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name: STEVEN BARBER	Printed Name: Doss Moore	Printed Name: Doss Moore	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm: LAS
Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1735

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC #: _____

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: Jess Moore / lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0777	5/4/11	1359		S	1	TG 1129
SN-0778		1400			1	TG 1130
SN-0779		1413			1	TG 1131
SN-0780		1414			1	TG 1132
SN-0781		1415			1	TG 1133
SN-0782		1416			3	TG 1124, 1136
SN-0783		1417			3	TG 1125, 1139
SN-0784		1418			3	TG 1126, 1142

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
(Metals, Total or Dissolved (See list below)
Cyanide ☐ ARCHIVE
Hex-Chrom ☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
Grain size, total sulfides, percent solids

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]
Printed Name: SILVIA BARBER	Printed Name: Jess Moore	Printed Name: Jess Moore	Printed Name: [signature]
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm: CAS
Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1005

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # _____

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0761	5/4/11	1222		S	3	TG 1101-1103
SN-0762		1223			3	TG 1104-1106
SN-0763		1224			3	TG 1107-1109
SN-0764		1225			3	TG 1111-1112
SN-0765		1226			3	TG 1113-1115
SN-0766		1227			3	TG 1116-1118
SN-0785		1246		W	2	TG 1143-1144

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons Gas☐ Diesel☐ Oil☐ ☐Fuel Fingerprint (*see below) ☐NW-HCID
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☐ Congeners☐
Pesticides/Herbicides 608☐ 8081A☐ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☐
(Metals, Total or Dissolved (See list below)) ARCHIVE
Cyanide☐ HOLD
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) Hex-Chrom☐
NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3 ARCHIVE
TOX-9020☐ AOX-1650☐ 506☐
GRAIN SIZE: percent gravel, sand, fines + LVBA

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Printed Name: SILVIA BARBER	Printed Name: Joss Moore	Printed Name: Joss Moore	Printed Name:
Firm: INTEGRAL	Firm: INTEGRAL	Firm: INTEGRAL	Firm: CAS
Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1735

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 2 COC # _____

PROJECT NAME: UCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 X17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3; BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	REMARKS
SN-0818	5/5/11	1300		S	1								X							TG 1219
SN-0819	"	1301		"	1								X							TG 1220
SN-0820	"	1302		"	1								X							TG 1221
SN-0821	"	1313		"	1								X							TG 1222
SN-0822	"	1314		"	1								X							TG 1223
SN-0823	"	1315		"	1								X							TG 1224
SN-0824	"	1322		"	1								X							TG 1225
SN-0825	"	1323		"	1								X							TG 1226
SN-0826	"	1324		"	1								X							TG 1227
SN-0827	↓	1333		↓	1								X							TG 1228

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]
Printed Name: SILVIA BARBER	Printed Name: Joss Moore	Printed Name: [signature]	Printed Name: [signature]
Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1735
Firm: INTEGRAL	Firm: INTEGRAL	Firm: I-TECH	Firm: CAS

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 2 OF 2 COC # _____

PROJECT NAME: VCR Beach Sampling 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab Contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
705 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE:

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	(pH) Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3	TOX-9020☐ AOX-1650☐ 506☐	Grain size on whole sediments, all other analyses sieved to < 2 mm	REMARKS
SN-0828	5/5/11	1334		S	1									X							
SN-0829		1335			1									X							
SN-0830		1350			1									X							
SN-0831		1351			1									X							
SN-0832		1352			1									X							
SN-0833		1400		S	3	X				X	X		X		X	X	X	X	X		
SN-0834		1401		S	3	X				X	X		X		X	X	X	X	X		
SN-0835		1402		S	3	X				X	X		X		X	X	X	X	X		

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grain size on whole sediments, all other analyses sieved to < 2 mm

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]
Printed Name: SILVIA BARBER	Printed Name: Joss Moore	Printed Name: Joss Moore	Printed Name: [illegible]
Date/Time: 4/5/11	Date/Time: 4/6/11	Date/Time: 4/6/11	Date/Time: 5/6/11 1735
Firm: INTEGRAL	Firm: [illegible]	Firm: Integral	Firm: [illegible]

RCOC #1 03/10

ATTACHMENT 1

CHAIN-OF-CUSTODY FORMS FOR SAMPLES WITH TEMPERATURE EXCEEDANCES

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: 1103613

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 1 COC # 8

PROJECT NAME: LCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC., 1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0276	4/23/11	13:30		SED	3	TG147-9
SN-0277		13:35				TG150-2
SN-0278		13:40				TG153-5
SN-0279		13:45				TG156-8
SN-0280		13:55				TG159-61

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below)
LVAN LLW
Cyanide ☐ Hex Chrom ☐
(PP) Cond., Cl, SO_4, PO4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, NO_2+NO_3, TKN
DOC (circle) PARCHIVE
TOX 9020 ☐ AOX 1650 ☐ 9061 ☐
GRAIN SIZE, TOTAL SULFIDES, % MOISTURE
FINES * IVBA
RADIONUCLIDES
HOLD

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

All Sampler: grain size on whole sediments, all other analyses sieved to <2mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/26/11 09:00	Date/Time: 4/26/11 0920	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm: CHS	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services INC

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K1103613

PAGE 1 OF 1 COC # 10

PROJECT NAME: UCR BEACH SEDIMENT SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JDSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC.
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	☐☐ Fuel Fingerprint (FIQ) NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	CYANIDE Cyanide☐	Hex Chrom☐	pH Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN (TOC) DOC (circle) NO2+NO3	AMCHITE TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE, TOTAL SULFIDES, 2% MOISTURE	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-0291	4/23/11	1200		SED	1									X											TG172
SN-0292		1205			1									X											TG173
SN-0293		1210			1									X											TG174
SN-0294		1215			1									X											TG175
SN-0295		12:20			1									X											TG176
SN-0296		12:25			1									X											TG177
SN-0297		1435			3	X				X	X		X		X			X	X	X	X				TG178-80
SN-0298		1440			3	X				X	X		X		X			X	X	X	X				TG181-83
SN-0299		1445			3	X				X	X		X		X			X	X	X	X				TG184-6
SN-0300		1450			3	X				X	X		X		X			X	X	X	X				TG187-9

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

all samples: grain size on whole sediments, all other analyses sieved to <2mm.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature: Jarrett Swett	Signature:	Signature:
Date/Time: 4/25/11 09:00 09:00 KAC	Date/Time: 4/26/11 0920	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name: Jarrett Swett	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm: CRS	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services
1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: K1103613

PAGE 1 OF 1 COC # 11

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING INC
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	~~Cyanide~~ ~~Hex Chrom~~	pH Cond., Cl, SO_4, P, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN TOC DOC (circle) NO_2-NO_3	~~Azinphos~~ ~~AOX 1650☐ 9020☐~~ TOX 9020☐	GRAIN SIZE ~~ONLY~~ 2% MOISTURE	FINES + IVISA	RADIONUCLIDES	HOLD	REMARKS
SN-0301	4/23/11	1455		WTR	9	X					X	X		X	X	X		X				X	T6190-198

K. Carlton

REPORT REQUIREMENTS
___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION
P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS
___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:
Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)
Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
Hold = hold PCDD/F, PCB Congeners, & PBDE Rinse blanks for further instruction.

Waybill # 8694 3422 5058

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/25/11 09:00	Date/Time: 4/26/11 0920	Date/Time:	Date/Time:
Printed Name: Kim CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm: GLS	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services
1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

SR#: K1103613

PAGE 2 OF 2 COC # 13

PROJECT NAME: UCR Beach Sampling 2011 ~~Sb~~ 4123
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Joss Moore / Lab contact: Craig Hutchings
COMPANY/ADDRESS: Integral Consulting
120 S West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	BTEX☐ 8021☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	URANIUM Cyanide☐ Hex Chrom☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN (TOC) DOC (circle) NO_2+NO_3	ARCHIVE TOX 9020☐ AOX 1650☐ 506☐	GRAIN SIZE☐ TOTAL SULFIDES☐ (circle)	REMARKS
SN-0267	4/23/11	1435		S	1										X							TG 129
SN-0268		1437			1										X							TG 130
SN-0269		1439			1										X							TG 131
SN-0270		1441			1										X							TG 132
SN-0271		1443			1										X							TG 133
SN-0272		1536			3	X					X	X		X		X	X	X	X	X		TG 134-136
SN-0273		1537			3	X					X	X		X		X	X	X	X	X		TG 137-139
SN-0274		1538			3	X					X	X		X		X	X	X	X	X		TG 140-142

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
All samples: grainsize on whole sediments, all other analyses sieved to <2mm

Waybill # 8694 3422 5058
☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature:	Signature: [signature]
Date/Time: 4/23/11 1656	Date/Time: 4/23/11 1656	Date/Time: 09:00	Date/Time: 4/26/11 0920
Printed Name: SILVIA BARBER	Printed Name: JESSE BENNETT	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm: Parametrix	Firm:	Firm: CAS

RCOC #1 03/10

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: K110613

1317 South 13th Ave, Kelso, WA 98626 | 360.577.7222 | 800.695.7222 | 360.636.1068 (fax)

PAGE 1 OF 1 COC # 14

PROJECT NAME: UCR BEACH SAMPLING 2011
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
1205 WEST 8th AVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: [signature]

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 SGT ☐ 1664 HEM ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Terra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex Chrom ☐	(pH) Cond., Cl, SO4, PO4-P, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3	TOX 9020 ☐ AOX 1650 ☐ 9060 ☐	GRAIN SIZE, TOTAL & MOISTURE	FINES < 1/64	REMARKS
SN-0256	4/23	1220		S	3								X	X	X	X	X	X	X			TG116-118
SN-0251		1250		S	3								X	X	X	X	X	X				TG101-103
SN-0252		1340		S	3								X	X	X	X	X	X				TG104-106
SN-0253		1345		S	3								X	X	X	X	X	X				TG107-109
SN-0254		1240		S	3								X	X	X	X	X	X				TG110-112
SN-0255		1343		S	3								X	X	X	X	X	X				TG113-115
~~SN-0257~~		1356		W	2								X	X								TG143-~~144~~
Kat 4/25 SN-0275																						

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENTS, ALL OTHERS ANALYSES SIEVED TO <2mm.

Waybill # 8694 3422 5058

☐ Sample Shipment contains USDA regulated soil samples (check box if applicable)

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature: [signature]	Signature: [signature]	Signature: [signature]
Printed Name: SILVIA BARBER	Printed Name: A. JESSE BENNETT	Printed Name: A. JESSE BENNETT	Printed Name:
Date/Time: 4/23/11 1655	Date/Time: 4/23/11 1655	Date/Time: 4/25/11 09:00	Date/Time: 4/26/11 0920
Firm: INTEGRAL	Firm: Shannetron	Firm: Shannetron	Firm: CAS

BCOC #1 03/10

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Lynda

Client / Project: Integral Service Request K11 3613

Received: 4/26/11 Opened: 4/26/11 By: AT Unloaded: 4/26/11 By: AT

1. Samples were received via? *Mail* (*Fed Ex*) *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) (*Cooler*) *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 1 front, 2 Back
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
-0.3	3.0	296		8716 0460 7590	
-0.5	-0.6	297		8716 0460 7534	
-0.6	-0.7	293		8716 0460 7567	
-0.5	0.9	299		8094 3422 5058	
1.7	2.8	257		8716 0460 7584	

4. Packing material used. (*Inserts*) *Baggies* *Bubble Wrap* *Gel Packs* (*Wet Ice*) *Sleeves* *Other* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA (Y) N
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y (N)
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA (Y) N
14. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
15. Was C12/Res negative? NA (Y) N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: *Missing 2 coolers. Airbills 871604607545 + 871604607564. Logged samples in and put on hold per Lynda

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Lynden

Client / Project: Integral / Seek Service Request K11 3613

Received: _____ Opened: _____ By: _____ Unloaded: _____ By: _____

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
1.0	1.1	295		8716 0460 7512	
-0.6	8.0*	302		8716 0460 7578	
1.0	9.6*	276		8716 0460 7475	
-0.1	3.1	289		8716 0460 7556	
0.4	3.3	275		8716 0460 7648	

7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: * TB IR in between bubble wrapped samples not near ice.

