

SAFETY ON THIS JOB DEPENDS ON YOU

REVISIONS			
NO	SYM	ZONE	DATE

CORE BORING NOTES

- BORING LOCATIONS ARE SHOWN ON SHEETS 3 AND 4
- PROBING LOCATIONS ARE SHOWN ON SHEETS 3 THRU 5
- BLS 0.5 FT. REFERS TO THE NUMBER OF HAMMER BLOWS REQUIRED TO ADVANCE A SPLIT SPOON (1 3/8" I.D. X 2' O.D.) ONE-HALF FOOT. THE SPOON IS 2.0 FT. LONG AND DRIVEN CONTINUOUSLY ONE AND ONE-HALF FOOT WHERE POSSIBLE.
- (SP) AND (SM) ETC. REFERS TO THE CORPS OF ENGINEERS UNIFIED SOILS CLASSIFICATION SYSTEM. CLASSIFICATION OF MATERIALS IS BASED ON VISUAL EXAMINATION AND LABORATORY ANALYSIS.
- CORE SAMPLES TAKEN DURING THE BORING OPERATIONS ARE AVAILABLE FOR INSPECTION AT THE CORPS OF ENGINEERS DREDGE DEPOT IN JACKSONVILLE, FLORIDA.
- ORIGINAL BORING NOTES ARE AVAILABLE FOR INSPECTION AT THE JACKSONVILLE DISTRICT OFFICE.
- ROCK HARDNESS IS DEFINED BY THE FOLLOWING:
SOFT - CAN BE SCRATCHED WITH FINGERNAILS.
MEDIUM HARD - CAN BE SCRATCHED EASILY WITH KNIFE.
HARD - DIFFICULT TO SCRATCH WITH KNIFE.
VERY HARD - CANNOT BE SCRATCHED WITH KNIFE.
- BLS 30 MIN. ETC. REFERS TO THE TIME IN MINUTES REQUIRED TO DRILL THROUGH THE VERTICAL REACH SHOWN.
- H.P. 100 PSI, ETC. REFERS TO THE HYDRAULIC PRESSURE, IN POUNDS PER SQUARE INCH, APPLIED TO THE DRILL BIT WHILE DRILLING THROUGH THE VERTICAL REACH SHOWN.

Hole No. CB-28									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-28		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=776,375 Y=1,031,382									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-28									
NAME OF DRILLER: J. DeLoeff									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 3 Jun 76									
ELEVATION TOP OF HOLE: -7.8									
THICKNESS OF OVERBURDEN: 72									
DEPTH DRILLED INTO ROCK: 12.5'									
TOTAL DEPTH OF HOLE: 12.5'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-7.8	0.0				BIT OR BARREL				
-10.8	3.0		LIMESTONE (coquina) tan, porous, permeable, fractured, hard	42	DIAMOND 4 X 5-1/2 D.T. 15 min. H.P. 100 p.s.i.				
-12.3	4.5		medium hard from -10.8 to -12.3	50	SPLIT SPOON				
			Hard, coquina, tan, as above unfractured from -12.3 to -20.3	87	DIAMOND 4 X 5-1/2 D.T. 49 min. H.P. 100 p.s.i.				
-20.3	12.5			88	DIAMOND 4 X 5-1/2 D.T. 30 min. H.P. 100 p.s.i.				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

Hole No. CB-29									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-29		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=776,520 Y=1,031,225									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-29									
NAME OF DRILLER: J. DeLoeff									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 3 June 76									
ELEVATION TOP OF HOLE: -12.3									
THICKNESS OF OVERBURDEN: 97									
DEPTH DRILLED INTO ROCK: 7.1'									
TOTAL DEPTH OF HOLE: 7.1'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-12.3	0.0				BIT OR BARREL				
-12.7	0.6		SAND, fine to medium, quartz, gray, clean (SP)	70	SPLIT SPOON settled				
			LIMESTONE very hard, dense, solid, fine grained, slightly fossiliferous, massive bedded	100	DIAMOND 4 X 5-1/2 D.T. 40 min. H.P. 200 p.s.i.				
-19.3	7.1			94	DIAMOND 4 X 5-1/2 D.T. Not observed H.P. Not observed				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

