Gauge 2.85
Sunny/Clear

28° [illegible] 25.4" 96° 55' 08.7" Wt Depth 4.0

BORING LOG
FIELD DATA

Project G.I.W.W. Aranasa Wildlife Refuse Site _____ Date 10/8/99
Location Port Lavaca, Texas Job No 20-02
Drill Rig _____ Inspector Richards Operator Juneau Surface El 2.85 Boring No. 99-83U

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER			CLASSIFICATION AND REMARKS
1				0.0	3.5	0.0	2.0	5" Undist			2.0 rec vso Gr CL ars SM, SL
2				4.0	7.5	4.0	6.5				2.5 rec vso Gr CL ars SM
3				8.0	11.5	8.0	11.0				3.0 rec Gr SM ars CL
4				12.0	15.5						
5				16.0	19.5						
6				20.0	23.5						
7				24.0	27.5						
8				28.0	31.5						
9				32.0	35.5						

WES FORM JAN 74 819 EDITION OF NOV 1971 MAY BE USED Sheet 1 of 2 Sheets

28° 07' 25.4" 96° 55' 08.7"

BORING LOG
FIELD DATA

Project G.I.W.W. Aransas Wildlife Refuge Site Port Lavaca, Tx. Date 10/8/99
Location Job No. 20-02
Drill Rig Inspector Operator Surface El Boring No. 99-834

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	Blows		CLASSIFICATION AND REMARKS
4	10/8			13.0	13.5			Splitspoon	17		
				13.5	14.0				15		
				14.0	14.5	14.0	14.5		17		1 Gr SM
5				18.0	18.5				1		Gr SM
				18.5	19.0				1		
				19.0	19.5	19.0	19.5		2		
6				23.0	23.5				11		Gr SM
				23.5	24.0				19		
				24.0	24.5	24.0	24.5		19		
7				[illegible]	[illegible]				15		
				28.5	29.0				8		
				29.0	29.5	29.0	29.5		23		Gr SM sl f, sl

WES FORM JAN 71 879 EDITION OF NOV 1971 MAY BE USED

Sheet ____ of ____ Sheets

BORING LOG
FIELD DATA

Project G.I.W.W. ARANSAS Wildlife Refuge Site Port LAVACA, TX Date 10/8/99
Location Job No. 20-02
Drill Rig Inspector Richards Operator Juneau Surface El Boring No. 99-834

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
8	10/8			33.0	33.5			Splitspoon	20		
				33.5	34.0				36		
				34.0	34.5	34.0	34.5		40		Gr SM
9				38.0	38.5				5		
				38.5	39.0				5		
				39.0	39.5	39.0	39.5		6		Gr SM
10				43.0	43.5				12		
				43.5	44.0				18		
				44.0	44.5	44.0	44.5		18		Gr SP Fine
11				48.0	48.5				6	5	
				48.5	49.0				5	8	
				49.0	49.5	49.0	49.5		6	11	Gr SM ars CH

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

Sheet ____ of ____ Sheets

BORING LOG
FIELD DATA

Project _____ Site _____ Date 10/8/99
Location _____ Job No. 20-02
Drill Rig _____ Inspector _____ Operator _____ Surface El _____ Boring No. 99-B34

SAMPLE NUMBER	DATE TAKEN	STRATUM FROM	STRATUM TO	DRIVE FROM	DRIVE TO	SAMPLE FROM	SAMPLE TO	TYPE OF SAMPLER	B/6 w/2		CLASSIFICATION AND REMARKS
12				53.0	53.5		0	Splitspoon	9		
				53.5	54.0				11		
				54.0	54.5	54.0	54.5		11		Gr SM ars CH
13				58.0	58.5				3		
				58.5	59.0				6		
				59.0	59.5	59.0	59.5		10		Gr SM ars CH

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

Sheet ____ of ____ Sheets

96° 55' 08.7" 28° 07' 25.4

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99-83U
5" UNDIST.

① Boring Number 99-83U

②-④ Location

⑤ Date Taken 8 Oct '99

⑥ G.S.E. -1

DEPTH & SUB SAMP.	TESTS ASSIGNED	LOG	SAMPLE FROM PAN NO	SAMPLE TO W/W DRY WT	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOLS	PENTRM RES.	U.C.T.	BULK DENSITY
0.0			0.0	0.3		0.3	SM		GR	CS SIF SI			
		1	4.85				SM		Gr	lge ars ch SI	SLF	thru	out
A		2											
0.8			638	193.9	72								
							CH 2	VSO	Gr	LNS lge ars SM SI	SLF	thru	
B			0.3	2.0	67	2.0	CH SS	VSO	GR	SI SIF			
			234	201.7	62								
1.7													
			2.0	4.0		4.0	NS						
C													
D													

Classifier J ME Recorder R L Checker Date Analyzed OCT 14 1999

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

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99-83U
5" UNDIST.

① Boring Number 99-83U

②-④ Location

⑤ Date Taken 8 Oct '99

⑥ G.S.E.

