Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-204	3	6	48.52		100	98	93	80
86-204	9	18	27.32		100	96	79	52
86-204	17	36	116.03			100	99	89
86-204	19	45	110.26				100	36
86-204	20	50	81.47				100	42
86-204	22	60	87.47				100	71
86-204	23	65	137.14		100	99	95	59
86-204	25	68	65.65		100	99	99	78
86-204	26	70	87.60				100	34
86-204	28	80	80.64				100	3
86-204	31	95	46.11	100	90	88	85	79
86-204	32	98	38.82		100	95	73	41
86-204	34	100	80.78				100	31
86-205	4	8	40.93		100	93	83	64
86-205	8	16	39.88	10	99	94	85	71
86-205	17	35	86.93			100	99	25
86-205	19	45	103.71			100	98	8
86-205	21	54	46.54			100	99	78
86-205	25	70	74.78				100	3
86-205	27	80	86.55		100	99	92	9
86-206	8	16	40.05	100	98	92	86	73
86-206	15	30	83.50			100	59	3
86-206	18	45	98.56		100	99	54	2
86-206	21	60	77.63			100	98	5

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES

MCCLELLAND ENGINEERS

REPRODUCED AT GOVERNMENT EXPENSE

McCLELLAND ENGINEERS

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-206	23	70	97.24	100	99	99	93	15
86-206	26	85	113.04		100	99	87	16
86-206	29	96	43.97		100	99	91	46
86-207	11	24	115.72			100	91	30
86-207	14	35	75.61			100	80	3
86-207	17	55	100.17		100	99	72	8
86-207	21	76	38.59		100	99	75	45
86-208	5	8	133.70		100	99	71	7
86-208	8	16	35.96	100	99	94	80	66
86-208	12	24	29.29	100	97	92	64	34
86-208	15	30	97.27			100	76	2
86-208	18	45	119.30		100	99	56	2
86-208	21	60	89.73		100	98	40	7
86-208	23	70	125.15			100	91	6
86-208	27	81	81.23			100	99	4
86-208	29	84	29.60	100	99	95	70	35
86-208	33	95	71.36			100	99	6
86-209	6	10	116.39			100	97	7
86-209	10	24	31.53		100	93	61	30
86-209	13	35	97.58			100	86	7
86-209	16	50	119.79	100	99	93	14	4
86-209	22	78	74.92				100	73
86-209	23	80	101.93				100	55

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES

PLATE 12

REPRODUCED AT GOVERNMENT EXPENSE

LOG OF BORING NO. 86-206

PROPOSED DOCK FACILITIES
BEAUMONT RESERVE FLEET
BEAUMONT, TEXAS

LOCATION : See Plate 1

SURFACE EL

DEPTH, FT	SYMBOL	SAMPLES	DESCRIPTION	BLOWS PER FT	% PASSING NO. 200 SIEVE	UNIT DRY WT LB PER CU FT	PENETROMETER
	1 T		Fill: Shell				
	2 T		Firm black clay				1.1
5	3 Q		- with organic material 4' to 20'				
	4 Q		- stiff, 4' to 6', 18' to 20' and 22' to 24'				
10	5 Q						
	6 Q						
	7 Q						
15	8 Q		- very soft, 14' to 16'				
	9 T						
20	10 Q		- soft with wood fragments, 20' to 22'				
	11 Q						
	12 T						
25	13 Q						0.8
	14 Q						1.7
30	15 T		Medium dense light gray fine sand				
35	16 T	X		5-5-5			
40	17 T	X		4-7-9			
			- fine to medium 43' to 53'				
45	18 T	X		7-7-9			
			- loose 48' to 50'				
50	19 T	X		6-5-4			

WATER CONTENT, %: Plastic Limit — Natural — Liquid Limit; 20, 40, 60

UNDRAINED SHEAR STRENGTH: KIPS PER SQ FT 0.5, 1.0, 1.5, 2.0, 2.5; KILOPASCALS 25, 50, 75, 100, 125

(Continued on Plate 4b)

