Agreement Log #: KIF-10-008

Time-Critical Concurrence

Area:

Emory River, Segment "Above Segment 5", Dredge Areas B-112, B-114 to B-118

Agreement:

Eliminate planned dredging of dredge grid areas B-112, B-114 to B-118.

Based on aerial maps and shoreline reconnaissance, the ash deposition targeted for removal in B-112 and B-114 through B118 was suspected to be native sediments rather than ash as indicated by comparing Pre-Spill and Post-Spill Bathymetry. A shoreline sediment inspection was conducted followed by the completion of 7 vibracore samples. The vibracore samples were spaced to take a sample within each grid.

The resulting data indicates that the native sediments extend further into the channel than the bathymetry predicted and that there is no recoverable ash in these grids.

Attachments:
Figure 1, Vibracore Concurrence Sampling Results with Aerial Photo Details
Figure 2, Vibracore Concurrence Sampling Results with Eliminated Grids
Vibecore Sampling Logs and Photos

Concurrence Comments:

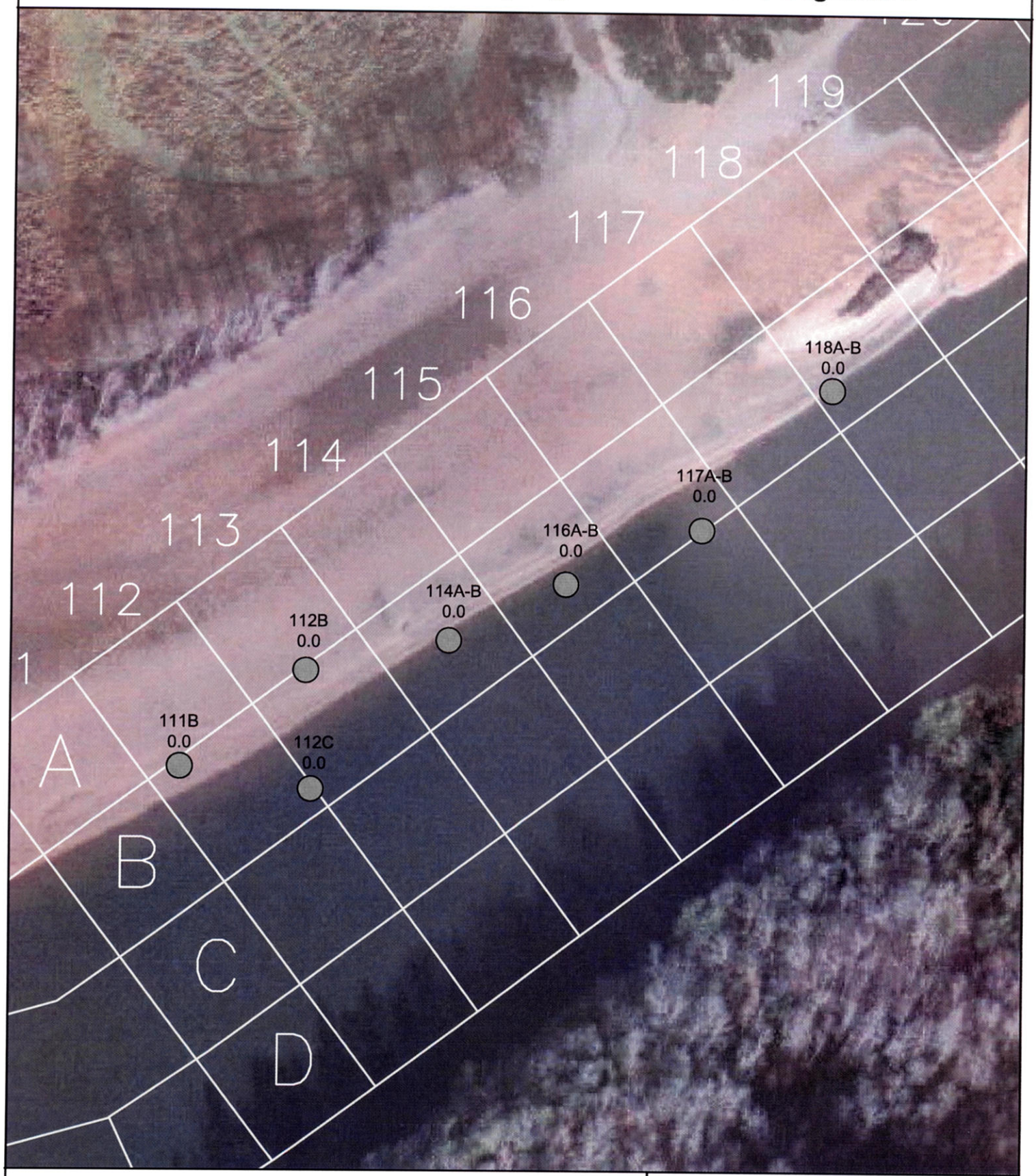
Julie L Phillips
Jacobs Project Manager — 4/7/10 Date