DEPTH & SUB SAMP.	TESTS ASSIGNED	LOG	SAMPLE FROM PAN NO.	SAMPLE TO	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOLS	PENTHN RES	U.C.T.	BULK DENSITY
4.0			4.0	4.8	53	4.8	CL SS	VSD	GR	SI SIF			
A			330	2LR-6	53		CL 4	VSD	GR	lns lge ars SM SI SLF thru			
4.8			4.8	7.5		7.5	SM		BRG	CS SI SIF			
B			362				SM 1		BRG	lge ars Ch SI SLF thru out			
5.7													
C	SV		310				SM 1		BRG	ars CL spks dw few SIF			
6.6													
D													

Classifier SM Recorder RL Checker Date Analyzed OCT 14 1999

LMN Form 721
Rev 69

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

LABORATORY BORING LOG

FOR UNDISTURBED SAMPLES ONLY

20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99-83U
5" UNDIST.

① Boring Number 99-83U

②-④ Location

⑤ Date Taken 8 Oct '99

⑥ G.S.E.

DEPTH & SUB SAMP.	LIMITS	SAMPLE	SAMPLE FROM PAN NO	SAMPLE TO	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOLS	PENTAN. RES.	U.C.T.	BULK DENSITY
8.0		LY SI	7.5	14.0			SM		LGR GN	CS			
A			433										
8.8													
B			[illegible]				SM		LGR GN	ARS cl sp ks dw			
9.9													
C			[illegible]										
10.4													
D													

Classifier J McC Recorder K Checker Date Analyzed OCT 14 1999

LMN Form 721 Nov 69 (Replaces previous edition & LMN Form 680, [illegible] Jun 66)

LABORATORY BORING LOG

[illegible] ARANSAS WILDLIFE REFUGE
[illegible] LAVACA, TEXAS (99)
99-83U
[illegible] UNDIST.

[illegible] STURBED [illegible] ONLY

① Boring Number 99-83U

②-④ Location

⑤ Date Taken

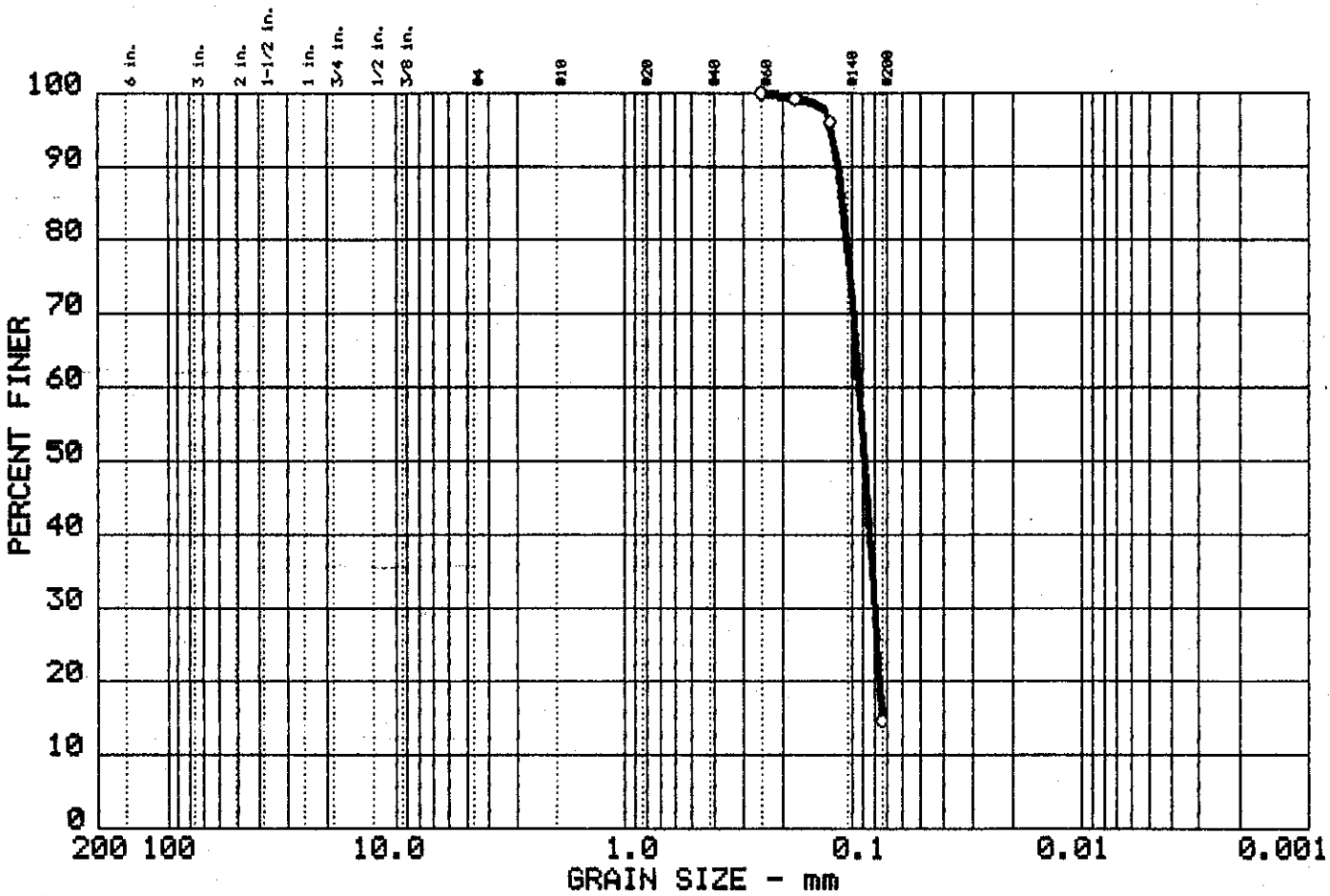
⑥ G.S.E.

