

BOAT
8/24 - 9/1/04

"Rite in the Rain"
ALL-WEATHER WRITING PAPER



HORIZONTAL LINE

All-Weather Notebook
No. 391

<i>Rhone Poulenc HWD-189A</i>
<i>SB 01-13</i>
<i>Sediment</i>
<i>Minipiezometer</i>

4 5/8" x 7" - 48 Numbered Pages

KEVÉ FUENTES
 SEDIMENT SAMPLING SLIP 6
 SAMPLES TAKEN BY EPA

SHORE TREAT

SAMPLERS IN SHOWER CRAFT
 STEVEN BRAKAR
 KEVÉ FUENTES

BOB THOMPSON BOAT OPERATOR
 BOB DRAKE
 SAMPLES FOR JOHN LONG - GEOMARK 8-24-04

Sample #	Location	Time	core #s
FAA-0435430	SB-03		
SB-03		1:25 pm	
	15 cm For each core		4
	6 plastics		2377
	- organics, IT - Black		
	Compositing of upper	1:40 pm	
EPA 04354306	SB-03 upper metals		
SB-03	SB-03 upper Hg		
	Tow's sample		
EPA 04354307	composit @ 1:45 pm		organic silt
SB03 Lower	Lower		metals
SB-03 Lower	See Page 4		Hg

24 AUGUST 2004

- 1 picture taken by René
- 2 Sample Jars
- 3 picture into Slip 6 Facing N. East
- 4 John in car
- 5 picture of Tubes from notes by Slip SB-03

6. Core pictures out of SB-4
- 7 pictures core Station 4
- 8 pictures of shore

11:45 pm

- 19 core sample 11 picture.
- 20 picture of SB-01 metal cans w/ Seals.
- 21 picture of tubefore plastic Station 16.

Shore grey From ALS on red box side

22
23
24

- 1:55 p 8-24-04 SB-04 up
- 2 plastic tubes
 - 1 metal tube.

Notes by Steven S. Potho In Blue ink

Notes by Steven S. Potho in Blue ink

SB-04 17cm 17cm core #4
 Black silt same brown grey
 w/ orange worms
 2:25p

EPA 04354309 SB-04 lower metal 2:25
 " SB-04 lower Hg 2:25
 " SB-04 coarse 2:30p
 EPA 04354308 SB-04 upper metals 2:30
 " SB-04 upper Hg 2:30

SB-04 upper TOC 2:30
 EPA 04354308 SB-04 upper SVOC 3:10p
 " SB-04 upper PCB 3:10p
 John's Sample

EPA 04354309 ~~SB-04 lower~~ PCB 3:15
 Black silt SB-04 lower SVOC 3:15
 brownish SB-04 lower TOC 3:15
 John's Sample SB-04 lower PCB 3:15

4 Samples - Compositd @ 1:45p 1:45p
 EPA 043454307 SB-03 Lower Hg
 " SB-03 lower metals
 " SB-03 lower (MS) Hg
 " SB-03 lower (MS) metals
 " SB-03 lower (MS) Hg
 " SB-03 lower (MSD) metals
 John's Sample SB-03 1:50p

Metal Tubes. 20 cm 2# Tube 1.52 Hg
 SB-03 SB-03 upper 1.52 PCB Reduc
 EPA 04354306 SB-03 1.52 TOC Reduc
 SB-03 1.52 SVOC Reduc

2:05 Lower organics composite
 EPA 04354307 SB-03 lower PCB 2:05 Half
 SB-03 lower SVOC 2:05 Half
 SB-03 lower TOC 2:05 Barely Filled
 SB-03 MS Lower SVOC on
 SB-03 MS Lower PCB on
 SB-03 MS Lower PCB Half
 2:10 returned SB-03 MSD Lower SVOC Half
 SB-03 Lower Grain Size

