APPENDIX A

Field Notes

DATE: 20 April 96 TIME: 1215 [INNER HARBOR NAVIGATION CANAL JOB]

SITE: #10 GPS READING: 29°57'41.7"N 90°1'38.7"W ± 40' Accuracy (WP1)

No Deep borings will be taken – no excavation will occur on this side. New Orleans district did not have utility information. They sent out Tim Flaherty and two drill operators. They arrived at IHNC Lock around 730-800. Sites were located. Coordinated w/ Coast Guard. Lockmaster not in, at mtg in Baton Rouge. Coast Guard installation manager said they would assist to locating electrical lines. Also called Port of New Orleans. Tony Lapinara who said he would try to find utility drawings.

→ Site #10 Deleted DB1-8 added 3+4 shallow sample.

IHNC-S10-1 Taken @ 1245 @ 2' depth no HNU reading @ 0-20 range from 0'-2' depth. Samples were analyzed at every full auger. VOA, BNA, etc, & ASBESTOS taken

IHNC-S10-2 Taken @ 1310 @ 6' depth NO HNU reading from 2'-6'. VOA, BNA etc taken.

Tim arrived on site ~ 1245 while taking first sample (and that is all massistance!) (Constantly writing notes) He called Dell Britch and utilities are supposed to be cleared by 1600 today. The drill crew did not show up with any equipment + had to go back and get stuff. Dell Britch was notified 1330 on 20 April. Tim has some utility drawings - but no shoring.

- This site is on the canal called Dide. The toe should be left
- untouched when levee is built up.
- Hand auger was scrubbed w/ soapy water + Diwater + Methanol. Rinsate
- will be contained in 5 gallon bowel til can be put into
- drum for storage (if Methanol combined with water mixture)
- The decanning is conducted on tailgate + contained in stainless
- steel pan. Methanol equipment left to air dry. No mixtures
- w/ water.

JEB

21

D: 30 Apr 96 T: 1350

SITE # 10(3/4) GPS: 47' from #1/2 29° 57' 42.10" N ± 40'
90° 01' 38.36 W WP#2

TOOK S10-3 @ ~ 1400 @ 2'

HNU reading is still 0 (acutually .1 but that is the background calibration for 0-20 range) HNU shows no change.

No QA/QC taken - No rinsate taken. VOA + BNA etc collected at S10-3. This site looks like it had been rebuilt for some reson. This site is not to be excavated.

TOOK S10-4 @ 1415 @ 6'

HNU reading from 2'-6' still 0. Did find coal deposit in sample. This could be the source of soil gas readings.

This site and the first on was marked with yellow paint on nearby riprap. [Tim picked up + analyed coal deposit without gloves] Auger was cleaned & deconed after sampling. The decon was Alconox water, DI water + methanol spray.

Samplers: Beth Brown, Rich Hagan, Todd Settles with Tim Flaherty observing. All samplers wore gloves (rubber) + safety boots. No other protection was needed. Only sampler was a hand auger. Tim was told by Rich that while we were augering the drill crew should be deconing + filling water for tommorow he said he would tell them.

Site 10(1/2) measured from center line of Burgundy with levee to first boring 36' Samples were collected, HNU reading is still zero.

Site 10(3/4) - 83' GPS reading taken and recorded for both sites.

All gloves + baggies put in trash bag for proper disposal. all sample containers sealed up in bubble wrap. Soap DI water rinsate poured on site. No methanol in water ∴ Not contaminating site.

JGB

D: 20 April 96 T: 1510

SITE # 1HNC-59-5 (0-6' site)

GPS: 29°57'37.42" N 90°01'47.33" W ±50 WP#3

Samplers: Beth Brown, Rich Hagan, Todd Gentles.

Sampling equip: hand auger, (in safety boots + wearing rubber gloves) Decon equipment, hammer, spoons, baggies + HNU.

[HNU @ 0-20 range is reading 0.1]

At 1520 the soil started smell of fuel and @ 2' Change in material + slimy/organic. HNU reading 0-200 range peaked at 2

Ambient in hole 6" down on 0-20 range, HNU peaked @ 16 ppm.

Sample collected from next auger dig. VOA + BNA, etc taken.

Sample taken had a reading of 12 ppm after setting sealed for a few minutes. Both samples were tighted and soaked in bubble wrap.

JEB Next baggie sampled had a reading of 40.

@ 3.5' to 4' had a reading of 10 ppm on the HNU 0-20 range.

4.5' 7.5 ppm

5.0' 3 ppm

5.5 2 ppm

Took VOA @ 6' combined with soil from 5.5' and 6.5' in order to get enough sample for sampling BNA, etc. VOA sample was taken first at 6'.