DEPTH & SUB SAMP.	SAMPLE	WATER CONTENT	STRATUM CHANGE	BORING LOG	CONSISTENCY	COLOR	MODIFICATION SYMBOLS	PLASTIC NO.	U.S.C.	BULK DENSITY
A	[illegible]	[illegible]		SM		GR	CS	32		
	[illegible]			1			ARS CL			
	[illegible]	[illegible]		SM		GR	CS	3		
	[illegible]			1			ARS CL			
	[illegible]	[illegible]		SM		GR	CS SIF	38		
	[illegible]			1			ARS CL FR MICA few SIF			
B	[illegible]	[illegible]		SM		GR BR	CS SIF	41		
	[illegible]			1			ARS CL few SIF			
	[illegible]	[illegible]	39.0	SM		GR BR	CS SIF	76		
	[illegible]			1			ARS CL few SIF			
	[illegible]	[illegible]	39.5	CH SS VSO				11		
	[illegible]	[illegible]		2			1 gr ARS SM few SIF			
	[illegible]	[illegible]		SM		GR GR	CS SIF	[illegible]		
	[illegible]			1			ARS CL FR MICA few SIF			
	[illegible]	[illegible]		SM		GR	CS SIF	19		
							1 gr ARS CL			
	[illegible]	[illegible]	59.0	SM		GR BR	CS	22		
	[illegible]			1			ARS CL			
	59.0	59.5	59.5	CL SS VSO		GR BR		16		
	100	115.6	30				1 gr CL FR 1 gr SM ARS			
D										

Classifier [illegible] Recorder [illegible] Checker [illegible] Reviewed [illegible]

LMN Form 721 (Replaces previous edition & LMN [illegible] Jun 66)
Rev. 69

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
O	13	0.0	0.0	85.5	14.5	

	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	0.080				

MATERIAL DESCRIPTION	USCS	AASHTO
O SM	*	*

Project No.: 20-02

Remarks:

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 13

Date: 16NOV99
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. RL.ES. PAN-275
CUP-27 SAM-7
Fig. No.: 7

Mechanical Analysis Data

Initial
Dry sample and tare= 141.59
Tare = 0.00
Dry sample weight = 141.59
Tare for cumulative weight retained= 0

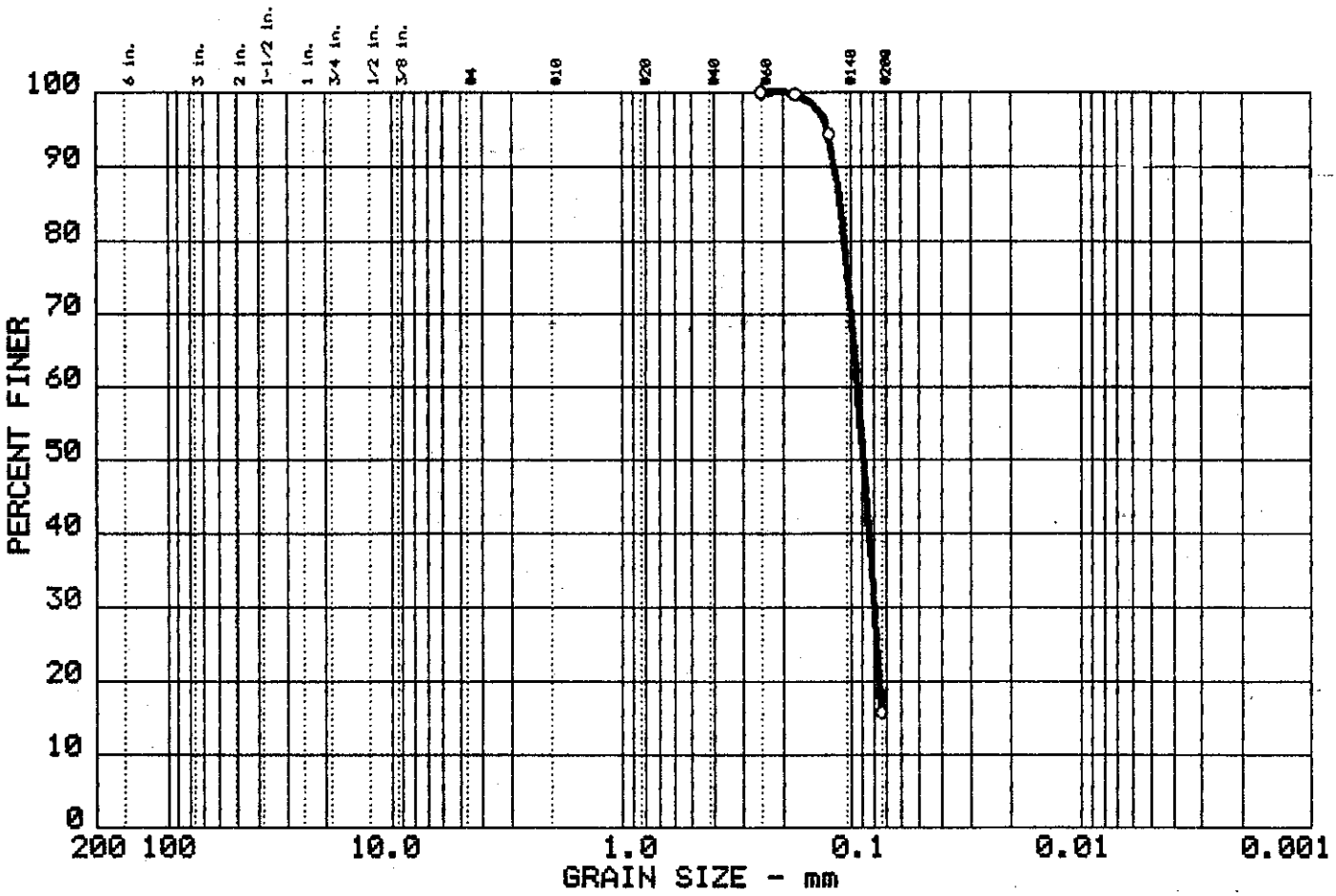
Sieve	Cumul. Wt. retained	Percent finer
# 60	0.00	100.0
# 80	1.01	99.3
# 120	5.62	96.0
# 200	120.99	14.5