Core #8 Station 4

5 SB-05 Composite 3:30p 8/2/04

Plastic Tubes 2 25 cm
2 18 cm

EPA 04354310 upper metals
EPA 04354310 upper SB-05 upper metals 3:35p
SB-05 upper Hg 3:35p
Johns Sample SB-05 upper 3:35

EPA 04354311 SB-05 Lower Metals 3:40
Hg 3:40
Lower Organics 3:40
Johns - SB-05 Lower 3:40

20 can Both Tubes Composite 3:45p
EPA 04354311 SB-05 Lower TOC 3:50
VOC 3:50
PCB 3:50
EPA 04354310 SB-05 upper 3:55 pm
brain

400p. 19 can 20 can on plastic cores
EPA 04354313 SB-05 Lower metals 4:05
Hg. 4:05
Composite 4:10

SB-06 4/12 Composite

SB-06 upper Hg 4:12p
EPA 04354312 SB-06 upper Hg 4:12p
metals 4:12p
Johns Sample 4:12p

Composite @ 4:20 Tubes 1 + 2
EPA 04354313 SB-06 Lower TOC 4:23
SB-06 SWC 4:23
SB-06 PCB 4:23
Johns Sample 4:23p



Notes by ~~Steve~~ Steve 12:55p 0/25/08
SB-12 3 plastic cores Fall of Sediment
upper color start-lowerish down to 2.7 cm
7cm Black

EPA 04354324 SB-upper Hg 1:00p
metals 1:00p
John's Sample "

cores Composited 1:00pm
EPA 04354325 SB-12-lower Hg 1:05p
metals 1:05p

John's Sample

SB-12
metal cores 2) 2.7cm Silty Black core
EPA 04354325 SB-12-lower TOC 1:30p
PCB 1:30p
SUC 1:30p
Grain 1:30p

EPA 04354324 SB-12-upper Hg 1:25p
metals 1:25p
SUC 1:25p

Core Composited, 1:24p

8 0/25/04 Arrival on site. John Polanco
Notes by Steve 9:15
Steve 9:15

SB-11 Core Sample @ 11:45-11:00 2 Full cores
metals
EPA 04354322 SB-11 Silty Black
Black

upper Corewoks
EPA 04354323 SB-11 Lower TOC 12:05p
SB-11 Lower PCB 11
11 11 SUC 11
71 11 Grain size

SB-11 Plastic cores
Core 2 Top 4cm Brown Rot 22cm Black
Core 1 Full core black
Core 3 Top 4cm Brown Rot Black

upper core Composited @ 12:14
EPA 04354322 SB-11 upper metals 12:15p
Hg 12:15p
John's Sample 12:15p

EPA 04354323 SB-11 Lower metals 12:20
Hg 12:20
John's Sample 12:20

Notes by Steve after 8/26/04

SB-01 All Black #

Plastic Cores 3 of Them 1-25cm Fall
3cm Green on top 2 27cm
Composited @ 2:44

EPA 04354300 SB-1 upper Hyg 2:45p
metals

John's Sample
SB-1 Lower Plastic & Tube ST/F Comp. Hyg
Composited @ 2:48

EPA 04354301 SB-01 Lower Hyg 2:50
Metal 2:50

John's Sample
SB-01 metal Tubes 3 metal cores

All Black top to bottom very fine S&S
2nd core + 10cm worm.

SB-02 + SB-15
Dark Top 3cm Greenish to Black For Rest 24cm

Composited upper @ 1:54

EPA 04354302 SB-02 upper metal 1:55p
Hyg 1:55p

EPA 04354304 SB-15 upper metal 1:55p
Hyg 1:55p

John's Sample
Cores Lower 1-4 composited @ 2:05

EPA 04354303 SB-02 Lower metals 2:10
Hyg 2:10

SB-15 Lower metal 2:10
SB-15 Lower Hyg 2:10
SB-02 Lower Grain 2:10
SB-15 Grain 2:10