Safety: All samplers had read and are familiar with SSHP. Sampling conducted today did not have the potential to be hazardous to the samplers. Frances E Bu

NOT USED

JEB

41

SEB
1 MAY 96 – Arrive at lock @ 0655 NO NOO people.
SAFETY MEETING Roster → 0730 am when NOO people showed up at Lock
- Beth Brown
Richard 'Buck' Hagan
Bryan A. Stewart
Cal. [illegible]
Tim Flaherty P.G. - NOO
[illegible]

Things discussed:
Level D - safety boots + hard hats
Drilling safety
Biological hazards - snakes
Chemical hazards - using gas monitor + HNU
Physical hazard - tripping/slipping (on ~~[illegible]~~ surface)
Where the medical facility, who is qualified in CPR (Both)
Coast Guard also has medical facility
Overhead utilities + underground utilities safety.
General comments were made about drilling safety.

SEB D: ~~30 Apr 96~~ 1 MAY 96 SEB T: 810 Samplers: Beth Brown Rich Hagan
SITE # 9 GPS: Coordinating personnel: Todd Gentles + Tim Flaherty.
1HNC-59-1/2
HNU calibration → 101 ppm (Conducted by Todd Gentles @ 815)
@ 0.5 → 1' HNU = 0 ppm
@ 1' → HNU = 0 ppm
2'-4' → HNU = 0 ppm Sample was collected @ 825 @ 2-2.5 VOA, BNA etc, Asbestos.
@ 4'-4.5" → HNU = 12 ppm
4.5 → HNU = peaked at 4 ppm without breaking up sample
Due to high reading 9-2 was collected @ 835 @ 4.5 to 5.0'
VOA + BNA, etc were collected. SEB

JEB
D: ~~30 April 96~~ 1 MAY 96 T = 840 SITE: 59-1/2 GPS

@ 5.0' sample HNU peak of 9ppm (sample was broken up)

@ 6.0' " HNU = 2ppm w/o breaking up sample

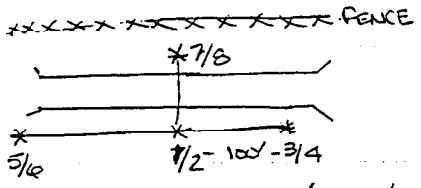
Took 3rd sample at 6' (1NHC-59-2-1) sampled for VOA + BNAetc (845)

NOTE: SAMPLE No. WAS SWITCHED 1/2 is 7/8 (SITE NO. ACCORDING TO SAP) #1/2 WAS sampled closer to the levee.

From last pt. 59-5/6 DISTANCE = 82'

T = 905 SITE: 59-7/8 D: ~~30 April 96~~ 1 MAY 96 JEB GPS

Distance from 1/2 = 37' AND 6' off of Fence.



Still no drill crew, Tim told Buck that they were our responsibility not his. Buck went to get drill crew + Tim helped hand auger site 7/8 (920)

HNU Reading from 0-5' = 0 Sample was taken @ 2' with HNU = 0 took VOA + BNAetc samples. At 3.5' hit water table. HNU - 0 Took 2nd (935) Sample at 5'-6' HNU Reading = 0 collected VOA + BNA Samples. Again location 1/2 and 7/8 were switched. The auger hole had to be dug twice @ 1.5' ran into a layer that was unperbeable and hole refuge adjacent to site ~ about 4-6" away.

SITE: 59-DB SETUP @ 1010 GPS

Collected Rinsate samples before started to drill → drilling equipment is rusting - main concern is metal contamination. Sample # 1HNC - R - 1 Rinsate 5 bottles (BNA, TPH, Metals + 2-VOA)

FIRST → 1110 Oxygen = 21.30

0-2' Recovery 1.7' HNU = 0 T: 1120

2'-4' " HNU = 0 T: 1130

4'-6' " HNU = 0 T: 1245 Sample #1 taken at this site @ 1250 the sample is for VOA + BNA, etc. JEB

LB

Date: ~~3~~ 1 MAY 96 SITE = 59DB

0'-8' HNU = 0

8'-10 HNU = 0 T: 1320 Sample taken (59DB-2) sampled for VOA, BNA, etc.

Rich is collecting geotech data and filling out boring logs. Have 2 drillers do drilling and assisting with decon. Tim is primarily conducting decon. No rinsate will need to be drummed, ~~the~~ methanol is being allowed to air dry. Remaining rinsate only has materials organic to area & in water.

10'-12' sample HNU = 0 @ T: 1335 Hit water table.

12'-14' sample HNU = 0 @ 1400 Added DI water

14'-15' took sample (59DB-3) HNU reading = 0 @ 1430

New HNU (#2) has a background of 0.4 ppm

Hit bedrock stopped drilling and started on adjacent hole down to 18'. Collected rinsate sample #2 from water being used for ~~the~~ drilling. Probably metal contamination. Collected 2 VOA's, BNA, TPH, Metals. @ 1500. Samples perserved and iced.

16'-18' HNU = 2.0 ppm collected sample in baggie to compare with 18'-20' sample. Will take the highes HNU reading between the two samples. Screened sample at 1525.

