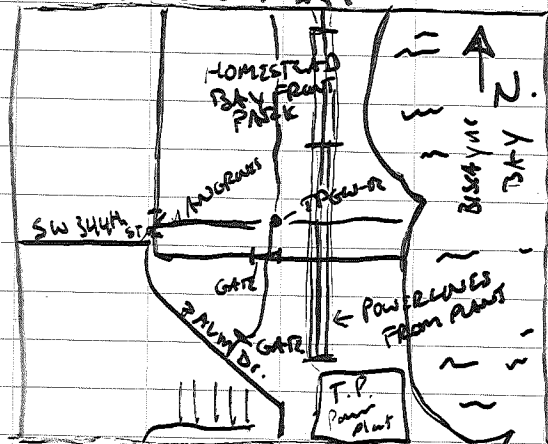


2/17/10 TP6W-12

LOCATION MAP



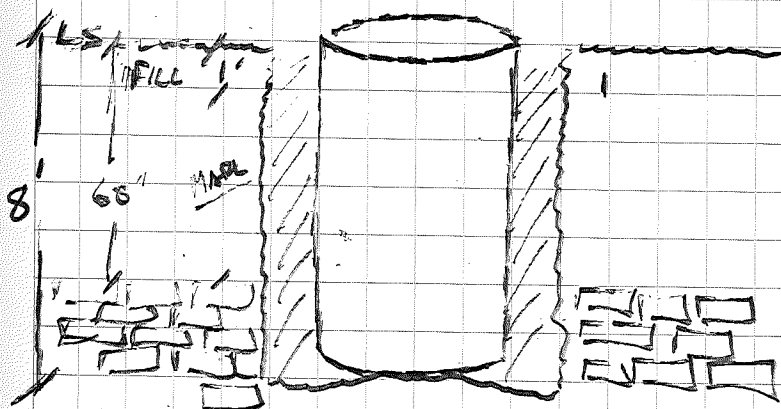
LAT 25° 26.917' N (WAY point # 68)
 LONG 80° 20.380' W

15:56- GETTING READY TO AUGER.

16:01- STARTING TO AUGER

AUGER TO ~ 8' BLS.

- w/ PVC TREMBLE HARD
- THE RE 6' BLS.



10" DIA. SCH 40 PVC TO 8' BLS.
 USED 2 BAGS TYPE I PORTLAND CEMENT
 TO GRout in

14:55 H₂O Quality Background IN Auger

T= 19.71°C

SC= 27880 us/cm

TDS= 18120 mg/L

SAL= 17.20 ppt

5:00- leave site.

2/18/10 TP6W-12, CORING

8:15 - @ WELL SITE.

8:22 H₂O Quality, TP6W-12 (8' BLS)

T = 24.05°C

SC = 29326

TDS = 19040

SR = 18.10

- ~7.5' BELOW PAV = FILL ~5.5' BLS

- TOP OF DM = ~2' BLS.

8:42 - Picking up coring

Coring bit in hole to ~6'10" BLS.

7'-8' BLS - Fill removal coring.

30 sec et to 7'10" BLS.

9:06 START CORE RUN #1

DEPTH (FT)	MIN : SEC	NOTES:
8'-9'	0 : 25	25 "OF 60"
9'-10'	0 : 32	42 % recovery
10'-11'	0 : 26	WC = 2"
11'-12'	1 : 07	RUB = 23"
12'-13'	0 : 28	

9:09 END CR #1

• RIG MAKING A STALLING TYPE NOISE?

• 11.5' SS sec E.T.

9:09 END CR #1 @ 12' 8" BLS.

9:16 - Pause

9:19 START CORE RUN #2

DEPTH (FT)	MIN : SEC	NOTES
13'-14'	0 : 55	21 "OF 60"
14'-15'	2 : 21	35 % recovery
15'-16'	3 : 42	WC = 7"
16'-17'	3 : 30	RUB = 14"
17'-18'	4 : 24	

9:35 END CR #2

CR #2 1/2' TIMES

- 14.5' BLS @ 1:18 ET
- 15.5' BLS @ 2:09 ET - brief chatter
- 16.5' BLS @ 2:42 ET - picking up core + some down.
- 17.5' BLS @ 2:22 ET.

