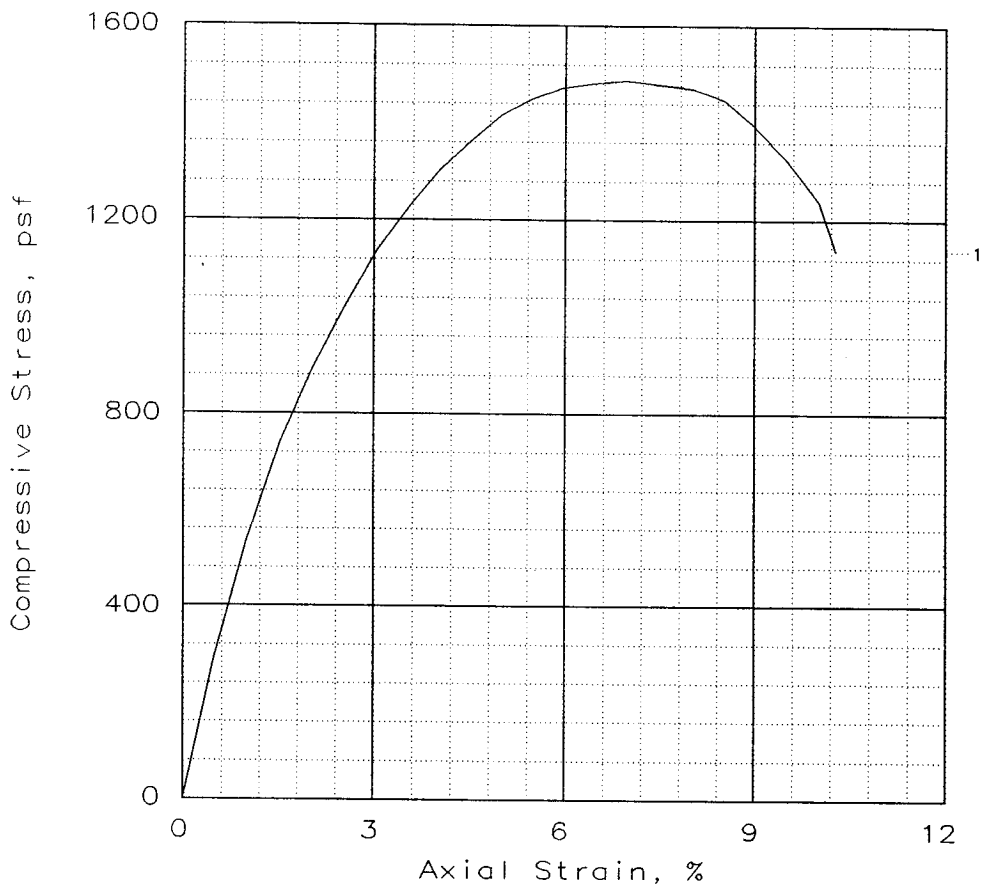


UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1488			
Undrained shear strength, psf	744			
Failure strain, %	7.0			
Strain rate, in/min	0.0571			
Water content, %	28.7			
Wet density, pcf	109.8			
Dry density, pcf	85.3			
Saturation, %	79.5			
Void ratio	0.9754			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CL5 w/ lys CH, wd

GS= 2.7

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.575 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

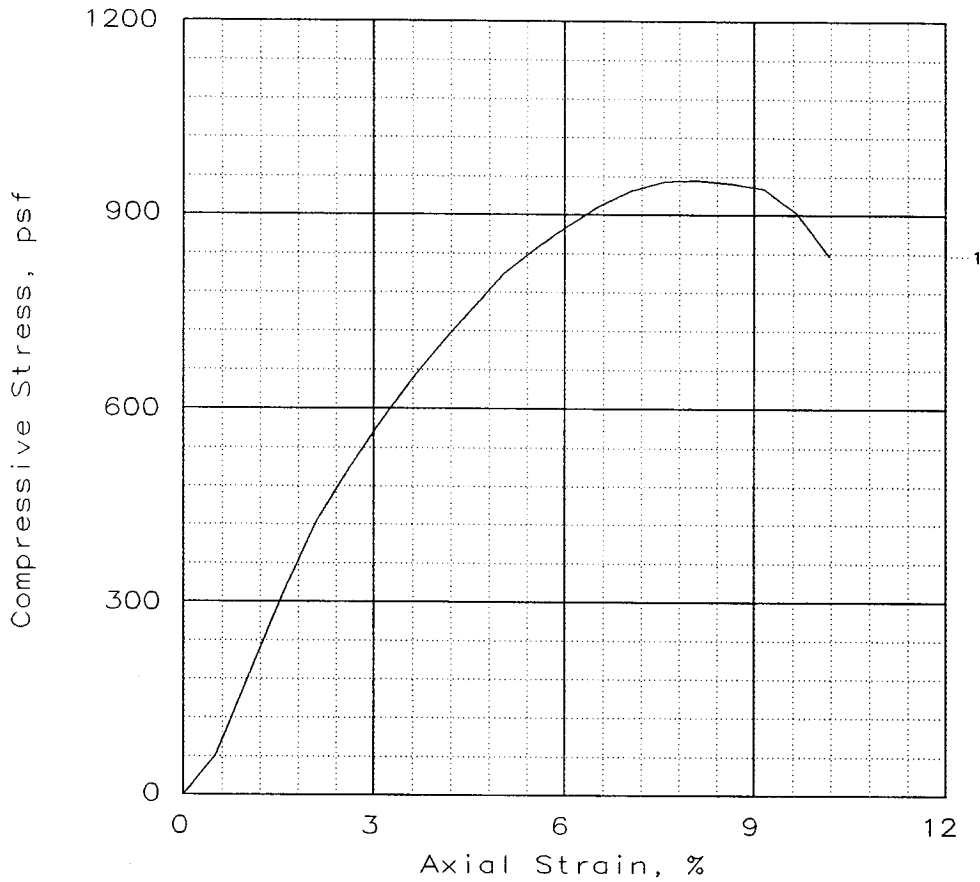
Sample 4, Depth 5.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	954			
Undrained shear strength, psf	477			
Failure strain, %	8.1			
Strain rate, in/min	0.0568			
Water content, %	148.3			
Wet density, pcf	75.2			
Dry density, pcf	30.3			
Saturation, %	88.0			
Void ratio	4.4628			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: So dGr CHOB

GS= 2.65 Type: Undisturbed

Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 0.425 tsf

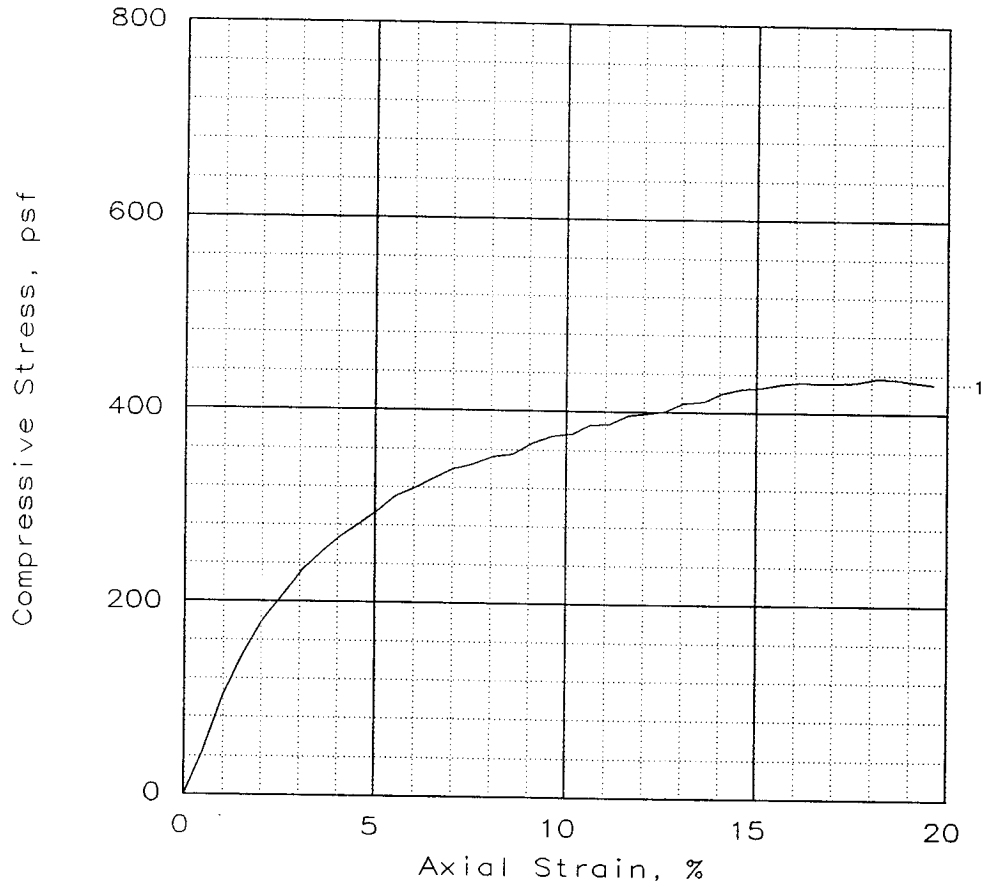
Fig. No.: _____

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 5, Depth 7.8'