1555 HNU = 9 ppm (0-20 scale) for 18'-20' collected sample 59DB-4. Stopped drilling @ 1600 due to the time. The water being generated for drilling will be deposited on the ground. We know the composition of the water and the soil from drilling. Tim showed some concern about this. Overall the drilling setup being used does not meet our needs this volume of water can't be generated on the other sites due to disposal prob. SD seems reluctant in getting a hollow shaft auger (this would eliminate need for H2O in drilling). Tim said that he is not here to manage drill crew only observe. Clearance of utilities still on known. Drilling is slow w/ only one sampler. LB

DATE: JEB 1 MAY 96 T: 1400

SITE: IHNC-59-3/4 GPS=

Took sample @ 3' HNU = 0 collected VOA, BNA etc. (1415)

@ 4' → HNU = ~~8~~ JEB 5 ppm

4.5' → HNU = 3.3 ppm Water Table = 2'

5.2' → " = 3 ppm

5.7' → " = 2 ppm

6.4' → " = 10 ppm collected second sample. (1445)

Collected VOA and BNA, etc samples. Samples ~~A~~ JEB were collected in baggies, sealed and screened JEB 20 minutes later. Samples were not broken up until they were screened. This site is 100' from site 7/8. HNU on 0-20 range w/ background = 0.4

SITE: IHNC-S8-1/2 GPS=

watertable = .3' HNU = 0-20 range

Samples collected for S8-1 from 1520 → 1540 located downgradient from 59-3/4 S8-1/2 is 150' from 3/4.

0.0-0.7' = 15 ppm 0-20 range

0.7'-1.8 = 10 ppm 0-20 range

1.8-3.0' = 4 ppm on 0-200 range collected (1545) S8-1 for Asbestos, VOA BNA, etc.

3'-3.5' = 3 ppm " " "

3.5'-4 = 4 ppm " " "

4-4.5 = 5 ppm " " "

4.5-5.0' = 1 ppm " " "

~~4.5-4.8~~ 5-5.5 JEB = 0 ppm " " " collected S8-2 @ 1615

5.5-5.7 = 2.5 " " "

5.7-6.0 = 2 ppm " " "

At each auger depth the auger sample was collected, in baggies and then later screened with HNU. Bill Cesar and Tim left at 1640. Buck, Todd & I finish deconing hand auger and left site at 1655. Have another cooler full and ready to be shipped.

JEB

8/

DEB

D: ~~[illegible]~~ 1MAY96

T: 0600 @ Hotel

BOTH HNU calibrated @ 61 ppm. Talked w/ Ted about status of the project. Discussed stopping drilling after completion of site S9DB, due to lack of proper drilling equipment and lack of NOD support to get the proper equipment. Will go ahead with hand augering and see if drill crew will assist in this work. Status of drilling still needs to be decided. One consideration is to do hand augering - maybe go deeper than 6', analyse this data then come back with own (probably rented) drill rig (that is properly set up) and do 40' at that time. Still need to get with Coast Guard on utilities. Still need to get concrete saw for at least 2 hand augering sites. Also suggested to Ted about bringing Barry (Lyst? SP?) down to help if NOD is unwilling. Tim did assist on the hand augering sites S9 7/8 + 3/4 and S8 1/2. The drill crew worked with Rich 'Buck' and S9DB water was added to push sampler through on 1MAY96.

T: 0750 Buck + I arrived on site S9/S8 at 0750, no Tim no drill crew. We run late talking with Ted and traffic problems. The plan is to finish S9DB then do some additional hand auger sites around S8. This should give general idea of plume. The sites would be located on either side of railroad bed approximately 50'-75' down from S8 1/2. After this maybe move to S6.

T: 840 Static water level @ 3.7' Tim and drill crew arrived at 0830.

Site: S9DB Time: 0900

HNU Reading @ 20' = 0.4 but sample not collected. Background is 0.1 ppm. HNU battery is low will probably switch soon!

22'-24' Recovery 1.5' HNU = 0.3 Background still 0.1 Still not getting good recovery. Tim is deconning samplers.

T = 950 Collected S9DB-5 at 25'. A bit of wood chips in the soil. Collected VOA, BNA, etc. HNU Reading was 0.7 BG = 0.1 ppm 0-20 range-

DEB

DATE: 2MAY96 TIME: 1005 SITE: 1HNC S9DB-6 on still w/ wood debris.
HNU Reading @ 28' = 0.1 ppm (that equals background (0.1))
[NOTE: Call Shelia @ AROC the shipment sent Wednesday 1MAY96 had the wrong dates. Had to change dates in logbook too. All were initialed.] Next sample will be 28'-30' sample.
The HNU reading @ 0.1 (equal to background). The soil is clay.
Sample S9DB-6 will be taken next @ 30'-32' → 30'-32' push only had a recovery of .5'. will try and collect sample at next.
Collected S9DB-6 @ 1130 @ 32' (Salty (sandy) clay) HNU=0.
Collected S9DB-7 @ 1145 @ 35' " " " HNU=0
36'-38' brought up @ 1305 holding in sampler until 38'-40' is brought up. DiD have to run composite of two to get S9DB-8, 8A, 8B.
All S9DB sites are only tested for VOA + BNA, etc. VOA will not be a composite it will be collected automatically from sample.
HNU reading = 0 [had to switch HNU other one ran out of battery]
The soil was sandy. VOA's were taken first. Sample was collected @ 1330. 38'-40' sample brought up at 1325 VOA came from 40-' depth. The drill crew cleaned up site while Rich & I went to hand auger site S8-3/4.