- ~15' 8" - steady chatter & grinding.

- Pen rate picks up a little

- 16' BLS - rotations, speed inc. by drill hardware.

~17' 2" - Pick up Bit, Break Down.

9:35 TO CR #2 @ 17'10" BLS

2/18/10 TP6W-12 CORENG.

9:50 - morning high tide

9:53 CORE RUN #3 - START

DEPTH (FT)	MIN	SEC	NOTES
18-19	4	: 33	48 " OF 60"
19-20	2	: 58	80 % recovery
20-21	1	: 56	WC = 35"
21-22	4	: 34	RUB = 13"
22-23	2	: 46	

10:11 END CR #3

1/2' Times CR #3

- 18.5' BLSP 2:45 ET
- 19.5' BLSP 1:39 ET
- 20.5' BLSP — ET
- 21.5' BLSP 0:52 ET
- 22.5' BLSP 1:19 ET

NOTE: TIGER MUD JUGS (5 gal)

~~XXXXXXXXXXXXXXXXXXXX~~

10:11 END CR #3, T.D. ~ 22' 10"

- B.V. Conditioning Bone hole / Core Borell
- CR #3 - 10020 & rec. material
- highly insoluble ls - good by end, v.assy
- possibly complete ls.

10:26 CORE RUN #4 - START

DEPTH (FT)	MIN: SEC	NOTES
23-24	0 : 24	7 " OF 60"
24-25	0 : 27	12 % RECOVERY
25-26	0 : 20	WC = 3"
26-27	0 : 14	RUB = 4"
27-28	0 : 28	

10:29 END C.R. #3

- 23.5' @ 00:13 24
- 24.5' @ 00:12 "
- 25.5' @ 00:12 "
- 26.5' @ 00:07 "
- 27.5' @ 00:08 "

• CONDITIONING HALL.

• MIXED TIGER MUD.

10:48 ~~END~~ START CR #5

DEPTH (FT)	MIN SEC	NOTES
28-29	00: 24	14 " OF 60"
29-30	00: 35	23 % RECOVERY
30-31	00: 19	WC = 3"
31-32	1 : 23	RUB = 11"
32-33	2 : 03	

10:53 END CR #5

2/18/0 TPGW-12, CORING.

~31' 8" - Firmer.

- 32.5' BLS @ 1:02 ET

10:53 TD CR#5 @ 33' BLS.

- MOOL - START AIR @ TPGW-12

11:03 CORE RUN #6 START

DEPTH (FT)	MIN	SEC	NOTES
33-34	0	: 45	7 "OF 60"
34-35	0	: 30	12 % recovery
35-36	0	: 32	WL = 0"
36-37	0	: 40	RUB = 7"
37-38	1	: 39	

11:07 END CR#6

- 33.5' BLS @ 00:13 ET
- 34.5' BLS @ 00:15 ET
- 35.5' BLS @ 00:16 ET
- 36.5' BLS @ 00:16 ET
- 37.5' BLS @ 00:19 ET

37' 8" - Firmer.

37' 10" - v-slow - 1:20 ET

11:07 TD CR#6 @ ~37' 11" BLS.

11:16 C.B. #1 loaded, B.N. STOPPING TO
GET WATER.

12:59 START CORE RUN #7

DEPTH (FT)	MIN:SEC	NOTES
38-39	7 : 42	54 "OF 60"
39-40	9 : 35	90 % recovery
40-41	3 : 29	WL = 47"
41-42	12 : 58	RUB = 7"
42-43	6 : 14	

13:40 END CORE RUN #7

- 38.5' BLS @ 2:58 ET
- 39.5' BLS @ 4:52 ET
- 40.5' BLS @ 1:50 ET
- 41.5' BLS @ 2:28 ET
- 42.5' BLS @ 4:37 ET

~12:20 @ 84' BLS @ TPGW-2

12:50 WATER TRUCK BACK

• MIXING THE 27 M40

~1 gal used so far @ TPGW-12.

@ 41' 8" BLS - Pick up i. Dam minor

13:40 TD CR#4 @ ~42' 8" BLS.