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 85.5
% FINES = 14.5

D85= 0.11 D60= 0.093 D50= 0.088
D30= 0.0797

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	12	0.0	0.0	84.2	15.8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.11	0.09	0.09	0.080				

MATERIAL DESCRIPTION	USCS	AASHTO
○ SM	*	*

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

Date: 16NOV99

Remarks:
TECH. RL.ES.
PAN-692
CUP-93
SAM.-4

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.4

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 12

Date: 16NOV99
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. RL.ES. PAN-692
CUP-93 SAM.-4
Fig. No.: 4

Mechanical Analysis Data

	Initial
Dry sample and tare=	145.10
Tare =	0.00
Dry sample weight =	145.10

Tare for cumulative weight retained= 0

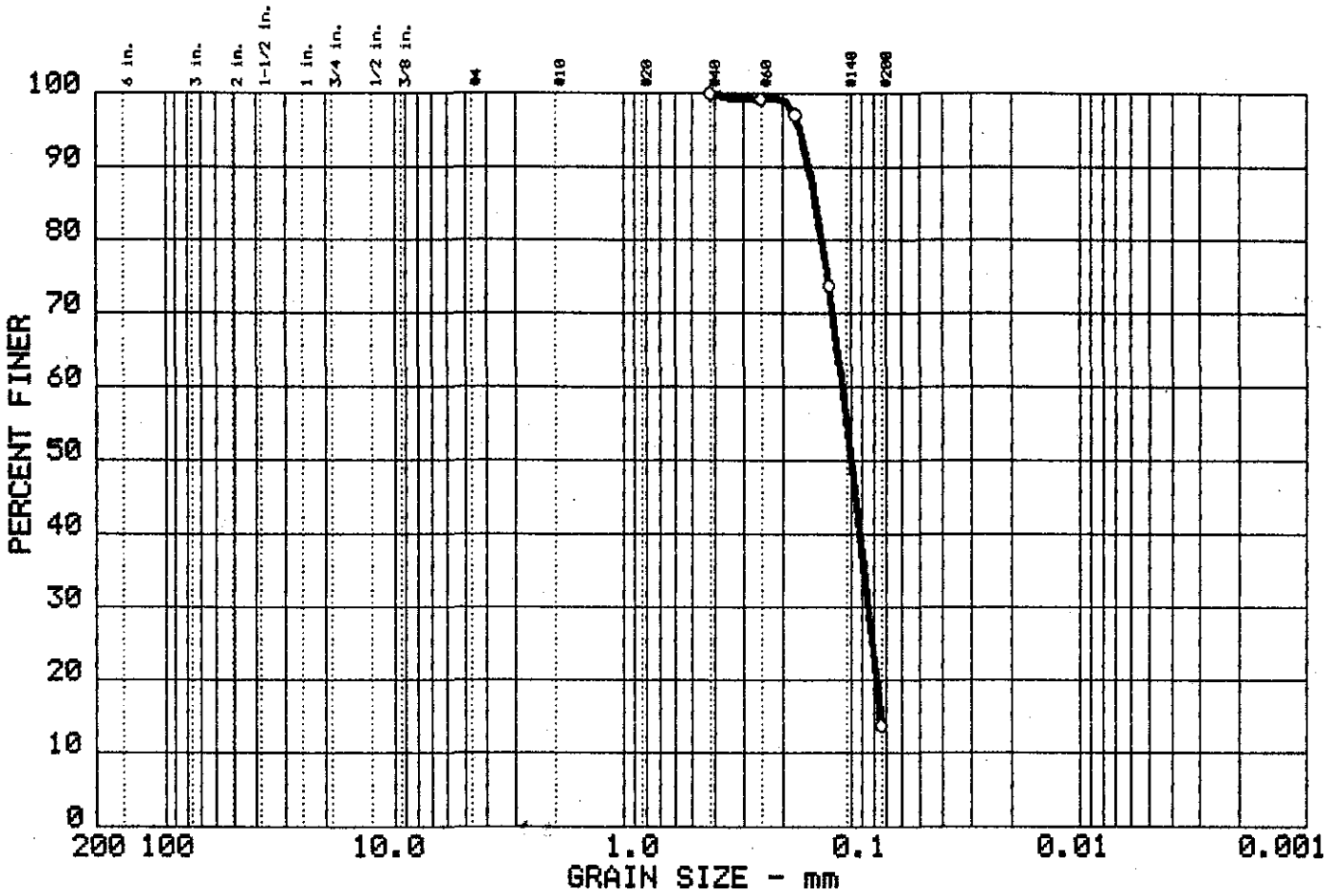
Sieve	Cumul. Wt. retained	Percent finer
R 60	0.00	100.0
R 80	0.38	99.7
R 120	8.14	94.4
R 200	122.17	15.8

