SIEVE ANALYSIS WORK SHEET

Project: 20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99- 85U
5" UNDIST.

Date: 18 OCT 1999
Sheet No:

Boring No:

U.S. STD Sieve No.	Opening mm.	Sample No. 3			Sample No.			Sample No.		
		Sample Elev.			Sample Elev.			Sample Elev.		
		Sample Wt. 184.3 gms			Sample Wt. gms			Sample Wt. gms		
		Sieve Wt. 145.5 gms			Sieve Wt. gms			Sieve Wt. gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	P-	498							
3/4"	19.1	C-	BO							
1/2"	12.7									
3/8"	9.52									
4	4.76									
6	3.36									
10	2.00									
12	1.68									
16	1.19									
18	1.00									
20	0.84									
30	0.59									
35	0.50									
40	0.42	0.0		100.0						
50	0.297									
60	0.250	0.3		99.8						
70	0.210									
80	0.177	5.1		97.2						
100	0.149									
120	0.125	50.6		72.5						
140	0.105									
[illegible]	[illegible]	145.2		21.2						

SIEVE ANALYSIS WORK SHEET

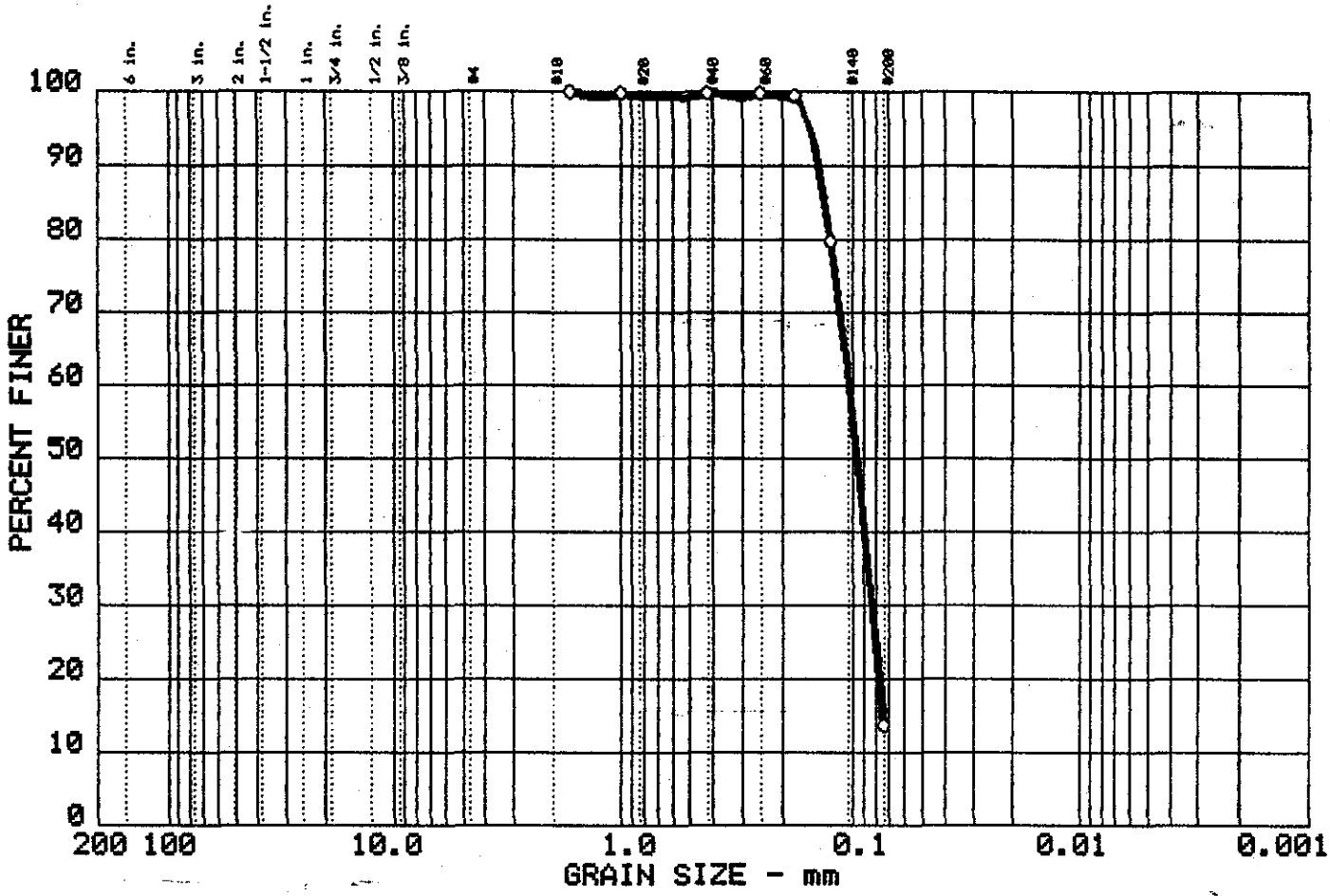
Project:	20-02 ARANSAS WILDLIFE REFUSE PORT LAVACA, TEXAS (99) BOR: 99- 85U 5" UNDIST.	Date: Sheet No:

Boring No:

U.S. STD Sieve No.	Opening mm.	Sample No. 4			Sample No. 7			Sample No. 10		
		Sample Elev.			Sample Elev.			Sample Elev.		
		Sample Wt. 152.9 gms			Sample Wt. 128.6 gms			Sample Wt. 148.5 gms		
		Sieve Wt. 133.7 gms			Sieve Wt. 110.8 gms			Sieve Wt. 110.90 gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	PAN	187		PAN	266		PAN	76	
3/4"	19.1	Cup	63		Cup	43		Cup	78	
1/2"	12.7									
3/8"	9.52									
4	4.76									
6	3.36									
10	2.00									
12	1.68				0.67	SHELLS				
16	1.19									
[redacted]	1.00	0.19			0.67			0.03		
20	0.84									
30	0.59									
35	0.50									
[redacted]	0.42	0.23			0.72			0.06		
50	0.297									
[redacted]	0.250	0.28			0.78			0.12		
70	0.210									
[redacted]	0.177	0.79			2.64			0.62		
100	0.149									
[redacted]	0.125	30.76			8.87			14.82		
140	0.105									
[redacted]	0.074	131.9			103.38					
230	0.062							104.23		
[redacted]		133.5			110.6			110.85		
Total										

Technician:	Computed:	Checked:

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
o	6	0.0	0.0	86.3	13.7	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
o			0.13	0.10	0.10	0.083	0.0746			

MATERIAL DESCRIPTION	USCS	AASHTO
o SP FINE		

Project No.: 20-02
Project: G.I.W.W. ARANSAS WILDLIFE REFUSE
o Location: 99-85-U

Date: 12NOVEMBER1999

Remarks:
TECH V.J.L.
PAN 187
CUP 63
SAMPLE NO. 4

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.4

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 6

Date: 12NOVEMBER1999
Project No.: 20-02
Project: G.I.W.W. ARANSAS WILDLIFE REFUSE

Sample Data

Location of Sample: 99-85-U
Sample Description: SP FINE
USCS Class:
AASHTO Class:
Liquid limit:
Plasticity index:

Notes

Remarks: TECH V.J.L. PAN 187
CUP 63 SAMPLE NO. 4
Fig. No.: 4

Mechanical Analysis Data

	Initial
Dry sample and tare=	152.90
Tare =	0.00
Dry sample weight =	152.90

Tare for cumulative weight retained= 0

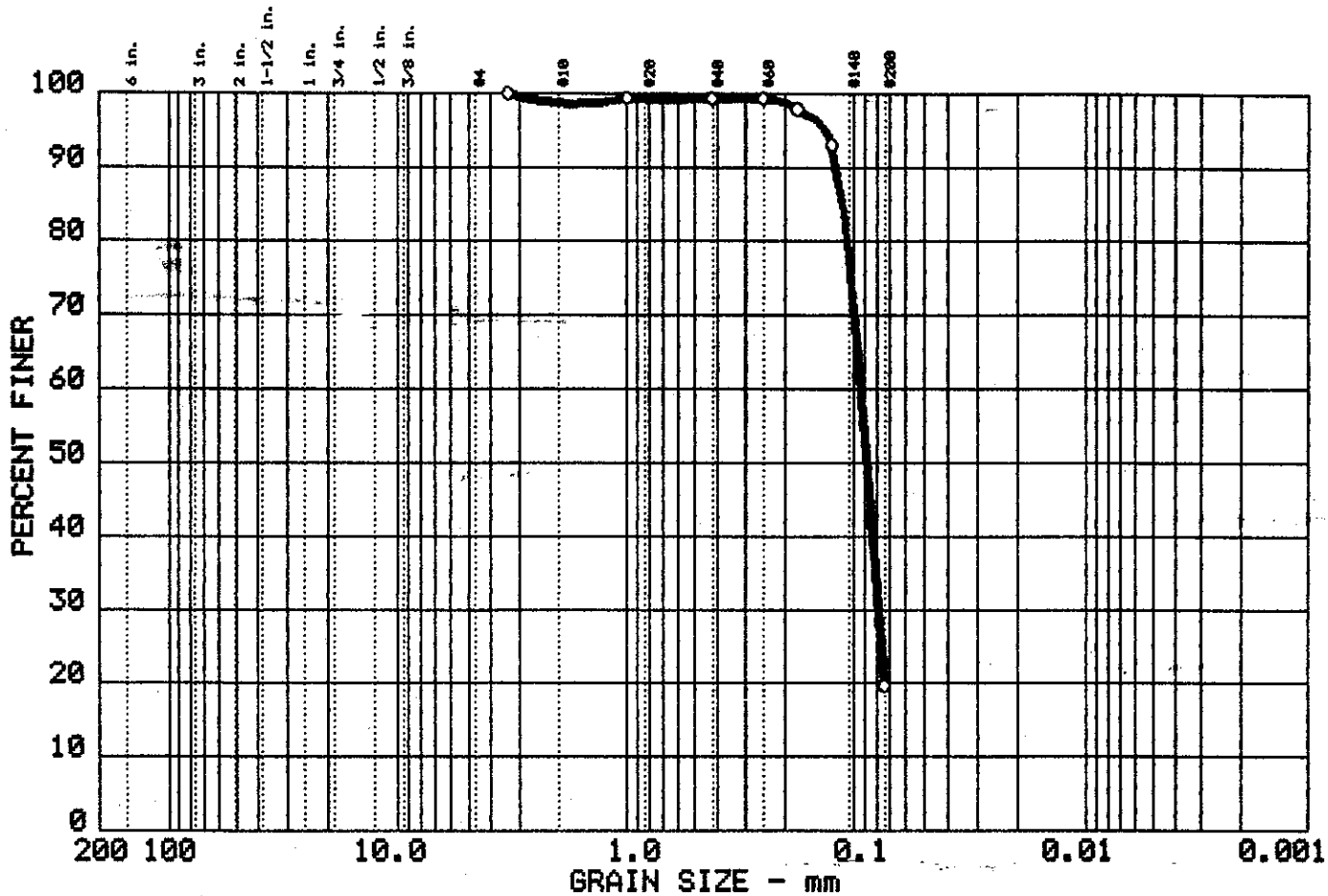
Sieve	Cumul. Wt. retained	Percent finer
R 12	0.00	100.0
R 18	0.19	99.9
R 40	0.23	99.8
R 60	0.28	99.8
R 80	0.79	99.5
R 120	30.76	79.9
R 200	131.90	13.7