38-43' lots of diss. porosity w/
recrystalline calcite inside
vugs

2/18/10 TPGW-12, CORING.

3:51 START CORE RUN #8

DEPTH	MIN	SEC	NOTES
43-44	6	: 56	28" OF 60"
44-45	1	: 05	47% RECOVERY
45-46	2	: 48	WC = 16"
46-47	4	: 07	RUB = 12"
47-48	13	: 35	

14:12 END CORE RUN #8

- 43' 6" @ 1:38 ET
- 43.5' 6" @ 5:41 ET - Pen pushed up
- 44.5' 6" @ 0:27 ET
- 45.5' 6" @ 0:43 ET
- 46.5' 6" @ — ET
- 47.5' 6" @ 11:21 ET

44' 8" - FIRMER, PEN. SLOWED

14:12 TD CR #8 @ 47' 8"

V-HARD AT BOTTOM!

• Condition the barrels

14:41 START CORE RUN #9

DEPTH	MIN	SEC	NOTES
48-49	13	: 28	63" OF 60"
49-50	6	: 48	105% RECOVERY
50-51	6	: 52	WC = 61"
51-52	9	: 11	RUB = 2"
52-53	5	: 47	

17:08 END CR #9

- 48' 6" @ 04:23 ET.
- 48.5' @ 9:53 ET. - AUDIBLE GRINDING
- 49.5' @ 3:17 ET - BETTER PEN RATE
- 50.5' @ 2:29 ET
- 51.5' @ 4:03 ET
- 52.5' @ 4:45 ET

15:05 @ 3:02 ET STOP CORING
- NO MORE WATER ~ 50' 9" W.15:10 - WATER TRUCK ON ITS
WAY OUT.16:05 BACKGROUND WQ (SURFACE WATER
IN MANGROVES)

T = 21.57°C

SC = 28970 $\mu\text{S}/\text{cm}$ TDS = 18820 mg/L

SR = 17.91 ppt

PH = 8.54

2/19/10 TD GW-12

81.

- On site

0645-TAG @ 55.53 BTOL

TOL: 2.70 MBS

TAG = 57.83' BLS ✓ OK

- ON SITE Tye: HENRY (B.V.)
J.F. (JLA)

8:58 START - REAMING HOLE.
- B.V. MIXING TIGERMUD

9:07 START CORE RUN #10

DEPTH (FT)	MIN: SEC	NOTES
53.53 53 54	8 : 40	5H "OF 60"
54.54 54 55	4 : 20	90 % RECOVERY
55.55 55 56	2 : 33	WC = 44"
56.56 56 57	2 : 49	RUB = 10"
9:29 ^{END} CR #10 57 58	3 : 34	

- START @ ~ 52' 8" BLS. - CORING

- 53' @ 3:00 ET, 53' 4" Grinding/Keckling
- 53.5' bise 4:48 ET
- 54.5' bise 2:29 ET
- 55.5' bise 1:29 ET - Parrot picking up
- 56.5' bise 1:50 ET
- 57.5' bise 1:21 ET

- @ ~ 56' 7" Drop to 57' 2"

9:29 - TO CR #10 @ ~ 57' 10" BLS

2/19/10 TPGW-12, CORING

9:34 - 3,000 GAL H₂O TANK ~ 1/2 FULL.

9:41 START CORE RUN #11

DEPTH (FT)	MIN : SEC	NOTES
58'-59	3 : 53	38 " OF 60"
59-60	2 : 18	63 % Recovery
60-61	2 : 57	WL = 30"
61-62	4 : 16	RUB = 8"
62-63	4 : 18	

9:59 END C.D. #11

- 58.5' b/s e 1 : 29 ET
- 59.5' b/s e 2 : 00 ET - Chalk & drop to
- 60.5' b/s e 0 : 49 ET ~ 60' 2" b/s
- 61.5' b/s e 2 : 40 ET
- 62.5' b/s e 2 : 43 ET

~ 60' 4" chalk - 2" Drop then
Firm.

9:59 - TD CR #11 @ ~ 62' 10" BLS.
- MIXING TIGER MUD.