UNCONFINED COMPRESSION TEST
Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	432			
Undrained shear strength, psf	216			
Failure strain, %	16.2			
Strain rate, in/min	0.0577			
Water content, %	143.3			
Wet density, pcf	80.5			
Dry density, pcf	33.1			
Saturation, %	94.5			
Void ratio	4.0959			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: vSo dGr CHOA w/ wd

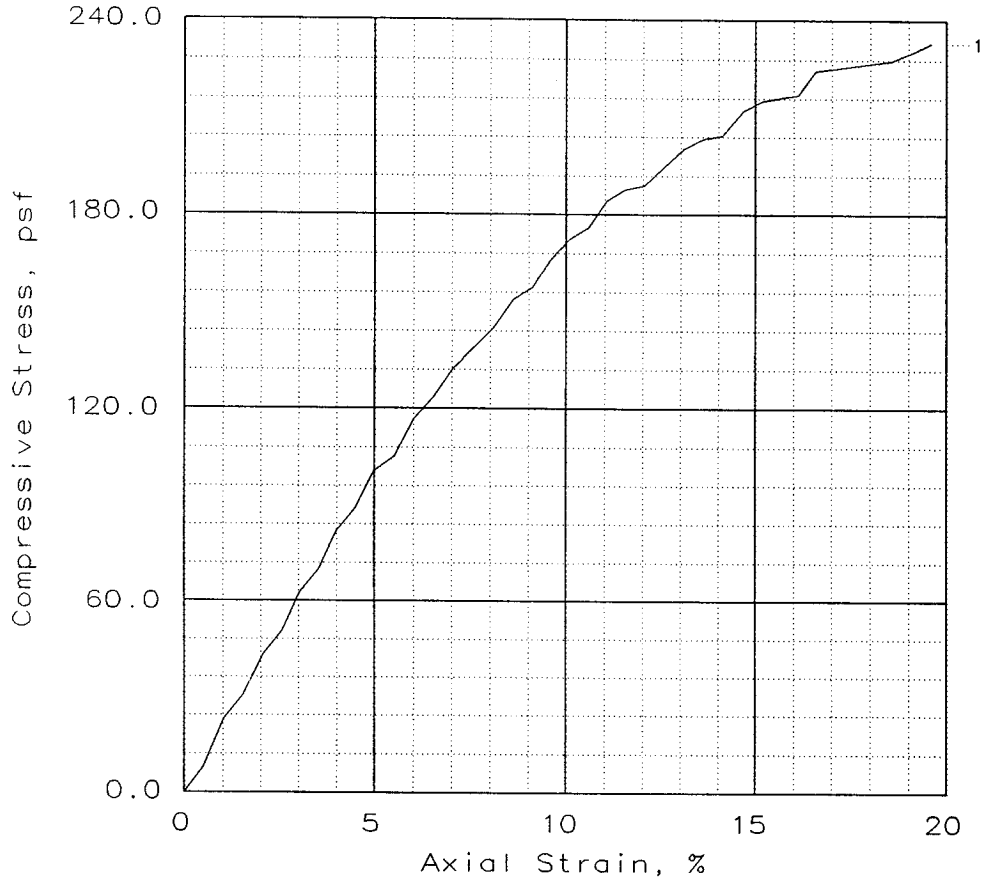
GS= 2.7 Type: Undisturbed

Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 0.230 tsf
 Fig. No.: _____

Client: U.S. Army Corps of Engineers
 Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 6, Depth 10.3'

UNCONFINED COMPRESSION TEST
Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1		
Unconfined strength, psf	233.1		
Undrained shear strength, psf	116.5		
Failure strain, %	19.6		
Strain rate, in/min	0.0580		
Water content, %	34.2		
Wet density, pcf	117.1		
Dry density, pcf	87.2		
Saturation, %	99.1		
Void ratio	0.9326		
Specimen diameter, in	1.39		
Specimen height, in	2.93		
Height/diameter ratio	2.11		

Description: vSo Gr CL6 w/ 0

GS= 2.7

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.220 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La

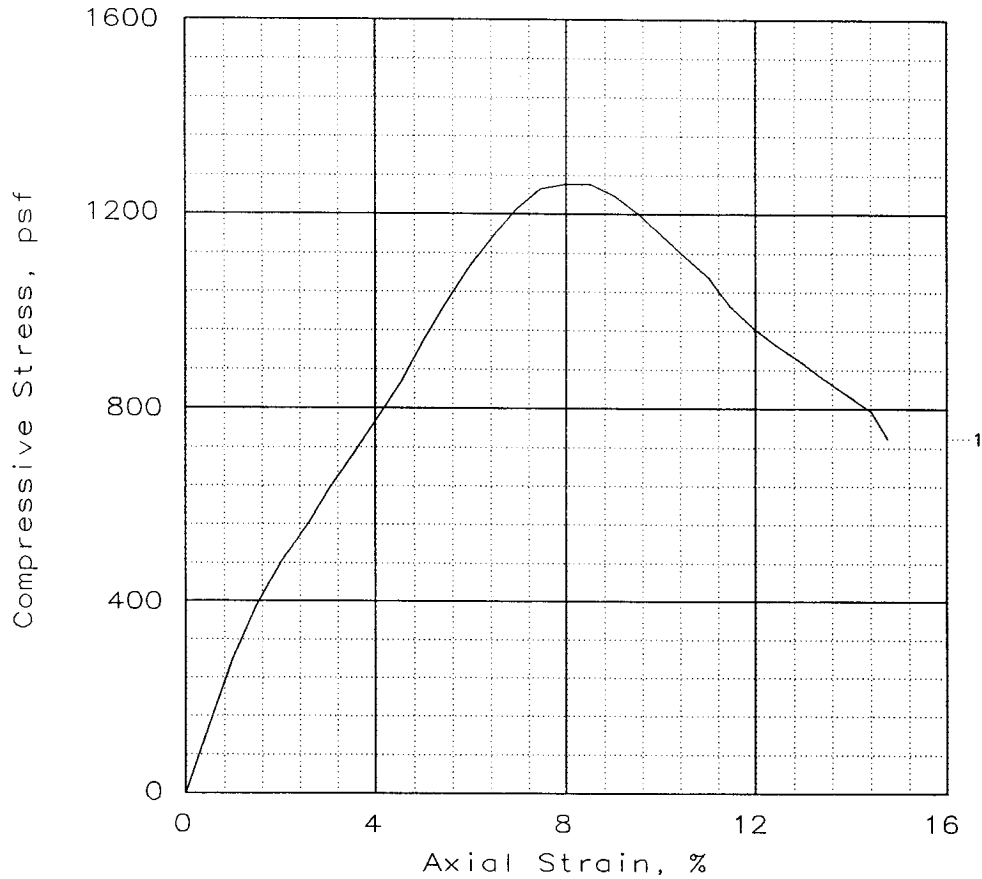
Location: Boring LAC05-3G,
Sample 7, Depth 12.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1261			
Undrained shear strength, psf	630			
Failure strain, %	8.0			
Strain rate, in/min	0.0575			
Water content, %	42.2			
Wet density, pcf	108.1			
Dry density, pcf	76.0			
Saturation, %	93.6			
Void ratio	1.2181			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH2 w/ SIF

