SWG Form 267(C)
28 Jan 1965

PROJECT: Galveston Harbor and channel

LOCATION: Galveston, Texas

TEST DATA SUMMARY

BORING NO. 3st-81

DATE DRILLED

FIELD NO.	DEPTH	CLASSIFICATION ELEVATION TOP BORING	SYMBOL	CONSISTENCY	POCKET (1) PENETROMETER	STAN. PENET. BLOWS/FT (2)	MOISTURE CONTENT %	DRY DENSITY p. c. f.	L.L.	P.L.	BAR L.S.	SIEVE ANALYSIS PERCENT GRVL	SAND	FINES	INIT. WT.	ACC. WT. RTND. SIEVE NO. (3) NO. 4	NO. 10	NO. 40	NO. 200
	0-34.5																		
J-1	34.5-36.5	Gray, Brown Clay 34.5-47.5	CH				160.7												
J-2	36.5-38.5						147.5				22.0	0	4	96	50	0	0	0	2
C-1	38.5-40			ST	1.75		36.4	85											
C-2	40-42.5			ST	1.75		36.3	85											
C-3	42.5-45			VST	2.00		32.5	90											
C-4	45-47.5			VST	2.00		32.1	90			23.0	0	0	100	50	0	0	0	0
C-5	47.5-50	Gray Clay 47.5 - 52.5	CL	H	4.25		20.2	107			8.0	0	0	100	50	0	0	0	0
C-6	50-52.5			H	4.50		18.7	111			10.0	0	0	100	50	0	0	0	0
		Tide +2.5																	

CONSISTENCY — COHESIVE SOILS: S Soft, M Medium, ST Stiff, VST Very Stiff, H Hard

CONSISTENCY — COHESIONLESS SOILS: VL Very Loose, L Loose, M Medium, D Dense, VD Very Dense

(1) Tons/Sq.Ft. Unconfined Compressive Strength
(2) Split Barrel Sampler
(3) Acc. Wt. Rtnd. ÷ Init. Wt. x 100 = % Rtnd.

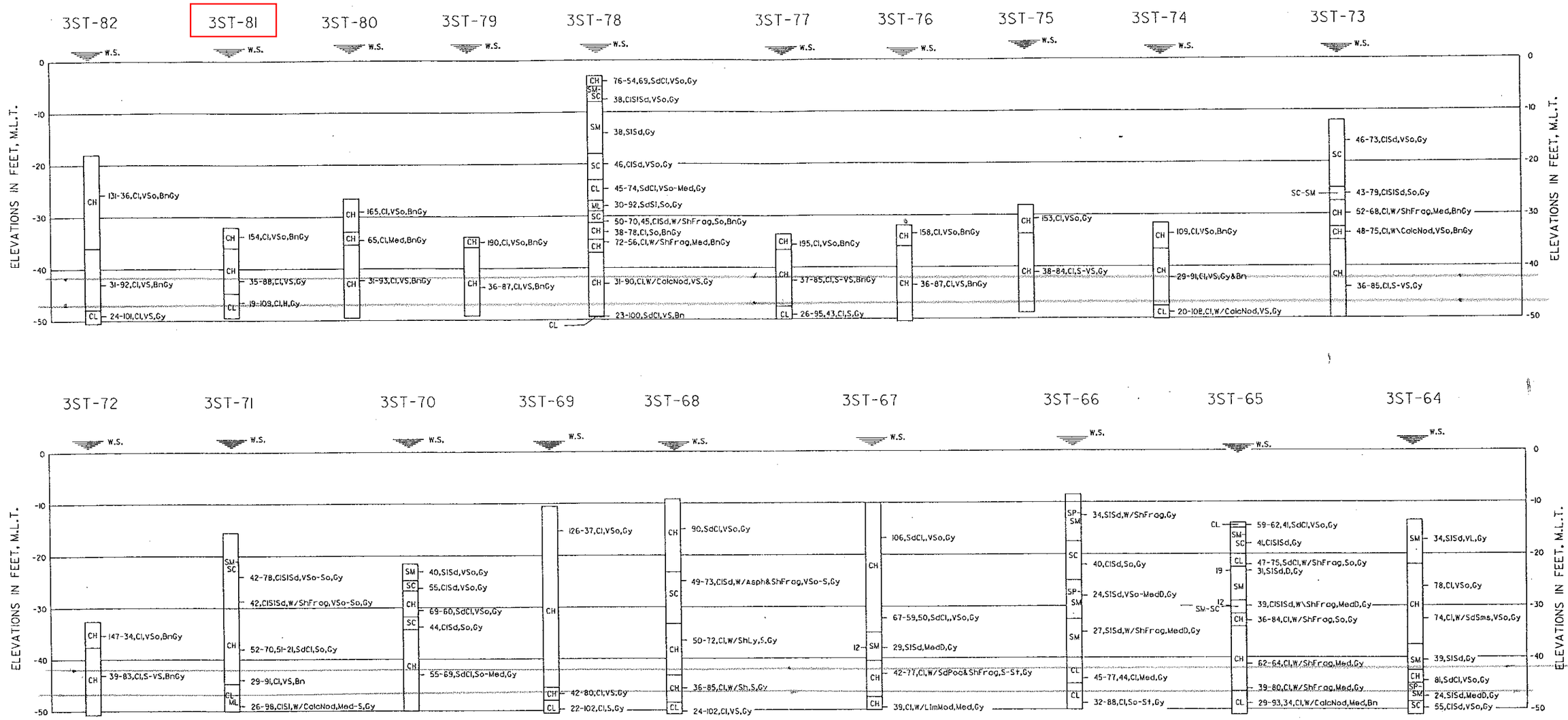
BORING NO. 3st-81

Hole No. 3ST-81

DRILLING LOG	DIVISION Southwestern	INSTALLATION Galv Dist, Eng Div	SHEET OF SHEETS