Kathryn Nash
Tennessee Valley Authority — 4/7/10 Date

U. S. Environmental Protection Agency — 4/8/10 Date

Geoff Gilliam TDEC — 4-14-10

VibeCore Concurrence Sampling Results - Above Segment 5



Ash Recovered

No Ash Recovered

0 65 130 260

SCALE IN FEET

Label Format:

Core Number
Ash Thickness (ft)

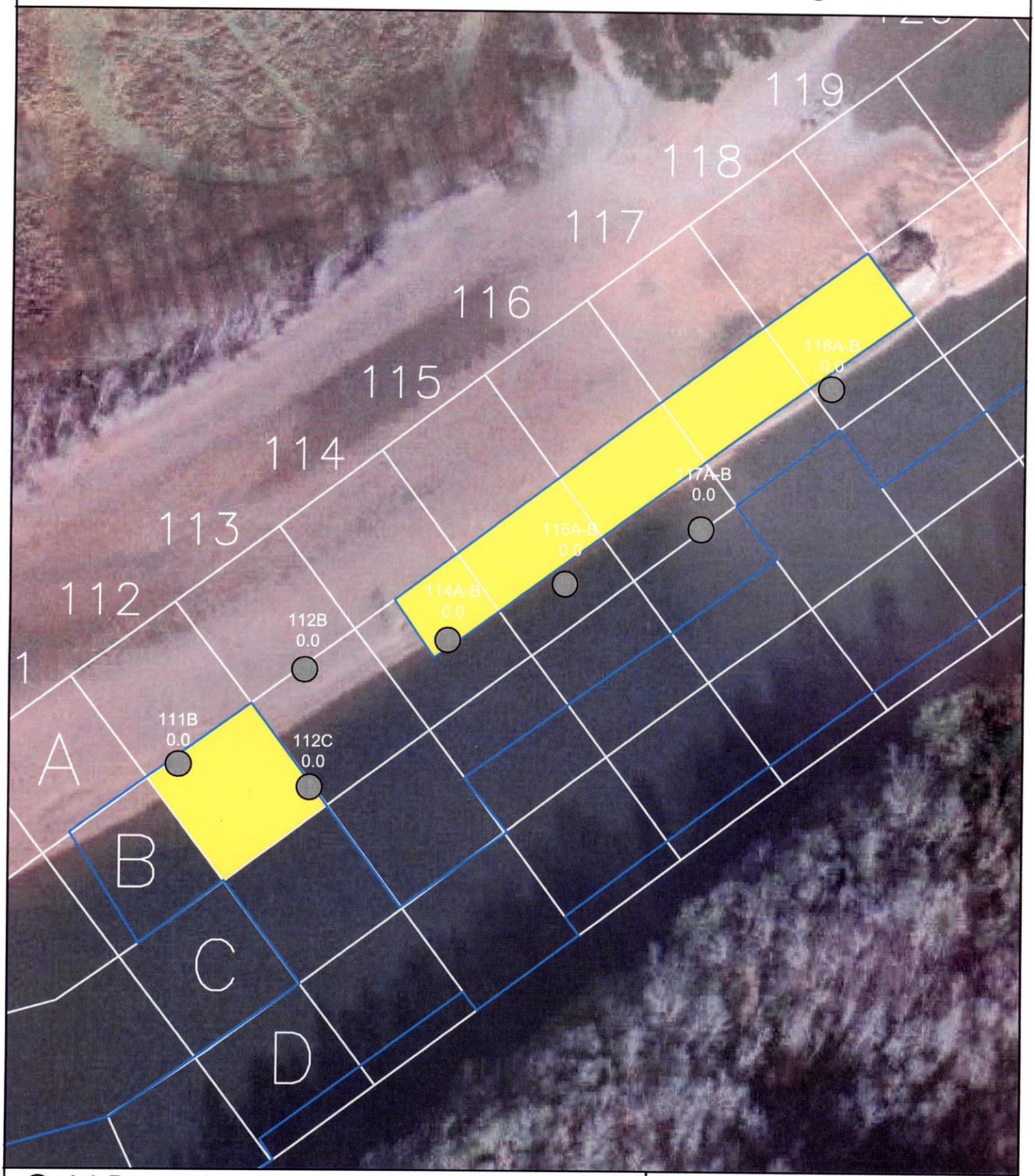
N

JACOBS™

04/01/10

Figure 1

VibeCore Concurrence Sampling Results - Above Segment 5



Ash Recovered
No Ash Recovered
Removed From Plan
Phase 2 Dredging Path

VibeCore Label Format:
Core Number
Ash Thickness (ft)

0 65 130 260
SCALE IN FEET

N

JACOBS™

04/05/10

Figure 2

TVA JACOBS

Vibecore Documentation

Date: 04/01/2010 Weather: Sunny. Highs around 80. Light winds, SW < 10 mph in the afternoon. Location: Above Segment 5
River Flow: 1860 cfs River Elevation: 738.1'
Crew: David Mathis, Eddie Arnold, Steve Bunkley

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
118A-B	R0010434	6' Acrylic	N: 560132.3' E: 2448313.2'	15.'	8:55

Deviations encountered:

Core Description	Interval (ft)
Coarse and medium grained brown sands, with some native fines. Organic mat at refusal.	0-0.7
Total Depth	.7'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
117A-B	R0010435	6' Acrylic	N: 559993.73' E: 2448186.95'	24.8'	9:17

Deviations encountered:

Core Description	Interval (ft)
Light brown medium and coarse grained sand.	0-0.8
Brown medium and fine grained sand with native fines.	0.8-3.9