GS= 2.7 Type: Undisturbed

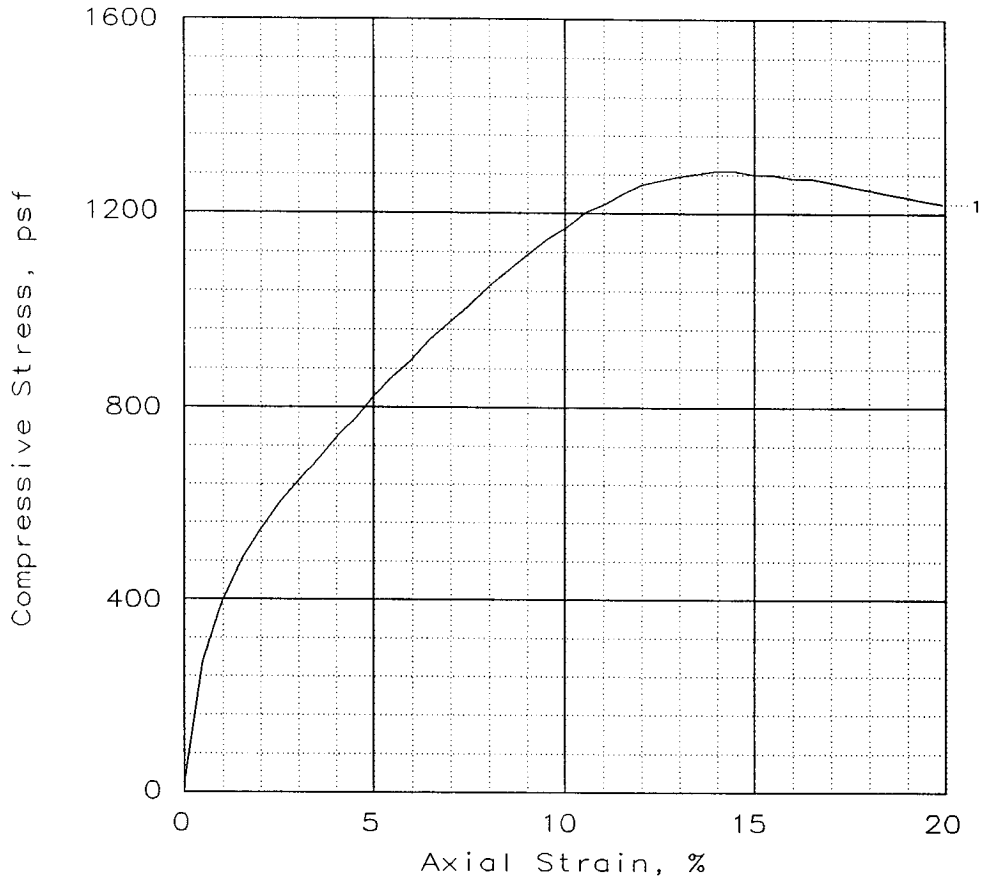
Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 0.400 tsf

Fig. No.: _____

Client: U.S. Army Corps of Engineers
 Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 20, Depth 45.3'

UNCONFINED COMPRESSION TEST
Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1288			
Undrained shear strength, psf	644			
Failure strain, %	14.0			
Strain rate, in/min	0.0576			
Water content, %	43.6			
Wet density, pcf	108.2			
Dry density, pcf	75.3			
Saturation, %	94.6			
Void ratio	1.2546			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH3 w/ SIF, ars SM

GS= 2.72

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.375 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

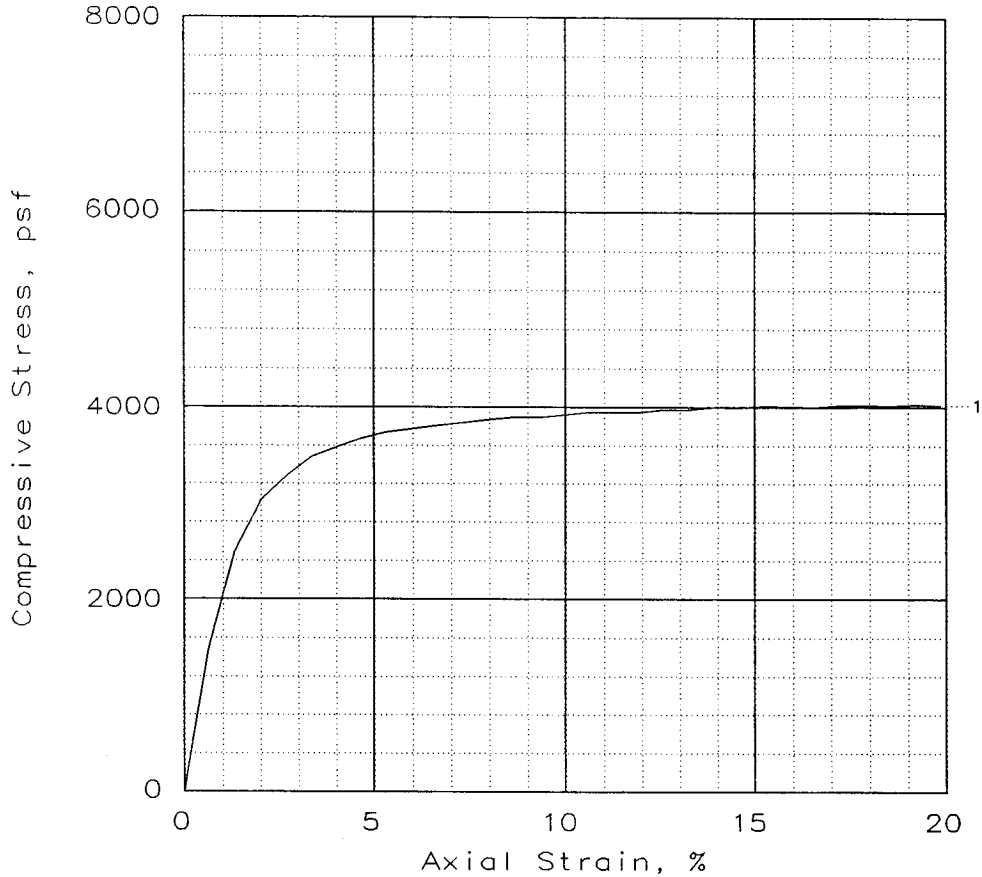
Sample 22, Depth 50.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	3895			
Undrained shear strength, psf	1947			
Failure strain, %	8.6			
Strain rate, in/min	0.0569			
Water content, %	26.6			
Wet density, pcf	122.3			
Dry density, pcf	96.6			
Saturation, %	95.5			
Void ratio	0.7571			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St IGr & T CH3 w/ ars SM, SL

	GS= 2.72	Type: Undisturbed
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Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 1.000 tsf

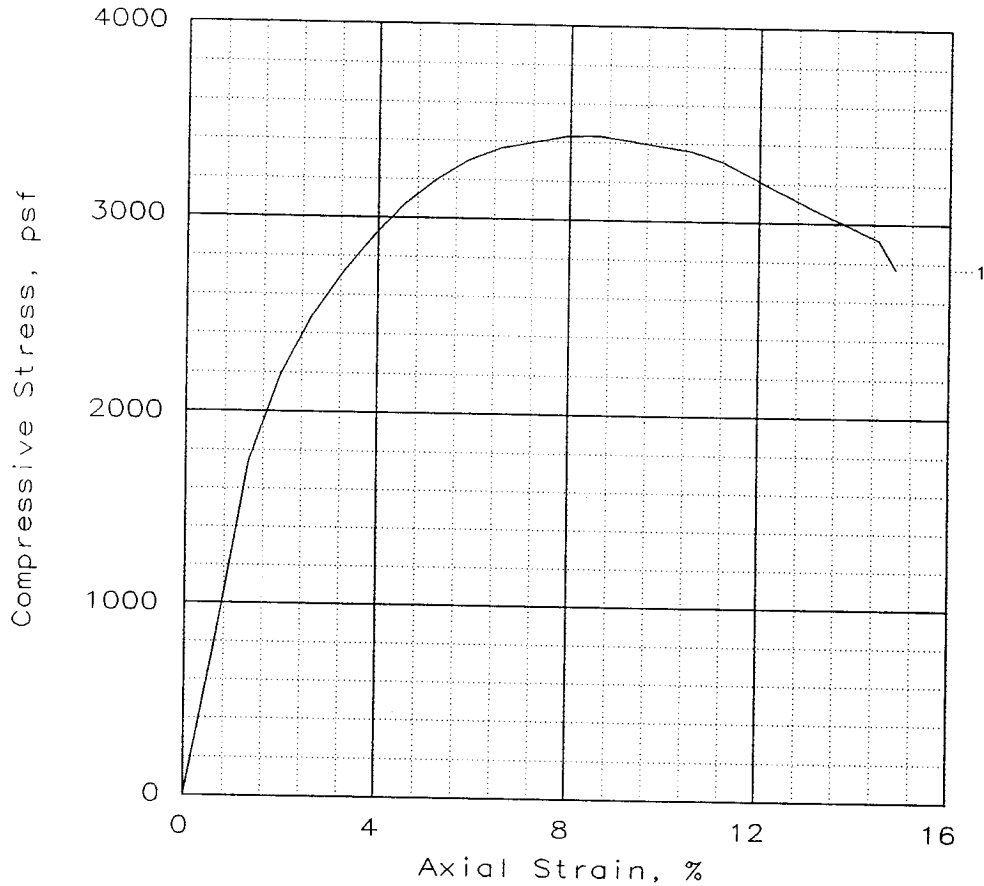
Fig. No.: _____

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 23, Depth 52.8'

