

APPENDIX G
FIELD NOTEBOOKS

FIELD AND DATA REPORT

DOWNTOWN PORTLAND SEDIMENT
CHARACTERIZATION PHASE II

WILLAMETTE RIVER
PORTLAND, OREGON

JUNE 2010

Figure 1 is a vertical bar chart showing the percentage of respondents for each of the 100 items in the 100-item scale. The items are listed on the left, and the percentage of respondents is shown on the right. The items are numbered 1 to 100. The percentages range from 0% to 100%.



Project _____

[illegible]

2/22/2010

Arrived @ Willamette Park

0740 SSS trailering boat to launch

Load aft on dock

On water 0900 to 0951

Safety talk with crew:

Ryan Berg

Justin

Chris Martin

Matt Skinhamp

Ryan off vessel Tues/Wed.

G091 R1 cobbles - jaws didn't close -

10:22

reject

50.0'

dyk

R2

cobble - reject

R3

cobble - reject

2/22

G091 R4 1' west

2' south

rock in jaws

olive-brown sediment, 2-3 cm
gravel - no recovery

R5 grain shift

Rock - jaws didn't close

R6 " jaws didn't close

R7 rock - reject
jaws didn't closeR8 - move 4' off shore
No sample - jaws closed10:41 R9 move downriver - no recovery
Jaws closed, no sample10:44 R10 move downriver
Jaws closed, no sample

11:00 G092 walk to station

11:15 R1 Jaws closed - no image

37.9' R2 Rock in grab (photo 100-2710
89)

R3 Rock - no recovery

R4 Rock - jaws did not close

11:30 R5 Rocks - jaws closed - photo 90

Slight iridescent sheen - camping
propane can floated by possibly associated

11:45 G093 off water front downstream
walk to from Hawthorn Bridge
4th

11:55 R1 Jaws closed - gravel
no photo

2/02

11:50 R2 Jaws closed - gravel

Move toward water front
(lost video before R3)

12:02 R3 rubble - riprap
photo 95, 96

12:03 repair video wire: ok to spend
~5 min on repair, otherwise
do overnight.

12:10 R4 rock - jaws didn't close

12:15 R5 rock - gravel, jaws closed

G094 Hawthorn Bridge + seawall inter recovery
12:32 on station = 39 feet GPS

R1 12:42

R2 12:44
(call from EAC, RP)

R3 12:46

6094 cont 12:45 R4 gravel intake - reject

12:51 R5 gravel in jaws - reject

6095 R1 By OFOFA - Enron / PGE line
reading out 15k volt lines

13:15 R1 rock in jaws -
did not close

13:18 R2 gravel held jaws open

13:20 R3 "

13:21 R4 " some sand - washed
sampled - reject

13:25 R5 gravel in jaws - washed
sand out

13:28 R6 No sample - jaws open

13:30 R7 RE 2 cm
retained for comp

400

1340 R8 50% ~~recovery~~ recovery = good grab

Pen 12 dip 12/22 cm recovery
Full station - need additional volume

~~1350 R9~~

Kept R7, R8 in bowl covered by
alum. foil.

13:50 R9 large, angular rock in jaws
(riprap); REJECT

13:58 R10 rock - jaws open - reject

13:59 R11 13 cm retained

Note -> benthic analysis AND
accompanying chemical analytical only
use top 10 cm - to achieve volume need
multiple stations composited.
attempts

2/13/2010 at Sher. It's Dark 0800

Tustin, Casey - SSS

Watt - SWCH

Chris - HC

T-bl - GSI

Salinity table f20

new external GPS antenna

Enroute to S Waterfront pier

First station G103

0900 in station

36.7'

depth

R1

Slightly washed top
surface; sufficient
recovery, evidence of
gravel in area, except
(left side of grab appeared
representative.)

R =

R = 17cm

12/222

2/23

9

G104

R1

0932

rock/gravel in jaws -
reject

13.6

R2

0938

(on station)
move 12' river center

R3

0940

reject - 10cm asphalt in jaws

R4

0945

move river center
reject - rope/knot held jaws open

0948

R5

gravel in teeth - heavy wash
on retrieval - keep / composite

R = 5cm

09:59

R6

fell over - sampler closed on rock

10:02

R7

rock xL ~16cm

10:04

R8

rock E-jaw

10:06

R9

sediment heavily washed -
cable in jaw - retained as
possible.