10:14 START CORE RUN # 12

DEPTH	MIN SEC	NOTES
63-64	6 : 12	33 " OF 60"
64-65	3 : 08	55 % Recovery
65-66	2 : 42	WL = 29'
66-67	0 : 19	RUB = 4"
67-68	0 : 23	

10:29 END CR. #12

- 63.5' b/s e 3 : 10 ET
- 64.5' b/s e 1 : 22 ET
- 65.5' b/s e 1 : 59 ET
- 66.5' b/s e 0 : 12 ET
- 67.5' b/s e 0 : 9 ET

~ 64' 11" - Grounding - faster pen rate
~ 65' 3" - ^{PEN. RATE} SLOWERS DOWN A LITTLE
~ 65' 5" - Chalk, grinding
~ 65' 7" - Deep

10:29 TD CR #12 @ 68' BLS.

- CONDITIONAL BOREHOLE.
- WATER TANK ALMOST EMPTY
- MIXING TIGER MUD.
LD (~ 2 gal used so far)

10:55 - READY TO CORE

2/19/10 TPGW-12, CORING.

0:55 START CORE RUN #13

DEPTH(FT)	MIN:SEC	NOTES
68-69	1 : 29	27 " OF 60"
69-70	0 : 17 7	45 % recovery
70-71	0 : 54	WE = 5"
71-72	0 : 56	RUB = 16"
72-73	2 : 17	SAND = 6"

11:04 END CR #13

- 68.5' bse 00:31 ET - chiller, knocking
- 69.5' bse ~~0:17~~ ET
- 70.5' bse 0:17 ET
- 71.5' bse 0:29 ET
- 72.5' bse 0:57 ET

68.5' bse - Try pull up core barrel?

10:57 STOP CORING.

• seems like jets are plugged off?

11:00 Resume rotation / corr.

~ 70' 8" bse - Firmer

72' 2" - slurry pump

11:04 TD CR #13 @ 73' bse.

SOFT/VOID ~ 69' - ~ 70' 8"

12:50 WATER Trench Bore

- Mixing Tiger Mud.

TPGW-12
FLUX 200
X 21, 32.5, 87 (maybe)

13:02 START CORE RUN #14

DEPTH(FT)	MIN:SEC	NOTES
73-74	4 : 51	42 " OF 60"
74-75	2 : 14	70 % Recovery
75-76	0 : 39	WE = 15"
76-77	2 : 21	RUB 16"
77-78	6 : 06	SAND = 11"

13:19 END CR #14

BACKGROUND wa in mangroves

SC 29260 us/cm

TDS: 19020 mg/L

SM 18.13 ppt

~ 100 mchgs ECF well TPGW-12

12:25 Pure Water 1' bse. (13.5" ↓)

T = 17.91 °C

SC = 31250 us/cm

TDS = 20320 mg/L

SM = 19.51 ppt

SURFACE Water

12:33 T = 16.57 °C

SC = 24710 us/cm

TDS = 15730 mg/L

SM = 14.73 ppt

86 2/19/10

TPGW-12 CORNER

Run #14	73.5' b/s e	1 : 52 ET
1/2 FT TIMES	74.5' b/s e	1 : 27 ET
	75.5' b/s e	0 : 23 ET
	76.5' b/s e	0 : 57 ET
	77.5' b/s e	4 : 01 ET

e ~ 73' 2" BLS - GRINDING. MOD PEN.

~ 76' 4" - Firmer

76' 6" - Chalk, knocking - still mod pen.

~ 77' 2" - V-slow pen.

13:14 TD CR #14 @ 78' BLS.

• Conditioning Borehole • MIXING TIGER MUD

13:47 CORE RUN #15 START

DEPTH (FT)	MIN : SEC	NOTES
78'-79'	0 : 43	18" OF GO
79'-80	1 : 03	30% RECOVERY
80'-81	5 : 43	W.C. = 3"
81'-82	1 : 18	RUB = 4"
82'-83	1 : 11	SAND = 9"

13:58 END CR #15

• 78.5' b/s @ 0:30 sec ET

• 79.5' b/s @ 0:17 sec ET

• 80.5' b/s @ 3:49 ET

• 81.5' b/s @ 0:43 ET

• 82.5' b/s @ 0:24 ET

87

• 79' 11" Firmer, pen rate slowed.