UNCONFINED COMPRESSION TEST
Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	3435			
Undrained shear strength, psf	1717			
Failure strain, %	8.6			
Strain rate, in/min	0.0570			
Water content, %	32.4			
Wet density, pcf	118.4			
Dry density, pcf	89.4			
Saturation, %	98.0			
Void ratio	0.8991			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St 1Gr & T CH3 w/ ars SM, SL

GS= 2.72 Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Client: U.S. Army Corps of Engineers

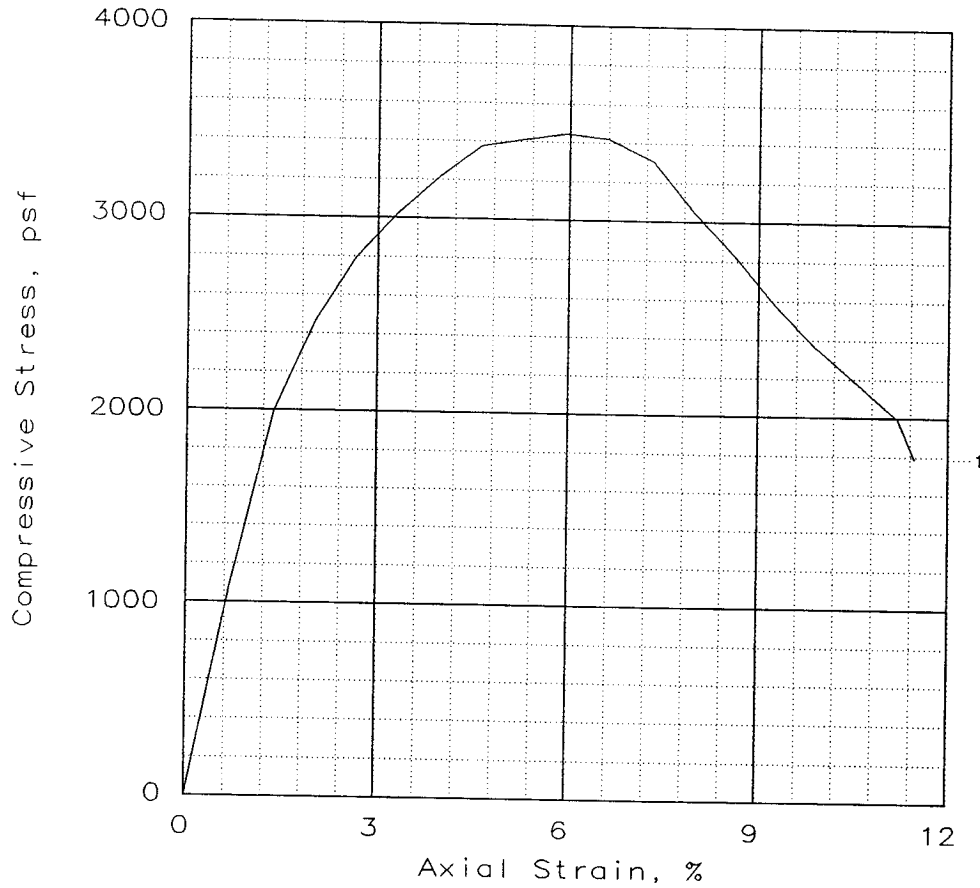
Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 24, Depth 55.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	3445			
Undrained shear strength, psf	1723			
Failure strain, %	5.9			
Strain rate, in/min	0.0549			
Water content, %	32.2			
Wet density, pcf	118.3			
Dry density, pcf	89.5			
Saturation, %	96.8			
Void ratio	0.9119			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St T & IGr CH4 w/ SL

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 1.750 tsf

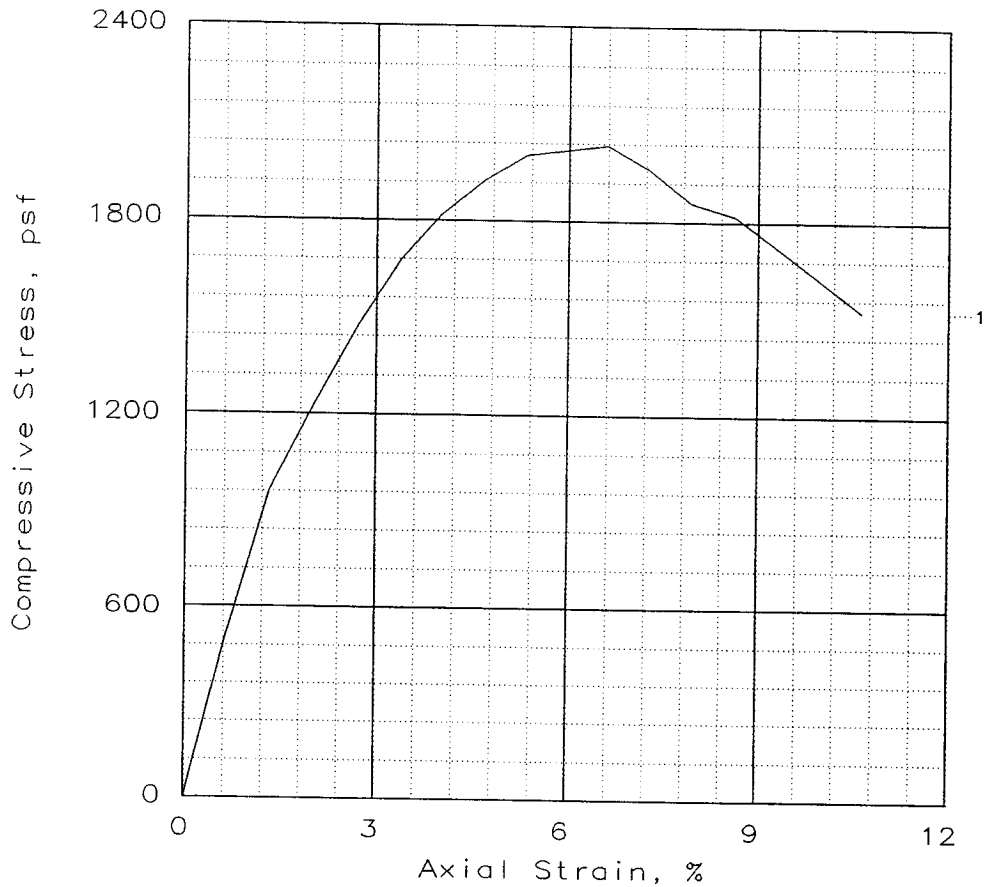
Client: U.S. Army Corps of Engineers
 Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 26, Depth 60.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2035			
Undrained shear strength, psf	1017			
Failure strain, %	6.6			
Strain rate, in/min	0.0566			
Water content, %	27.5			
Wet density, pcf	118.5			
Dry density, pcf	92.9			
Saturation, %	91.2			
Void ratio	0.8135			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St 1Gr & T CH3 w/ Ins SM, cc

	GS= 2.7	Type: Undisturbed
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Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 1.325 tsf

Fig. No.: _____

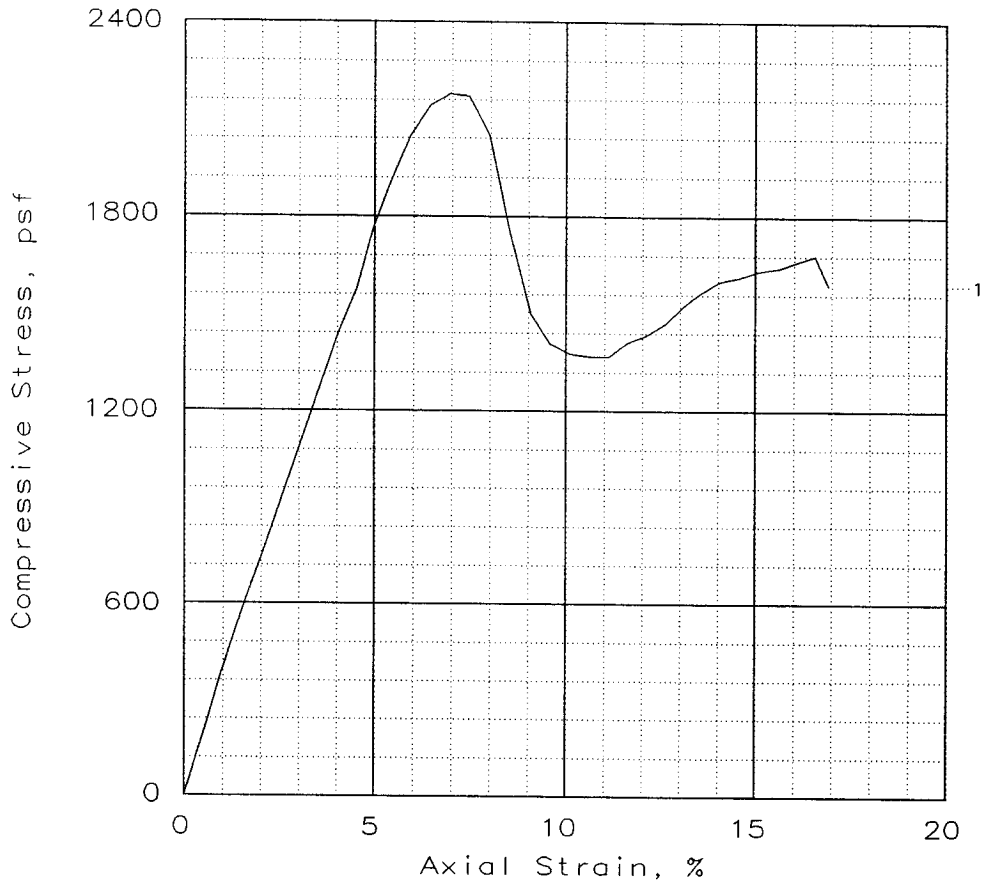
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 27, Depth 62.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2177			
Undrained shear strength, psf	1088			
Failure strain, %	7.0			
Strain rate, in/min	0.0567			
Water content, %	24.9			
Wet density, pcf	121.5			
Dry density, pcf	97.3			
Saturation, %	91.8			
Void ratio	0.7317			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St T CL6 w/ lys CH, cc