S8-3/4 approximately 75' from S8 1/2.

0-1.5 HNU=0
2.0' HNU=8
2.5' HNU=10 collected sample S8-3 @ 1425
@ 2.8' on 3rd attempts met w/ refusal

Moved to 91' off S8 1/2 because at 75' met with refusal in 4 locations.
New hole → 1.8' bottom HNU=0 ppm
2.2' " " = 2.2 ppm (0-200 range) collected S8-3-1 (1500)
2.7' " " = 10 " " " "
3.1' " " 3.0 ppm " " "
3.8' " " 3.0 ppm " " "

DEB

10/

D: 2May96
Site: SB 3/4 Time: 1505 GPS:

4.3' bot depth	HNU = 2.4	(0-200 range)
4'7" " " "	= 3.0	" "
5'0"	4.0	(0-200 range)
5'5"	2.0	
5'9"	8	(0-20 range)
6'1"	2	(0-200 range) SB-4 (1515)
6'7"	4.0	" "
7.3"	5.0	" "
7'8"	2.5	" "
8'1"	2.0	" "
8'8"	1.0	" "
9'1"	3.0	" " collected SB-5 (1550)

Samples were iced down and the auger was deconned. Tim and the drill crew helped collect the samples at this site. The water in the hole had an SEB oil sheen on the surface. The water percolated up within a 1/10 inch of the surface. It was decided that the NOD drill rig would not be used due to water waste generated and because not equipped w/ hollow shaft augers. Tim agreed to this decision.

DATE: 3May96 Time: 0700 arrived on site at lock talked to lockmaster about renting equipment to cut through concrete. Tried to go over and do GPS reading at SB & S9 sites.

Site: SB-1 Time (0745)
(Auger = 13" Rod = 3') ~~Background = 3~~ SEB Change HNU Background = .4
8/10" ⇒ HNU@(0-20) = .2 (over background)
1'2" = .2
1'7" = 0
2'4" = 0 JGB

Bot
3'
3'
3'2
4'
4'
4'
5'
N
r
Site
To
1'11
2'
2'0
3'1
3'9
4'
4'
5'
6'
Site
.6"
1'
1'9
1'
2'

Date: 3 May 96 Site: SG-1 (continued)

3'0" = 0

3'5" = 0 HNU Collected SG-1 for Asbestos, BNA etc, YOA sandy material. Free water at 3'0" (0805)

3'8" ⇒ Below water table having caving HNU = 0

4'3" = .2 ppm HNU reading

1'6" = 0

4'7" = 0

5'3" = 0

No significant HNU reading - too much fill in from sides ∴ did not take SG-2.

SITE: S4-1/2 Time: 0900 In front of Diesel AST (Steel in conc. tube)

To get below gravel went down 6" first. (BG = .4)

6" - 1' = .2 HNU (0-20 range)

1'-1'6" = 1.0 HNU

2' = 1

2'5" = .4

3'1" = .4

3'9" = .6 collected S4-1 Asbestos VOA BNA, etc @ 910 water at 3'9" clay material

4'2" = .4

4'9" = .4

5'4" = .4

6'0" = .4 collected S4-2 (VOA BNA, etc) @ 0920 clay material, below water

Diesel
↓
6'

GPS: N 29° 57' 58.76" ±70
W 90° 01' 37.90"
WP11

SITE: S4-5/6 T: 0930 BG = 0

.6" = 0 HNU

1' = 0

1'9" = .6

2'1.5" = .6

2' = .6

GPS: N 29° 57' 58.8" ±40 WP12
W 90 01' 37.65

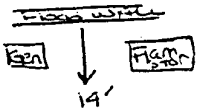
JEB

12/

Site: S45/6 Date: 3 May 96

BG = 0.2 ppm HNU reading (0-20 range)

2'4" = .4
2'8" = .4
3'3" = .2
3'8" = .2
4'-4" = .2 HNU (S4-5) collecting sample @ 945 (VOA BNA, etc.) sand/clay material beginning of clay layer
5'-0" = .4
5'-6" = .4
6"-0' = .2 (S4-6) collected sample @ 1050 (VOA, BNA, etc) clay material.

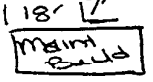


This site next to generator and hazardous ~~waste~~ JEB material storage building. Upgradient of diesel fuel AST → concrete tube, steel tank. Electrical wires from generator on the ground. Fuel lines from tank to generator below surface. Shutoffs at both ends, shut off at tank within concrete barrier. Dumpster and ~~the~~ ~~roof~~ JEB metal collection dumpster in between generator and tank.