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 84.2
% FINES = 15.8

D85= 0.11 D60= 0.094 D50= 0.088
D30= 0.0795

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	12	0.0	0.0	86.2	13.8	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.14	0.11	0.10	0.084	0.0746			

MATERIAL DESCRIPTION	USCS	AASHTO
○ SM	*	*

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

Date: 16NOV99

Remarks:
TECH. RL.ES.
PAN-455
CUP-79
SAM-10

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.10

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 12

Date: 16NOV99
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. RL.ES. PAN-455
CUP-79 SAM-10
Fig. No.: 10

Mechanical Analysis Data

	Initial
Dry sample and tare=	97.95
Tare =	0.00
Dry sample weight =	97.95

Tare for cumulative weight retained= 0

Sieve	Cumul. Wt. retained	Percent finer
R 40	0.00	100.0
R 60	0.73	99.3
R 80	2.86	97.1
R 120	25.73	73.7
R 200	84.44	13.8

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 86.2
% FINES = 13.8

D85= 0.14 D60= 0.109 D50= 0.100
D30= 0.0843 D15= 0.07464

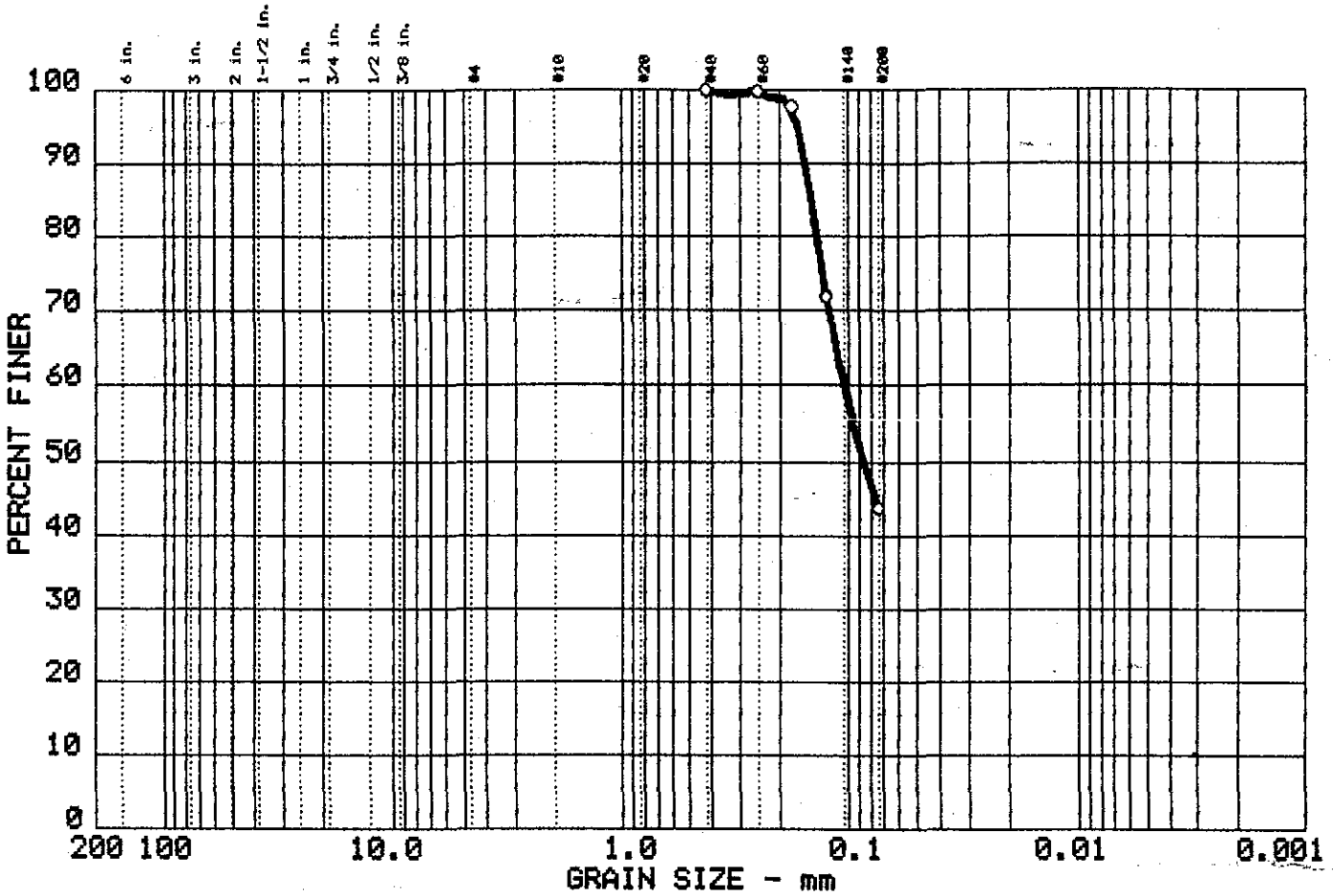
SIEVE ANALYSIS WORK SHEET

Project:	20-02 ARANSAS WILDLIFE REFUSE PORT LAVACA, TEXAS (99) BOR: 99- 83U 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. 145.1 gms			Sample Wt. 141.59 ~~145.2~~ gms			Sample Wt. ~~100.8~~ 97.95 gms		
		Sieve Wt. 124.3 gms			Sieve Wt. 131.10 gms			Sieve Wt. 88.4 gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	PAN	692		PAN	275		PAN	455	
3/4"	19.1	Cup	93		Cup	27		Cup	79	
1/2"	12.7									
3/8"	9.52									
4	4.76					0.0			0.0	
6	3.36					.89			SLF .14	
10	2.00					1.88			SLF 1.5	
12	1.68					2.22			SLF 1.3	
16	1.19					2.89				
18	1.00								SLF 1.95	
20	0.84					3.40				
30	0.59									
35	0.50									
40	0.42					3.61		0.0	SLF 2.85	
50	0.297									
60	0.250	0.0			0.0			.73		
70	0.210									
80	0.177	.38			1.01			2.86		
100	0.149									
120	0.125	8.14			5.62			25.73		
140	0.105									
200	0.074	122.17			120.99			84.44		
230	0.062									
Pan		124.3			127.37					