GS= 2.7

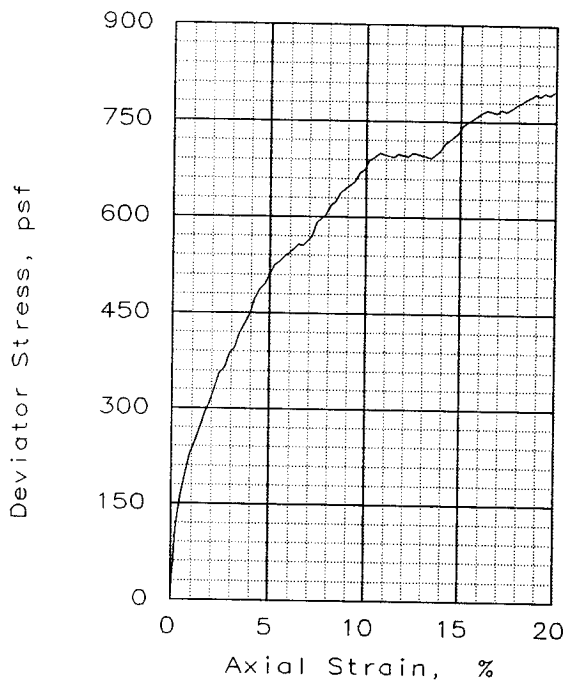
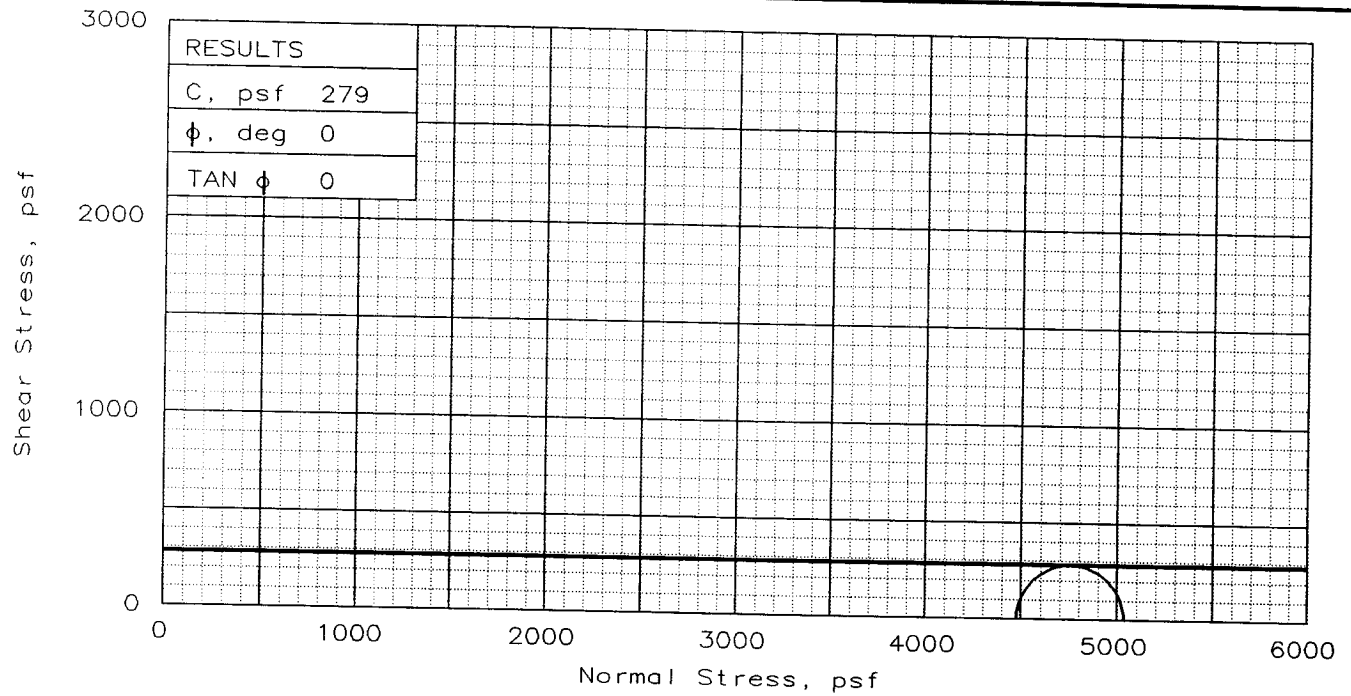
Type: Undisturbed

Project No.: 19081
 Date: 10-18-05
 Remarks:
 Torvane = 0.750 tsf

Client: U.S. Army Corps of Engineers
 Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 29, Depth 67.8'

UNCONFINED COMPRESSION TEST
Eustis Engineering Company, Inc.

Fig. No.: _____



SPECIMEN NO.:		1
INITIAL	WATER CONTENT, %	31.0
	DRY DENSITY, pcf	89.2
	SATURATION, %	95.4
	VOID RATIO	0.868
	DIAMETER, in	1.39
AT TEST	HEIGHT, in	2.93
	WATER CONTENT, %	32.5
	DRY DENSITY, pcf	89.3
	SATURATION, %	100.0
	VOID RATIO	0.867
DIAMETER, in	1.39	
HEIGHT, in	2.93	
Strain rate, in/min	0.0288	
BACK PRESSURE, psf	0	
CELL PRESSURE, psf	4478	
FAIL. STRESS, psf	557	
ULT. STRESS, psf	798	
σ_1 FAILURE, psf	5036	
σ_3 FAILURE, psf	4478	

TYPE OF TEST:
Unconsolidated Undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION: T & Gr ML2
w/ Ins CH