R = 3cm

G104 R11 sample washed
 p < 2cm returned, composed
 brown silt with cobbles

3 sample jaws returned

G105

10:48 R1 - rock - jaws didn't close

45' data R2 - jaws closed, nothing inside

41' R3 - cobbles, reject
 estimated radius: ~5-10'

R4 - gravel - no sample

11:01 R5 - cobbles - no sample

Hand station - moving out to
 G106 for attempts

2/23

G106 R1 cobbles - reject
 49' 11:08
 45'

11:15 R2 cobbles - reject

11:18 R3 cobbles, rounded -
 reject

11:21 R4 mud brown sand
 P = 13cm

Note
 HNO₃

G107 R1 Slight over-penetration
 12:00 P = 22" - brown silty sand
 40' DTM R = 22 constant drops -
 removing top 1 cm &
 collecting rest as archive
 + one.

G108 R1 -cobble - reject

~~17~~ 17.5

17" R2 water / no sample

R3
cobble / heavy object - jaws
snapped shut (dropped
heavy object) on return.

17' R4 gravel, cobble, silt -

P=3m

retained -
composite attempt.

1322 R-5

P=3m

wood in jaws - washed -
retained some fines,
collected.

1340 R6

Red tile, cobble - reject

1344 R-7

Key

G112 1415 S Wadsworth

R1 1425 Wood sample → power pul
broken down, sample on
deck.

Hydraulics → air filter issue
works w/o air filter

Key sample

Photolog E Bank

Off boat 1530

2/24/10

At Sheriffs dock 0740

Pm DAR - was today is Jeff Norville

SSS: Justin Siewert

Larry Patterson

SWCA: Matt Strickland

HC: Chris Martin

Tailgate meeting held, led off
by Chris Martin.Carried auxiliary hydraulic motor
after Tuesday's failure. Also changed
air filter, spark plug.

0835 6086 R1 leaves - reject

R2 reject

R3 reject

R4 } composited together

R5

2/24

Call from E. Carroll - HNO₃ coming today
- Sample times for labels
- Agreed to do times, sample 10
on top of jam.Finish 0934. compositing & collecting
activities

6087 R1 gravel - reject

0941

0943 R2 gravel, dings

0946 R3 no sample

0949 R4

R5

R6 didn't close

R7 rock, plastic

G067

R1 moved DIS of adjacent bridge pier
28' deep

R9 plastic / wood debris - photo

R10 immediately adjacent to pier

coarse sand - small gravels, well rounded
fin can; plastic; sewer detritus
reput

G087

R1 10:04 rock - no sample

Call with Kevin Parent

Laura McWilliams 503 862 0000

Eric Roth 503 416 6060

Keith Johnson 503 229 6431

June Sutter 229 6148

2/24

17

R2 rock - reject

R3 rock - reject

~~R4~~~~R5~~ 10:17 collect for composite~~6~~ 5 drum - 3 point - prep for multiple attempt

S 10:49 Rock - reject

6 Setting down, multiple grab open /
close - attempt to drive sampler in
deeper

6 10:58 reject

~~7~~

7 10:56 small amount w/ rock

9 11:08 REP 9

11:40 REP 10

Collected 2 x 32 oz
1 x 32 oz partial
C = 16
L = 4

11:55 Can do J. Sutter → Sutter front
left msg

check target PTH₂; PTH₁; etc.
→ Customized COL per S. Pennington.

Will prioritize within Sutter front

2-
E Shore

depending on feedback from DEQ
Grant @ 12:07

Drop three bowls -
enroute to G109 @ 12:50

Is Derek Pimston? - Truck?
Hatched to beam

2/24 19
G109 R1 gravel ~ 2cm reject
13:06

13:08 R2 brown SILT w/ Hecolent; 5cm
recovery. Reject.

13:10 R7 (log)
P = 12cm
19'

G110 R1 Over penetration by ~ 2cm -
57'0 however, due to station
13:45 depth we decided not to
remove weights for add'l
attempts.

G111 R1 rounded gravels - reject
39.8' 14:16

25
41.2 R2
14:18

G111 R3 gravel - cobble - reject

14:20
41.2'

R4 14:23 gravel / cobble - reject
39.8'

R5 14:28 cobble - reject
39.5'

moved in ~20' area toward shore
all sample attempts were
well-reached 2-4 cm
gravels, very little silt.

to G090 14:32

2/24

G090 R1
14.51 11.1' 42 cm sand

14.52 R2 11.2' grab empty

14.54 R3 11.4' gravel - well rounded
~2 pieces

14.56 R4 - moved 10' out, 10' down
15'

retained - attempt composite

15.02 R5 - out another 5' -
gravel, no sample

R6 nothing in sample

G089 R1
15.81

R2

15.20 R3 composite - well rounded
R = 12 - 14

15.36 R4 No plants - sample walking
out

2/24

G089 R4 cont'd

1536

p = 6 cm, washed material
brown silty siltComposite 3 + 4; collected
3 + 1/2 16 oz jars.Laura Newlin, 503 862 0000
962Trinet2/25²³2/25 On dock 0725 SSS present, floating
discs, grey material
0740 E. in Cassell's
0800 Chris Martin, Matt Steinberg