Total								855		

Technician:	Computed:	Checked:

GRAIN SIZE DISTRIBUTION TEST REPORT



	Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY
○	13	0.0	0.0	56.1	43.9	

	LL	PI	D_{85}	D_{60}	D_{50}	D_{30}	D_{15}	D_{10}	C_c	C_u
○			0.14	0.11	0.09					

MATERIAL DESCRIPTION	USCS	AASHTO
○ SM	*	*

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

Date: 17NOV99

Remarks:
TECH. RL.ES.
PAN-94
CUP-1
SAM-12

GRAIN SIZE DISTRIBUTION TEST REPORT
USCOE, NEW ORLEANS

Figure No.12

GRAIN SIZE DISTRIBUTION TEST DATA

Test No.: 13

Date: 17NOV99
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. RL.ES. PAN-94
CUP-1 SAM-12
Fig. No.: 12

Mechanical Analysis Data

Initial
Dry sample and tare= 102.08
Tare = 0.00
Dry sample weight = 102.08
Tare for cumulative weight retained= 0

Sieve	Cumul. Wt. retained	Percent finer
R 40	0.00	100.0
R 60	0.18	99.8
R 80	2.29	97.8
R 120	28.60	72.0
R 200	57.28	43.9

Fractional Components

% + 3 in. = 0.0 % GRAVEL = 0.0 % SAND = 56.1
% FINES = 43.9

D85= 0.14 D60= 0.106 D50= 0.086

SIEVE ANALYSIS WORK SHEET

Project:	20-02 ARANSAS WILDLIFE REFUSE PORT LAVACA, TEXAS (99) BOR: 99- 83U 5" UNDIST.	Date: Sheet No:

Boring No:										
U.S. STD Sieve No.	Opening mm.	Sample No. 12			Sample No.			Sample No.		
		Sample Elev.			Sample Elev.			Sample Elev.		
		Sample Wt. 102.08 ~~102.2~~ gms			Sample Wt. gms			Sample Wt. gms		
		Sieve Wt. 57.42 gms			Sieve Wt. gms			Sieve Wt. gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	PAN	94							
3/4"	19.1	Cup	1							
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		SLE .04							
20	0.84									
30	0.59									
35	0.50									
40	0.42	0.0	SLE .12							
50	0.297									
60	0.250	.18								
70	0.210									
80	0.177	2.29								
100	0.149									
120	0.125	28.6								
140	0.105									
200	0.074	56.19								
230	0.062									
Pan		57.28								
Total										

Technician:	Computed:	Checked:

SIEVE ANALYSIS WORK SHEET

Project: 20-02 ARANSAS WILDLIFE REFUSE
PORT LAVACA, TEXAS (99)
BOR: 99- 83U
5" UNDIST.