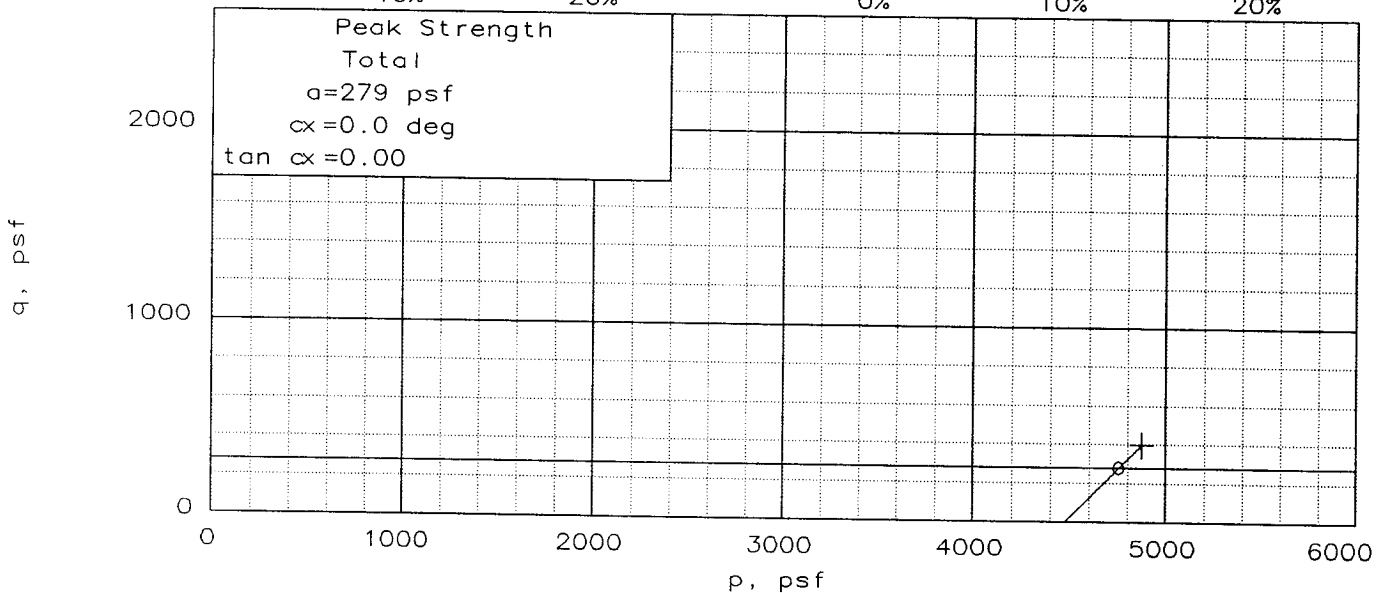
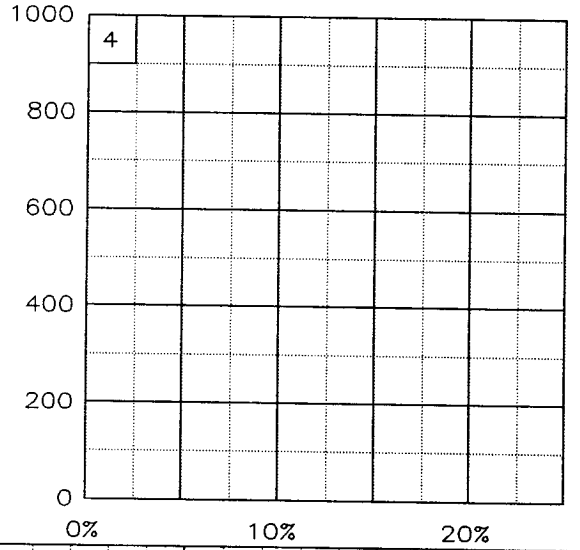
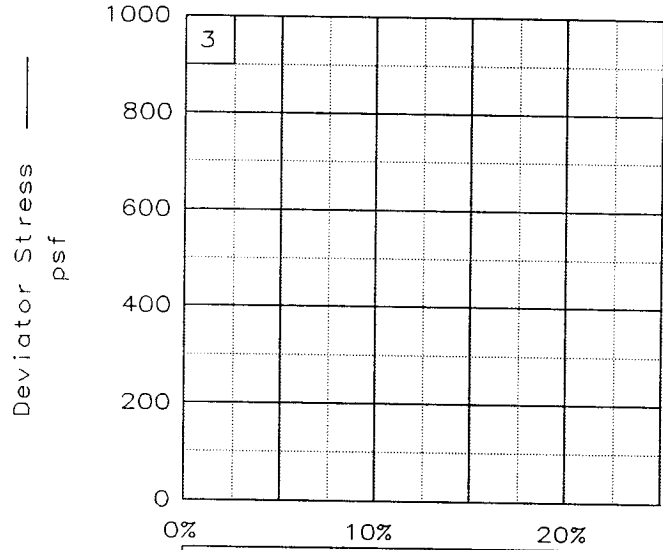
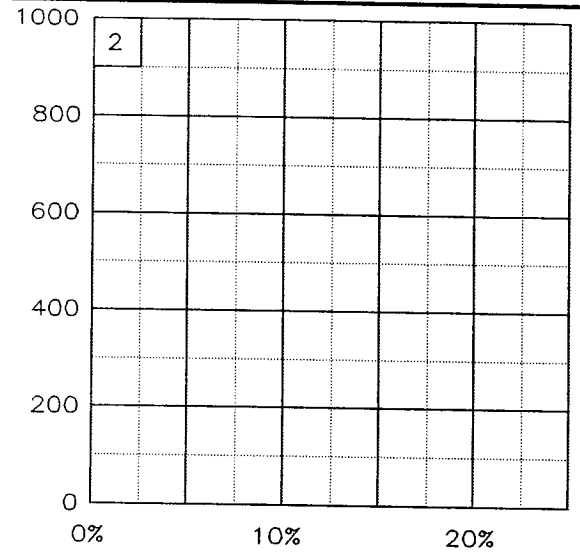
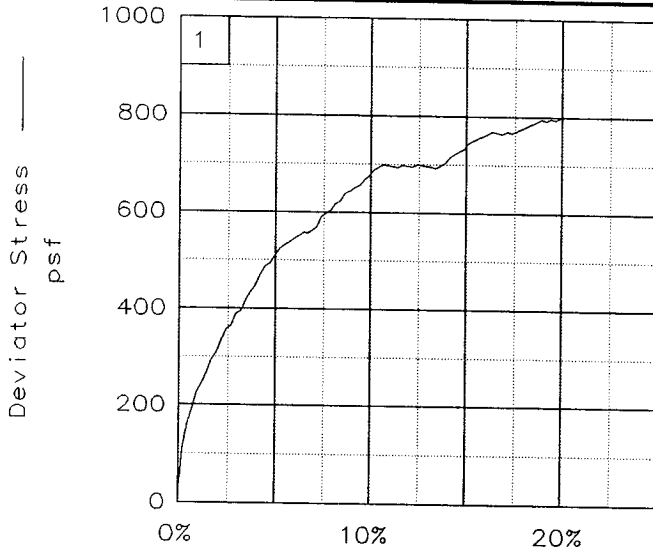
SPECIFIC GRAVITY= 2.67
REMARKS:

CLIENT: U.S. Army Corps of Engineers
PROJECT: Repairs to Levees and Floodwalls
London Avenue Canal, New Orleans, La
SAMPLE LOCATION: Boring LAC05-3G,
Sample 33, Depth 77.8'
PROJ. NO.: 19081 DATE: 10-18-05

TRIAXIAL SHEAR TEST REPORT

Eustis Engineering Company, Inc.

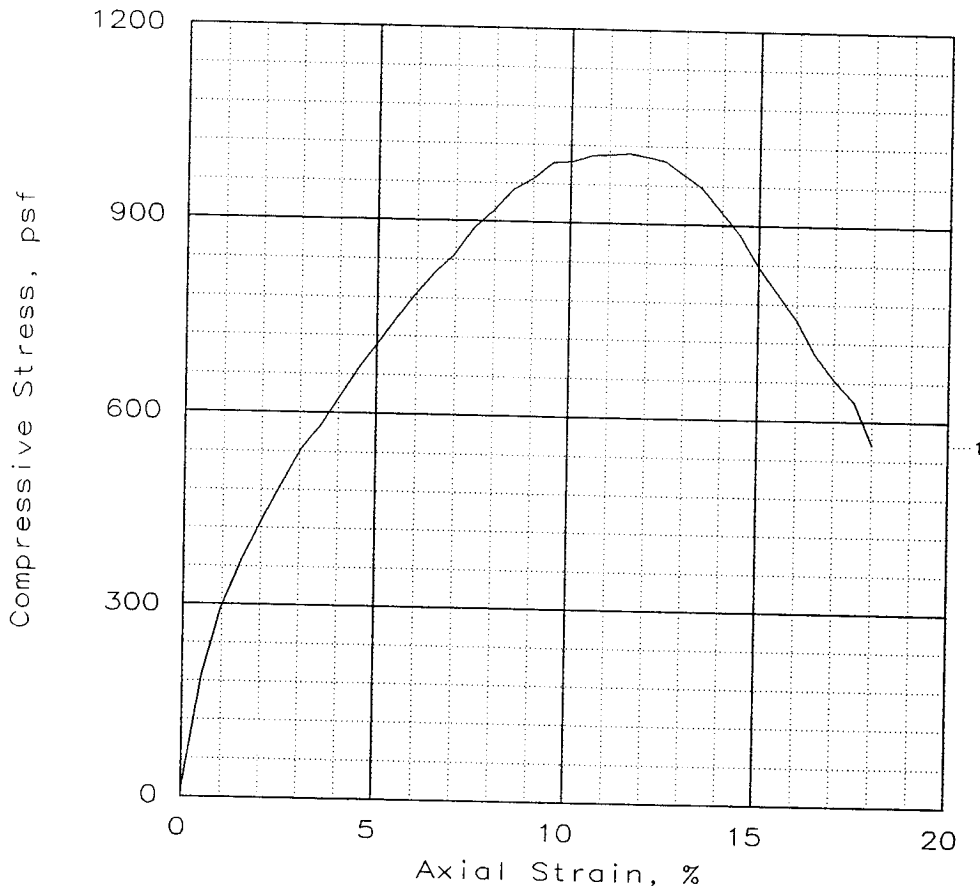
Fig. No.: _____



Stress Paths: + indicates end O indicates peak

Client: U.S. Army Corps of Engineers
 Project: Repairs to Levees and Floodwalls London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G, Sample 33, Depth 77.8'
 File: UU-25121 Project No.: 19081 Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1008			
Undrained shear strength, psf	504			
Failure strain, %	11.6			
Strain rate, in/min	0.0578			
Water content, %	42.3			
Wet density, pcf	110.6			
Dry density, pcf	77.7			
Saturation, %	96.5			
Void ratio	1.2022			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ Ins SM