• 81' 4" - pen rate picked up
- chalk, knocking sound in rig-

• SAME TO 83' BLS.

13:58 TD CR #15 @ 83' BLS.

• CONDITIONING BOREHOLE

• MIX UP TIGER MUD.

14:21 CORE RUN #16 - START

DEPTH (FT)	MIN SEC	NOTES
83-84	- : 44	38" OF GO
84-85	- : 30	63% RECOVERY
85-86	4 : 23	W.C. = 21"
86-87	7 : 33	RUB = 17"
87-88	6 : 21	SAND = 0"

14:40 END C.R. #16

CR #16 1/2 FT. TIMES

• 83.5' b/s @	- : ET
• 84.5' b/s @	0 : 13 ET
• 85.5' b/s @	0 : 43 ET
• 86.5' b/s @	4 : 05 ET
• 87.5' b/s @	1 : 44 ET

~ 85' 3" - PEN RATE SLOWED DOWN

2/19/10 TPGW-12 CORING.

- CR#16 Comments.
- @ ~85'3" BLS, PEN. RATE SLOWED
- @ ~86'7" BLS, STILL SLOW, HARD
- @ 86'8" - chatter, faster
47 ~2" DROP TO ~86'10" BLS
- @ 87'2", CHATTER; DROP TO
~87'6" BLS

14:40 TD C.R#16 @ 88' BLS

- MIX TIGER MUD

14:56 START CORE RUN #17

DEPTH	MIN	SEC	NOTES
88-89	2	:31	47" OF 60"
89-90	1	:26	78% RECOVERY
90-91	1	:06	WC= 32"
91-92	3	:37	RUB= 15"
92-93	4	:16	

15:09 END CR #17

- 88.5' BLS @ 0:46 et
- 89.5' BLS @ 1:1 et.
- 90.5' BLS @ 0:45 et.
- 91.5' BLS @ 1:12 et.
- 92.5' BLS @ 1:41 et.

@ 90'7" - Grinding, pen inc. / drop
to ~91'2" BLS

@ 91'2" - PEN. RATE Slowed down
@ ~91'8" - loud grinding / crunching
noise as before - BRIEF

@ 92'6" - GRINDING / CRUNCHING
NOISE - BRIEF

@ 92'7" ~ 3:00 MIN ET.

DRILLER INC. ROTATION
SPEED.

15:09 T.D. C.R#17 @ 93' BLS
B.V. CONDITIONING HOLE.

15:50 - MIXING TIGER MUD

15:52 - START CR#18

15:52 START CORE RUN #18

DEPTH	MIN	SEC	NOTES
93-94	03:31		57" OF 60"
94-95	6:17		95% RECOVERY
95-96	05:46		WC= 40"
96-97	03:26		RUB= 17"
97-98	05:17		SAND= 0"

16:17 END C.R.#18

• 93.5' BLS @ 1:32 ET 95.5' BLS @ 1:59 ET

• 94.5' BLS @ 1:34 ET 96.5' BLS @ 1:21 ET

97.5' BLS @ 1:39 ET

2/19/10 TPGW-12, CORNING

- ~95' 2" - Drilling, lift faster.
- STILL SMOOTH: RUNNING SLOW
- @ 96.5' BLS - brief chatter, quicker
pen to 96' 10" BLS.
- ~97' 8" - HARDER, DRILLING.
- ROTATION SPEED,
- SLOW PEN. RATE.
- Try picking up bit & back down

16:17 TD CR #18 @ ~97' 8"

- CONDITIONAL BOREHOLE
- ADD OIL MUD.

16:42 START CORE RUN #19 (~97' 8" BLS)

DEPTH	MIN	SEC	NOTES
98-99	3	:42	40° or 60°
99-100	4	:04	67 % recovery
100-101	0	:32	WC = 33"
101-102	0	:38	Sub = 7"
102-103	1	:56	

16:50 END CR. #19

• 98.5' BLS @	1 : 42	et	98' @ 46 sec et.
• 99.5' BLS @	÷	et	
• 100.5' BLS @	00:06	et	
• 101.5' BLS @	÷	et	
• 102.5' BLS @	1 : 24	et	

~99' - land chatter: drop.