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Lynda

Client / Project: Integral / Seck Service Request K11 3613

Received: _____ Opened: _____ By: _____ Unloaded: _____ By: _____

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA Y N If yes, how many and where? _____
   If present, were custody seals intact? Y N If present, were they signed and dated? Y N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
0.3	1.6	274		8716 0460 7503	
-0.3	6.3*	304		8716 0460 7604	

7. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
8. Were custody papers properly filled out (ink, signed, etc.)? NA Y N
9. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA Y N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA Y N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA Y N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA Y N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* NA Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* NA Y N
15. Was C12/Res negative? NA Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: * TB not near ice bags.

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Lynda

Client / Project: Lack / Integral Service Request K11 3613

Received: 4/27/11 Opened: 4/27/11 By: AJ Unloaded: 4/27/11 By: AJ

1. Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*
2. Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*
3. Were custody seals on coolers? NA (Y) N If yes, how many and where? 2F, 1B
   If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
6.3	7.9	281		8716 0460 7464	

4. Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____
5. Were custody papers properly filled out (ink, signed, etc.)? NA Y (N)
6. Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.* NA (Y) N
10. Were all sample labels complete (i.e analysis, preservation, etc.)? NA (Y) N
11. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.* NA (Y) N
12. Were appropriate bottles/containers and volumes received for the tests indicated? NA (Y) N
13. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below* (NA) Y N
14. Were VOA vials received without headspace? *Indicate in the table below.* (NA) Y N
15. Was C12/Res negative? (NA) Y N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: Rec'd out of temp:
Ziplock baggs: SN-0327, SN-0328, SN-0297, SN-0298, SN-0279, SN-0330, SN-0349, SN-0351, SN-0350
16 oz Jars: SN-0350, SN-0349, SN-0253
8oz Jars: SN-0329, SN-0344, SN-0277, SN-0340, SN-0336
Missing Cooler from 4/26/11

Columbia Analytical Services, Inc.
Cooler Receipt and Preservation Form

PC Lynda

lient / Project: Integral / Sesh Service Request K11 3613

eceived: 4/27/11 Opened: 4/27/11 By: AJ Unloaded: 4/27/11 By: AJ

Samples were received via? *Mail* *Fed Ex* *UPS* *DHL* *PDX* *Courier* *Hand Delivered*

Samples were received in: (circle) *Cooler* *Box* *Envelope* *Other* _____ *NA*

Were custody seals on coolers? NA (Y) N If yes, how many and where? 2 F, 1 B

If present, were custody seals intact? (Y) N If present, were they signed and dated? (Y) N

Cooler Temp °C	Temp Blank °C	Thermometer ID	Cooler/COC ID NA	Tracking Number NA	Filed
2.2	4.4	299		8716 0460 7545	

Packing material used. *Inserts* *Baggies* *Bubble Wrap* *Gel Packs* *Wet Ice* *Sleeves* *Other* _____

Were custody papers properly filled out (ink, signed, etc.)?	NA	Y	(N)*
Did all bottles arrive in good condition (unbroken)? *Indicate in the table below.*	NA	(Y)	N
). Were all sample labels complete (i.e analysis, preservation, etc.)?	NA	(Y)	N
1. Did all sample labels and tags agree with custody papers? *Indicate major discrepancies in the table on page 2.*	NA	(Y)	N
2. Were appropriate bottles/containers and volumes received for the tests indicated?	NA	(Y)	N
3. Were the pH-preserved bottles (*see SMO GEN SOP*) received at the appropriate pH? *Indicate in the table below*	(NA)	Y	N
4. Were VOA vials received without headspace? *Indicate in the table below.*	(NA)	Y	N
5. Was C12/Res negative?	(NA)	Y	N

Sample ID on Bottle	Sample ID on COC	Identified by:

Sample ID	Bottle Count Bottle Type	Out of Temp	Head-space	Broke	pH	Reagent	Volume added	Reagent Lot Number	Initials	Time

Notes, Discrepancies, & Resolutions: *missing cooler

FedEx Express **US Airbill**

FedEx Tracking Number: 8694 3422 5025

Form ID No. 0200 — Sender's Copy

1 From *Please print and press hard.*

Date 4/26/10 Sender's FedEx Account Number 2623-3870-3

Sender's Name CRAIG HUTCHINGS Phone (360 481-2158 / 360-705-3534

Company INTEGRAL CONSULTING

Address 1205 WEST BAY DRIVE NW

Dept./Floor/Suite/Room

City OLYMPIA State WA ZIP 98502

2 Your Internal Billing Reference C521-0101

First 24 characters will appear on invoice.

3 To

Recipient's Name JEFF CHRISTIAN Phone (360 577-7222

Company COLUMBIA ANALYTICAL SERVICES

Recipient's Address 1317 SOUTH 13TH AVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City KELSO State WA ZIP 98626

4a Express Package Service — *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ____

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday** at FedEx Location NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday** at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* — Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. ____ Exp. Date ____

Total Packages	Total Weight	Total Declared Value†
4		$ 1,000 .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [X] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

Rev. Date 10/06•Part #158291•©1994–2006 FedEx•PRINTED IN U.S.A. SRY

Find drop-off locations at fedex.com
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RETAIN THIS COPY FOR YOUR RECORDS.

FED EX AIRBILL # 8694 3422 5025 4 COOLERS TOTAL

Columbia Analytical Services

CHAIN OF CUSTODY

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

SR#: _____

PAGE 1 OF 3 COC # _____

PROJECT NAME: ~~NCR~~ 2010 BEACH SAMPLING

PROJECT NUMBER: C521-0101

PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINGS

COMPANY/ADDRESS: 319 SW WASHINGTON STREET SUITE 1150, ~~PORT~~ PORTLAND, OR 97204

E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM

PHONE #: ~~503-274-5545~~ FAX #: 503-705-3534

SAMPLER'S SIGNATURE: K. Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0124	4/27/10	15:00		SED	3	~~TG 238-244~~
SN-0125	↓	14:00		↓	↓	TG 238-240
SN-0126	4/27/10	11:00		SED	3	TAGS 241, 242A, 242B
SN-0127		15:25			↓	TG 243-245
SN-0128		11:20			3	TG 246-248
SN-0129		16:35			1	TG 249
SN-0130		1640			1	TG 250
SN-0131		1645			1	TG 251
SN-0132		1650			1	TG 252
SN-0133	↓	14:15		↓	1	TG 253

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☒ Congeners☐
Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☒
Metals, Total or Dissolved (See list below) ALL ANALYSES
Cyanide ☐ Hex.Chrom☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, (TOC, DOC (circle) NO2+NO3
TOX 9020☐ TPH-HCID☐ AOX 1650☐ 506☐
GRAIN SIZE / TOTAL SOLIDS 9% moisture
FINES + IVBA
RADIONUCLIDES
HOLD

4/27 KMC

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be B) (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO 2 mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
K. Carlton 4/28/10 09:05			
Signature / Date/Time	Signature / Date/Time	Signature / Date/Time	Signature / Date/Time
KIM CARLTON / INTEGRAL			
Printed Name / Firm	Printed Name / Firm	Printed Name / Firm	Printed Name / Firm

RCOC #1 07/09

CHAIN OF CUSTODY

FED EX AIRBILL #8694 3422 5885 4 COOLERS

SR#: 1

PAGE 2 OF 3 COC #

Columbia Analytical Services™
1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME: LCR 2010 BEACH SAMPLING
PROJECT NUMBER: CSat-0101
PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: 317 SW WASHINGTON ST. SUITE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	8021☐ BTEX☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below):	Cyanide	Hex.Chrom.	(pH) Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, DOC (circle) NO2+NO3	TOX-9020☐ AOX-1650☐ 506☐	GRAIN SIZE, % MOIST. TOTAL SOLIDS	FINES & LVBA	RADIOLOGICALS	HOLD	REMARKS
SN-0134	4/22/10	1420		SED	1											X										TG 254
SN-0135		1425			1											X										TG 255
SN-0136		1715			1											X										TG 256
SN-0137		1720			1											X										TG 257
SN-0138		1725			1											X										TG 258
SN-0139		1745			1											X										TG 259
SN-0140		1750			1											X										TG 260
SN-0141		1755			1											X										TG 261
SN-0142		1802			1											X										TG 262
SN-0143	↓	1805		↓	1											X										TG 263

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. #
Bill To:

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Kim Carlton			
Signature	Signature	Signature	Signature
4/28/10 09:05	Date/Time	Date/Time	Date/Time
Date/Time			
Kim CARLTON	Printed Name	Printed Name	Printed Name
INTEGRAL	Firm	Firm	Firm
Printed Name			
Firm			

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

FED EX AIRBILL # 8694 3422 5025 4 COOLERS TOTAL

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 3 OF 3 COC #_____

PROJECT NAME: WR 2010 BEACH SAMPLING
PROJECT NUMBER: 521-0101
PROJECT MANAGER: TOSS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: 317 SW WASHINGTON ST. SUITE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0144	4/29/10	1810		SED	1	TG264
SN-0145	"	1815		"	3	TG265-267
SN-0146	"	1820		"	"	TG268-270
SN-0147	"	1825		"	"	TG271-273
SN-0148	"	1830		"	"	TG274-276
SN-0149	↓	1045		"	4	TG277-280

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☒ Congeners☐
Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHs 8310☐ SIM☒
Metals, Total or Dissolved (See list below) TAL
Cyanide☐ URANIUM Hex-Chrom☐
(pH), Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3
Alkalinity TOX 9020☐ AOX 1650☐ 506☐
GRAIN SIZE☒ TOTAL☐ % MOIST. SOLIDS
FINES + IVGA
RADIONUCLIDES
HOLD

WTR

K. Carlton 4/29/10

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO <2mm. 1
*HOLD RADIONUCLIDES FOR SN-0149

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/10 0905	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

FedEx Express **US Airbill**

FedEx Tracking Number: 8694 3422 5036

Form ID No. 0200

Sender's Copy

1 From *Please print and press hard.*

Date 4/29/10 Sender's FedEx Account Number 2623-3870-3

Sender's Name CRAIG HUTCHINGS Phone (360) 481-2158 360-705-3534

Company ~~KEY~~ ~~LATTICE~~ INTEGRAL CONSULTING

Address 1205 WEST BAY DRIVE NW

Dept/Floor/Suite/Room

City OLYMPIA State WA ZIP 98502

2 Your Internal Billing Reference First 24 characters will appear on invoice. C521-0101

3 To

Recipient's Name JEFF CHRISTIAN Phone (360) 577-7222

Company COLUMBIA ANALYTICAL SERVICES

Recipient's Address 1317 SOUTH 13TH AVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City KELSO State WA ZIP 98626

Ship and track packages at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. *To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation; ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery — NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location — NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
5		$1000.00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [X] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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RETAIN THIS COPY FOR YOUR RECORDS.