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.400 tsf

Client: U.S. Army Corps of Engineers

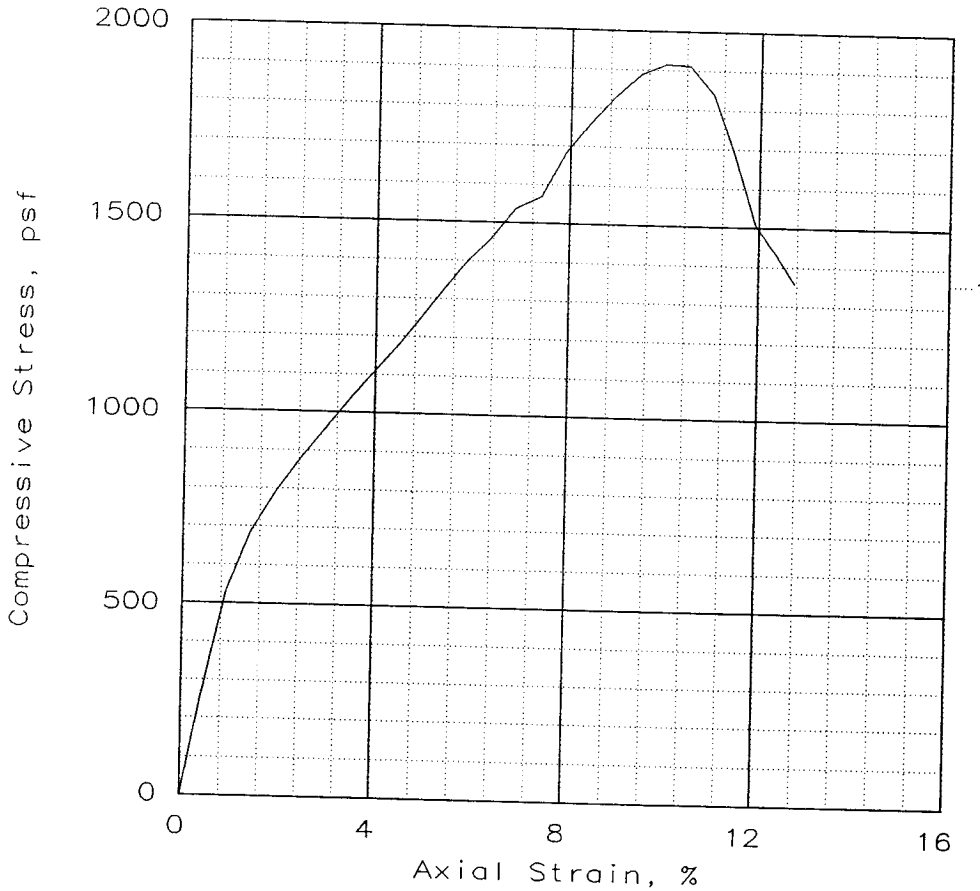
Project: Repairs to Levees and Floodwalls
 London Avenue Canal, New Orleans, La
 Location: Boring LAC05-3G,
 Sample 34, Depth 80.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1915			
Undrained shear strength, psf	957			
Failure strain, %	10.0			
Strain rate, in/min	0.0573			
Water content, %	45.8			
Wet density, pcf	107.7			
Dry density, pcf	73.9			
Saturation, %	95.3			
Void ratio	1.3156			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ Ins SM

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.570 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

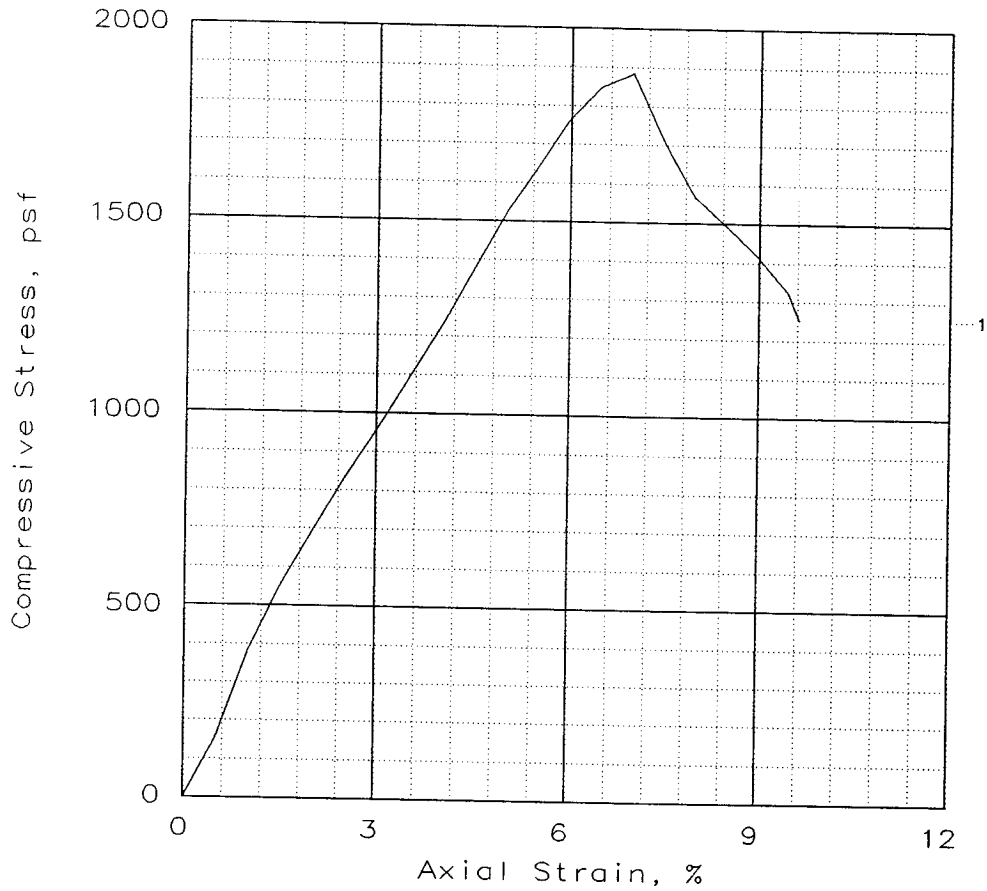
Sample 36, Depth 85.3'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1884			
Undrained shear strength, psf	942			
Failure strain, %	7.0			
Strain rate, in/min	0.0570			
Water content, %	38.8			
Wet density, pcf	112.5			
Dry density, pcf	81.1			
Saturation, %	95.8			
Void ratio	1.1101			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ Ins SM

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.460 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

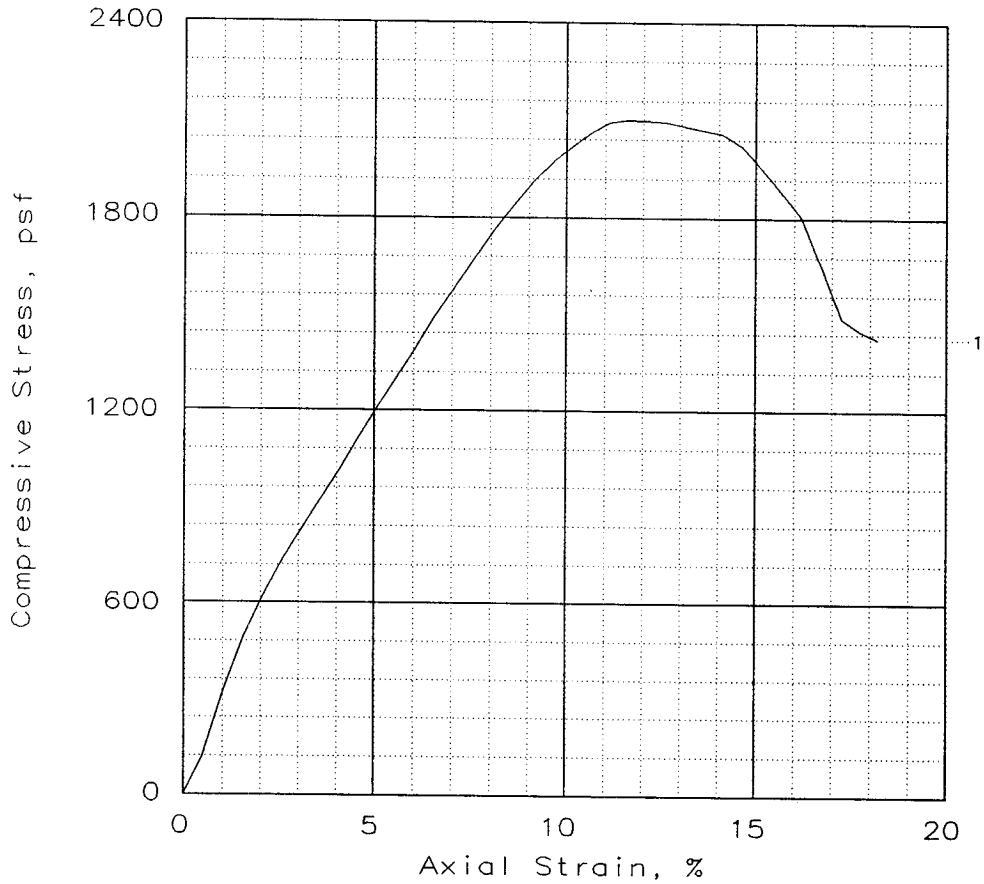
Sample 37, Depth 87.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1		
Unconfined strength, psf	2101		
Undrained shear strength, psf	1051		
Failure strain, %	11.6		
Strain rate, in/min	0.0575		
Water content, %	38.7		
Wet density, pcf	112.4		
Dry density, pcf	81.0		
Saturation, %	95.4		
Void ratio	1.1118		
Specimen diameter, in	1.39		
Specimen height, in	2.93		
Height/diameter ratio	2.11		