Date: 18 OCT 1999
Sheet No:

Boring No:

U.S. STD Sieve No.	Opening mm.	Sample No. 2-C			Sample No. 3-B			Sample No.		
		Sample Elev.			Sample Elev.			Sample Elev.		
		Sample Wt. 183.8 gms			Sample Wt. 171.1 gms			Sample Wt. gms		
		Sieve Wt. 164.2 gms			Sieve Wt. 141.8 gms			Sieve Wt. gms		
		Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %	Ret. gms	Ret. %	Pass %
1"	25.4	P-	310		P-	443				
3/4"	19.1	C-	89		C-	AH				
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	0.1		99.9	0.0		100.0			
70	0.210									
80	0.177	3.5		98.1	1.1		99.4			
100	0.149									
120	0.125	47.6		74.1	19.5		88.6			
140	0.105									
[illegible]		[illegible]		11.2	141.0		17.6			

LIQUID AND PLASTIC LIMIT TESTS CH-2 CH-3

SAMPLE NO:1-B

BORING NO:99-83U LL: 59 PL: 22 PI: 37 TECH:V.J.L DATE:12-27-1999

LIQUID LIMIT

RUN NO.	(1)	(2)	(3)	(4)	(5)	(6)
TARE NO.	74	22				
TARE + WET SOIL WT.	21.70	22.80				
TARE + DRY SOIL WT.	17.30	17.80				
WATER WT.	4.40	5.00				
TARE WT.	9.80	9.10				
DRY SOIL WT.	7.50	8.70				
WATER CONTENT(%).	58.67	57.47				
NUMBER OF BLOWS.	25.00	26.00				
LIQUID LIMIT.	59	58				

PLASTIC LIMIT

TARE NO.	18	17				
TARE + WET SOIL WT.	18.60	20.40				
TARE + DRY SOIL WT.	17.00	18.40				
WATER WT.	1.60	2.00				
TARE WT.	9.70	9.50				
DRY SOIL WT.	7.30	8.90				
WATER CONTENT(%).	21.92	22.47				
PLASTIC LIMIT.	22	22				

LIQUID AND PLASTIC LIMIT TESTS

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

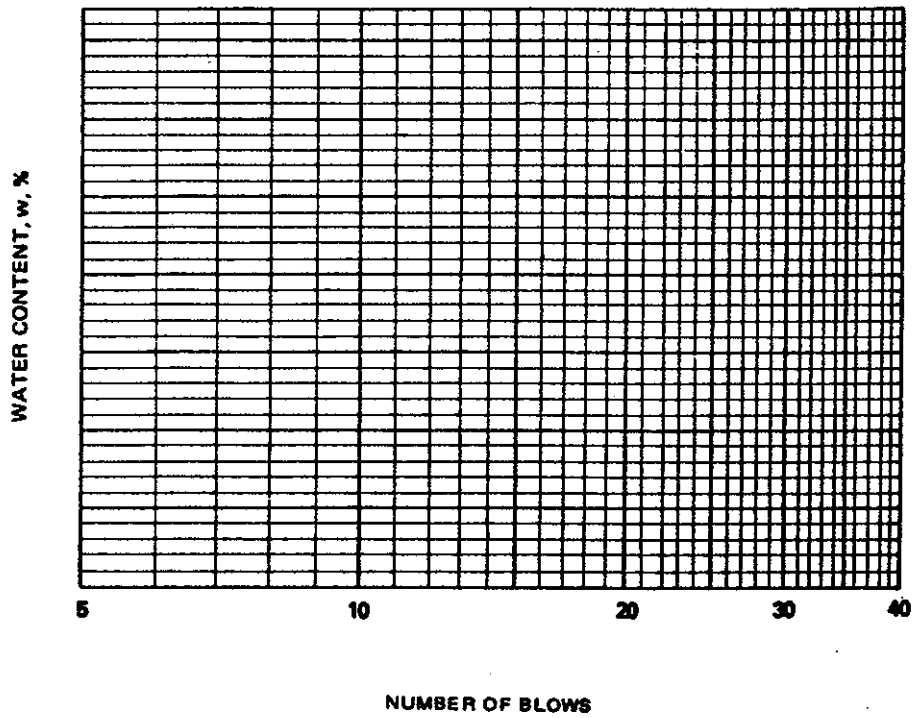
PROJECT G.I.W.W. Aransas Wildlife DATE 30 Nov

BORING NO. 99-83U SAMPLE NO. 2-A

LIQUID LIMIT

	RUN NO.	1	2	3	4	5	6
	TARE NO.	45	56				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	24.2	23.2				
	TARE PLUS DRY SOIL	20.2	19.7				
	WATER W_w	4.0	3.5				
	TARE	9.9	10.8				
	DRY SOIL W_s	10.3	8.9				
	WATER CONTENT, % w	38.8	39.3				
	NUMBER OF BLOWS	23	23				