Columbia Analytical Services™

CHAIN OF CUSTODY

FED EX WAYBILL # 8694 3422 5036
5 COOLERS SHIPPED

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 1 OF 3 COC #: _____

PROJECT NAME: NCR 2010 BEACH SAMPLING
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JOSS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: 317 SW WASHINGTON ST. SUITE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 540-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐	☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐ URANIUM Hex-Chrom☐ KD	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3	TOX-9020☐ Archive AOX-1650☐ 506☐ DHC	GRAIN SIZE 2mm SIEVE TOTAL SILICATES	FINES + IVEA	RADIONUCLIDES KD LD	REMARKS
SN-0150	4/28/10	1320		SED	3									X	X	X	X	X	X				TG 281-283
SN-0151		1145			3									X	X	X	X	X	X				TG 284-286
SN-0152		1345			3									X	X	X	X	X	X				TG 287-289
SN-0153		1350			3									X	X	X	X	X	X				TG 290-292
SN-0154		1215			3									X	X	X	X	X	X				TG 293-295
SN-0155		1635			3									X	X	X	X	X	X	X			TG 296-298
SN-0156		1600			1									X									TG 299
SN-0157		1610			1									X									TG 300
SN-0158		1620			1									X									TG 301
SN-0159	↓	1630		↓	1									X									TG 302

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2 mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/10 10:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

FEDEx WAYBILL # 8694 3492 5036
5 COOLERS SHIPPED

Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 2 OF 3 COC # _____

PROJECT NAME: DER 2010 BEACH SAMPLING
PROJECT NUMBER: 0521-0101
PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
319 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 503-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 SGT☐ 1664 HEM☐	PCB's Aroclors☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHs 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐ LRAA/WAD Hex-Chrom☐ KAC	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3	TOX 9020☐ AOX 1650☐ 5061☐ KAC	GRAIN SIZE, PHI/MOIST, TOTAL SULFIDES KAC	TIMES + LVBA	RADIONUCLIDES	NDLD	REMARKS
SN-D160	4/28/10	1640		SED	1									X									TG 303
SN-D161		1650			1									X									TG 304
SN-D162		1700			1									X									TG 305
SN-D163		1710			1									X									TG 306
SN-D164		1720			1									X									TG 307
SN-D165		1730			1									X									TG 308
SN-D166		1740			1									X									TG 309
SN-D167		1750			1									X									TG 310
SN-D168		1800			1									X									TG 311
SN-D169	↓	1810		↓	1									X									TG 312

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSIS SIEVED TO < 2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/10 10:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

FEDEX WAYBILL# 8694 3422 5036
5 COOLERS SHIPPED

SR#:_____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 3 OF 3 COC #_____

PROJECT NAME: VLR 2010 BEACH SAMPLING
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINES
COMPANY/ADDRESS: INTEGRAL CONSULTING
319 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINES@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0170	4/22/10	1820		SED	KC	TG313
SN-0171		1745			3	TG314-316
SN-0172		1750			3	TG317-319
SN-0173		1755		↓	3	TG320-322
SN-0174	↓	1515		WTR	11	TG323-333

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒
Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐
Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐
☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen
Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐
PCB's Aroclors☒ Congeners☐
Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐
Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐
PAHS 8310☐ SIM☒
Metals, Total or Dissolved (See list below)
Cyanide☐ URANIUM Hex-Chrom☐
(pH), Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC
DOC (circle) NO2+NO3
TOX-9020☐ AOX-1650☐-506☐
ALKALINITY AOX-1650☐-506☐
GRAIN SIZE (% MOISTURE TOTAL SOLIDS)
TANKS + IVBA
RADIONUCLIDES
HOLD
TALS

K. Carlton 4/29/10

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSIS SIEVED TO < 2 MM.

* HOLD RADIONUCLIDES, PCDD/F, PCB CONGENERS, PBDES FOR SN-0174.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/29/10 1030	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

FedEx Express **US Airbill**

FedEx Tracking Number **8694 3422 5047**

Form ID No. **0200**

Sender's Copy

1 From *Please print and press hard.*

Date 4/30/10 Sender's FedEx Account Number 2623-3870-3

Sender's Name CRAIG HUTCHINGS Phone 360-705-3534 360 481-2158

Company INTEGRAL CONSULTING

Address 1205 WEST BAY DRIVE NW

Dept/Floor/Suite/Room

City OLYMPIA State WA ZIP 98502

2 Your Internal Billing Reference First 24 characters will appear on invoice. C521-0101

3 To

Recipient's Name JEFF CHRISTIAN Phone (360) 577-7222

Company COLUMBIA ANALYTICAL SERVICES

Recipient's Address 317 SOUTH 13TH AVE

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City KELSO State WA ZIP 98626

Store your addresses at fedex.com
Simplify your shipping. Manage your account. Access all the tools you need.

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [ ] Other

* Declared value limit $500.

6 Special Handling Include FedEx address in Section 3.

- [X] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [X] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
7		$ 1,000 .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [X] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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Columbia Analytical Services

CHAIN OF CUSTODY

FED EX WAYBILL # 8094 3422 5047
7 COOLERS SHIPPED

SR#: _____

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PAGE 1 OF 5 COC # _____

PROJECT NAME: 2010 WCR BEACH SAMPLING
PROJECT NUMBER: 2521-0101
PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
319 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-DD75	4/29/10	1140		SD	3	Tag 149-150
SN-DD76		1145			3	Tag 151-153
SN-DD77		1150			3	Tag 154-156
SN-DD78		1210			1	Tag 157
SN-DD79		1215			1	Tag 158
SN-DD80		1246			1	Tag 159
SN-DD81		1220			1	Tag 160
SN-DD82		1225			1	Tag 161
SN-DD83		1230			1	Tag 162
SN-DD84	↓	1235		↓	1	Tag 163

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☑
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
Fuel Fingerprint (FIQ) ☐ NW-HCID ☐
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☑ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☑ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHs 8310 ☐ SIM ☑
Metals, Total or Dissolved (See list below)
Cyanide ☐ (TOTAL/DISSOLVED) Hex-Chrom ☐ ☑
(pH) Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3
TOX 9020 ☐ AOX 1650 ☐ 5061 ☐
GRAIN SIZE ☐ TOTAL SULFIDES ☐
TOTAL SULFIDES & % MOISTURE ☐
RADIONUCLIDES ☐
HOLD

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO <2 mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/30/10 11:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

COC Revised 4/5/10 CK

FedEx Waybill # 8169 3422 5049

7 COOLERS SHIPPED

Columbia Analytical Services

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 2 OF 3.5 COC #: _____

PROJECT NAME: SDID LCR BEACH SAMPLING

PROJECT NUMBER: C524-0101

PROJECT MANAGER: JESS MOORE/CRAIG ~~CUTTING~~

COMPANY/ADDRESS: INTERTIDAL CONSULTING

319 SW WASHINGTON ST, STE 1150

CITY/STATE/ZIP: PORTLAND, OR. 97204

E-MAIL ADDRESS: KIM.CARLTON@INTERTIDAL-CORP.COM

PHONE #: 360-705-3534 FAX #:

SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0085	4/29/10	1240		SED	1	TB164
SN-0086		1245			1	TB165
SN-0087		1250			1	TB166
SN-0088		1255			1	TB167
SN-0089		1300			1	TB168
SN-0090		1305			1	TB169
SN-0091		1310			1	TB170
SN-0092		1315			1	TB171
SN-0093		1320			1	TB172
SN-0094	↓	1325		↓	3	TB173-175

Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☐

Volatile Organics 624☐ 8260☐

Hydrocarbons (*see below) Gas☐ 8021☐ BTEX☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen

Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐

PCB's Aroclors ☒ Congeners☐

Pesticides/Herbicides 608☐ 8081A ☒ 8141A☐ 8151A☐

Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐

PAHS 8310☐ SIM ☒

Metals, Total or Dissolved (See list below)

Cyanide ☐ (ASA) ☐ (KONT) ☐ Hex-Chrom ☐ (KL)

(pH) Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)

NH_3-N, COD, Total-P, TKN, (TOC) DOC (circle) NO_2+NO_3

TOX-9020☐ AOX 9060☐ AOX T650☐ 5060☐

GRAIN SIZE, ON WHOLE SEDIMENT, TOTAL SULFIDES

FINES + LVOA

RADIONUCLIDES

HOLD

RC

CK 5/4/10

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/30/10 11:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: Kim Carlton	Printed Name:	Printed Name:	Printed Name:
Firm: INTERTIDAL	Firm:	Firm:	Firm:

RCOC #1 07/09

COC Revised 4/5/10 CT

FED to WAYBILL 8699 3422 5049

9 COOLERS SHIPPED

Columbia Analytical Services™

CHAIN OF CUSTODY

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 3 OF 5 COC # _____

PROJECT NAME	2010 LCR BEACH SAMPLING
PROJECT NUMBER	C521-0101
PROJECT MANAGER	JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS	INTEGRAL CONSULTING
	319 SW WASHINGTON ST., STE 1150
CITY/STATE/ZIP	PORTLAND, OR 97204
E-MAIL ADDRESS	CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #	360-705-3534
FAX #	
SAMPLER'S SIGNATURE	Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0095	4/29/10	1330		SED	3	TG 176
SN-0096		1335			3	TG 179-181
SN-0097		1340			3	TG 182-184
SN-0098		0915		WTR	4	TG 185-188

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒

Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐

Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐

☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen

Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐

PCB's Aroclors ☒ Congeners ☐

Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐

Chlorophenolics - 8151M PCP ☐ Tri ☐ Tetra ☐

PAHs 8310 ☐ SIM ☒

Metals, Total or Dissolved (See list below)

Cyanide ☐ LACHAT ☐ Hex-Chrom ☐ KC

(pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)

NH_3-N, COD, Total-P, TKN, TOC, DOC (circle) NO_2+NO_3-N

TOX 9020 ☐ AOX 1650 ☐ 506 ☐ KC

GRAIN SIZE ☒ W/ % MOISTURE & TOTAL SULFIDES

FINES + IVBA

RADIO NUCLIDES

HOLD

4/30/10

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/30/10 11:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

Columbia Analytical Services

CHAIN OF CUSTODY

FEDEX WAYBILL # 8694 3122 5049
7 COOLERS SHIPPED

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 4 OF 5 COC # _____

PROJECT NAME: 2010 UCR BEACH SAMPLING
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS ROOKE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
317 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 503-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐ 8021☐ BTEX☐	Hydrocarbons (*see below) Gas☐ Diesel☐ Oil☐ ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen	Oil & Grease/TRPH 1664 HEM☐ 1664 SGT☐	PCB's Aroclors ☒ Congeners☐	Pesticides/Herbicides 608☐ 8081A☒ 8141A☐ 8151A☐	Chlorophenolics - 8151M Tri☐ Tetra☐ PCP☐	PAHS 8310☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ WAD/LUFA Hex-Chrom ☐ KP	pH, Cond., Cl, SO_4, PO_4-P, F, NO_2, NO_3, NH_3-N, COD, TSS, TDS (circle) BOD, DOC (circle) Total-P, TKN, TOC	TOX 9020☐ AOX 1650☐ 506☐ ARCHIVE	GRAIN SIZE ☒ TOTAL, DISSOLVED	FINES ☒ IVSA	RADIONUCLIDES	HOLD	REMARKS
SN-0056	4/29/10	1515		SED	1								X											TG13
SN-0057		1550			1								X											TG114
SN-0058		1620			1								X											TG115
SN-0059		1615			1								X											TG116
SN-0060		1620			1								X											TG117
SN-0061		1625			1								X											TG118
SN-0062		1635			1								X											TG119
SN-0063		1640			1								X											TG120
SN-0064		1645			1								X											TG121
SN-0065	↓	1655		↓	1								X											TG122

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.
____ 5 Day
X Standard (10-15 working days)
____ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al As Sb Ba Be) B (Ca Cd Co Cr Cu Fe Pb Mg Mn) Mo (Ni K Ag Na Se) Sr (Tl) Sn (V Zn Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/30/10 1130	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

Columbia Analytical Services

CHAIN OF CUSTODY

FED EX WAYBILL # 8694 3422 5047
7 COOLERS SHIPPED

SR#: _____

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PAGE 5 OF 5 COC # _____

PROJECT NAME: 2010 UCR BEACH SAMPLING
PROJECT NUMBER: C521-0101
PROJECT MANAGER: JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
319 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP: PORTLAND, OR 97204
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☑	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex. Chrom ☐	pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle) NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3	TOX-9020 ☐ AOX 1650 ☐ 5067 ☐	GRAIN SIZE: TOTAL SULFIDES ☐ % MOISTURE ☐	FINES + IVBA	RADIONUCLIDES	HOLD	REMARKS
SN-00066	4/29/10	1700		SED	1									X											Tg 123
SN-00067		1705			1									X											Tg 124
SN-00068		1710			1									X											Tg 125
SN-00069		1715			1									X											Tg 126
SN-00070		1720			1									X											Tg 127
SN-00071		1725			3	X				X	X		X		X	X	X	X	X						Tg 128-130
SN-00072		1730			3	X				X	X		X		X	X	X	X	X						Tg 131-133
SN-00073		1735		↓	3	X				X	X		X		X	X	X	X	X		SA 5/6/10				Tg 134-136
SN-00074	↓	1325		WTR	11	X				X	X		X	X	X		X				X		X		Tg 139-147

Samples not to be emailed until shipment

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO <2mm.