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 86.3
% FINES = 13.7

D85= 0.13 D60= 0.104 D50= 0.096
D30= 0.0831 D15= 0.07464

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
o	7	0.0	0.0	80.4	19.6	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
o			0.11	0.09	0.09	0.078				

MATERIAL DESCRIPTION	USCS	AASHTO
o SM	*	*

Project No.: 20-02
Project: G.I.W.W. ARANSAN WILDLIFE REFUSE
o Location: 99-85U

Date: 12 NOVEMBER 1999

Remarks:
TECH. V.J.L.
PAN 266
CUP 43
SAMPLE NO. 7

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.7

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 7

Date: 12 NOVEMBER 1999
Project No.: 20-02
Project: G.I.W.W. ARANSAN WILDLIFE REFUSE

Sample Data

Location of Sample: 99-85U
Sample Description: SM
USCS Class: *
AASHTO Class: *
Liquid limit:
Plasticity index:

Notes

Remarks: TECH. V.J.L. PAN 266
CUP 43 SAMPLE NO. 7
Fig. No.: 7

Mechanical Analysis Data

	Initial
Dry sample and tare=	128.60
Tare =	0.00
Dry sample weight =	128.60

Tare for cumulative weight retained= 0

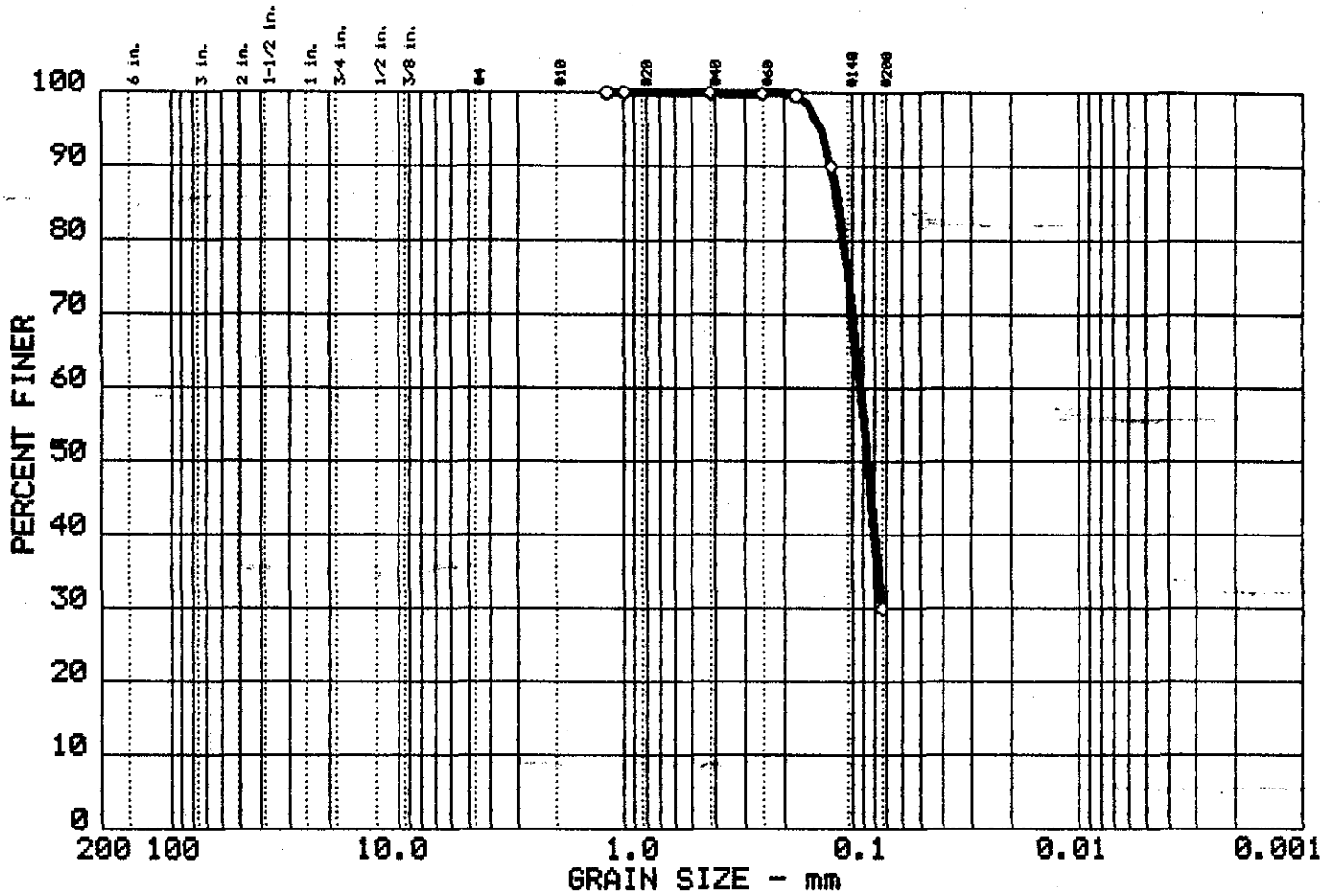
Sieve	Cumul. Wt. retained	Percent finer
R 6	0.00	100.0
R 18	0.67	99.5
R 40	0.72	99.4
R 60	0.78	99.4
R 80	2.64	97.9
R 120	8.87	93.1
R 200	103.38	19.6