Hole No. CB-30									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-30		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=773,322 Y=1,029,735									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-30									
NAME OF DRILLER: D. Bowden									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 8 Jun 76									
ELEVATION TOP OF HOLE: -5.0									
THICKNESS OF OVERBURDEN: 57									
DEPTH DRILLED INTO ROCK: 15.0'									
TOTAL DEPTH OF HOLE: 15.0'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-5.0	0.0				BIT OR BARREL				
			SHELL, small to medium size shell fragments, tan	53	SPLIT SPOON				
-8.0	3.0		SAND, fine to medium, quartz very shelly, gray (SP)	46	" " " "				
			38% shell	40	" " " "				
-12.0	7.0		SAND, fine quartz, very silty, organic stain dark gray, seams black silt (SP-SM) 6% shell	33	" " " "				
-14.5	9.5		SAND, fine to medium, quartz, slightly silty, light gray, (SP-SM)	53	" " " "				
-17.5	12.5		SAND, fine to medium, quartz, very clayey, stiff, slightly silty, dark green (SC)	60	" " " "				
-20.0	15.0			80	" " " "				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

Hole No. CB-31									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-31		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=773,705 Y=1,029,645									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-31									
NAME OF DRILLER: D. Bowden									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 8 Jun 76									
ELEVATION TOP OF HOLE: -5.4									
THICKNESS OF OVERBURDEN: 14									
DEPTH DRILLED INTO ROCK: 15.0'									
TOTAL DEPTH OF HOLE: 15.0'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-5.4	0.0				BIT OR BARREL				
			SAND, fine to medium quartz and shell fragments, very shelly, gray (SP)	33	SPLIT SPOON				
			25% shell	40	" " " "				
-12.9	7.5		SAND, clayey, dark gray (SC)	60	" " " "				
			Trace of gravel size shell	66	" " " "				
-18.9	13.5		SAND, fine to coarse, quartz, clayey, silty gray (SM)	73	" " " "				
-20.4	15.0			73	" " " "				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

Hole No. CB-32									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-32		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=774,162 Y=1,029,678									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-32									
NAME OF DRILLER: J. DeLoeff									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 5 June 1976									
ELEVATION TOP OF HOLE: -5.2									
THICKNESS OF OVERBURDEN: 42									
DEPTH DRILLED INTO ROCK: 15.0'									
TOTAL DEPTH OF HOLE: 15.0'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-5.2	0.0				BIT OR BARREL				
-6.2	1.0		SAND, fine to medium, quartz, clean, gray, slightly shelly (SP) 15% shell	40	SPLIT SPOON				
			SHELL, small to medium size fragments, sandy, gray	46	" " " "				
-11.2	6.0		SAND, fine to medium, quartz, very shelly, gray (SP)	26	" " " "				
			22% shell	12	" " " "				
-15.2	10.0		CLAY, slightly sandy, dark green (CL)	60	" " " "				
			slightly silty, organic stain, roots	66	" " " "				
-19.7	14.5		Bed clayey sand (SC)	88	" " " "				
-20.2	15.0			88	" " " "				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

Hole No. CB-33									
DRILLING LOG		DIVISION		INSTALLATION		SHEET		OF	
South Atlantic		Jacksonville District		CB-33		1		1	
PROJECT: St. Lucie Inlet									
LOCATION: X=774,450 Y=1,029,700									
DRILLING AGENCY: Corps of Engineers									
HOLE NO. (As shown on drawing title and file number): CB-33									
NAME OF DRILLER: J. DeLoeff									
DIRECTION OF HOLE: Tidal									
DATE HOLE: 4 Jun 76									
ELEVATION TOP OF HOLE: -4.7									
THICKNESS OF OVERBURDEN: 43									
DEPTH DRILLED INTO ROCK: 15.0'									
TOTAL DEPTH OF HOLE: 15.0'									
GEOLOGIST: J. GENTILE									
ELEVATION	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	S. CORE RECOVERY	REMARKS				
-4.7	0.0				BIT OR BARREL				
			SAND, fine to medium, quartz and shell fragments, tan, very shelly (SP)	46	SPLIT SPOON				
				40	" " " "				
-8.7	4.0		SHELL, small to medium size shell fragments, slightly sandy, slightly silty, gray	No Rec	washed				
				26	" " " "				
-12.2	7.5		SAND, silty (SM) with some gravel	12	" " " "				
				26	" " " "				
-14.7	10.0		SAND, fine quartz, silty, calcareous, many thin lenses medium hard calcareous sandstone (SH)	60	" " " "				
				60	" " " "				
-19.7	15.0			80	" " " "				
				80	" " " "				
					140# hammer with 30" drop used on 2.0' split spoon. (1-3/8" I.D. X 2" O.D.)				

DEPARTMENT OF THE ARMY
 JACKSONVILLE DISTRICT, CORPS OF ENGINEERS
 JACKSONVILLE, FLORIDA
 ST. LUCIE INLET, FLORIDA
DREDGING AND JETTY CONSTRUCTION
 CUTS 1 AND 2
 CORE BORING LOGS

DESIGN NO.
 DRAWN BY: JBL
 DATE: 1976
 SCALE: AS SHOWN
 DATED: DEC. 1977
 SHEET 18 OF 31