HOLD SN0074 FOR PCDD/F, PCB CONGENERS, & PBDES.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 4/30/10 11:30	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

COC revised 5/4/10 CH

HAND COURIER - INTEGRAL

Columbia Analytical Services™ CHAIN OF CUSTODY

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SR#: _____ PAGE 1 OF 1 COC # _____

PROJECT NAME 2010 UCR BEACH SAMPLING
PROJECT NUMBER C521-0101
PROJECT MANAGER JESS MOORE / CRAIG HUTCHINGS
COMPANY/ADDRESS INTEGRAL CONSULTING
319 SW WASHINGTON ST, STE 1150
CITY/STATE/ZIP PORTLAND, OR 97204
E-MAIL ADDRESS CHUTCHINGS@INTEGRAL-CORP.COM
PHONE # 360-705-3534 FAX #
SAMPLER'S SIGNATURE Craig Hutchings

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0052	4/30/10	1555		SED	3	TG101-103
SN-0053		1615				TG104-106
SN-0054		1620				TG107-109
SN-0055		1545				TG110-112
SN-0099		1200				TG189-191
SN-~~0155~~ 0100		1205				TG192-194
SN-0101		1210				TG195-197
SN-0102		1215				TG198-200
SN-0103		1220				TG201-~~203~~ 203
SN-0104		1225				TG204-~~206~~ 206
SN-0123	4/30/10					TG224-227

Analyses requested: Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐; Volatile Organics 624 ☐ 8260 ☐; Hydrocarbons Gas ☐ BTEX ☐ 8021 ☐; Fuel Fingerprint (*see below) Diesel ☐ Oil ☐; NW-HCID Screen; Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐; PCB's Aroclors ☐ Congeners ☐; Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐; Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐; PAHs 8310 ☐ SIM ☐; Metals, Total or Dissolved (See list below); Cyanide ☐ URANIUM ☐ Hex-Chrom ☐; pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle); NH3-N, COD, Total-P, TKN, TOC; DOC (circle) NO2+NO3; TOX 9020 ☐ AOX 1650 ☐ 506 ☐; ARCHIVE GRAIN SIZE, TOTAL SULFIDES, %MAN SIZE; TIMES + INVA - RADIO NUCLIDES

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date _____

Circle which metals are to be analyzed: X X X

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

GRAIN SIZE ON WHOLE SEDIMENT, ALL OTHER ANALYSES SIEVED TO < 2mm

Hold radionuclides on SN-0123 CH 5/4/10

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Bill Lawrence	Signature:	Signature:	Signature:
Date/Time: 5/3 10:00	Date/Time: 5/3/10 1000	Date/Time:	Date/Time:
Printed Name: Bill Lawrence	Printed Name: Les Kennedy	Printed Name:	Printed Name:
Firm: Integral	Firm: CAS	Firm:	Firm:

RCOC #1 07/09

FedEx. US Airbill
Express

FedEx Tracking Number 8675 2243 1504

From ID No. 0200 Sender's Copy

1 From *Please print and press hard.*

Date 9/10/09 Sender's FedEx Account Number 2623-3870-3

Sender's Name Craig Hutchings Phone (360) 481-2158

Company Integral Consulting

Address 1205 West Bay Drive NW
Dept./Floor/Suite/Room

City Olympia State WA ZIP 98502

2 Your Internal Billing Reference
First 24 characters will appear on invoice. C52k-0101

3 To

Recipient's Name Jeff Christian Phone (360) 577-7222

Company Columbia Analytical Services

Recipient's Address 1317 South 13th Ave
We cannot deliver to P.O. boxes or P.O. ZIP codes.
Dept./Floor/Suite/Room

Address
To request a package be held at a specific FedEx location, print FedEx address here.

City Kelso State WA ZIP 98626

4a Express Package Service *Packages up to 150 lbs.*

- [x] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. * To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation. ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] SATURDAY Delivery NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] HOLD Weekday at FedEx Location NOT Available for FedEx First Overnight.
- [ ] HOLD Saturday at FedEx Location Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging. [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
4	246 lbs	$ 1,000 .00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

Rev. Date 10/06 • Part #158281-701994-2006 FedEx • PRINTED IN U.S.A. SRY

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CHAIN OF CUSTODY

FED EX # 8675 2043 1504

SR#: _____

PAGE 1 OF 4 COC # _____

Columbia Analytical Services™
1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME: UCR Beach Sediment Sampling 2009
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Dina Johnson / Craig Hutchings
COMPANY/ADDRESS: Integral
1205 West Bay Drive NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3531 ext 17 FAX #:
SAMPLER'S SIGNATURE: Craig Hutchings Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Archive	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ (* Grain Size)	Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle) Alkalinity	NH_3-N, COD, Total-P, TKN, TOC DOC (circle) NO_2+NO_3-N	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Ultrasizing	Grain Size Only	Particle Density	REMARKS
SN-0013	9/4/09	16:40		Sed	1											X									TG25
SN-0014		16:41			1											X									TG26
SN-0015		16:43			1											X									TG27
SN-0016		17:11			1											X									TG28
SN-0017		17:12			1											X									TG29
SN-0018		17:13			1											X									TG30
SN-0019		17:30			1											X									TG31
SN-0020		17:32			1											X									TG32
SN-0021		17:33			1											X									TG33
~~SN-0022~~	~~9/4/09~~	~~18:29~~		~~Sed~~	~~1~~											X									TG34

KMC 9/10/09

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
Grainsize on whole sediment, all other analyses sieved to <2mm

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature:	Signature:	Signature:
Date/Time: 9/10/09 8:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: Craig Hutchings	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

FED EXP 8675 2043 1504

SR#: _____

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PAGE 2 OF 4 COC # _____

PROJECT NAME	UCR Beach Sediment
PROJECT NUMBER	CS21-0101
PROJECT MANAGER	Dion Johnson / Craig Hutchings
COMPANY/ADDRESS	Integral
	1205 West Bay Drive NW
CITY/STATE/ZIP	Olympia WA 98502
E-MAIL ADDRESS	chutchings@integral-corp.com
PHONE #	360-705-3534 ext 17
FAX #	
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Archive	Semivolatile Organics by GC/MS 625☐ 8270☐ 8270LL☒	Volatile Organics 624☐ 8260☐	Hydrocarbons (*see below) Gas☐	BTEX☐ 8021☐ Diesel☐	Oil☐ (418.1) (Extractable)	Fuel Fingerprint (FIQ)☐ NW-HCID Screen☐ Oil & Grease/TRPH 1664 HEM☐	1664 SGT☐	PCB's Aroclors☒	Congeners☐ Pesticides/Herbicides 608☐ 8081A☒	8141A☐ 8151A☐ Chlorophenolics - 8151M Tri☐ Tetra☐	POP☐ PAHS 8310☐ SIM☒	Metals, Total or Dissolved (See list below)	Cyanide☐	Hex-Chrom☐ pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, (TOC) DOC (circle) NO2+NO3-N	TOX 9020☐ AOX 1650☐ 506☐	Ultrawet	Fines at 3 VSM	Radionuclides	REMARKS
SN-0009	9/9/09	18:30		Sed	1												X									TG21
SN-0008		18:29			1												X									TG20
SN-0007		18:28			1												X									TG19
SN-0001		17:00			3	X			X								X		X	Y		X				TG1, TG2, TG3 Rinse
SN-0002		17:07			3	X			X								X		X	X		X				TG4, TG5, TG6
SN-0005		18:11			3	X			X								X		X	X		X				TG13, TG14, TG15
SN-0003		18:17			3	X			X								X		X	X		Y				TG7, TG8, TG9
SN-0004		18:20			3	X			X								X		X	X		X				TG12, TG10, TG11, Rinse
SN-0006		18:30			3	X			X						X		X		X	X		X	X	Y		TG16, TG17, TG18, Rinse
SN-0010		19:30			1				X								X									TG22

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

X Standard (10-15 working days)

___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Grainsize on whole sediment, all other analyses sieved to <2mm

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature:	Signature:	Signature:	Signature:
Date/Time: 9/10/09 8:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: Craig Hutchings	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

RCOC #1 07/09

CHAIN OF CUSTODY

Columbia Analytical Services™

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FedEx 8095 2243 1504

SR#: _____ PAGE 3 OF 4 COC # _____

PROJECT NAME	UCR Beach Sediment Sampling 2009
PROJECT NUMBER	C521-0101
PROJECT MANAGER	Dina Johnson / Craig Hutchings
COMPANY/ADDRESS	Integral
	1205 West Bay Dr NW
CITY/STATE/ZIP	Olympia WA 98502
E-MAIL ADDRESS	CHutchings@integral-corp.com
PHONE #	360-705-3534 ext 17
FAX #	
SAMPLER'S SIGNATURE	

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Archive	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐	Hydrocarbons 8260 ☐ Gas ☐	8021 ☐ BTEX ☐ (*see below) Diesel ☐	Fuel Fingerprint (FIQ) Oil ☐ (Stearic Acid)	NW-HCID Screen	Oil & Grease/TRPH 1664 HEM ☐	1664 SGT ☐	PCB's Aroclors ☒	Congeners ☐	Pesticides/Herbicides 608 ☐	8081A ☒	8141A ☐	8151A ☐	Chlorophenolics - 8151M Tri ☐	Tetra ☐	PCP ☐	PAHS 8310 ☐	SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐	pH, Cond, Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, TOC	DOC (circle) NO_2+NO_3	TOX 9020 ☐	AOX 1650 ☐	506 ☐	Grain size	Rinse + Filter	Rainwater Lidar	REMARKS
SN-0011	9/9/09	18:51		Sed	1																			X													TG-23
SN-001m		18:52			1																			X													TG-24
SN-0022		19:10			3	X	X		X			X	X		X			X	X								X	X		X						TG-34, 35, 36
SN-0023		19:11			3	X	X		X			X	X		X			X	X								X	X		X						TG-37, 38, 39
SN-0024		19:12			3	X	X		X			X	X		X			X	X								X	X		X						TG-40, 41, 42

9/9/09 KMC

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

____ 24 hr. ____ 48 hr.

____ 5 Day

X Standard (10-15 working days)

____ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Grainsize on whole sediment, all other analyses sieved to <2mm

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature:	Signature:	Signature:
Date/Time: 9/10/09 8:00	Date/Time:	Date/Time:	Date/Time:
Printed Name: Craig Hutchings	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

CHAIN OF CUSTODY

FED Ext # 8675 2243 1504

SR#: _____

PAGE 4 OF 4 COC # _____

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PROJECT NAME: UCR Bank Sediment Sampling 2009
PROJECT NUMBER: C521-0101
PROJECT MANAGER: Dion Johnson / Craig Hutchings
COMPANY/ADDRESS: Integral
1205 West Bay Dr NW
CITY/STATE/ZIP: Olympia WA 98502
E-MAIL ADDRESS: chutchings@integral-corp.com
PHONE #: 360-705-3544 ext 17 FAX #:
SAMPLER'S SIGNATURE: Brian Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐	Volatile Organics 624 ☐ 8260 ☐	Hydrocarbons Gas ☐ 8021 ☐ BTEX ☐ Diesel ☐ (*see below) Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID ☐	Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐	PCB's Aroclors ☐ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☐	Metals, Total or Dissolved (See list below)	Cyanide ☐ Hex-Chrom ☐	pH, Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)	NH_3-N, COD, Total-P, TKN, NO_2+NO_3 DOC (circle) TOC	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	Radionuclides	Uranium	REMARKS
SN-UV25	9/9/09	~~1115~~ 1115 Time		W	4								X				X		X				TG45, 99, 75X-46 Kwe 9/17/09

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
___ V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed: (All 9/17 Kwe)

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: [signature]	Signature:	Signature:	Signature:
Date/Time: 9/10/09 7:57	Date/Time:	Date/Time:	Date/Time:
Printed Name: Craig Hutchings	Printed Name:	Printed Name:	Printed Name:
Firm: Integral	Firm:	Firm:	Firm:

FedEx Express **US Airbill**

FedEx Tracking Number **8694 3422 5014**

Form ID No. **0200**

Sender's Copy

1 From *Please print and press hard.*

Date 9/11/09 Sender's FedEx Account Number 2623-3870-3

Sender's Name Craig Hutchings Phone (360) 481-2158

Company Integral

Address 1205 West Bay Drive NW

Dept./Floor/Suite/Room

City Olympia State WA ZIP 98502

2 Your Internal Billing Reference First 24 characters will appear on invoice. CS21-0101

3 To

Recipient's Name Jeff Christian Phone (360) 577-7222

Company Columbia Analytical Services

Recipient's Address 1317 South 13th Ave

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Dept./Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City Kelso State WA ZIP 98626

4a Express Package Service *Packages up to 150 lbs.*

- [X] FedEx Priority Overnight — Next business morning.* Friday Shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate. *To most locations.