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 80.4
% FINES = 19.6

D85= 0.11 D60= 0.093 D50= 0.087
D30= 0.0783

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
o	9	0.0	0.0	70.0	30.0	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
o			0.12	0.09	0.09					

MATERIAL DESCRIPTION	USCS	AASHTO
o SM	*	*

Project No.: 20-02
Project: G.I.W.W. ARANSNS WILDLIFE REFUSE
o Location: 99-85-U

Date: 15NOV99

Remarks:
TECH. V.J.L.
PAN-76
CUP-78
SAMPLE NO. 10

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.10

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 9

Date: 15NOV99
Project No.: 20-02
Project: G.I.W.W. ARANSNS WILDLIFE REFUSE

Sample Data

Location of Sample: 99-85-U
Sample Description: SM
USCS Class: *
AASHTO Class: *
Liquid limit:
Plasticity index:

Notes

Remarks: TECH. V.J.L. PAN-76
CUP-78 SAMPLE NO. 10
Fig. No.: 10

Mechanical Analysis Data

	Initial
Dry sample and tare=	148.80
Tare =	0.00
Dry sample weight =	148.80

Tare for cumulative weight retained= 0

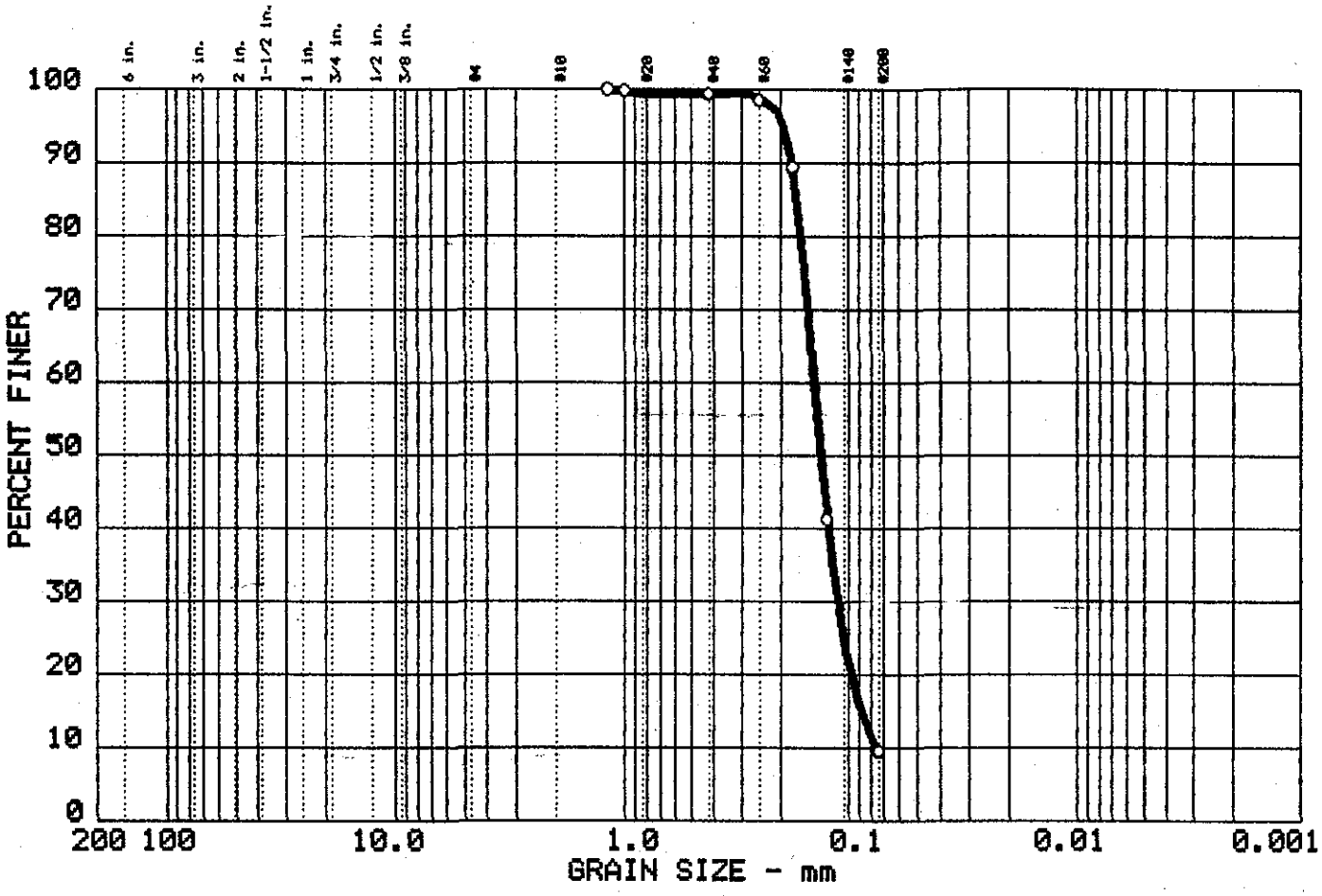
Sieve	Cumul. Wt. retained	Percent finer
R 16	0.00	100.0
R 18	0.03	100.0
R 40	0.06	100.0
R 60	0.12	99.9
R 80	0.62	99.6
R 120	14.82	90.0
R 200	104.23	30.0