Total Depth	3.9'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
116A-B	R0010436	6' Acrylic	N: 559939.16' E: 2448053.03'	14.7'	9:34

Deviations encountered:

Core Description	Interval (ft)
Mixed sands, light brown with many coal pieces.	0-1.4
This portion of the core fell out of the tube upon retreival. No description.	1.4-2.2
Total Depth	2.2

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
114A-B	R0010437	6' Acrylic	N: 559883.27' E: 2447937.66'	7.7'	10:16

Deviations encountered:

Core Description	Interval (ft)
Brown medium and coarse grained sand.	0-1.0
Orange sandy clay.	1.0-3.6
Total Depth	3.6'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
112B	R0010438	6' Acrylic	N: 559852.53' E: 2447797.53'	0.8'	10:39

Deviations encountered:

Core Description	Interval (ft)
Light brown medium and coarse grained sand.	0-0.7
Brown fine grained sand mixed with brown native fines.	0.7-4.6
Brown silt and clay.	4.6-5.2
Total Depth	5.2'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
112C	R0010439	6' Acrylic	N: 559736.29' E: 2447802.96'	20.3'	11:02

Deviations encountered:

Core Description	Interval (ft)
Light brown medium and coarse grained sand.	0-0.3
Medium and fine grained sand, brown, mixed with brown native fines.	0.3-5.6
Total Depth	5.6'

Core #	Photo #	Tube Type	Core Coordinates	River Depth	Time
111B	R0010440	6' Acrylic	N: 559758.28' E: 2447675.48'	1.5'	11:23

Deviations encountered:

Core Description	Interval (ft)
Brown medium grained sand.	0-0.7
Medium and fine grained sand with native fines and clay. Orange/brown.	0.7-4.9
Total Depth	4.9'

040110
WATER
DEPTH
15.0'
CORE
LENGTH
0.7'
Core
Name
118A-B
APR. 1 2010

R0010434

040110
WATER
DEPTH
24.8'
CORE
LENGTH
3.9'
Core
Name
117A-B
APR 1 2010

R0010435

R0010436

040110
WATER
DEPTH
14.7'
CORE
LENGTH
2.2'
Core
Name
116A-B
APR 1 2010

R0010437

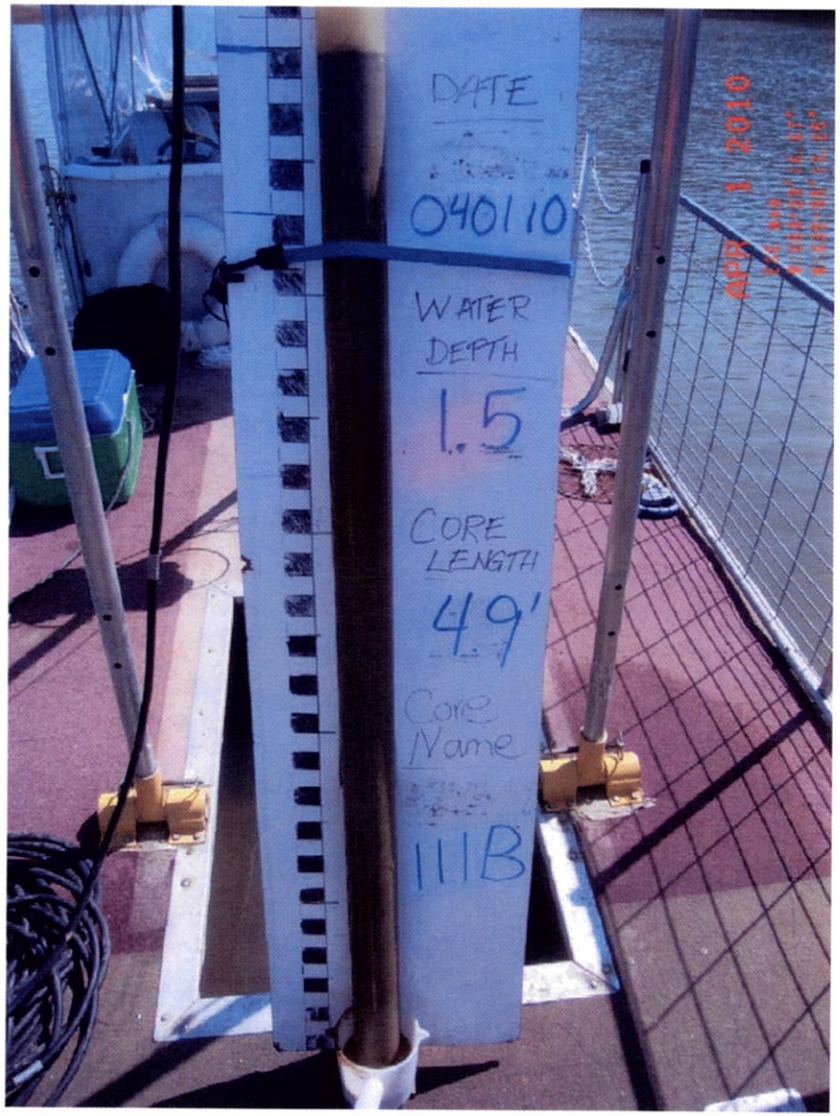
R0010438

DATE
040110
WATER DEPTH
0.8'
CORE LENGTH
5.2'
Core Name
112B
APR 1 2010

R0010439

APR 1 2010
040110
WATER
DEPTH
20.3'
CORE
LENGTH
5.6'
Core
Name
112C

R0010440


DATE
040110
WATER
DEPTH
1.5
CORE
LENGTH
4.9'
Core
Name
111B
APR 1 2010