4b Express Freight Service *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation: ** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [X] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [X] **SATURDAY Delivery** NOT Available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** NOT Available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [ ] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry Ice, 9, UN 1845 ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below.

- [X] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

FedEx Acct. No. / Credit Card No. Exp. Date

Total Packages	Total Weight	Total Declared Value†
1		$1000.00

†Our liability is limited to $100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FedEx Service Guide, including terms that limit our liability.

CK 9/11/09

8 Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [ ] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. *Fee applies.*

520

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CHAIN OF CUSTODY

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PAGE 1 OF 4 COC # _____

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PROJECT NAME: INCR. BEACH SAMPLING 3009
PROJECT NUMBER: CS21-0101
PROJECT MANAGER: DONNA JOHNSON / KIM CARLTON / CHUCK HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA, WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRAL-CORP.COM
PHONE #: 360-705-3534 x17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0031	9/9/09	12:40		W	11	TG 61 TG 100
SN-0031	9/10/09	13:25		Sed	1	TG 62
SN-0032	9/10/09	13:24			1	TG 63
SN-0033		13:26			1	TG 64
SN-0034		13:27			1	TG 65
SN-0035		13:44			1	TG 66
SN-0036		13:45			1	TG 67
SN-0037		13:46			1	TG 68
SN-0038		14:00			1	TG 69
SN-0039		14:01			1	TG 70

Analyses requested (X):
- Archive: SN-0031
- Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐: SN-0031
- Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐: SN-0031
- Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐ Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐: SN-0031
- Oil & Grease/TRPH 1664 SGT ☐ 1664 HEM ☐: Hold
- PCB's Aroclors ☐ Congeners ☐: SN-0031
- Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐: SN-0031
- Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐: SN-0031
- PAHS 8310 ☐ SIM ☐: SN-0031
- Metals, Total or Dissolved (See list below): SN-0031 through SN-0039
- Cyanide ☐: SN-0031
- Hex-Chrom ☐: SN-0031
- pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle): SN-0031
- NH3-N, COD, Total-P, TKN, TOC, DOC (circle) NO2+NO3: SN-0031
- TOX 9020 ☐ AOX 1650 ☐ 506 ☐: SN-0031
- TOTAL SULFIDES, % MOISTURE: SN-0031
- URANIUM: SN-0031
- % FINES, SIEVE: SN-0031
- RAD CHEM: SN-0031

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required

___ II. Report Dup., MS, MSD as required

X III. Data Validation Report (includes all raw data)

___ IV. CLP Deliverable Report

X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

X Standard (10-15 working days)

___ Provide FAX Results

_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Hold PBDE, PCB congener & Dioxins for SN-0051 until further instruction.

Grain size on whole sediment, all other analyses sieved to <2mm.

Hold rad chem analyses for SN-0051.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 9/11/09 8:35	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services

CHAIN OF CUSTODY

FED Ex# 8694 3422 5014

SR#: _____

PAGE 2 OF 4 COC # _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PROJECT NAME: NCR BEACH SAMPLING 2009
PROJECT NUMBER: C521-01-01
PROJECT MANAGER: DINA JOHNSON / LAB CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x 17 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN0040	9/10/09	1402		SED	1	TG91
SN-0041		1407			1	TG92
SN-0042		1408			1	TG93
SN-0043		1409			1	TG94
SN-0044		1422			1	TG95
SN-0045		1423			1	TG96
SN-0046		1424			1	TG97

ARCHIVE

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
Fuel Fingerprint (FIQ) ☐☐
Oil & Grease/TRPH 1664 HEM ☐ NW-HCID Screen 1664 SGT ☐
PCB's Aroclors ☒ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐
Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐
PAHS 8310 ☐ SIM ☒
Metals, Total or Dissolved (See list below) ☒
Cyanide ☐ Hex-Chrom ☐
pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)
NH3-N, COD, Total-P, TKN, TOC DOC (circle) NO2+NO3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
TOTAL SULFIDES, 9030 MMELSCORE
URANIUM
GRAIN SIZE % FINES
IVBA
RAD CHEM

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results
_____ Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al) (As) (Sb) (Ba) (Be) B (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) Mo (Ni) (K) (Ag) (Na) (Se) Sr (Tl) Sn (V) (Zn) (Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER:_____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
Grain size on whole sediment, all other analysis sieved to 2 mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 9/11/09 8:35	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

Columbia Analytical Services™

CHAIN OF CUSTODY

FED EX # 9694 3422 5014

SR#: _____

1317 South 13th Ave. • Kelso, WA 98626 • (360) 577-7222 • (800) 695-7222x07 • FAX (360) 636-1068

PAGE 3 OF 4 COC # _____

PROJECT NAME: NCR BEACH SAMPLING 2009
PROJECT NUMBER: 0521-0101 LAB
PROJECT MANAGER: DINA JOHNSON / CONTACT: CRAIG HUTCHINGS
COMPANY/ADDRESS: INTEGRAL CONSULTING
1205 WEST BAY DRIVE NW
CITY/STATE/ZIP: OLYMPIA WA 98502
E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM
PHONE #: 360-705-3534 x 19 FAX #:
SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	REMARKS
SN-0026	9/11/09	12:40		Sed	3	T646, T648, T649
SN-0027		12:49			5	T650, T651, T652
SN-0028		13:42			3	T653, T654, T655
SN-0029		14:45			3	T656, T657, T658
SN-0030		15:16			3	T659, 60, 61

Preservative: Archive

Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☐
Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐ GRAIN SIZE
Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐
Fuel Fingerprint (FIQ) ☐ NW-HCID ☐
Oil & Grease/TRPH 1664 HEM ☐ 1664 SGT ☐
PCB's Aroclors ☐ Congeners ☐
Pesticides/Herbicides 608 ☐ 8081A ☐ 8141A ☐ 8151A ☐
Chlorophenolics - Tri ☐ Tetra ☐ 8151M PCP ☐
PAHs 8310 ☐ SIM ☐
Metals, Total or Dissolved (See list below)
Cyanide ☐
Hex-Chrom ☐
(pH), Cond., Cl, SO_4, PO_4, F, NO_2, NO_3, BOD, TSS, TDS (circle)
NH_3-N, COD, Total-P, TKN, (TOC) DOC (circle) NO_2+NO_3
TOX 9020 ☐ AOX 1650 ☐ 506 ☐
TOTAL SULFIDES (MOISTURE)
URANIUM 234
% FINES + IVBA
RAD CHEM

REPORT REQUIREMENTS

___ I. Routine Report: Method Blank, Surrogate, as required
___ II. Report Dup., MS, MSD as required
X III. Data Validation Report (includes all raw data)
___ IV. CLP Deliverable Report
X V. EDD

INVOICE INFORMATION

P.O. # _____
Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.
___ 5 Day
X Standard (10-15 working days)
___ Provide FAX Results

Requested Report Date: _____

Circle which metals are to be analyzed:

Total Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:
Grain size on whole sediment, all other analyses sieved to <2mm.

RELINQUISHED BY:	RECEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
Signature: Kim Carlton	Signature:	Signature:	Signature:
Date/Time: 9/11/09 8:35	Date/Time:	Date/Time:	Date/Time:
Printed Name: KIM CARLTON	Printed Name:	Printed Name:	Printed Name:
Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

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Columbia Analytical Services™

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FED EX 8694 3422 5014 4

SR#: _____

PAGE 1 OF 1 COC #: _____

PROJECT NAME: LACR BEACH SAMPLING 2009

PROJECT NUMBER: C521-0101

PROJECT MANAGER: DINA JOHNSON / CRAIG HUTCHINGS (CONTACT) LAB

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E-MAIL ADDRESS: CHUTCHINGS@INTEGRALCORP.COM

PHONE #: 360-705-3534 x17 FAX #:

SAMPLER'S SIGNATURE: Kim Carlton

SAMPLE I.D.	DATE	TIME	LAB I.D.	MATRIX	NUMBER OF CONTAINERS	ARCHIVE	Semivolatile Organics by GC/MS 625 ☐ 8270 ☐ 8270LL ☒	Volatile Organics 624 ☐ 8260 ☐ 8021 ☐ BTEX ☐	Hydrocarbons (*see below) Gas ☐ Diesel ☐ Oil ☐	Fuel Fingerprint (FIQ) ☐ NW-HCID Screen ☐	Oil & Grease/TRPH 1664 SGT ☐ 1664 HEM ☐	PCB's Aroclors ☒ Congeners ☐	Pesticides/Herbicides 608 ☐ 8081A ☒ 8141A ☐ 8151A ☐	Chlorophenolics - 8151M Tri ☐ Tetra ☐ PCP ☐	PAHS 8310 ☐ SIM ☒	Metals, Total or Dissolved (See list below)	Cyanide ☐	Hex-Chrom ☐ pH, Cond., Cl, SO4, PO4, F, NO2, NO3, BOD, TSS, TDS (circle)	NH3-N, COD, Total-P, TKN, (TOC) DOC (circle) NO2+NO3	TOX 9020 ☐ AOX 1650 ☐ 506 ☐	TOTAL SULFIDES, DI DISTILLATE	URANIUM	% FINES & IVBA	RAD CHEM	REMARKS
SN-0049	9/10/09	1430		SED	3	X	X	X				X	X		X	SM		X	X		X	X			16, 96, 179, 80
SN-0048		1435			3	X	X	X				X	X		X			X	X		X	X			181, 82, 183
SN-0049		1440			3	X	X	X				X	X		X			X	X		X	X			184, 85, 86
SN-0050		1445			3	X	X	X				X	X		X			X	X		X	X			187, 88, 89

REPORT REQUIREMENTS

- ___ I. Routine Report: Method Blank, Surrogate, as required
- ___ II. Report Dup., MS, MSD as required
- X III. Data Validation Report (includes all raw data)
- ___ IV. CLP Deliverable Report
- X V. EDD

INVOICE INFORMATION

P.O. # _____

Bill To: _____

TURNAROUND REQUIREMENTS

___ 24 hr. ___ 48 hr.

___ 5 Day

X Standard (10-15 working days)

___ Provide FAX Results

Requested Report Date

Circle which metals are to be analyzed:

Total Metals: (Al) (As) (Sb) (Ba) (Be) B (Ca) (Cd) (Co) (Cr) (Cu) (Fe) (Pb) (Mg) (Mn) Mo Ni (K) (Ag) (Na) (Se) Sr (Tl) Sn (V) (Zn) (Hg)

Dissolved Metals: Al As Sb Ba Be B Ca Cd Co Cr Cu Fe Pb Mg Mn Mo Ni K Ag Na Se Sr Tl Sn V Zn Hg

*INDICATE STATE HYDROCARBON PROCEDURE: AK CA WI NORTHWEST OTHER: _____ (CIRCLE ONE)

SPECIAL INSTRUCTIONS/COMMENTS:

Grain size on whole sediment, all other analyses sieved to <2mm

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Firm: INTEGRAL	Firm:	Firm:	Firm:

RCOC #1 07/09

APPENDIX H

SITE-SPECIFIC STANDARD OPERATING PROCEDURE—BEACH SEDIMENT SAMPLING AT UPPER COLUMBIA RIVER

SITE-SPECIFIC OPERATING PROCEDURE

BEACH SEDIMENT SAMPLING AT UPPER COLUMBIA RIVER

Scope and Application

The following procedures are designed to include the systematic processes that will be instituted by the field sampling team(s) to ensure that project schedule and sample integrity will be maintained during collection of surface and subsurface beach sediment samples from the upper Columbia River between the Coulee Dam and the U.S.-Canadian border.

As specified in the project-specific field sampling plan (FSP), surface and subsurface beach sediment samples will be collected at discrete locations randomly distributed throughout the beach between the water's edge and the maximum elevation for a specific beach. The beaches will be accessed by either boat or van.