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 70.0
% FINES = 30.0

D85= 0.12 D60= 0.092 D50= 0.086

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
o	10	0.0	0.0	90.5	9.5	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
o			0.17	0.14	0.13	0.113	0.0885	0.0752	1.19	1.9

MATERIAL DESCRIPTION	USCS	AASHTO
o SM	*	*

Project No.: 20-02
Project: G.I.W.W. ARANSAS WILDLIFE REFUSE
o Location: PORT LAVACA, TX.

Date: 15NOV99

Remarks:
TECH. V.J.L.
PAN-748
CUP-AZ
SAM. 13

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.13

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 10

Date: 15NOV99
Project No.: 20-02
Project: G.I.W.W. ARANSAS WILDLIFE REFUSE

Sample Data

Location of Sample: PORT LAVACA, TX.
Sample Description: SM
USCS Class: *
AASHTO Class: *
Liquid limit:
Plasticity index:

Notes

Remarks: TECH. V.J.L. PAN-748
CUP-AZ SAM. 13
Fig. No.: 13

Mechanical Analysis Data

	Initial
Dry sample and tare=	130.50
Tare =	0.00
Dry sample weight =	130.50

Tare for cumulative weight retained= 0

Sieve	Cumul. Wt. retained	Percent finer
R 16	0.00	100.0
R 18	0.23	99.8
R 40	0.71	99.5
R 60	1.78	98.6
R 80	13.84	89.4
R 120	76.59	41.3
R 200	118.06	9.5

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 90.5
% FINES = 9.5

D85= 0.17 D60= 0.142 D50= 0.133
D30= 0.1127 D15= 0.08851 D10= 0.07525
Cc = 1.1899 Cu = 1.8858

SIEVE ANALYSIS WORK SHEET

Project: 20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99- 85U
5" UNDIST.

Date: 10 Nov '99
Sheet No:

Boring No:

U.S. STD Sieve No.	Opening mm.	Sample No. 13			Sample No.			Sample No.		
		Sample Elev.			Sample Elev.			Sample Elev.		
		Sample Wt. 1305 gms			Sample Wt. gms			Sample Wt. gms		
		Sieve Wt. 118.7 gms			Sieve Wt. gms			Sieve Wt. gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	PAN	748							
3/4"	19.1	Cup	A2							
1/2"	12.7									
3/8"	9.52									
4	4.76									
6	3.36									
10	2.00									
12	1.68									
16	1.19									
[redacted]	1.00	.23								
20	0.84									
30	0.59									
35	0.50									
[redacted]	0.42	.71								
50	0.297									
[redacted]	0.250	1.78								
70	0.210									
[redacted]	0.177	13.84								
100	0.149									
[redacted]	0.125	76.59								
140	0.105									
[redacted]	0.074	118.06								
230	0.062									
[redacted]		118.66								
Total										

Technician:

Computed:

Checked:

Gauge #1

28° 07' 08.3" 96° 55' 22.8"

Wt. Depth 3.0

BORING LOG
FIELD DATA

Project GIWW ARANSAS Wildlife Site _____ Date 10/9/99

Location _____ Job No. 20-02

Drill Rig _____ Inspector Richards Operator Juneau Surface El -0.3 Boring No. 99-8511

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Blows		CLASSIFICATION AND REMARKS
1	10/9			0.0	3.5	0.0	3.0	5" Undist			3.0rec vSo Gr CH
2				4.0	7.5	4.0	7.5				3.5rec vSo Gr CH
3				8.0	11.5	8.0	10.3				2.3rec Gr SM ars CL
4	10/9			13.0	13.5			Splitspoon	16		
				13.5	14.0				13		
				14.0	14.5	14.0	14.5		13		Gr SM ars CL
5				18.0	18.5				3		
				18.5	19.0				5		
				19.0	19.5	19.0	19.5		3		Gr ML ars CH
6				23.0	23.5				8		
				23.5	24.0				8		
				24.0	24.5	24.0	24.5		7		Gr ML ars CL

WES 819 EDITION OF NOV 1971 MAY BE USED Sheet ____ of ____ Sheets

28° 07' 08.3" 96° 55' 22.8" 10/9

BORING LOG
FIELD DATA

Project G.I.W.W. Aransas Wildlife Site _____ Date 10/9/99
Location _____ Job No. 20102
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. 99-854

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	B/6 WS		CLASSIFICATION AND REMARKS
7				28.0	28.5			Splitspoon	7		
				28.5	29.0				6		
				29.0	29.5	29.0	29.5		17		Gr ML TR MICA
									7		
8				33.0	33.5				27		
				33.5	34.0				30		
				34.0	34.5	34.0	34.5		50		Gr ML,
9	10/10			38.0	38.5				12		
				38.5	39.0				10		
				39.0	39.5	39.0	39.5		11		Gr ML, SL, SLF
10				43.0	43.5				19		
				43.5	44.0				34		
				44.0	44.5	44.0	44.5		35		Gr SM

