

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 9040 RGE: 475		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 771,780	
NAME OF DRILLER: J. Detloff		DATE: 16 May 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 46	
DEPTH DRILLED INTO ROCK: 18.0'		TOTAL DEPTH OF HOLE: 18.0'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-2.9 0.0		-2.9 Blows/0.5 Ft.	
SAND, fine to medium quartz, slightly shelly, gray, clean (SP)		SPLIT SPOON	
Shelly from -5.9 to -10.4		25% shell from -2.9 to -8.9	
Slightly silty gray, shelly from -10.4 to -11.9		30% shell from -8.9 to 11.9	
SAND, fine quartz, shelly silty to silty, shelly, gray (SP-SM)		30% shell	
SAND, clayey, shelly, gray (SC)		56% shell	
SAND, fine to medium quartz, silty, slightly shelly, gray (SP)		20% shell	
		140# hammer with 30" drop used on 2.0' split spoon (1-3/8" I.D. X 2" O.D.)	

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 9210 RGE: 510		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 771,780	
NAME OF DRILLER: J. Detloff		DATE: 16 May 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 48	
DEPTH DRILLED INTO ROCK: 17.5'		TOTAL DEPTH OF HOLE: 17.5'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-2.7 0.0		-2.7 Blows/0.5 Ft.	
SAND, fine to medium quartz and shell fragments, slightly silty, gray (SP)		SPLIT SPOON	
30% shell		washed	
SAND, fine to medium quartz, slightly silty to silty, dark brown, organic stain (SP-SM) 12% shell		35% shell	
SAND, fine to medium quartz, clean, tan (SP)		35% shell	
SAND, fine to medium quartz, slightly silty to silty, slightly calcareous, light gray, shelly (SP-SM) 35% shell		35% shell	
LIMESTONE, medium hard, porous, permeable, sandy in composition, fossiliferous		140# hammer with 30" drop used on 2.0' split spoon (1-3/8" I.D. X 2" O.D.)	

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 771,780 RGE: 1,030,155		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 771,780	
NAME OF DRILLER: J. Detloff		DATE: 16 May 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 50	
DEPTH DRILLED INTO ROCK: 16.5'		TOTAL DEPTH OF HOLE: 16.5'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-2.4 0.0		-2.4 Blows/0.5 Ft.	
SAND, fine to coarse, quartz and shell fragments, tan (SP)		SPLIT SPOON	
30% shell		washed	
SHELL, small size fragments, gray, slightly silty		140# hammer with 30" drop used on 2.0' split spoon (1-3/8" I.D. X 2" O.D.)	
SAND, fine quartz, very silty, shelly, dark gray (SC)		35% shell	
SAND, silty, shelly, dark gray (SP-SM) 30% shell		30% shell	

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 776,145 RGE: 1,030,887		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 776,145	
NAME OF DRILLER: J. Detloff		DATE: 28 Apr 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 79	
DEPTH DRILLED INTO ROCK: 22.4'		TOTAL DEPTH OF HOLE: 22.4'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-5.6 0.0		-5.6 Blows/0.5 Ft.	
SAND, medium to coarse shell fragments, tan (SP)		SPLIT SPOON	
65% shell		settled	
SAND, fine to medium, quartz and shell fragments, silty, compacted, calcareous, lenses & beds of soft to medium-hard calcareous sandstone, gray (SW-SM) 40% shell		DIAMOND 4 X 5-1/2 D.T. 43 min. H.P. 75 p.s.i.	
LIMESTONE (Coquina) hard, porous, permeable, massive bedded, composed of coarse quartz grains & shell fragments cemented with calcareous matrix, gray		DIAMOND 4 X 5-1/2 D.T. 100 p.s.i.	
medium hard, very permeable, solution riddled from -20.3 to -21.3		DIAMOND 4 X 5-1/2 D.T. 28 min. H.P. 100 p.s.i.	
very permeable, very sandy, in composition, riddled with solution holes, seams with medium hard limestone, from -24.1 to -30.0		DIAMOND 4 X 5-1/2 D.T. 18 min. H.P. 100 p.s.i.	
SAND, calcareous, fine to medium, composed of shell fragments, tan (SP) 35% shell		SPLIT SPOON	
Fine to medium quartz, gray, shelly, from -8.2 to -12.7		25% shell	
SAND, fine quartz, silty, slightly shelly, gray, (SP) medium hard calcareous slightly silty lens from -13.9 to -14.2 45% shell		SILT, dark brown, slightly clayey (MH)	
Bed of medium hard limestone sandy in composition from -16.2 to -16.7		LIMESTONE (Coquina) composed of shell and quartz grains cemented with calcareous matrix, porous, permeable, massive, bedded, gray, medium hard, very fossiliferous, very sandy in composition, poorly consolidated from -19.7 to -21.7	
SAND, fine to medium, slightly silty, calcareous, shelly, lenses of calcareous sandstone from -21.7 to -26.2 (SP)		Gray, clean, from -26.2 to -30.0 (SP-SM) 35% shell	