Site: S4-7/8 Time: 1100 (18' from corner of Build (NE) 7' away from Build)

Background = .3 HNU

.4" = .4 (0-20 range)
1.0' = .4
1.5" = .6
1.9" = .4
2'4" = .4
2'8" = .6
3'3" = .4
3'8" = .6 collect sample 1110 (VOA BNA, etc)
4'2" = .4
4'7" = .6
5'-3" = .6



GPS = N 29° 57' 58.41" ±40
W 90° 01' 37.51" (WGS)

hit water table JEB

Date: 3 May 96 Site: S4-7/8 (continued)

5'-7' = .6

6.3' = .4 Collected sample (VOA BNA, etc) sand material 1115

Collected insate after S4-7/8 from auger after decoring

collected 2 VOA, BNA, metals + TPH @ (1055)

SITE: S4-3/4 Time: 1135 BG = 0 GPS = N 29° 57' 58.40"
W 90° 01' 38.19" ±40
(WP14)

~~1'=~~ ~~4~~ ~~SB~~ HNU (0-20 range) readings.

1.2' = .4

1.4' = .4

1.6' = .2

2.1' = .4

2.5' = 0

2.7' = .2 (1145) collected sample sandy clay material

3.1' = .4

3.5' = .4 hit water table.

4.0' = .2

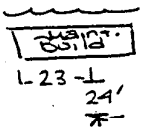
4.4' = 0

4.8' = 0

5.3' = 0

5.8' = 0 (1155) collected sample clay material

Measurement 23' NW corner
24' out from building



SITE: HNC-S5 3/4 Time: 1330 GPS = N 29° 57' 59.41 ±50
W 90° 01' 39.77 up21

0-.6' = 0 HNU

1' = 0

1.5' = 0

1.8' = 0.6

2.0' = 0.2

DEB

14/

DATE:
3MAY96 Site: SS-3/4
This site was dropped. The area appears to have a deep layer of shells that we were unable to penetrate this layer. In addition the shell layer started to cave in. A deep boring will be done near this same site. The HNU readings were zero for the material screened.

SITE: IHNC-SS½ T: 1330

0-.5′	= 0 HNU	GPS:
.5′-1′	= 0	N 29 57 59.73 ±60
1.5′	= 0	W 90 01 39.0
2.3′	= .2	(WP20)
2.6′	= 0	hit water table
3.0′	= 1.0	collect sample 1355 Asbestos VOA, BNA, etc
3.5′	= 0.4	
3'7"	= 3.0	new hole 2′ adjacent to first hole.
4′	= 1.6	
4.5′	= 1.0	
5′	= 1.0	
5.5′	= 1.0	
6.0′	= 1.0	collected sample 1430 VOA BNA, etc

SITE: IHNC-S2-½ T: 1500 Site on the east side of fenced in storage area. within first foot running into resistance from shells.

0-.6′	= 0 HNU (0-10 range)	GPS N 29°58′07.46" ±40
.6-.9′	= 0 " " "	W 90° 01′ 36.81"
1.2′	= 0.4	(WP22)
1.4′	= 1.2	
1.8′	= 0	

JEB

DATE: 3MAY96 SITE: S2-1/2 (Continued)

2.3' = 0 2.4' free water

3.8' = 0

3.4' = 0 collected sample (1515)

3.9' = 0 sand is caving in.

4.2' = 0

4.7' = 0

5.2' = 0

5.8' = 0 collect sample (1525) VOA/BNA, etc

Date: 4may96 Site: S3-7/8 T: 0840

Near the diesel storage & generator.

0-.5' = 1 HNU reading (0-200

1' = 2.6

1.4' = 4.0

1.8' = 1.0

2.2' = 3.0 (0-20 range)

2.6' = 2.0 BG = .4

3.1' = 1.0 Collected 850

3.4' = 1.0 BG = 0

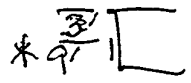
4.1' = .8

4.6' = .4

5.3' = .2

10.0' = .2 collected 910

Floor



GPS: 29°58' 01.73" ± 40
90° 01' 39.04"
wp. #39

T = 0930 Site: S3-3/4

1.1' = .4 (0-20 range)

1.3' = .2

1.5' = .6

1.8' = .2

2.2' = .6

DEB

16|

D= 4 may 96 Site : S3- 3/4 (continued)
HNU Readings (0-20 RANGE)
2.5' = 6.0 HNU
2.6' = 4.0 HNU.
2.9' = 3.0
3.3' = 3.0 (945) collecting sample.
3.6' = 3.0
4.0' = 3.4
4.3' = 1.6
4.7' = .4
5.0' = 1.0
5.3' = 1.0
5.7' = 0.6 collected sample @ (1010)