JOB NO. : 0187-0500

SAMPLER : 3-in. Thin-walled Tube and 2-in. Split-barrel Sampler

DRILLING METHOD : Wet Rotary

STRENGTH LEGEND
- ● Unconfined Compression
- ▲ Unconsolidated-Undrained Triaxial Compression
- ✦ Miniature Vane
- (open symbols above indicate remolded tests)
- ✦ Torvane
- ⊠ Hand Penetrometer

McCLELLAND ENGINEERS

LOG OF BORING NO. 86-206 (Cont'd)

PROPOSED DOCK FACILITIES
BEAUMONT RESERVE FLEET
BEAUMONT, TEXAS

DEPTH, FT	SYMBOL	SAMPLES	(Continued from Plate 4a)	BLOWS PER FT	% PASSING NO. 200 SIEVE	UNIT DRY WT LB PER CU FT	WATER CONTENT, % (Plastic Limit / Natural / Liquid Limit; 20 40 60)	UNDRAINED SHEAR STRENGTH KIPS PER SQ FT (0.5 1.0 1.5 2.0 2.5) / KILOPASCALS (25 50 75 100 125)	PENETROMETER
			Medium dense light gray fine sand - fine to medium to 53'						
55	20 J			6-7-10					
			- dense 58' to 60' and 70' to 80'						
60	21 J			10-18-26					
			- fine to medium with clay seams 61' to 71'						
65	22 J			5-6-7					
70	23 J			2-6-9					
75	24 J			16-25-27					
80	25 J			11-15-23					
			- with clay seams below 82'						
85	26 J			6-8-10					
			Stiff gray clay						
90	27 Q							⊠	1.8
	28 Q		- with shell fragments to 92'					⊠	1.8
			Medium dense light gray fine sand						
95	29 J		- with clay layers and wood fragments 94' to 96'	5-7-10					
100	30 J			8-12-18					

Driller: C. Peltier
Technician: J. McCoy
Drilling Equipment: Truck-mounted
Failing 36

JOB NO. : 0187-0500
COMPLETION DEPTH : 100 ft
DATE : January 4, 1987
DEPTH TO WATER IN BORING : 1.8' at high tide
CAVED AT : 29.8 ft
DATE : January 5, 1987

SAMPLER : 3-in. Thin-walled Tube and 2-in. Split-barrel Sampler

DRILLING METHOD : Wet Rotary

STRENGTH LEGEND
- ● Unconfined Compression
- ▲ Unconsolidated-Undrained Triaxial Compression
- ✦ Miniature Vane
- (open symbols above indicate remolded tests)
- ⊕ Torvane
- ⊠ Hand Penetrometer

McCLELLAND ENGINEERS

PROJECT: DOCK FACILITY, RESERVE FLEET, BEAUMONT, TX

TEST ASSIGNMENT SHEET

CONTRACT NO.: DACW64-87-D-0001
DELIVERY ORDER NO. 0004
DATE: 1/20/87 ASSIGNED BY: KJH

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	Visual Classification (0015)	Moisture Content Test (0016)	Unit Dry Weight Test (0017)	Unit Wet Weight Test (0018)	Specific Gravity of Solids Test (0019)	Liquid Limit Test (0020)	Plastic Limit Test (0021)	Bar Linear Shrinkage (0022)	Abbreviated Mechanical Analysis Test (0023)	Complete Mechanical Analysis Test (0024)	Hydrometer Analysis Test (0025)	Standard Compaction Test (0026)	Modified Compaction Test (0027)	Unconfined Compression Test (0028)	Torvane Shear (0029)	Soil Salinity (0030)	Remarks
86-206	1J	1-2	X	X															Sh. Fl. (Rd. Base)
	2J	3-4	X	X															Med. Bl. Cl.
	3Q	5-6	X	X															" "
	4Q	7-8	X	X	X			X	X						X				" "
	5Q	9-10	X	X															" "
	6Q	11-12	X	X															" "
	7Q	13-14	X	X															Med "
	8Q	15-16	X	X				X	X		X				X				V. So. "
	9J	17-18	X	X															So. "
	10Q	19-20	X	X															" "
	11Q	21-22	X	X															" "
	12J	23-24	X	X															" "
	13Q	25-26	X	X	X			X	X						X				" "
	14Q	27-28	X	X															So. Bl. Cl.
	15J	29-30	X	X							X								Lt. Gy. Sd.
	16J	34-35	X	X															"
	17J	39-40	X	X															"
	18J	44-45	X	X							X								"
	19J	49-50	X	X															"
	20J	54-55	X	X															"
	21J	59-60	X	X							X								"
86-206	22J	64-65	X	X															Lt. Gy. Sd.