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet _____ of _____ Sheets

BORING LOG
FIELD DATA

Project _____ Site _____ Date 10/10/93

Location _____ A.R. No. [illegible]

Drill Rig _____ Inspector _____ Operator _____ Surface Elev. _____ Boring No. [illegible]

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Bl.	[illegible]
11	10/10			48.0	48.5			Split spoon	[illegible]	
				48.5	48.8	[illegible]	[illegible]		[illegible]	Gr SM
				49.0	49.5					
12				53.5	53.5				[illegible]	
				53.5	54.0				[illegible]	
				54.0	54.5	[illegible]	[illegible]		[illegible]	Gr SM
13				58.0	58.5				[illegible]	
				58.5	59.0	59.0	[illegible]		[illegible]	Gr SM
				59.0	59.5					

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED

Sheet _____ of _____ Sheets

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99- 85U
5" UNDIST.

GMG Greenish Gray

Boring Number 99-85U

Location

Date Taken 9 Oct 99

G.S.E. 0.3

SAMPLE NO. 1

FOR UNDISTURBED

DEPTH & SUB SAMP.	TESTS	ASSIGNED	COF	SAMPLE FROM PAN NO.	SAMPLE TO W/WAY	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOL	PENETRATION	UCT	BULK DENSITY	ATTERBERG LIMIT L.L.	ATTERBERG LIMIT P.L.	SIZE	TEST WATER CONTENT	UCT DEPTH	DRY WT.
0.0				0.0	1.7	51		CL	VSO	GR	SI SCF									
A				270	225.3	49														140.5
B				4115	213.4	52		CL 4	VSO	GR	Lenses 1 US Tea Tees SC	SI	Shells Shell Fragments				Throughout	Slush	poc	144.4
1.7				1.7	3.5	62		CL	VSO		SI SCF									
C				332	192.2	6														122.8
2.6																				
D																				

Classifier JMG Recorder R.L. Checker Date Analyzed OCT 14 1999 Sheet 1 of 4 Sheets

LMN Form 621 Nov 66 (Replaces previous edition & LMN Form 630, 30 Jun 66)

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUGE
PORT LAVACA, TEXAS (99)
BOR: 99- 85U
5" UNDIST.

① Boring Number 99-85U

②-④ Location

⑤ Date Taken 20 Oct '99 ⑥ S.S.E.

SAMPLE NO. 2

FOR UNDISTURBED

DEPTH & SUB SAMP.	TYPE	NO.	SAMPLE FROM BOR NO.	SAMPLE TO BOR NO.	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSIS-TENCY	COLOR	MODIFICATION SYMBOLS	PENTRO-MES	U.C.S.	BULK DENSITY	ATTERBERG LIMIT L.L.	ATTERBERG LIMIT P.L.	SIZE	TEST WATER CONTENT	UCT DEPTH
4.0																		
A			3.5	4.0	53	CL	SS	VSO	GR	SI SIF								
			4.0	4.5	53	CL	LG	VSO	GR	INS lgr ACS SM SI SIF HIV-dat						ORG		109.4
4.5																		
B		2	4.7	5.2	43	CL	SS	VSO	GR	SI SIF								
			4.7	5.2	46													108.5
5.4						CL	LG	VSO	GR	INS lgr ACS SM SI SIF HIV ent						ORG	FRS	
			6.2	6.4	39					SPKS dw								101.5
C			5.8	7.5	40	7.5 CL	SS	VSO	GR	SI SIF								
		2																
6.3			6.43	6.52	32													115.0
						CL	LG	VSO	GR	INS lgr ACS SM SI SIF HIV-dat								
D			6.52	6.62	42					ORG ACS SPKS dw Flush pet								119.4
7.2																		

Signature JMC Recorder RL Checker Date Analyzed OCT 1 A 1999 Sheet 2 of 4 Sheets

LMN Form 722 Rev 69 (Replaces previous edition & LMN Form 680, 30 Jun 66)

DRY WT.

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99-85U
5" UNDIST.

① Boring Number 99-85U

②-④ Location

⑤ Date Taken 9 Oct '99

⑥ G.S.E.

SAMPLE NO. 3

FOR UNDISTURBED

DEPTH & SUB SAMP.	TESTS	ASSIGNED	SAMPLE FROM PAN NO.	SAMPLE TO DRY WT.	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOLS	PENTRM RES	U.C.T.	BULK DENSITY	ATTERBERG LIMIT L.L.	ATTERBERG LIMIT P.L.	SIZE	TEST WATER CONTENT	UCT DEPTH
8.0			7.5	8.8			SM		T	SI								
A			6.7				SM J		T	ARS CL FEW SI SPKS dw								
8.8																		
			8.8	14.0			SM		GN	CS								
B			4.98															
9.7							SM J		GN	ARS CL SPKS dw								
C			3.34															
10.6																		
D																		

DRY WT.

Classifier JMC Recorder RL Checker Date Analyzed OCT 1 4 1999

Sheet 3 of 4 Sheets

LMN Form 721 Nov 69 (Replaces previous edition & LMN Form 680, 30 Jan 66)

LABORATORY BORING LOG

SAMPLE NO. 4-13

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99-85U
3" UNDIST.

① Boring Number 99-85U

②-④ Location

⑤ Date Taken 9 Oct '99

⑥ G.S.E.