GPS = N 29° 58' 02.74" ±50
W 90° 01' 38.19"
WP15

Site : S3- 1/2 Time : 1035
HNU readings (0-20 range)
0.4' = 0.4 ppm BG = 0.2 ppm
1.1' = 0.4 ppm
1.3' = 0.4 ppm
1.5' = 0
1.8' = 0.6 ppm
2.0' = 0.4
2.3' = 0.4
2.6 = 0.4
2.9 = 0.2
3.3 = 0.6 ppm collecting @ 1050
3.5' = .4
3.8' = .4
4.2' = .6
4.2-4.6' = .4
4.6'-5.1' = .4

GPS = N 29° 58' 03.88" ±50
W 90° 01' 37.79"
WP16

Addition VOA, BNAek

DCB

D = 4 May 96 Site: S3 1/2

6' = 0.4 QA/QC (1100) collect sample

Site: S2 11/12 Time: 1235

GPS: N 29 58 05.88 ±50
W 90 01 36.96
(wp17)

0.5' - 0
1.0' - .2
1.3' - .2
1.5' - .2
1.8 = .2
2.3' = .6
2.6' = .4
3.0 = .4 → sampled (1240)
3.3' = .4
3.6' = .4
4.0' = .4 BG = 0.2
4.7 = .6
5.4 = .6
6.0 = .2 sample @ 1300

Site: S2 7/8 T: 1140

GPS: N 29 58 06.22" ±50
W 90 01 36.96"
(wp18)

.4 - 3.4
.8' - 1.0
1.0' - .4
1.9' - .4
1.6' - .6
2.0' - .4
2.3' - .4
2.5 - .4
3.0 = .4 (1250)
3.2 = .4
3.5 .6
4.1 .6
4.4 .4

MB

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5.1 – .4
5.5 – .6
6.0 – 1.0 Sample 1310

Site: S2-3/4 @1345
HNU readings
0.5' – 1.2 ppm (0-20 range)
1.1' – 2.6 ppm
1.5' – 2.6 ppm
2' – 1.6 ppm
3' – 1.4 (1350) collected sample VOA, BNA, etc.
4' – .6
4.3' – .4 sandy material with some fall in.
4.7' – .6
5.1' – .6
5.7' – .4 (1400) collected sample have a lot of fall-in

GPS for S2-3/4
N 29° 58' 06.56" ±40
W 90° 01' 32.72" (up 19)

DEB

D: 5 May 96 Site: S2-7/8-Water
Collected VOA, TPH, Metals + BNA @ 800
Static level at 1.7' No problems were experienced in collecting sample. Bailed the VOA sample. Then used a a pump to collect the other samples.
Site S2-7/8-water T= 0820
Static level = 2.9' this site is a QA/QC site. The VOA's were bailed. Then the other samples were pumped thru teflon tubing the metals were collected first then the hole was allowed to recharge. Finished at 0945. Filled all samples by groups.
Date: 6 May 96 Site: ~~S8~~ S7-1/2
Need new bottles for S3-10, S3-5(VOA), S3-6(VOA), and S3DB-2.
HNU
.5 = 0 ppm
1' = 2 ppm
1.4' = 0 ppm
1.8" = 0 ppm
2.1 = .6 ppm
2.5 = .6 ppm
2.8' = .4 ppm
3.4' = .4 ppm collected sample @ 0715 Asbestos (2) VOA + BNA
3.7' = .4 ppm
3.9' = 0 ppm
4.3' = 0 ppm
4.8' = 0
5.5' = 0 collected S7-2 @ 0735

GPS: N 29° 57 53.69 ± 50
W 90° 01 41.80 wp23

KEB

29

Date: 6 May 96 Site: SZ-17/18
Time: 0815 GPS: N 29° 58' 08.62" (up 24) ± 50
W 90° 01' 36.74"
HNU Readings: (0-20 range) unless specified otherwise.
1.0 = 0
1.4 = 0 already hit a clay layer
1.6 ⇒ 0 hit a pipe have to relocate site.
1.9 = 0
2.3 = 0 hit something again collecting @ 835
collected VOA, BNA, etc. material - clay 0 HNU readings.
The site it 8' inside the flood wall
The GPS station is 7' east of site. Couldn't get any closer due to power cord.
Time: 0900 Site: SZ - 13/14
GPS: N 29° 58' 07.72" ± (up 25)
W 90° 01' 36.19"
HNU Readings: (0-20 range) unless otherwise specified
0-1' = 4ppm
1'-1.4' = 1ppm
1.4'-1.8' = 6.4ppm BG = 0.2 (PCB 1221)
1.8'-2.1' = 2ppm w/o breaking it up.
2.5' = 2.4ppm broke up slightly (collected sample @ 0905)
3' = 1.8ppm
3.4' = 0.4ppm
3.9' = 1.0ppm
4.4' = 1.6 ppm
5.0' = 2.6 ppm BG = 0.4
5.5' = 1.0 ppm
6.0' = 1.0 ppm collected sample @ 0920

DCB

Date: 6 May 96 Site: SZ 15/16

Time: 0940

GPS: The site is 22' from SZ-13/14 to the N. along floodwall.