~102' 2" - HARD, pen. Slowed down

~102' 4" - Chatter & Drop.

16:50 TD CR #19 @ 103' BLS.

2/22/0 TPGW-12, CORNW

08:10 - @ well site

- B.V. Conditioning the Borehole.

08:25 - ADDING NEW 5' SECTION OF CORNW
DELL PIPS.

- mixing tiger mud.

8:29 START CORE RUN #20

DEPTH	MIN	SEC	NOTES
103-104	1	19	55" OF 60"
104-105	1	24	92% RECOVERY
105-106	4	41	WC = 46"
106-107	5	55	Rub = 9"
107-108	4	58	Sand = 0"

8:48 END C.R. #20

103.5' bls e 00:28 ET

104.5' bls e 00:37 CT

105.5' bls e 01:53 CT

106.5' bls e 2:37 ET

107.5' bls e 1:09 ET

~106'8" - hard spot. the surface

5:48 TD #20 @ 107'11" bls

- conditioning borehole

- mixing tiger mud.

9:22 Core Run #21 - START

DEPTH (F)	MIN SEC	NOTES
108-109	1 : 43	64" OF 60"
109-110	0 : 52	107% recovery
110-111	0 : 45	WC = 64"
111-112	01 : 01	Rub. = 0"
112-113	02 : 14	Sand = 0"

9:28 END CR #21

108.5' bls e 1 : 06 ET

109.5' bls e 0 : 34 ET

110.5' bls e 0 : 17 ET

111.5' bls e 0 : 29 CT

112.5' bls e 0 : 50 ET

- slower pen e ~ 112'8" BLS.

9:28 - END CR #21 e ~ 112'11" BLS

9:50 START CR #22 @

DEPTH	MIN SEC	NOTES
113-114	00 : 57	51" OF 60"
114-115	00 : 41	85% RECOVERY
115-116	00 : 30	WC = 47"
116-117	00 : 51	Rub : 0"
117-118	01 : 02	Sand : 4"

9:54 END CR #22

2/22/10 TPGW-12, CORING

From CR#22 1/2-FT TIMES

113.5' b/s @ 00:30 CT

114.5' b/s @ 00:20 CT

115.5' b/s @ 00:15 CT

116.5' b/s @ 00:14 CT

117.5' b/s @ — CT

9:54-TD CR#22 @ 118' BLS

11:21 START CR#23

~~11:21~~ START CR#23

Depth	Min:Sec	NOTES:
118-119	0:35	36 "OF 60"
119-120	0:24	60 % recovery
120-121	0:16	WC= 0 "
121-122	0:28	RB= 0 "
122-123	1:12	SAND= 36"

11:24 END CR#23

10:16- BV. having trouble w/ core barrel job
plugging. remove 5' section &
resume bar hole conditions after
core barrel removal...

10:41 START CR#23 AGAIN, some T. mud
slung spraying a drill. stop coring...

10:45- removing 5' section of core string
• Prob. w/ SAND HEAVING INTO
CORE STRING.

11:10- DROPPED C.B. BACK INTO C. DRILLING
• CIRCUMFERENCE 118' BLS.

11:24 TD CR#23 @ 123' BLS
- MIXING TIGER MUD

11:41 START CORE RUN #24

Depth (ft)	MIN SEC	NOTES
123-124	00:21	53 "OF 60"
124-125	00:24	88 % recovery
125-126	00:29	WC= 0
126-127	00:23	RB= 0
127-128	00:49	SAND= 53"

11:44 END CR#24

- 127.5' BLS - HARD SPOT.

11:44 TD CR#24 @ ~128' BLS

- MIXING TIGER MUD.

2/22/10 TP6W-12, CUREWZ

12:00 START C.R. #25

DEPTH (F)	MIN	SEC	NOTES
122-129	00	: 15	0' OF 60"
129-130	00	: 17	0% recovery
130-131	00	: 36	WE = /
131-132	00	: 33	Reb = /
132-133	00	: 29	Seal = /

12:02 END CR #25

12:02 - TD, CR #25 @ 132' 11" 134