SB-02 + SB-15 Metal Cores 4
Dark Greenish Hyg

3 Full Cores Color Greenish Hyg
Lower 1 core 24cm. Top 4cm Rest.

Composited @ 2:17 No worms present
Dark And Black

EPA 04354303 SB-02 lower svol. 2:20p
PCB 2:20

1:06 2:20p

14 SB-13 Composited @ 5:23 @ 2504 Starke

Plastic Cores - 3 Cores Full
All upper 10cm Brown to Black
CA 0435 4326 SB-13 upper part 5:25p
metal 5:25p
Toha's Sample 5:25p

Lower part of Plastic Composited 5:27
SB-13
CA 0435 4327 SB-13-Lower Half 5:30p
metal 5:30p
Grain

Toha's Sample.

metal cores. ^{Front} 6cm layer 6-7cm thick
2 cores. #1 = Black 10cm then
Brown Floor Bottom
#2 = Fall 2.6cm more gritty
2.5cm worms.
CA 0435 4327 SB-13 lower part 5:40p
Fall 11 Fall 5:40p
11 11 5:40p

8/26/04 notes by Steve Petts

EPA 04354317 Lower Portion
Composited @ 11:43

EPA 04354317 11:45A

EPA 04354317 SB-08 Lower Portion 11:45
|| || PCB ||
|| || GWC ||

SB-07 Samplers ST. 11 LM RP

Plastic Cores
#1 20 cm 12^{cm} upper brownish worms @ 10cm
#2 21 cm 12^{cm} upper brownish 5 worms
#3 18 cm 8cm upper greenish total for all cores
upper plastic composited @ 12:00 P

EPA 04354314 SB-07 upper Hyg 12:10A
|| || metal

John's Sample

See page 14 For lower
plastic tube samples

notes by Steve Petts

Site arrival: 9:50 AM Divers in 10:42A
Lisa Mackie and Rob Pederson Samplers.
Blotchie Sed. mts are box

SB-08 PLASTIC Cores

Core 1 24 cm heavy black and large upper soft
upper 10 cm and mts
Core 2 18 cm upper 6 cm
Core 3 20 cm upper 6 cm

Composited (upper) @ 11:23

Sample # Location Time
EPA 04354316 SB-08 lower Hyg 11:25A
|| || metals 11:25A

John's Sample

EPA 04354316 SB-08 Lower Hyg 11:30
|| || metals 11:30A
John's || || 'Grain 11:30A
John's sample 11:30A

Metal Cores

#1 Full core upper 8cm loose sediments
#2 Full core upper 9cm loose sediments worms

Composited @ 11:30A
EPA 04354316 SB-08 upper sum 11:40A
|| || Tol ||
|| || PCB ||

ROVÉ TRIURES 30 AUG 2007
 BLUESHARK, BLUE FISH, FISHBONE,
 SLIP 6 SURFACE PLANKTON

FRONT TUBE SET AT BOTTOM

HYDROLAB SWWT 2 (N. 36522)

TEMP 18.9°C

EC 44 175/cm

PH 6.95

REDON 281

SAC 28.5 ppt

TUEB. < 30 MOVES

TRIED TO PUMP FROM TWO DIFFERENT
 MINIPREZOMETERS IN STALLED
 BY DIVERS. NO SUCCESS. TRIED
 TO DEVELOP BUT STILL DID NOT
 WORK. ATTEMPTED TO RETRIEVE
 FROM BOAT BUT BROKE LINE
 AND HAD TO SEND DIVERS IN.

RJT

1 SEPTEMBER 2007

DIVE BOAT WITH DAVE TERRELLING,
 BRUCE DUNCAN, SEAN SWEENEY,
 MARGO TUFTS, TIM SWIREC

GOAL IS TO SET BAGS ON
 SEEPAGE METERS WHICH WERE
 SET AUGUST 31 TO ALLOW ENTRAPPED
 WATER TO FLUSH OUT.

PLANNED BAGS ARE:

BAGS 10 # 6 STATION SB-08

BAGS 7 # 4 STATION SB-18*

BAGS 8 # 5 STATION SB-07

BAGS 3 # 2 STATION SB-03/17

NOTE - SB-18 IS LOCATED HALF-WAY
 BETWEEN SB-08 AND SB-07.