CUP NO. 84



LL 39

PL 25

PI 14

Symbol from plasticity chart CL

PLASTIC LIMIT

	RUN NO.	1	2	3	4	5	NATURAL WATER CONTENT
	TARE NO.	40	48				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	20.8	20.9				
	TARE PLUS DRY SOIL	18.6	18.7				
	WATER W_w	2.2	2.2				
	TARE	10.2	9.7				
	DRY SOIL W_s	8.4	9.0				
	WATER CONTENT, % w	26.2	24.4				
	PLASTIC LIMIT						

REMARKS

TECHNICIAN COMPUTED BY CHECKED BY

LIQUID AND PLASTIC LIMIT TESTS CL-4

SAMPLE NO:2-A
BORING NO:99-83U LL: 39 PL: 25 PI: 14 TECH:V.J.LDATE:12-27-1999

LIQUID LIMIT

RUN NO.	(1)	(2)	(3)	(4)	(5)	(6)
TARE NO.	45	56				
TARE + WET SOIL WT.	24.20	23.20				
TARE + DRY SOIL WT.	20.20	19.70				
WATER WT.	4.00	3.50				
TARE WT.	9.90	10.80				
DRY SOIL WT.	10.30	8.90				
WATER CONTENT(%).	38.83	39.33				
NUMBER OF BLOWS.	23.00	23.00				
LIQUID LIMIT.	38	39				

PLASTIC LIMIT

TARE NO.	40	48				
TARE + WET SOIL WT.	20.80	20.90				
TARE + DRY SOIL WT.	18.60	18.70				
WATER WT.	2.20	2.20				
TARE WT.	10.20	9.70				
DRY SOIL WT.	8.40	9.00				
WATER CONTENT(%).	26.19	24.44				
PLASTIC LIMIT.	26	24				

LIQUID AND PLASTIC LIMIT TESTS

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

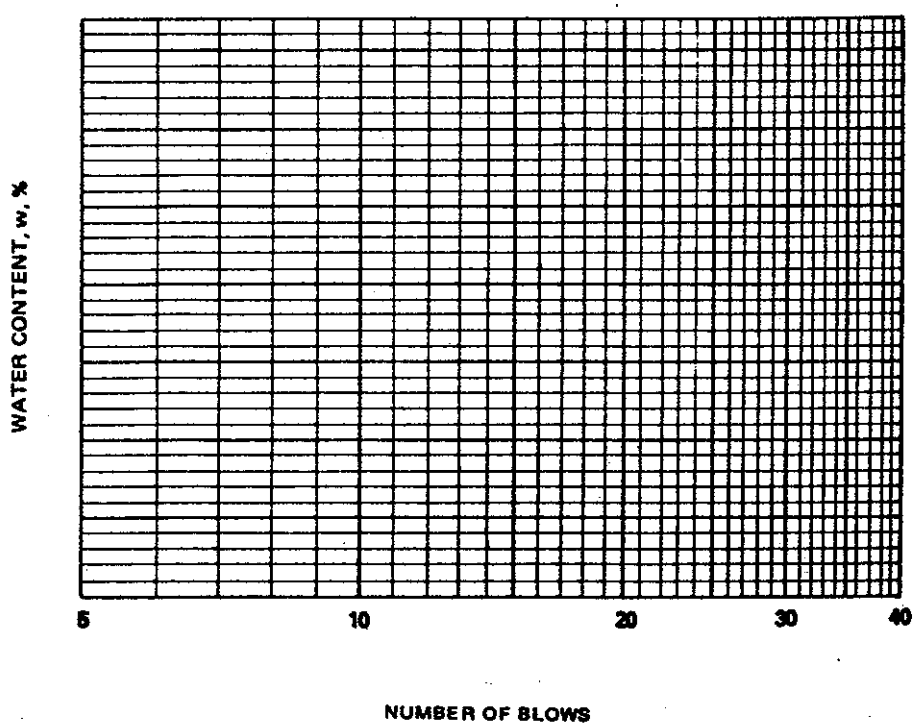
PROJECT G.I.W.W. ARANSAS Wildlife DATE 30 Nov '99

BORING NO. 99-83U SAMPLE NO. 1-B

LIQUID LIMIT

	RUN NO.	1	2	3	4	5	6
	TARE NO.	74	22				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	21.7	22.8				
	TARE PLUS DRY SOIL	17.3	17.8				
	WATER W_w	4.4	5.0				
	TARE	9.8	9.1				
	DRY SOIL W_s	7.5	8.7				
	WATER CONTENT, % w	58.7	57.5				
	NUMBER OF BLOWS	25	26				

CUP NO. 87



LL 59

PL 22

PI 37

Symbol from plasticity chart CH2 / CH3

PLASTIC LIMIT

	RUN NO.	1	2	3	4	5	NATURAL WATER CONTENT
	TARE NO.	18	17				
WEIGHT IN GRAMS	TARE PLUS WET SOIL	18.6	20.4				
	TARE PLUS DRY SOIL	17.0	18.4				
	WATER W_w	1.6	2.0				
	TARE	9.7	9.5				
	DRY SOIL W_s	7.3	8.9				
	WATER CONTENT, % w	21.9	22.5				
	PLASTIC LIMIT						

REMARKS

TECHNICIAN COMPUTED BY CHECKED BY

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