DRILLING LOG		INSTALLATION	
PROJECT: ST. LUCIE INLET		DIVISION: South Atlantic	
LOCATION: STA: 775,530 RGE: 1,031,119		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 775,530	
NAME OF DRILLER: J. Mason		DATE: 9/10/70	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 56	
DEPTH DRILLED INTO ROCK: 16.0'		TOTAL DEPTH OF HOLE: 16.0'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-4.1 0.0		-4.1	
SAND, fine to medium, quartz, very shelly, tan (SP)		2" Sampler	
very fine to fine, gray, no shells -9.1 to -13.9		2" Sampler	
calcareous, gray, shelly -13.5 to -14.1		DIAMOND NX D.T. 28 min H.P. 0-100 psi.	
LIMESTONE, medium hard porous, permeable, fossiliferous, sandy, gray, dense, cemented, thin to medium bedded		DIAMOND NX D.T. 33 min. H.P. 75 p.s.i.	
NOTES:			
1. NX casing set to -15.1			
2. Hole backfilled with sand upon completion.			

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 775,738 RGE: 1,031,233		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 775,738	
NAME OF DRILLER: J. Detloff		DATE: 29 Apr 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 46	
DEPTH DRILLED INTO ROCK: 24.0'		TOTAL DEPTH OF HOLE: 24.0'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-6.7 0.0		-6.7 Blows/0.5 Ft.	
SAND, calcareous, fine to medium, composed of shell fragments, tan (SP) 35% shell		SPLIT SPOON	
Fine to medium quartz, gray, shelly, from -8.2 to -12.7		25% shell	
SAND, fine quartz, silty, slightly shelly, gray, (SP) medium hard calcareous slightly silty lens from -13.9 to -14.2 45% shell		SILT, dark brown, slightly clayey (MH)	
Bed of medium hard limestone sandy in composition from -16.2 to -16.7		LIMESTONE (Coquina) composed of shell and quartz grains cemented with calcareous matrix, porous, permeable, massive, bedded, gray, medium hard, very fossiliferous, very sandy in composition, poorly consolidated from -19.7 to -21.7	
SAND, fine to medium, slightly silty, calcareous, shelly, lenses of calcareous sandstone from -21.7 to -26.2 (SP)		Gray, clean, from -26.2 to -30.0 (SP-SM) 35% shell	

DRILLING LOG		INSTALLATION	
PROJECT: St. Lucie Inlet		DIVISION: South Atlantic	
LOCATION: STA: 775,738 RGE: 1,031,233		JACKSONVILLE DISTRICT	
DRILLING AGENCY: Corps of Engineers		HOLE NO.: 775,738	
NAME OF DRILLER: J. Detloff		DATE: 29 Apr 76	
DIRECTION OF HOLE: VERTICAL		ELEVATION GROUND WATER: Tidal	
THICKNESS OF OVERBURDEN: 0		TOTAL CORE RECOVERY FOR BORING: 46	
DEPTH DRILLED INTO ROCK: 24.0'		TOTAL DEPTH OF HOLE: 24.0'	
CLASSIFICATION OF MATERIALS		REMARKS	
ELEVATION DEPTH LEGEND		CORRECTION SAMPLE NO.	
-6.7 0.0		-6.7 Blows/0.5 Ft.	
SAND, calcareous, fine to medium, composed of shell fragments, tan (SP) 35% shell		SPLIT SPOON	
Fine to medium quartz, gray, shelly, from -8.2 to -12.7		25% shell	
SAND, fine quartz, silty, slightly shelly, gray, (SP) medium hard calcareous slightly silty lens from -13.9 to -14.2 45% shell		SILT, dark brown, slightly clayey (MH)	
Bed of medium hard limestone sandy in composition from -16.2 to -16.7		LIMESTONE (Coquina) composed of shell and quartz grains cemented with calcareous matrix, porous, permeable, massive, bedded, gray, medium hard, very fossiliferous, very sandy in composition, poorly consolidated from -19.7 to -21.7	
SAND, fine to medium, slightly silty, calcareous, shelly, lenses of calcareous sandstone from -21.7 to -26.2 (SP)		Gray, clean, from -26.2 to -30.0 (SP-SM) 35% shell	

NOTE: FOR CORE BORING NOTES, SEE SHEET 18.

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 ENG: [Signature]  
 INV NO: DAC  
 DATED: [Date]  
 SCALE: AS SHOWN  
 DATED: DEC. 1977  
 SHEET 19 OF 31