0830 to 15.1E

0853 on station G 11.3 photo 0F24

0901 R1 reject - wood

0903 R2 wood/organic - reject

0905 R3 wood/plant - washed -
9 cm pen - reject0908 R4 clay clast ~ 5 cm
14'0910 R5 < 2 cm
13.5'

R6 wood - photo of log

0915 R7 8 cm rock - no sample
13.0

G113 R5 brown silty fine sand
12' 09:18 P=11 cm

R9 brown clayey fine sandy SILT
9:37 P=10 cm becomes gray @ 1 cm
clay clasts - 3-5 cm
diameter

Mohammud - msg - Trim Mat contact

~~G114~~ R1 plastic, some gravel -
20.8' 10:18 reject

R2 10:20 rounded gravel, < 10% fines
P=6 cm

R3 10:23 no sample

R4 10:29 stick in grab - some brown /
P=3 cm gray clayed fine sandy SILT
in bottom -
begin composite

2125 20

R5 10:40 reddish-brown sand
19.3' P=13 cm w/ rounded gravel

G115 11:12 cell - L, M, W.
P=4 cm will call w/ 30
18.2' R1 - reject, gravel, (minutes notice
grab did not close)

R2 - reject - 4 cm bubble / wood
grab did not close

R3 - reject 2-4 cm gravel, well-
P=4 cm rounded, < 20% fines

11:17 R4 cobble - reject
20'

R5 cobble - reject

11:20 R6 gravel 80% key - composite
20+ sand 15%
19.9 P=7

R7 gravel 80% key - composite
11:39 P=5 sand 10%
silt < 10%

11:44 R8 gravel, plastic bag
reject

G115 R9 reject - gravel, cobble

1150 R10 reject - cobble, plastic
21'

11:59 - divers working on hydro motor - check cable, broke

G116 12:08 R1 Monitor spike volume
5' $P = 21 \text{ cm}$

1230 @ Portland Bankhouse dock - waiting
on Laura Muhl. 4 hours

1340 G096 R1 - $P = 2 \text{ cm}$
142' Stick, gravel in jaws

G096 R2 gravel - 1.5 cm

G096 R3 angular cobbles, asphalt (?)
to 10 cm - reject (4 in concn)
move 10' to river center

R4

1352

2/25
10% silt 80% gravel
stick held open jaws -
washed out fines - reject

R5

1400

25.2'

cobbles, gravel + silt - began
Composite

(took photo as R3)

R6

26'

1410

reject - cobble

R7

reject - cobble

R8

1416

composite - photo -
gravel + brown - silty sand
1-3 cm
glass, corbicula x2

R9

1428

cobble - reject

R10

1431

composite

6047 R1 gravel - rocky substrate
 18.15 reject
 15.18 R2 gravel - rocks/cobbles -
 15.20 R3 concrete + riprap cobbles
 No sample. No video.

Outfall visible on shore; 15-30"
 riprap bedding on all sides

15.30 mob to Sheratt's dock -

16.00 @ SWCH - email:
 David Ungsworth call 503 720 6041
 W 503 962 2147

EAST PIER LOCATION

Dee Ann Sanders
 call 503 701 5260

2/25

6096 14:31 2x32 2x16 1x400
 6114 10:40 4x16 1x8
 6113 9:37 6x16 1x8
 6116 5:20 6x16 1x8
 6115 11:50 2x16

2/26/2010

Jason Miles - 146

Ryan Berg, ~~Justin~~ Justin
Matt Strickland, Stewart

0830 to 0900

0900, 0909 coordinates appear
swapped in SAP - ?
swapped in coordinates

N 7646340.0759 7102
E

N 7646781.5592 0909

G0 G100 R1

28' elev 0930

34.5' depth

P=22+ (approx 24 cm)

0-1 cm silt, lower Pleistocene -

at fine silt/organic

1-15 cm fine sandy silt, olive
gray; clay rip-up clasts, 1-3 cm
leaf twigs - mineral debris

2/26

down - moderate - 2-4 mm bl-b, some become ribby, iridescent

10:05 turned with Debra, my girl
Dinich → Transit, plenty rip-up
1-1 cm window

May Keith Johnson - lunch
west side, 12:30-1:30 start it
off with their schedule

Downing grab to station 0901

R1 10:16 36' elev (36)