The sediment compositing scheme will follow the descriptions of the project-specific FSP. All subsample locations will be randomly selected from a uniform grid. In addition to the required number of randomly selected sampling locations for surface and subsurface sediment, an additional number of alternate locations (also randomly selected) have been identified on the uniform grid as secondary sampling locations if the primary locations cannot be accessed due to physical limitations (e.g., under water). This compositing scheme using randomly generated sampling locations is to ensure that the composite samples will be representative of the entire site.

Team Organization

A beach sampling team will generally be made up of a field team leader, navigator, sediment samplers (surface and subsurface), a boat pilot (if necessary), and support personnel. A separate supply trailer with support personnel will be assigned to each team. In addition, when multiple teams are deployed, a field coordinator will also be assigned to the project. If the field coordinator is also part of a sampling team, then they will also take on the role of field team leader for one of the sampling teams.

The *field coordinator* will be in charge of communications between all field team leaders to ensure that:

- All sampling personnel are safe
- All samples are being collected in an efficient manner
- All sample collection is completed according to the project-specific quality assurance project plan (QAPP) and FSP instructions
- Samples are shipped to the respective analytical laboratories on time
- If problems arise during sample collection or sample shipping, the field coordinator will be responsible for communicating the issues with the project manager and obtaining authorization for implementing an alternative solution.

Each *field team leader* will be responsible for daily communications to ensure that:

- Any situation that could create a deviation from the project-specific QAPP or FSP is immediately communicated to the field coordinator
- The immediate health and safety needs of all field sampling personnel are met; including selection of a safe working area at each beach for the team's command post and for sample processing
- The field coordinator knows the exact location of each command post and sample processing area at each beach whether or not the beach has been accessed by boat or by van
- The field coordinator knows that all samples have been collected safely and completely and that the samples were shipped to the analytical laboratories on time
- Support personnel know when and where samples will be ready for further processing and shipping.

The *navigator* is responsible for navigating to each sampling point on the beach and inserting a numbered and color-coded flag into the sediment to identify each sampling site. Each composite sample will be assigned a different colored flag. After all of the sampling sites have been identified, the navigator will assist with processing samples, logging chain of custody forms, and storing samples in coolers.

The *surface sediment samplers* are responsible for transporting sampling equipment to each sampling point (as marked by the navigator) and collecting and compositing all surface sediment samples needed at each beach. It is estimated that two field samplers will be needed for this task.

The s*ubsurface sediment samplers* are responsible for handling the coring device, collecting a sediment core, carrying the core to a processing area at the site, and processing all sediment cores needed at each beach. It is estimated that two field samplers will be needed for this task.

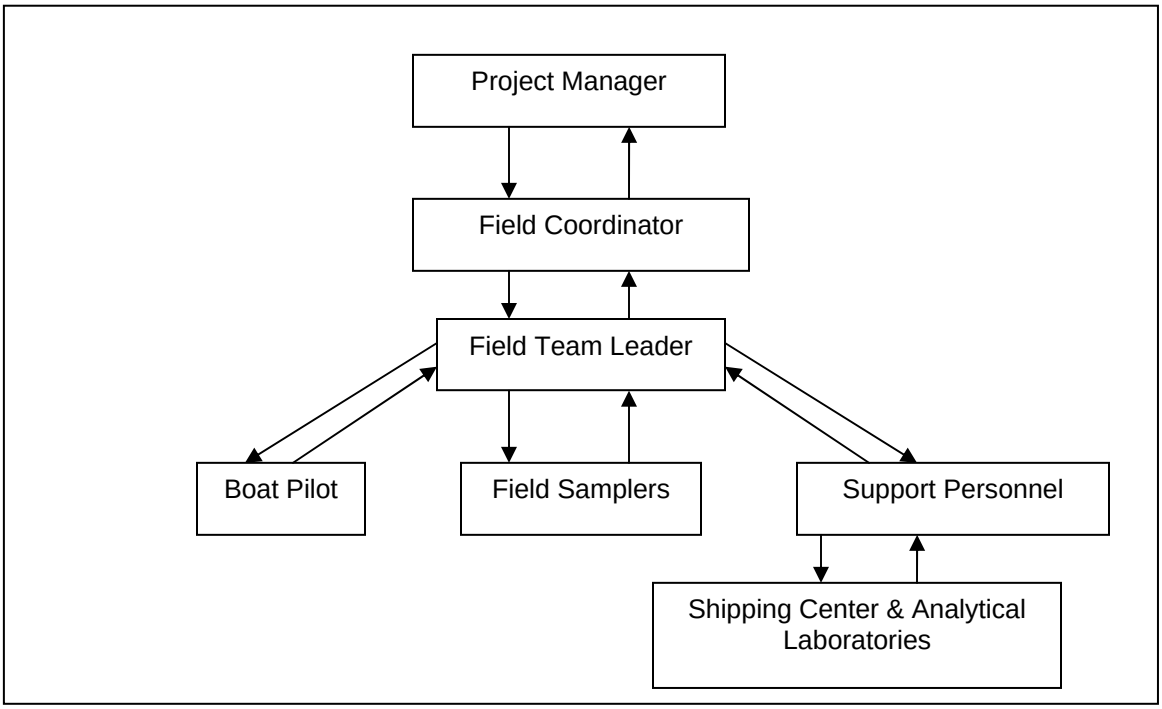
The *boat pilot* (if needed) will be in charge of navigating the boat to each beach where van access is not available or where beach access can be more efficiently achieved via boat (e.g., access from the road is too difficult or travel time is greater by van than by boat). The pilot will have limited availability to assist the field crew; the pilot's primary responsibility is to ensure the safety of the vessel and the sampling crew while on board.

Support personnel will be responsible for daily communications with a field team leader to ensure that they:

- Know when and where samples will be ready for further processing and shipping (i.e., the support personnel will perform a quality assurance check of sample labeling against the prepared chain of custody form and properly complete sample packaging and shipping)
- Communicate to the field team leader that samples were safely delivered to the shipping center (e.g., nearest FedEx drop off location) for delivery to the analytical laboratories
- Communicate with the analytical laboratories relaying the information about when samples will arrive and the number of coolers and number of samples
- Communicate with the field team leader to determine if any additional field supplies are needed.

Communications Protocol

During the beach sampling event, there may be multiple teams each sampling a different beaches on any given day. The field coordinator will be in responsible for keeping track of all teams' activities and for the safety of all field sampling personnel. The following diagram shows the flow of communications.



Lines of Communication

Each team will be equipped with a satellite phone, cell phone, and laptop computer with Wi-Fi and air-card (i.e., cell phone connection).

All team members will be trained in the proper use of the satellite phone and when satellite coverage is available. A daily Optimum Satellite Availability Report (as provided at http://www.globalstarusa.com/en/optimum_tool/) will be downloaded prior to each sampling event and distributed to each field team leader prior to the sampling event. Real time satellite tracking for Globalstar can also be found at http://www.n2yo.com/?k=17.

The Globalstar Optimum Satellite Availability Report will be used by the field coordinator to establish a contact time with each field team leader via satellite phone (if cell phone coverage is not available) for the daily tailgate health and safety meeting and daily end-of-the-day status update.

Field Procedures

1. Locate each beach as directed in the project-specific FSP and determine where to safely set up the team's command post and sample processing area. When boats are used to access the beach, the sampling processing area will be located on the aft boat deck if sufficient space is available.

Note: Before allowing any sampling personnel to disembark from the boat, the boat pilot and the field team leader will determine that the beach area is safe for walking.

1.1. The sample processing area will include a covered canopy to protect samplers from inclement weather. The canopy must be secured to the ground with weights (e.g., recyclable water jugs or sand bags) or attached to a structure (e.g., a tree or boat gunnel). Collapsible processing tables will be covered with aluminum foil or plastic sheeting. Separate tables will be used to label sampling jars and to collect and process samples (e.g., sectioning cores or filling jars from composited surface sediment sampling bowls). In addition, at least two folding chairs, garbage bags, aluminum foil, plastic sheeting, paper towels, sample jars, labels, coolers with ice, plastic buckets, and potable water will be available.

1.2. The entire sample processing area where sediment will be exposed is considered part of the exclusion zone (see site health and safety plan [HSP] for further details, Attachment A1 of Appendix A in the project-specific QAPP) and will be marked with warning tape to prevent any unauthorized personnel from accidentally walking into the exclusion zone. In the case of using the boat deck, the aft deck will be considered the exclusion zone and no unauthorized personnel will be allowed on board of the sampling boat.

1.3. A sampling equipment decontamination area will be set up as a reduction zone. The reduction zone will be set up away from the sample processing area and marked with tape in similar fashion as the exclusion zone. This area will contain distilled water spray container, aluminum foil, garbage bags, and three large plastic totes or large pressurized spray bottles placed side by side on the ground for sampling equipment decontamination. The first tote (or large pressurized spray bottle) will contain site or tap water to remove any remaining sediment from sampling equipment. The second tote will contain clean tap water (or large pressurized spray bottle) and soap (e.g., Liqui-Nox™) to thoroughly brush all sampling equipment parts. The third tote (or large pressurized spray bottle) will contain clean distilled/deionized water (provided by the testing laboratory) for rinsing the cleaned equipment. This final rinse of distilled/deionized water will be done before the sampling equipment is drained and wrapped in clean foil ready for the next sampling location (i.e., beach).

1.4. The support zone will be the boat cabin or pilot house, the van interior or any area away from the exclusion and decontamination zones. Personnel wearing protective clothing who are leaving the exclusion or decontamination zone will be required to rinse off their protective clothing with potable or river water before entering this area (as necessary).

2. The *navigator* will be equipped with a handheld global positioning system (GPS) unit, a digital camera, a site map with all target locations, and a set number of flags for each of the color groups related to each beach sediment composite. An additional set of flags will be marked with a double black line on the edge for each of the coring locations.

2.1. The *navigator* will locate the target sampling sites utilizing the same GPS procedures as outlined in SOP AP-06.

2.2. The *navigator* will start at one end of the beach by marking each sampling site with a flag. If multiple composite samples are required, each sampling site will be marked with a flag containing the site-specific number location and a color matching the site-specific composite ID. For example, five composites are needed at each beach and each composite needs 12 randomly spaced sediment samples. Each composite is assigned a color-coded flag (e.g., composites A, B, and C will be assigned the colored flags red, white, and blue respectively). Each sample for a particular composite will be numbered 1 through 12. The navigator will carry 5 different color coded sets of 12 flags each and mark each colored flag with the assigned number of the sampling site that he/she encounters with the GPS (i.e., a total of 60 flags).

2.3. Prior to sample collection, a photograph of each proposed sample collection location will be taken following the procedures provided in SOP AP-08. The purpose of these photographs will be to provide additional information on field conditions, such as the proportion of the sample location represented by gravel versus more fine sediment material.

2.4. If the *navigator* determines that the target location is not suitable for sampling (i.e., too many cobbles or too much vegetation), an alternate station, already loaded in the GPS, will be selected from the table of previously randomly assigned points. The navigator will make an entry in the field logbook noting the target location and a brief explanation for why that site was rejected. For surface sediment sampling locations only, if subsequent alternate stations continue to be unsuitable for sampling and a <u>non</u>-random alternate is apparent to the *navigator*, then this non-random station will be marked with a unique flag and the *field team leader* will inspect the proposed, non-random alternate sampling location and determine if it is suitable for sample collection. For both surface and subsurface sediment sampling, a photograph will be taken only of the location where the final sample was collected, and if the entire beach is unacceptable for sample collection (i.e., entirely covered by cobble, water, or vegetation), then an overview photograph will be taken of the length of the beach.

2.5. While the *navigator* is staking each sampling site with a flag, the surface and subsurface sediment samplers will be setting up the staging area for sample processing, field sampling equipment setup and equipment decontamination after sampling.

3. The *surface sediment samplers* will set up a push/pull utility cart with all the necessary sampling equipment and begin sampling along the same beach where the navigator has placed the target location flags. It is estimated that two field samplers will be needed for this task.

3.1. Sampling will begin from one end of the beach to the other at a depth of between 0 and 6-in. (15 cm) below ground surface (bgs) from each flagged site until all samples are collected.