1. PROJECT Galveston Harbor and Channel	10. SIZE AND TYPE OF BIT
2. LOCATION (Coordinates or Station) Galveston, Texas	11. DATUM FOR ELEVATION SHOWN (TBM or MSL)
3. DRILLING AGENCY U. S. Army Corps of Engineers	12. MANUFACTURER'S DESIGNATION OF DRILL
4. HOLE NO. (As shown on drawing title and file number) 3ST-81	13. TOTAL NO. OF OVERBURDEN SAMPLES TAKEN — DISTURBED 2 Jars — UNDISTURBED 6 Cont
5. NAME OF DRILLER Curtis	14. TOTAL NUMBER CORE BOXES
6. DIRECTION OF HOLE ☐ VERTICAL ☐ INCLINED ____ DEG. FROM VERT.	15. ELEVATION GROUND WATER
	16. DATE HOLE — STARTED 14 Dec — COMPLETED 14 Dec 1965
7. THICKNESS OF OVERBURDEN	17. ELEVATION TOP OF HOLE
8. DEPTH DRILLED INTO ROCK	18. TOTAL CORE RECOVERY FOR BORING %
9. TOTAL DEPTH OF HOLE 52.5	19. SIGNATURE OF INSPECTOR

ELEVATION a	DEPTH b	LEGEND c	CLASSIFICATION OF MATERIALS (Description) d	% CORE RECOVERY e	BOX OR SAMPLE NO. f	REMARKS (Drilling time, water loss, depth of weathering, etc., if significant) g	
0.0	34.5		Water				
34.5	36.5		Gray clay, v/soft Weight of 4 rods, 1 tube			Jar 1	0.0
36.5	38.5		Gray clay, weight 4 rods 1 tube			Jar 2	0.0
38.5	40.0		Brown clay, stiff			Cont. 1	1.25
40.0	42.5		Brown clay, stiff			Cont. 2	1.50
42.5	45.0		Brown clay, stiff			Cont. 3	1.25
45.0	47.5		Brown clay, stiff			Cont. 4	1.50
47.5	50.0		Gray silty clay, hard			Cont. 5	+4.50
50.0	52.5		Gray silty clay, hard			Cont. 6	+4.50
			BOTTOMED				
			Tide +2.5				



NOTES;

1. SOILS HAVE BEEN CLASSIFIED IN ACCORDANCE WITH MILITARY STANDARD 619B "UNIFIED SOIL CLASSIFICATION SYSTEM FOR ROADS, AIRFIELDS, EMBANKMENTS AND FOUNDATIONS." CONSISTENCY OF SOILS SUCH AS SOFT, MEDIUM, HARD, LOOSE, DENSE, ETC., ARE RELATIVE TERMS BASED ON ESTIMATED UNDISTURBED SHEAR STRENGTH OF THE MATERIAL AS DETERMINED BY VISUAL CLASSIFICATION POCKET PENETROMETER TESTS AND PENETRATION RESISTANCE DURING SAMPLING.
2. FIGURES TO THE RIGHT OF BORING LOGS ARE WATER CONTENTS IN PERCENT OF THE DRY WEIGHT, DRY DENSITY, LIQUID LIMIT, PLASTIC LIMIT, AND BAR LINEAR SHRINKAGE. (MC-UDW),(LL-PL),(B.L.S.)• FIGURES TO THE LEFT OF BORING LOGS ARE BLOWS PER FOOT OF PENETRATION FROM STANDARD PENETRATION TESTING.
3. BORINGS WERE DRILLED USING WET ROTARY DRILLING TECHNIQUES AND UNDISTURBED SAMPLES WHERE RECOVERED WITH A 3-INCH DIAMETER THIN WALL SAMPLER WHERE COHESIVE MATERIALS WERE ENCOUNTERED. WHERE COHESIONLESS MATERIALS WERE ENCOUNTERED, DISTURBED SAMPLES WERE TAKEN WITH A SPLIT SPOON SAMPLER DURING PERFORMANCE OF STANDARD PENETRATION TESTING.

VISUAL CLASSIFICATIONS

Bn Brown(ish)	Med Medium
Calc Calcereous	S Stiff
Cl Clay(ey)	Sd Sand(y)
D Dense	Sh Shell(y)
Frag Fragment(s)	Sl Silty
Gy Gray(ish)	So Soft
H Hard	V Very
L Loose	W With
Nod Nodules	W.S. Water Surface

LABORATORY CLASSIFICATION

CH INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS.
CL INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, LEAN CLAYS.
ML INORGANIC SILTS AND VERY FINE SANDS, WITH SLIGHT PLASTICITY.
SC CLAYEY SANDS, SAND-CLAY MIXTURES.
SM SILTY SANDS, SAND-SILT MIXTURES.
SP POORLY GRADED SANDS OR GRAVELLY SANDS, LITTLE OR NO FINES.

NOTE: BORINGS DRILLED DECEMBER 1965
LOCATIONS OF BORINGS SHOWN ON PLATE FD-38

HOUSTON-GALVESTON NAVIGATION CHANNELS, TEXAS

GALVESTON CHANNEL

BORING LOGS

U.S. ARMY ENGINEER DISTRICT, GALVESTON, TEXAS

TO ACCOMPANY ENGINEERING SUPPLEMENT
TO LIMITED REEVALUATION REPORT
DATED: X