HNU Readings (0-20 range)

0-1.1' = 1 ppm

1.3' = 0.6 ppm BG = 0.4 ppm. GPS: N 29 58 07.82 ±40
W 90 01 36.07
wp26

1.7' = 0.6 ppm

2.0' = 0.6 ppm BG = 0.2 ppm

2.3' = 0.4 ppm

2.8' = 0.4 ppm

3.3' = 0.4 ppm collected sample @ 0950 (VOA BNA etc.)

3.6' = 0.4 BG = 0

4.0' = 0 ppm

4.5' = 0.4 ppm

5.0' = 0 ppm

5.5' = 0.4 ppm clay material collected sample @ 1000

Site: SI - 1/2 Time: 1100 GPS: N 29 58 13.24 ±40
W 90 01 31.04
wp27

This is a 0-6' soil site and water site (MS-MSD)

HNU Reading (0-20 range) BG = 0.4 ppm

0-.8' = 0 ppm

.8-1.4' = 0 BG = 0 ppm

1.9' = 0

2.4' = 0 ppm

2.6' = .4

2.9' = .4 collected sample 1115

3.2' = 0 ppm

3.6' = 0 ppm

4.2' = 0.2

4.5' = 0.2 ppm hit water table.

JEB

5' = 0.2 ppm

7.3' = 0.4 ppm

5.8' = 0.2 ppm collected sample (VOA/BNA) @ 1130 sandy/silty material. hole was caving in.

will attempt to recharge after 1 hour to give hole time to recharge and collect water sample if hole does not cave in.

Asbestos was taken from a surface sample, not at 2.9'.

Frances E Bu

SITE	GPS Reading	WP#
S10-1/2	N 29 57 41.7 W 90 01 38.7	wp 1
S10-3/4	N 29 57 42.0 W 90 01 38.36	2
S9-5/16	N 29 57 37.42 W 90 01 47.33	3
S9-1/2	N 29° 57' 38.25" W 90° 01' 47.39"	5
S9-DB	N 29° 57' 38.59 W 90° 01 48.0"	4
S9-7/8	N 29 57' 38.32" W 90 01 47.14"	6
S8-1/2	N 29° 57 40.55" W 90° 01' 46.54"	8
S9-3/4	N 29 57 39.20" W 90° 01' 46.92"	7
S6-1/2	N 29° 57 54.99" W 90° 01' 38.88"	10
S4-1/2	N 29° 57' 58.76 W 90° 01' 37.90"	11
S4-5/16	N 29° 57' 58.8" W 90 01' 37.65	12
S4-7/8	N 29° 57' 58.41" W 90° 01' 37.51	13
S4-3/4	N 29° 57' 58.40" W 90° 01' 38.14"	14
S5-3/4	N 29° 57' 59.41 W 90° 01' 39.77	21
S5-1/2	N 29 57' 59.73 W 90° 01' 39.0	20
S2-1/2	N 29° 58 07.46 W 90° 01' 36.81	22
S3-7/8	N 29° 58' 01.73 W 9001' 39.04	39
S3-3/4	N 29° 58' 02.74" W 90° 01' 38.19"	15
S3-1/2	N 29° 58' 03.88" W 90° 01' 37.79"	16
S2-11/12	N 29° 58' 05.88" W 90° 01' 36.96"	17
S2-7/8	N 29° 58' 06.22" W 90° 01' 36.96"	18
S2-3/4	N 29° 58' 06.30" W 90° 01' 36.72"	19
S7-1/2	N 29° 57' 53.64" W 90° 01' 41.80"	23
S2-17/18	N 29° 58' 08.02" W 90° 01' 36.74"	24
S2-13/14	N 29° 58' 07.72" W 90° 01' 36.19"	25
S2-15/16	N 29° 58' 07.82" W 90° 01' 36.07"	26
S1-1/2	N 29° 58' 13.24" W 90° 01' 34.04"	27
S8-3/4	N 29° 57' 41.40" W 90° 01 46.23	9

JEB

PROJECT: IHNC - Drilling DATE: 4 Jun 96

NOD set up. Failing 1500, 8" hollow stem auger, continuous 1 3/8" split spoon SD Plastic water tank, 2 equipment trucks. All equipment on site. Beth Brown + Rick Hagan (LMS), Todd Guthles + Dale Hayes (AEDC) arrived on site @ 0700. Drill crew (NOD) 0730. Missing a adaptor for split spoon sampler, drill crew went back to base + picked it up. ~ 0815 Allen Blake (Geotech NOD) + a drill warehouse guy showed up to see what was going, make sure the drill crew had correct equipment. Arrived at site SB ~ 0945 and began set up of drill rig. The drill crew supervisor showed up to double check that his drill crew had the proper equipment.