P=25 cm, surface intact - recent
14

0-1 cm light brown / brown fine sand,
silt, brown silt

1-10 cm gray silty medium sand

10-14 cm some brown silt
medium gray sand with
well-sorted gravels 20%

Transect sanding photographs
for shore - beach picture ~ 15 mins
10:45

10:46 G099 R1 gravel 2-5cm -
44.5' reject

- bottom hard - lead line finds rocks
- high current
- low visibility

10:55 R2 gravel, < 10% photos
45' P ~ 5-6cm silt 101, 102

10:59 R3 empty - jaws did not fully
close - reject

11:02 R4 - attempting closed display
P ~ 9cm

11:10 R5 - same material NS/NO
P ~ 9cm

corbicula shell

rounded to subrounded

Gravel 45% moderate staining

~~brown fine sandy silt 30%~~

~~brown medium sand 5%~~

brown silty fine sand 35%

1130 calls to Keith Johnson,
Jennifer Sutter
noon boat trip, woods
ok

Eric Rott Monday 830
971. 227. 1910

Portland Beach House

Call by 4 PM

Rinse blank - 27 samples
500 ml H₂O,
500 ml HCl
500 ml H₂SO₄

9899
12:10

2/26

35

DEQ Keith Johnson
Jennifer Sutter
1230-1330 down

Walt + Jason

1346 ~~6098 R1~~

45' 6098 R1 Tests closed -
no sample
(unplanted)

1348 R2

44.8' R=21 cm Surface intact, ribbed
cracks showing grab pinching
mechanics (photo).

Brown fine sandy SILT 0-1 cm
Gravelly to silty medium SAND
grey with oxidized, spherical
regions 2-5 cm diameter.

Coarser with depth to medium
SAND, no silt

Dep Occasional sticks, leaves, bark
Volume pieces

1435 to 102

1446 R1 p=20cm

25.5' deep

brown fine sandy SILT
fluviatile, organic, 0-1 cm
olive-gray fine sandy SILT
to 20 cm

- occasional clasts 2-
10 cm diam GNESS & clay;
silty clay; during heavy
these were mixed, sunbaked
in with fine sand

1-4 mm sh. cl. blobs, ribboning,
iridescent

2/24 51
G9102 - Rinse, grab

1710 Ryan Bay - Monday 0600

Willamette Park

- Ryan bringing proc. table
- Fit in van

3/1/2010

SFS Ryan Bony
Justin Stewart

HLC Chris Martin

GSI J.H. Nunnally

0750 @ Williamette Park Dock/Ramp

0825 call to Eric Roth - answering C&S

Targets: @ C10Z
COCA - difficult

as him: C&S (Hawthorne Bridge, W)

0940 on station, can't locate, starting
hydrolysis

Setup decan station

1235 break-drop off Perma matrix represent

1300 to C&S

1335 can tube installed - collecting
C&S

C112 R3

1625 to dock - Williamette Park

3/2/2010 Ryan Barry
Justin Stewart
Chris Martin
Tiff Norville

0800 onboard R/V Vibrader, enroute to C087
- safety talk (led by C087)
- no variations requested

C086

C087

C089

C090

12

15:05 mob back to dock

Nichy Moody
503 969 6310

SE 11th & 12th
N side of Carruthers

G100 lat 45.496097
long -122.667572

C100 45.504389
-122.668354

3/25

43

	LAT	LONG
G091	45.516744	-122.671697

G092	45.515825	-122.672195
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G093	45.514802	-122.672683
B10		

G094	45.513939	-122.672952
D10		

G094 rinse w/ d butyl
discrin / furans

EAC included at 32004

G092

10:50 discrin in water

G091 13:52 on station -
move toward shore, 35' deep

14:04 down in water

to 70 cm penetration

Flatter area, fewer rip-rap pieces -
less deposition.

cell phone; bottle;

Reaching deeper

12-~~15~~ cm becomes v. hard
to penetrate - deepest: _____

[2 cm - 8 cm mostly]
cray fish x1 (bottles - cultured
resource guy has them)

1445 off G091 - heading to G092

(new coordinates)

boulders, / concrete - otherwise flat

- birch; plastic spoon

- cray fish x1

4-5" penetration

4' down, burnt 4' offshore at target

1515 diver off bottom

G094 17:00 rinse blank on bowl from

G094

Amber 1 L x 4 NT

9 bottles

Amber 500 mL x 1 HCl

Poly car 1 L x 1 NT

Poly 500 mL x 1 NaOH / Zn

" 500 mL x 1 H_2SO_4

" " " HNO_3