PROJECT: DOCK FACILITY, RESERVE FLT, BERKNOTT, TX

TEST ASSIGNMENT SHEET

CONTRACT NO.: DACW64-87-D-0001
DELIVERY ORDER NO. 0004
DATE: _____ ASSIGNED BY: _____

BORING NO.	SAMPLE NO.	SAMPLE DEPTH	Visual Classification (0015)	Moisture Content Test (0016)	Unit Dry Weight Test (0017)	Unit Wet Weight Test (0018)	Specific Gravity of Solids Test (0019)	Liquid Limit Test (0020)	Plastic Limit Test (0021)	Bar Linear Shrinkage (0022)	Abbreviated Mechanical Analysis Test (0023)	Complete Mechanical Analysis Test (0024)	Hydrometer Analysis Test (0025)	Standard Compaction Test (0026)	Modified Compaction Test (0027)	Unconfined Compression Test (0028)	Torvane Shear (0029)	Soil Salinity (0030)	Remarks
86-206	23J	69-70	X	X						X									Lt. Gy. Sd.
	24J	74-75	X	X															"
	25J	79-80	X	X															"
	26J	84-85	X	X						X									Lt. Gy. Sd.
	27Q	89-90	X	X	X			X	X						X				S. Gy. Cl.
	28Q	91-92	X	X															S. Gy. Cl.
	29J	95-96	X	X						X									Lt. Gy. Sd
86-206	30J	99-100	X	X															"
																			"
																			Lt. Gy. Sd

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
86-206	1J	1-2	Shell w/sandy clay pockets		11														
	2J	3-4	Stiff black clay w/organic matter	OH	95														
	3Q	5-6	Soft black clay w/organic matter	OH	126														
	4Q	7-8	Soft dark gray clay w/organic matter	OH	218	23			234	110							0.17		
	5Q	9-10	Soft black organic clay	OH	287														
	6Q	11-12	Soft black clay w/organic matter	OH	148														
	7Q	13-14	Soft black clay w/organic matter	OH	231														
	8Q	15-16	Soft dark gray organic clay	OH	117				162	62		Plate 11					0.24		
	9J	17-18	Soft black clay w/organic matter	OH	184														
	10Q	19-20	Soft black clay w/organic matter	OH	157														
	11Q	21-22	Soft gray clay w/organic matter	OH	171														
	12J	23-24	Soft gray clay w/organic matter and pieces of wood	OH	127														
	13Q	25-26	Firm brown clay w/ferrous stains	CH	46	72			99	35							0.39		
	14Q	27-28	Stiff gray sandy clay	CL	21														
	15J	29-30	Gray silty fine sand	SP	25							Plate 11							
	16J	34-35	Gray clayey sand	SC	23														
	17J	39-40	Brown fine sand	SP	23														
	18J	44-45	Brown fine to medium sand	SP	20							Plate 11							
	19J	49-50	Brown fine sand	SP	22														
	20J	54-55	Light gray silty fine sand	SM	26														
	21J	59-60	Brown fine sand	SP	23							Plate 11							
	22J	64-65	Gray clayey sand w/clay pockets	SC	23														

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS
Delivery Order No. 0004
Proposed Dock Facilities
Beaumont Reserve Fleet