→ SITE: SB DB

Time:

GPS: WP#36 N 29 57 43.33 ±70
W 90 01 45.57

HNU Readings = BG = ~4 ppm (2½' sampler)

2'-4' (1st sample) — 0 ppm about 5" recovery, not enough to sample ~1030

→ Progress is slow. The crew does not seem experienced in using augers. In addition, the equipment is old + primitive. The auger is too large for the type of work and produces a lot of spoil. The rig is not equipped to properly drill with these augers. The sample collected first was taken without a catcher, the ones the brought were too big.

4'-7' = 0 ppm HNU VOA & BNA, etc soil sample collected #1 1230

MATERIAL → silty/clay had some stiffness.

7½'-10' = 0 ppm (HNU) collected @ 1250 VOA, BNA etc #2

MAT. → clay | stiff

10'-12½' = SB 0 ppm = HNU

MAT → clay | stiff

DEB

DATE: 4 Jun 96

SITE: SS-DB

Depth	HNU Reading	Sample / Time	
12½ - 15	0 ppm	Collected SSDB-3 @ 1425	MAT = Stiff gray clay : VOA + BNA, etc.
5 - 17½	0 ppm	None taken	
17½ - 20	0 ppm	@ 1513 collected SSDB-4	VOA + BNA, etc. MAT = clay w/ wood fragments

Stopped drilling around ~ 1400. Drill crew went back to get a cable to hoist the samples out. With one cable hoist it takes a long time to switch the cable connection from split spoon, & auger. There is only one cable, needs to be two or three. The system is slow. With this rig there is no way can get two holes a day. The samples have been showing good recovery.

5 Jun 96 → 0915

Have decided to stop at 20' at site SS-DB based on the lab data from SS no contamination was found below 20'. See HNU readings from 0-20' at this site.

Franco E/B

DATE: 5 Jun 96

Time: 0701

Site: SB-DB

LMS crew arrived on site, arand 0700, the NOD drill crew arrived on site around 0710. New problem river stage is high - definitely above our heads. Checking into policy about drilling during high water. If we hit a sand layer we will have problems. Called Ted Postol to inform him of the inadequate equipment and of the river stage problem. The lack of experience and the slow equipment is still the main problem. The high water is just an obstacle. Unless the equipment is changed, this rig will only do one hole a day (if lucky). Recommendation: get equipment that works. Also called Allen Blake about water problem - he's checking into it and will call back. There is about 13' head. River stage is 14.5'. 0840 Still waiting for decision on whether to drill or not with high water. Buck/drill crew are now trying to get hoisting plug for rig. Call Mike Nguin - he suggested going only to 20'. Looked at analysis from SI-DB, below 20' no contamination. The area around lock + Coast Guard area has more fill and more potential for seepage. Joe Dietary told Ted Postol that the stage has to be at 15', now at 14.5' with no indication of rise. Buck call into NOD and had them order a hoisting plug. If only go to 20' we won't be running rods. Less time. Moving rig to SI-DB in the Port of New Orleans Maintenance area. Started around 0930 to break down rig, to move to next site. Removed two augers by trying to backfill - slow and tarding augers @ 1000 started to pull the remaining augers up, roughly scrap and spray with power hose. ~~0800~~ JEB

In a 1/2 hour have pulled 4, still at least 3 more.

JEB

Date: 5 Jun 96 Time: 1040 Site SS-DB

Continuing to remove augers + clean. Removed all augers by 1050, ave spoil to refill and augers to clean. 1100 all augers clean and hole filled with spoil.

Date: 5 June 96 Time: 1305 Site: SI-DB

GPS = wp#37 N 29° 58' 12.05" ±50
W 90° 01' 34.48"

HNU Calibrated ok. (0-20 range)

2½'-7' nothing. HNU = 0ppm @1330 collected SI-DB-1 sandy/silt Composite of 3'-7'
7½'-10' " = 0ppm @1400 collected SI-DB-2 silty/clay "
10'-12' " = 0
12½-15' " = 0 @1495 collected SI-DB-3 "
15'-17' " = 0 @ 1450 No sample collected
17'-20' " = 0 @ 1515 collected SI-DB-4 clay, mostly decayed wood soft.

20-22' " = 0
22½-25' " = —— @ 1600 ~~collected SI-DB-5~~ NO Recovery
25'-27' " = 0 @ 1605 Collected SI-DB-5

DATE: 6 Jun 96 TIME: 0645 SITE: SS SI-DB

40' boring in the Port of New Orleans Claiborne Warehouse. Have 27'-40' left to drill.

~~Depth~~	HNU Reading (ppm)	Notes
27'-29½'	0	collected SIDB-6 @ 0815 2½' recov silty/clay
30-32'	0	2' sampler. 2' recov silt
32½-35	0	SI-DB-7 @ 0930 2.5' recov. clay
35-37	0	use for BNA sample SIDB-7 full recov.
37-39½	0	Composite for 8, 8A, 8B VOA taken from 37-39 depth clay/stiff full recov on both @1015
39½-41½	0	

JSB