3.2. The utility cart will contain the same number of decontaminated stainless steel bowls and spoons as the number of composites assigned to that beach. Using the same example above, five sediment composites will be needed at a single beach. The sampling crew will need five bowls and spoons on the cart. Because all 60 sampling sites are randomly assigned for all composite samples, samplers will encounter many different colored flags near each other. As soon as a different colored flag is encountered, the respectively marked stainless steel bowl and spoon for that composite will be used to collect sediment from that site. Each bowl will be covered with an aluminum foil cover marked with the composite color code and composite number.

3.3. The final five surface sediment composites will be identified as letters A through E for each beach. For example, surface sediment composite # 3 at Black Sand beach will be labeled as SD-BSC, where SD = sediment, BS = Black Sand beach, C = composite #3. See Table 1-1: Analytes and Sample Jar Requirements for Each UCR Beach Sediment Station for all sample IDs.

3.4. At each site, the sampler will examine the area and avoid sampling from areas where foot traffic has been observed. Sediment characterization will be done according to SOP SD-13.

3.5. All sediment samples will be dried at the analytical laboratory and then sieved to <2 mm to generate at least 111 g of dry surface sediment for all analyses. Therefore, a factor of 2 has been added to the original sample volume estimate and a larger volume of sediment will be collected at these stations to fulfill all analytical dry weight requirements. For each beach sediment composite, the following sediment volume will be collected based on the analytical requirements provided in the project-specific QAPP.

- Surface wet sediment: 104 oz (3.25 quarts)

Each large stainless steel spoon contains approximately 2 oz of sediment by volume. Because each composite sample requires equal volumes of sediment from each of the 12 sampling sites, the following is the approximate volume requirement per sampling site.

- Surface sediment: 104 oz/12 sites = 9 oz/site or equivalent to 5 large spoonfuls/site

3.6. The sampler will collect sediment so that the final volume from all individual sampling sites per composite will fulfill the analytical laboratory requirements as described above. Surface sediment sampling will follow the procedures in SOP SL-05. After sediment has been placed in the bowl from each subsampling location, the sampler will homogenize it and then cover it with aluminum foil. If samples for volatile organic analyses are required, sediment will be scooped from the sample collection bowl before homogenization.

3.7. Once all individual sampling sites are collected and thoroughly homogenized at the staging area, the final sediment composite is placed inside a large Teflon bag, sealed with a plastic clip, labeled on the outside, placed inside a larger polyethylene resealable plastic bag and stored in a cooler with ice.

3.8. This method of sampling will prevent contamination of surface sediments by foot traffic if multiple trips along the beach were to take place. Once the sampling team reaches the end of the beach transect, the utility cart will contain five completed composite samples.

4. The *subsurface sediment samplers* will set up a push/pull utility cart with all the necessary sampling equipment for sediment coring at each of the randomly assigned sampling sites with care not to step on areas around the marked flags for surface sediment stations. It is anticipated that two field samplers will be needed for this task.

4.1. Sampling of subsurface sediments with a portable electric vibracorer will follow procedures in SOP SD-08 and SOP SL-06. A portable generator will be placed as far away as possible and downwind from the sampling site with care not to rest the generator over an area where the surface sediment sampling team may collect samples.

4.2. Each depth stratum (1 = 0–6 in. [0–15 cm], 2 = 6–18 in. [15–45 cm], and 3 = 18–30 in. [45–75 cm]) at each location (5 sites) (i.e., 15 discrete samples) will be submitted to the laboratory for sieving to < 2 mm and the analysis of target analyte list metals/metalloids prior to sample homogenization.

4.3. Each individual subsurface sediment core will be identified as letters A through E for each beach. Each sediment depth interval will be identified as follows: 0 – 15

cm = 1, 15 – 45 cm = 2, 45 – 75 cm = 3. For example, the individual sediment core sample for TAL metals from the depth interval between 15 - 45 cm of core # 4 at Black Sand beach will be labeled as CR-BSD2, where CR = sediment core, BS = Black Sand beach, D = composite #4 and 2 = depth interval between 15 - 45 cm.

The final composite for each depth interval of all five cores will be identified as numbers 1 through 3. For example, the final composite sample for the depth interval between 45 – 75 cm at Northport beach will be labeled as CR-NP3, where CR = sediment core, NP = Northport, 3 = composite for the depth interval between 45 – 75 cm. See Table 1-1: Analytes and Sample Jar Requirements for Each UCR Beach Sediment Station for all sample requirements.

4.4. To address sample mass requirements, a single composite sample of each depth stratum from each of the five locations will be collected from each beach (i.e., three composite samples; one per depth interval). The composite sample will be divided into two components:

1. The whole sediment that will be analyzed for grain size distribution
2. A sieved < 2 mm size fraction of the sample that will be analyzed for the remaining chemical analyses as described in the project-specific QAPP.

All subsurface sediment samples will be dried at the analytical laboratory and then sieved to < 2 mm to generate at least 226 g of dry sediment per depth interval for all analyses. Therefore, a factor of 2 has been added to the original estimate to collect a larger volume of sediment samples to fulfill all analytical dry weight requirements. For each depth profile composite, the following sediment volumes will be collected based on the project-specific QAPP analytical requirements.

4.4. Three depth intervals from each core will be analyzed: 1 = 0–6 in. (0–15 cm), 2 = 6–18 in. (15–45 cm), and 3 = 18–30 in. (45–75 cm). Segment 1 contains approximately 1.0 quart of sediment by volume (a 15 cm length by 10 cm diameter core yielding 1,177 cm^3, or 39.8 oz, of sediment). Segments 2 and 3 have the same volume of approximately 2.0 quarts provided the core is able to penetrate down to a depth of 30 in., or 75 cm, bgs (a 30 cm length by 10 cm diameter core yielding 2,355 cm^3, or 79.6 oz, of sediment). Because each composite sample requires equal volumes of sediment from the same sediment depth interval, the following is the approximate volume requirement per depth interval.

- Subsurface sediments: 200 oz (6.25 quarts) per sediment depth interval.

The larger volume requirements for the subsurface samples reflect the additional analyses for organic compounds.

After each depth interval of all five cores is composited, there should be sufficient sediment for all the analyses required.

Once the cores described above are collected for each depth interval at each location, the team will carry the cores back to the staging area for sample processing. The Lexan™ cores will be placed on a table and the materials will be extruded onto clean aluminum foil. Logging of sediment cores will be done following the procedures outlined in SOP SD-12. This routine will be repeated at five sites for each beach. After the core is described and depth sections measured and marked, sediment from each section will be sampled into stainless steel bowls, homogenized and sample jars will be filled. If samples for volatile organic analyses are required, sediment will be scooped from the core sections before homogenization.

5. The *sediment samplers* will decontaminate the sampling equipment according to Integral's SOP on decontaminating equipment for soil sampling (SOP SL-01) and in accordance with the project-specific FSP.

6. *Support personnel* will contact the field team leader and determine the time to meet at the beach or boat ramp to receive the samples from the field sampling team. It is anticipated that two field technicians may be needed for this task.

6.1. Support personnel will carefully check that all sampling jars were labeled correctly with sample ID, date, time, and sampler initials against the chain of custody forms that have been previously completed in the field and are accompanying the samples.

6.2. After checking for accuracy and ensuring that the correct number of vials was collected, support personnel will wrap jars individually in bubble wrap and place them in coolers according to shipping specifications in SOP AP-01.

6.3. The coolers will be filled with wet ice and placed inside the van for transport to the shipping center (e.g., FedEx drop off site). Depending on the time of the year, a refrigerated van or truck may be needed to maintain coolers in cold storage until shipped to the analytical laboratories.

Equipment and Supplies Required

- Decontaminated sampling tool (stainless-steel shovel, scoop, trowel, or spoon)

- Large stainless steel mixing bowls and spoons
- 12 in. by 25 in. Teflon bags
- 5 gal plastic buckets with lids
- Heavy duty elastic rubber bands
- Four-wheel push/pull utility cart with enough space to accommodate sampling equipment (i.e. stainless steel bowls, spoons and aluminum foil)
- Handheld GPS unit
- Plastic flags on wire stems
- Marking pens (thick tip Sharpie® markers)
- Auger or coring device (e.g., stainless-steel bucket auger with special teeth, coring device with liner and core catcher, stainless-steel hand auger, or equivalent type of equipment)
- Power generator (2000 Watt) if auger or coring device requires electric power
- Collapsible canopy for sample processing
- Folding tables and folding chairs
- Plastic tarp
- Garbage bags
- Paper towels
- Heavy duty aluminum foil roll
- Roll of plastic sheeting
- Stainless steel ruler
- First aid kit with eye washer
- Laboratory-supplied sample containers, insulated coolers, and ice
- Chain-of-custody forms, custody seals, sample labels
- Ziploc® bags
- Camera

- Tape measure
- Field logbook, surface soil field collection form, and pens
- Project-specific FSP and HSP
- Personal protective equipment (safety glasses, hip waders, nitrile gloves, and any other items required by the project-specific HSP)
- Decontamination supplies (e.g., Liqui-Nox™, laboratory-grade distilled/deionized water).

Table 1-1. Analytes and Sample Jar Requirements for Each UCR Beach Sediment Station

Station		Station ID	Sample Number	# of containers	Tag Number	Surface Grabs			Cores				Rinsate Blanks			
						Grain Size	Archive	< 2mm *	TAL	Grain Size	Archive	< 2mm *	TAL + U	TOC	Rad Chem	Organics**
						8oz WMG	16oz WMG	Small Teflon Bag	8oz WMG	8oz WMG	16oz WMG	Large Teflon Bag	1L HDPE	250mL HDPE	2 X 1L HDPE	7 x 1L AG
						4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	HNO_3	H_2SO_4	HNO_3	4±2ºC
						CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
☐ Northport Beach	Surface grab composite	SD-NPA	SN-0052	3	TG101-TG103	☐	☐	☐								
		SD-NPB-1	SN-0053	3	TG104-TG106	☐	☐	☐								
		SD-NPB-2	SN-0054	3	TG107-TG109	☐	☐	☐								
		SD-NPC	SN-0055	3	TG110-TG112	☐	☐	☐								
	Individual core depth interval for TAL metals	CR-NPA1	SN-0056	1	TG113				☐							
		CR-NPA2	SN-0057	1	TG114				☐							
		CR-NPA3	SN-0058	1	TG115				☐							
		CR-NPB1	SN-0059	1	TG116				☐							
		CR-NPB2	SN-0060	1	TG117				☐							
		CR-NPB3	SN-0061	1	TG118				☐							
		CR-NPC1	SN-0062	1	TG119				☐							
		CR-NPC2	SN-0063	1	TG120				☐							
		CR-NPC3	SN-0064	1	TG121				☐							
		CR-NPD1	SN-0065	1	TG122				☐							
		CR-NPD2	SN-0066	1	TG123				☐							
		CR-NPD3	SN-0067	1	TG124				☐							
		CR-NPE1	SN-0068	1	TG125				☐							
		CR-NPE2	SN-0069	1	TG126				☐							
		CR-NPE3	SN-0070	1	TG127				☐							
	Core composite	CR-NP1	SN-0071	3	TG128-TG130					☐	☐	☐				
		CR-NP2	SN-0072	3	TG131-TG133					☐	☐	☐				
		CR-NP3	SN-0073	3	TG134-TG136					☐	☐	☐				
	Rinsate Blank	SDBL-903C	SN-0074	11	TG137-TG147								☐	☐	☐ X 2	☐ X 7
						4	4	4	15	3	3	3	1	1	2	7
☐ Dalles Orchard	Surface grab composite	SD-DSA	SN-0075	3	TG148-TG150	☐	☐	☐								
		SD-DSB	SN-0076	3	TG151-TG153	☐	☐	☐								
		SD-DSC	SN-0077	3	TG154-TG156	☐	☐	☐								
	Individual core depth interval for TAL metals	CR-DSA1	SN-0078	1	TG157				☐							
		CR-DSA2-1	SN-0079	1	TG158				☐							
		CR-DSA2-2	SN-0080	1	TG159				☐							
		CR-DSA3	SN-0081	1	TG160				☐							
		CR-DSB1	SN-0082	1	TG161				☐							
		CR-DSB2	SN-0083	1	TG162				☐							
		CR-DSB3	SN-0084	1	TG163				☐							
		CR-DSC1	SN-0085	1	TG164				☐							
		CR-DSC2	SN-0086	1	TG165				☐							
		CR-DSC3	SN-0087	1	TG166				☐							
		CR-DSD1	SN-0088	1	TG167				☐							
		CR-DSD2	SN-0089	1	TG168				☐							
		CR-DSD3	SN-0090	1	TG169				☐							
		CR-DSE1	SN-0091	1	TG170				☐							
		CR-DSE2	SN-0092	1	TG171				☐							
		CR-DSE3	SN-0093	1	TG172				☐							
	Core composite	CR-DS1	SN-0094	3	TG173-TG175					☐	☐	☐				
		CR-DS2-1	SN-0095	3	TG176-TG178					☐	☐	☐				
		CR-DS2-2	SN-0096	3	TG179-TG181					☐	☐	☐				
		CR-DS3	SN-0097	3	TG182-TG184					☐	☐	☐				
	Rinsate Blank	SDBL-904S	SN-0098	4	TG185-TG188								☐	☐	☐ X 2	
						3	3	3	16	4	4	4	1	1	2	0