BORING NUMBER	SAMPLE NUMBER/ TYPE	SAMPLE DEPTH (Feet)	VISUAL CLASSIFICATION	U S C	MOISTURE CONTENT (%)	UNIT DRY WEIGHT (pcf)	UNIT WET WEIGHT (pcf)	SPECIFIC GRAVITY OF SOLIDS	LIQUID LIMIT (%)	PLASTIC LIMIT (%)	BAR LINEAR SHRINKAGE (%)	ABBREVIATED MECHANICAL ANALYSIS	COMPLETE MECHANICAL ANALYSIS	HYDROMETER ANALYSIS	STANDARD COMPACTION TEST	MODIFIED COMPACTION TEST	UNDRAINED SHEAR STRENGTH (ksf)*	TORVANE SHEAR (ksf)	SOIL SALINITY (Parts per Thousand)
86-206	23J	69-70	Gray clayey sand w/ band s. seams	SC	36							Plate 12							
	24J	74-75	Brown fine sand	SP	21														
	25J	79-80	Brown fine sand	SP	22														
	26J	84-85	Gray clayey sand w/clay pockets	SC	21							Plate 12							
	27Q	89-90	Stiff brown clay w/shell fragments and silt partials	CH	51	72			70	27							1.59		
	28Q	91-92	Stiff gray clay	CH	47														
	29J	95-96	Firm gray clay w/silty sand pockets and organic matter	~~SC~~ CH	41							Plate 12	#200 = 46%						
	30J	99-100	Gray silty fine sand	SM	27														

* Based on Unconfined Compression Test

SUMMARY OF TEST RESULTS

Delivery Order No. 0004
Proposed Dock Facilities
Beaumont Reserve Fleet

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer 0.375	#4	#10	#40	#200
86-204	3	6	48.52		100	98	93	80
86-204	9	18	27.32		100	96	79	52
86-204	17	36	116.03			100	99	89
86-204	19	45	110.26				100	36
86-204	20	50	81.47				100	42
86-204	22	60	87.47				100	71
86-204	23	65	137.14		100	99	95	59
86-204	25	68	65.65		100	99	99	78
86-204	26	70	87.60				100	34
86-204	28	80	80.64				100	3
86-204	31	95	46.11	100	90	88	85	79
86-204	32	98	38.82		100	95	73	41
86-204	34	100	80.78				100	31
86-205	4	8	40.93		100	93	83	64
86-205	8	16	39.88	10	99	94	85	71
86-205	17	35	86.93			100	99	25
86-205	19	45	103.71			100	98	8
86-205	21	54	46.54			100	99	78
86-205	25	70	74.78				100	3
86-205	27	80	86.55		100	99	92	9
86-206	8	16	40.05	100	98	92	86	73
86-206	15	30	83.50			100	59	3
86-206	18	45	98.56		100	99	54	2
86-206	21	60	77.63			100	98	5

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES

Boring Number	Sample Number	Depth, ft	Weight of Dry Soil, gms (Total sample)	Percent Finer				
				0.375	#4	#10	#40	#200
86-206	23	70	97.24	100	99	99	93	15
86-206	26	85	113.04		100	99	87	16
86-206	29	96	43.97		100	99	91	46
86-207	11	24	115.72			100	91	30
86-207	14	35	75.61			100	80	3
86-207	17	55	100.17		100	99	72	8
86-207	21	76	38.59		100	99	75	45
86-208	5	8	133.70		100	99	71	7
86-208	8	16	35.96	100	99	94	80	66
86-208	12	24	29.29	100	97	92	64	34
86-208	15	30	97.27			100	76	2
86-208	18	45	119.30		100	99	56	2
86-208	21	60	89.73		100	98	40	7
86-208	23	70	125.15			100	91	6
86-208	27	81	81.23			100	99	4
86-208	29	84	29.60	100	99	95	70	35
86-208	33	95	71.36			100	99	6
86-209	6	10	116.39			100	97	7
86-209	10	24	31.53		100	93	61	30
86-209	13	35	97.58			100	86	7
86-209	16	50	119.79	100	99	93	14	4
86-209	22	78	74.92				100	73
86-209	23	80	101.93				100	55

RESULTS OF ABBREVIATED MECHANICAL SIEVE ANALYSES