PH 7.16

10:35 AM

COND 27.5 NS/cm

TURB 69

8.4 ft. Depth

DO 8.69

TEMP 17.9°C

SAL 1.770

MARGO

Field Parameters 1 ft. below
surface

PH 7.16
COND 10.0 MS/CM 10:40 AM
TURB 12 (fluctuating)
DO 6.6
TEMP 18.7°C
SAL 0.56‰

10:55 AM
Sampling Bottom Water
from Piezometer tubing
attached to outside of
Seepage Meter SB-08
used a bottle to make
flow through cell for
field parameters
Too much air bubbling in

PH 7.60
COND 43.0 MS/CM
TURB 31-48
DO 5.35
TEMP 21.8°C
SAL 2.76‰

RENE FUENTES 1 SEPTEMBER 2004

CHANGE PIPES TO AVOID
SUBSIDIARY FLOW THROUGH CELL
AT BOTTOM WATER INTAKE.

PH 7.51 ABOUT 11:54 AM
COND 45.0 MS/CM (ABOUT 15 FT
TURB. 10-14 ~~OFF~~ DEEP)
DO 4.42
TEMP 15.8°C
SAL 2.90‰

SAMPLING ABOUT 1 FT BELOW SURFACE.

PH 7.41 11:34 AM
COND 5.47
TURB 13
DO 6.90
TEMP 19.4°C
SAL 0.28‰

MARGOTUBES

Across from Pier 5 12:45 PM
PH 7.14 SB-6
COND 7.32 MS/CM
TURB 139

DO 9.0 - fake DO - from pumping
TEMP 20.1°C
SAL 0.34‰

N47 31.169
W122 18.187
± 8 ft.

Margo Tufts 1:33 PM
SB-7 05

Field Parameters
shore
between Piers
U 25

pH 6.55
COND 8.23 MS/CM

TURB 161

DO 7.85 8.84 FAKE-aerated by
pumping

TEMP 20°C

SAL .4570

Bearing

Bearing B3 mt

Bearing B35° Bearing from SB-6

Range 80 ft.

Level features

TOOK SAMPLES OF SEEPS USING
THE SAMPLERS. USED SB-6
AND SB7 BOTTLES FOR METALS
ORIGINALLY PLANNED FOR
SUBSURFACE SAMPLES (MUNCH
COVERED NOT BE OBTAINED
DUE TO TOOLS COLLING WITH
PLASTIC SEDIMENTS.

1 SEP. 2004
RETRIEVE 6 BAGS AT 2:48 PM
BAG 8 STATION 7
BAG 5 STATION 7 @ 2:52 PM

BAG 5 HAS ABOUT 150 ML
BAG 8 HAS ABOUT 30 ML
COMBINED BOTH SAMPLES
FOR METALS SAMPLE SB-07

TIME 2:59 PM DISCONNECT
BAGS 7 AND 4 FOR STATION
SB-18.

ONE BAG #4 VERY DARK WATER
TOOK PHOTO OF BOTH BAGS FOR
COMPARISON (SB-18A)
ABOUT 250 ML OF DARK
TURBID WATER (SB-18A)
CLEAR (BAG 7) (SB-18B) SAMPLE
ABOUT 250 ML.

TIME 3:12 PM DISCONNECT
BAGS FROM SB-8 BAGS 10 & 6.

COMBINED TWO BAGS. TWO PHOT
ABOUT 400 ML COMPOSITE VOLUME
PRETTY CLEAR WATER. SAMPLE SB-08.

1 Boat 2004 Lake Fuentes

Boats # 2 & #3 at station
SB-03/17 had a trace
amount of water (about 10ml)
and water was not kept for
analysis.

Removed transect line
and seepage meters at
400 PM

Took 3 split deep samples
SB-5 & SB-6 for
short long

FINISHED FIELD
WORK

RFB