Station		Station ID	Sample Number	# of containers	Tag Number	Surface Grabs			Cores				Rinsate Blanks			
						Grain Size	Archive	< 2mm *	TAL	Grain Size	Archive	< 2mm *	TAL + U	TOC	Rad Chem	Organics**
						8oz WMG	16oz WMG	Small Teflon Bag	8oz WMG	8oz WMG	16oz WMG	Large Teflon Bag	1L HDPE	250mL HDPE	2 X 1L HDPE	7 x 1L AG
						4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	HNO_3	H_2SO_4	HNO_3	4±2ºC
						CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
☐ China Bend	Surface grab composite	SD-CBA-1	SN-0099	3	TG189-TG191	☐	☐	☐								
		SD-CBA-2	SN-0100	3	TG192-TG194	☐	☐	☐								
		SD-CBB	SN-0101	3	TG195-TG197	☐	☐	☐								
		SD-CBC	SN-0102	3	TG198-TG200	☐	☐	☐								
		SD-CBD	SN-0103	3	TG201-TG203	☐	☐	☐								
		SD-CBE	SN-0104	3	TG204-TG206	☐	☐	☐								
	Rinsate Blank	SDBL-905S	SN-0105	4	TG207-TG210								☐	☐	☐ X 2	
						6	6	6	0	0	0	0	1	1	2	0
☐ Summer Island	Surface grab composite	SD-SRA	SN-0106	3	TG211-TG213	☐	☐	☐								
		SD-SRB	SN-0107	3	TG214-TG216	☐	☐	☐								
		SD-SRC	SN-0108	3	TG217-TG219	☐	☐	☐								
		SD-SRD	SN-0109	3	TG220-TG222	☐	☐	☐								
		SD-SRE	SN-0110	3	TG223-TG225	☐	☐	☐								
	Individual core depth interval for TAL metals	CR-SRA1-1	SN-0111	1	TG226				☐							
		CR-SRA1-2	SN-0112	1	TG227				☐							
		CR-SRA2	SN-0113	1	TG228				☐							
		CR-SRA3	SN-0114	1	TG229				☐							
		CR-SRB1	SN-0115	1	TG230				☐							
		CR-SRB2	SN-0116	1	TG231				☐							
		CR-SRB3	SN-0117	1	TG232				☐							
		CR-SRC1	SN-0118	1	TG233				☐							
		CR-SRC2	SN-0119	1	TG234				☐							
		CR-SRC3	SN-0120	1	TG235				☐							
		CR-SRD1	SN-0121	1	TG236				☐							
		CR-SRD2	SN-0122	1	TG237				☐							
		CR-SRD3	SN-0123	1	TG238				☐							
		CR-SRE1	SN-0124	1	TG239				☐							
		CR-SRE2	SN-0125	1	TG240				☐							
		CR-SRE3	SN-0126	1	TG241				☐							
	Core composite	CR-SR1-1	SN-0127	3	TG242-TG244					☐	☐	☐				
		CR-SR1-2	SN-0128	3	TG245-TG247					☐	☐	☐				
		CR-SR2	SN-0129	3	TG248-TG250					☐	☐	☐				
		CR-SR3	SN-0130	3	TG251-TG253					☐	☐	☐				
	Rinsate Blank	SDBL-906C	SN-0131	11	TG254-TG264								☐	☐	☐ X 2	☐ X 7
						5	5	5	16	4	4	4	1	1	2	7

Station		Station ID	Sample Number	# of containers	Tag Number	Surface Grabs: Grain Size	Surface Grabs: Archive	Surface Grabs: < 2mm *	Cores: TAL	Cores: Grain Size	Cores: Archive	Cores: < 2mm *	Rinsate Blanks: TAL + U	Rinsate Blanks: TOC	Rinsate Blanks: Rad Chem	Rinsate Blanks: Organics**
						8oz WMG	16oz WMG	Small Teflon Bag	8oz WMG	8oz WMG	16oz WMG	Large Teflon Bag	1L HDPE	250mL HDPE	2 X 1L HDPE	7 x 1L AG
						4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	4±2ºC	HNO_3	H_2SO_4	HNO_3	4±2ºC
						CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS	CAS
☐ Barnaby Island Campground	Surface grab composite	SD-BCA	SN-0132	3	TG265-TG267	☐	☐	☐								
		SD-BCB	SN-0133	3	TG268-TG270	☐	☐	☐								
		SD-BCC-1	SN-0134	3	TG271-TG273	☐	☐	☐								
		SD-BCC-2	SN-0135	3	TG274-TG276	☐	☐	☐								
		SD-BCD	SN-0136	3	TG277-TG279	☐	☐	☐								
		SD-BCE	SN-0137	3	TG280-TG282	☐	☐	☐								
	Individual core depth interval for TAL metals	CR-BCA1	SN-0138	1	TG283				☐							
		CR-BCA2	SN-0139	1	TG284				☐							
		CR-BCA3	SN-0140	1	TG285				☐							
		CR-BCB1	SN-0141	1	TG286				☐							
		CR-BCB2	SN-0142	1	TG287				☐							
		CR-BCB3	SN-0143	1	TG288				☐							
		CR-BCC1	SN-0144	1	TG289				☐							
		CR-BCC2	SN-0145	1	TG290				☐							
		CR-BCC3	SN-0146	1	TG291				☐							
		CR-BCD1	SN-0147	1	TG292				☐							
		CR-BCD2	SN-0148	1	TG293				☐							
		CR-BCD3	SN-0149	1	TG294				☐							
		CR-BCE1	SN-0150	1	TG295				☐							
		CR-BCE2	SN-0151	1	TG296				☐							
		CR-BCE3	SN-0152	1	TG297				☐							
	Core composite	CR-BC1	SN-0153	3	TG298-TG300					☐	☐	☐				
		CR-BC2	SN-0154	3	TG301-TG303					☐	☐	☐				
		CR-BC3	SN-0155	3	TG304-TG306					☐	☐	☐				
	Rinsate Blank	SDBL-907S	SN-0156	4	TG307-TG310								☐	☐	☐ X 2	
						6	6	6	15	3	3	3	1	1	2	0
					Total # containers	24	24	24	62	14	14	14	5	5	10	14

Definitions

* < 2mm sediment fraction will be sieved at the laboratory (CAS)

Surface Grabs = pH, TOC, Total Sulfides, Percent Moisture, TAL metals + U. One sample from each station will be sieved to 4 finer fractions which will be analyzed for TAL Metals + U and IVBA. Radionuclides at Northport Beach, and Dalles Orchard

Cores = pH, TOC, Total Sulfides, Percent Moisture, U, Aroclors, Pesticides, SVOCs, PAHs. If TOC >1% PCB Congeners, Dioxins/Furans, PBDEs.

** rinsate organics for cores only (PCB Aroclors, pesticides, PAHs, SVOCs, PCB cong., Dioxins and PBDEs)

AG = amber glass

HDPE = high density polyethylene sample bootle

WMG = wide mouth glass

Small Teflon Bag (12"x13") = http://www.fluorolab.com/modifiedptfebag13x12x002510pack.aspx

Large Teflon Bag (19"x19") = http://www.fluorolab.com/modifiedptfe3-12gallonpailliner.aspx

Station ID

SD = surface grabs

CR = sediment cores

Rinsate Blanks ending in C = Lexan cores

Rinsate Blanks ending in S = SS bowls & spoons

SN = sample number

TG = tag number

☐ = Radionuclide analysis. Sieve for fine fractions which will be analyzed for TAL Metals + U and IVBA

☐ = Sieve for fine fractions which will be analyzed for TAL Metals + U and IVBA.

CAS: 1317 S. 13th Ave Kelso, WA 98626. 360-577-7222.

 # containers needed per station

Northport Beach		Dalles Orchard		China Bend		Summer Island		Barnaby Island Campground		Order Supply Jars (+20%)		
8oz WMG	22	8oz WMG	23	8oz WMG	6	8oz WMG	25	8oz WMG	24	8oz WMG	120	
16oz WMG	7	16oz WMG	7	16oz WMG	6	16oz WMG	9	16oz WMG	9	16oz WMG	46	
Small Teflon Bag	4	Small Teflon Bag	3	Small Teflon Bag	6	Smal Teflon Bag	5	Small Teflon Bag	6	small Teflon bags	29	
Large Teflon Bag	3	Large Teflon Bag	4	Large Teflon Bag	0	Large Teflon Bag	4	Large Teflon Bag	3	large Teflon bags	17	
1L HDPE	3	1L HDPE	3	1L HDPE	3	1L HDPE	3	1L HDPE	3	1L HDPE	18	
250mL HDPE	1	250mL HDPE	1	250mL HDPE	1	250mL HDPE	1	250mL HDPE	1	250mL HDPE	6	
1L AG	7	1L AG	0	1L AG	0	1L AG	7	1L AG	0	1L AG	17	
Temp Blank	4	Temp Blank	4	Temp Blank	3	Temp Blank	5	Temp Blank	4	Temp Blank	20	1 per cooler
DI for rinsate (L)	10.25	DI for rinsate	3.25	DI for rinsate	3.25	DI for rinsate	10.25	DI for rinsate	3.25	DI from CAS (L)	30.25	2 = 20L cubitainers
DI for decon (L)	10	DI for decon	5	DI for decon	10	DI for decon	5	DI for decon	10	DI for decon	40	2 = 20L cubitainers
coolers	4	coolers	4	coolers	3	coolers	5	coolers	4	coolers	20	

APPENDIX I

JULY 19, 2011, SIGNED DEVIATION/CORRECTION ACTION REPORT FORM ON LEAD

Deviation / Corrective Action Report Form
Upper Columbia River Beach Sediment Study

Date: July 18, 2011 Deviation Number: 01

Applicable Reference: Upper Columbia River (UCR) Quality Assurance Project Plan (QAPP) for the 2009 Beach Sediment Study and Amendments No.1 and No. 2.

Description of Change:

Table A-5 of the 2009 QAPP specified that lead would be analyzed by EPA Method 6020 if it was not detected at the method reporting limit (MRL) using EPA Method 6010B (i.e., MRL = 2.0 mg/kg). Amendment No. 2 of the QAPP specified that analyses for lead using EPA Method 6020 was not necessary because the MRL using EPA Method 6010B is significantly lower than risk-based concentrations (RBCs) for either the traditional subsistence scenario and recreational preliminary remediation goal (both @ 400 mg/kg). Therefore lead would only be analyzed using EPA Method 6010B. The QAPP and not Amendment No.2 was followed.

Corrective Action
No impact on the present or completed work is anticipated and no corrective action is necessary.

Impact on Present and Completed Work

No impact on the present or completed work is anticipated.

Recorded by: Craig Hutchings Date: 7/18/11

ACKNOWLEDGED BY:

Task Manager: Gene Revelas Date: 7/18/11

TAI Project Coordinator: Marko Adzic Date: 07/19/11

EPA Project Coordinator: Helen Bottcher Helen H. Bottcher Date: 7/19/2011