FOR UNDISTURBED

DEPTH & SUB SAMP.	TESTS	ASSIGNED	SAMPLE FROM	SAMPLE TO	WATER CONTENT	STRATUM CHANGE	BORING LOG	FORMATION	FLOW	MODIFICATION SYMBOLS	PERTAIN RED		SOIL CONSISTS	ATTERBERG LIMITS LL	ATTERBERG LIMITS PL	SIZE	TEST WATER CONTENT	UCT DEPTH
			14.0	14.5			SM		GR	CS	20							
			18.0							GRS CL								
				19.5			SM		GR		8							
										GRS GRS Edit Ch								
				24.5			SM		GR	CS	15							
			24.0							GRS CL								
			29.0	29.5			SM		GR	CS	22							
			29.0							GRS CL								
B			34.0	34.5			SM		GR	CS SIF	20							
			34.0							GRS CL Few SIF								
			39.0	39.5			SM		GR	CS SIF	21							
			39.0							GRS CL Few SIF								
			44.0	44.5			SM		GR GR	CS	69							
			44.0							GRS CL								
C			48.0	48.5			SM		GR GR	CS	101							
			48.0							GRS CL								
			54.0	54.5			SM			CS	27							
			54.0							GRS CL								
			58.0	59.5		59.5	SM		GR GR	CS	101							
			58.0							GRS CL								
D																		

Classifier G.S. Recorder [illegible]

Sheet 4 of 4 Sheets

LMN Form 721 (Replaces previous edition & LMN Form [illegible])
Nov 69

LIQUID AND PLASTIC LIMIT TESTS

For use of this form, see EM 1110-2-1906.

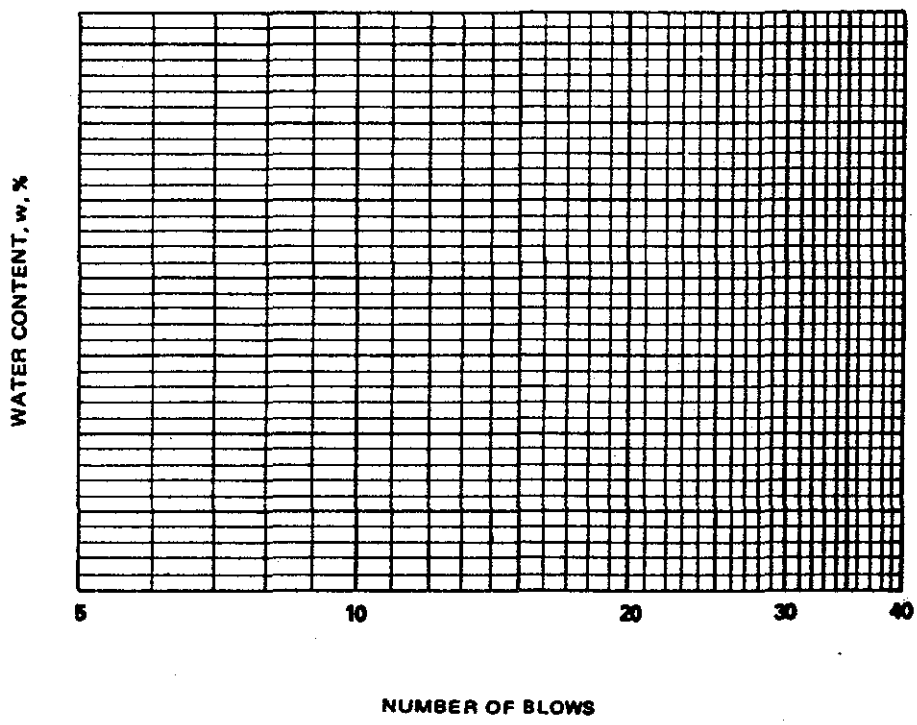
PROJECT G.I.W.W. ARANSAS Wildlife DATE 30 Nov '99

BORING NO. 99-854 SAMPLE NO. 1-A

LIQUID LIMIT

	RUN NO.	1	2	3	4	5	6
	TARE NO.	116	113				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	27.52	26.17				
	TARE PLUS DRY SOIL	23.44	22.42				
	WATER W_w	4.08	3.75				
	TARE	12.45	12.31				
	DRY SOIL W_s	10.99	10.11				
	WATER CONTENT, % w	37.12	37.09				
	NUMBER OF BLOWS	21	23				

CUP NO. 5



LL 37

PL 22

PI 15

Symbol from plasticity chart CL4

PLASTIC LIMIT

	RUN NO.	1	2	3	4	5	NATURAL WATER CONTENT
	TARE NO.	73	24				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	20.77	20.17				
	TARE PLUS DRY SOIL	19.01	18.27				
	WATER W_w	1.76	1.90				
	TARE	10.83	9.74				
	DRY SOIL W_s	8.18	8.53				
	WATER CONTENT, % w	21.52	22.27				
	PLASTIC LIMIT	22	22				

REMARKS

TECHNICIAN COMPUTED BY CHECKED BY

ENG FORM 1 JUN 65 3838

☆U.S.GPO:1984-0-452-054/18650

LIQUID AND PLASTIC LIMIT TESTS

AMPLE NO:1-A
ORING NO:99-85U LL: 31 PL: 22 PI: 9 TECH:V.J.LDATE:12-27-1999

LIQUID LIMIT

RUN NO.	(1)	(2)	(3)	(4)	(5)	(6)
TARE NO.	116	113				
ARE + WET SOIL WT.	27.52	26.17				
ARE + DRY SOIL WT.	23.44	22.42				
WATER WT.	4.08	3.75				
TARE WT.	10.99	10.11				
DRY SOIL WT.	12.45	12.31				
WATER CONTENT(%).	32.77	30.46				
NUMBER OF BLOWS.	21.00	23.00				
LIQUID LIMIT.	32	30				

PLASTIC LIMIT

TARE NO.	73	24				
ARE + WET SOIL WT.	20.77	20.17				
ARE + DRY SOIL WT.	19.01	18.27				
WATER WT.	1.76	1.90				
TARE WT.	10.83	9.74				
DRY SOIL WT.	8.18	8.53				
WATER CONTENT(%).	21.52	22.27				
PLASTIC LIMIT.	22	22				

LIQUID AND PLASTIC LIMIT TESTS

For use of this form, see EM 1110-2-1906.

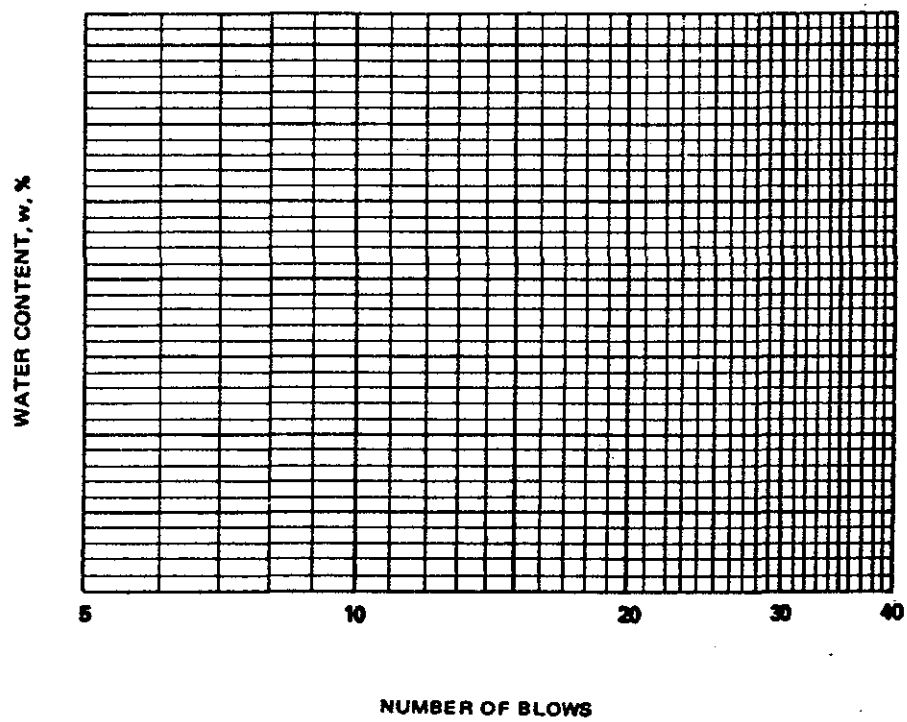
PROJECT G.I.W.W. ARANSAS Wildlife DATE 30 Nov '99

BORING NO. 99-854 SAMPLE NO. 2-B

LIQUID LIMIT

	RUN NO.	1	2	3	4	5	6
	TARE NO.	74	75				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	25.49	26.29				
	TARE PLUS DRY SOIL	21.14	21.89				
	WATER W_w	4.35	4.40				
	TARE	10.22	10.82				
	DRY SOIL W_s	10.92	11.07				
	WATER CONTENT, % w	39.84	39.75				
	NUMBER OF BLOWS	24	25				

CUP NO. 42



LL 40

PL 21

PI 19

Symbol from plasticity chart CL

PLASTIC LIMIT

	RUN NO.	1	2	3	4	5	NATURAL WATER CONTENT
	TARE NO.	4	88				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	20.33	20.59				
	TARE PLUS DRY SOIL	18.47	18.72				
	WATER W_w	1.86	1.87				
	TARE	9.29	9.67				
	DRY SOIL W_s	9.18	9.05				
	WATER CONTENT, % w	20.26	20.66				
	PLASTIC LIMIT	20	21				

REMARKS

TECHNICIAN COMPUTED BY CHECKED BY

ENG FORM 1 JUN 65 3838

☆ U.S.GPO:1984-0-452-954/18650

LIQUID AND PLASTIC LIMIT TESTS CL-4

AMPLE NO:2-B
ORING NO:99-85U LL: 40 PL: 21 PI: 19 TECH:V.J.LDATE:12-27-1999

LIQUID LIMIT

RUN NO.	(1)	(2)	(3)	(4)	(5)	(6)
TARE NO.	14	75				
ARE + WET SOIL WT.	25.49	26.29				
ARE + DRY SOIL WT.	21.14	21.89				
WATER WT.	4.35	4.40				
TARE WT.	10.22	10.82				
DRY SOIL WT.	10.92	11.07				
WATER CONTENT(%).	39.84	39.75				
NUMBER OF BLOWS.	24.00	25.00				
LIQUID LIMIT.	40	40				

PLASTIC LIMIT

TARE NO.	4	88				
ARE + WET SOIL WT.	20.33	20.59				
ARE + DRY SOIL WT.	18.47	18.72				
WATER WT.	1.86	1.87				
TARE WT.	9.29	9.67				
DRY SOIL WT.	9.18	9.05				
WATER CONTENT(%).	20.26	20.66				
PLASTIC LIMIT.	20	21				