Description: St Gr CH4 w/ Ins SM

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.480 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

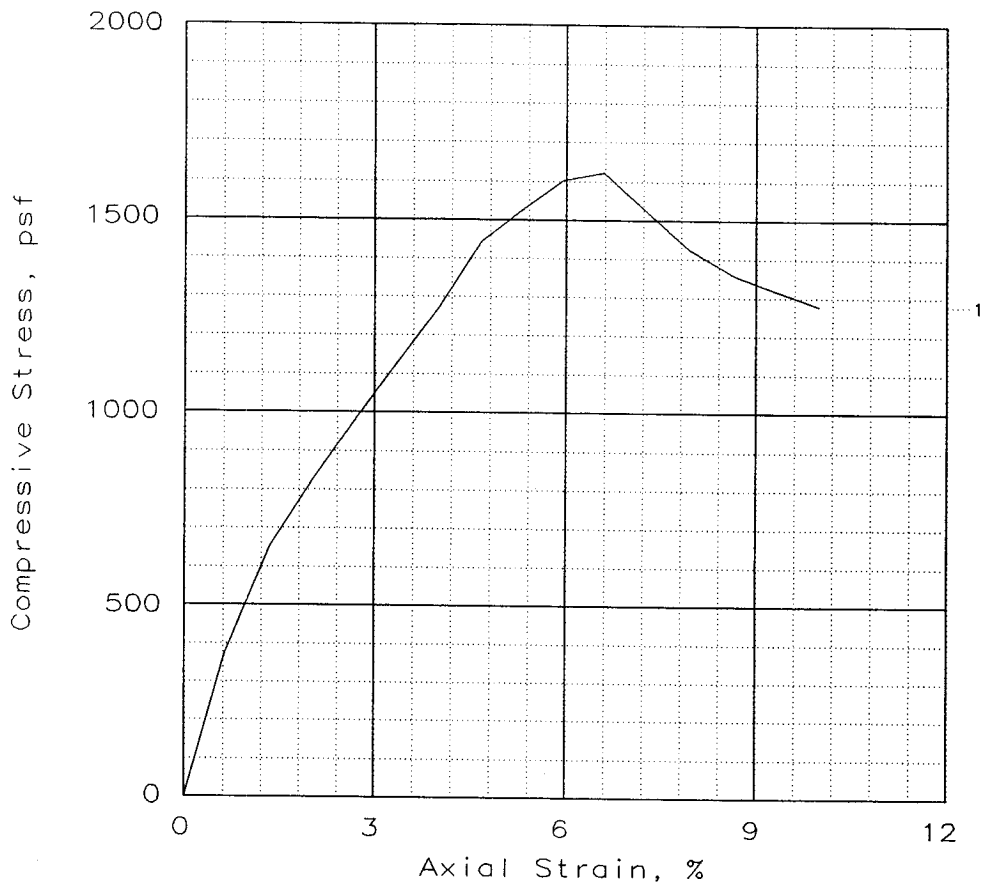
Sample 39, Depth 92.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1622			
Undrained shear strength, psf	811			
Failure strain, %	6.6			
Strain rate, in/min	0.0560			
Water content, %	39.6			
Wet density, pcf	111.2			
Dry density, pcf	79.7			
Saturation, %	94.6			
Void ratio	1.1465			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ Ins ML

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 1.375 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-3G,

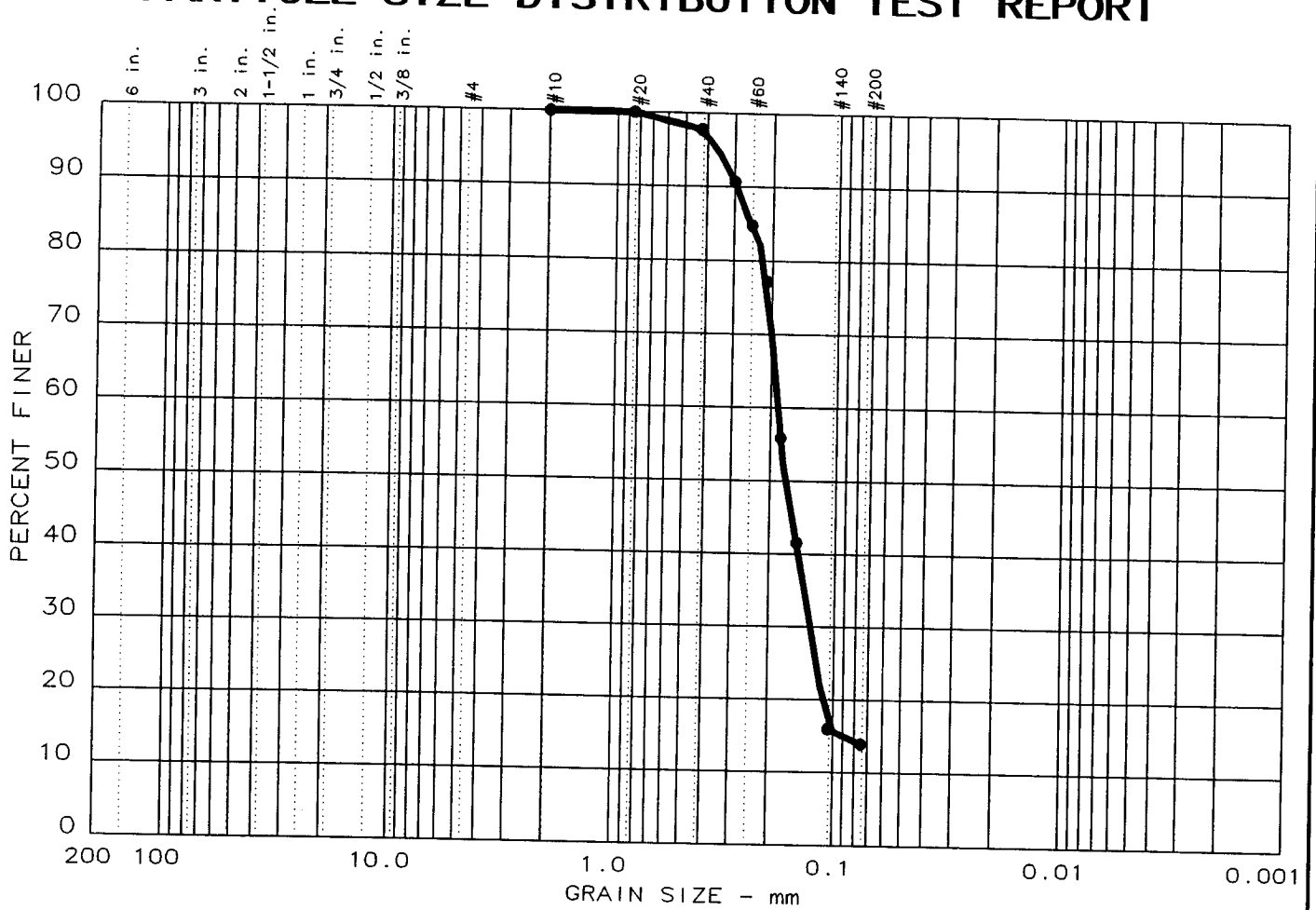
Sample 41, Depth 97.8'

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

Fig. No.: _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 9	0.0	0.0	86.1	13.9		SM1-s		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D ₆₀	0.19		
D ₃₀	0.13		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
10	100.0		
20	99.9		
40	97.7		
50	90.7		
60	84.8		
70	77.2		
80	55.9		
100	41.5		
140	16.0		
200	13.9		

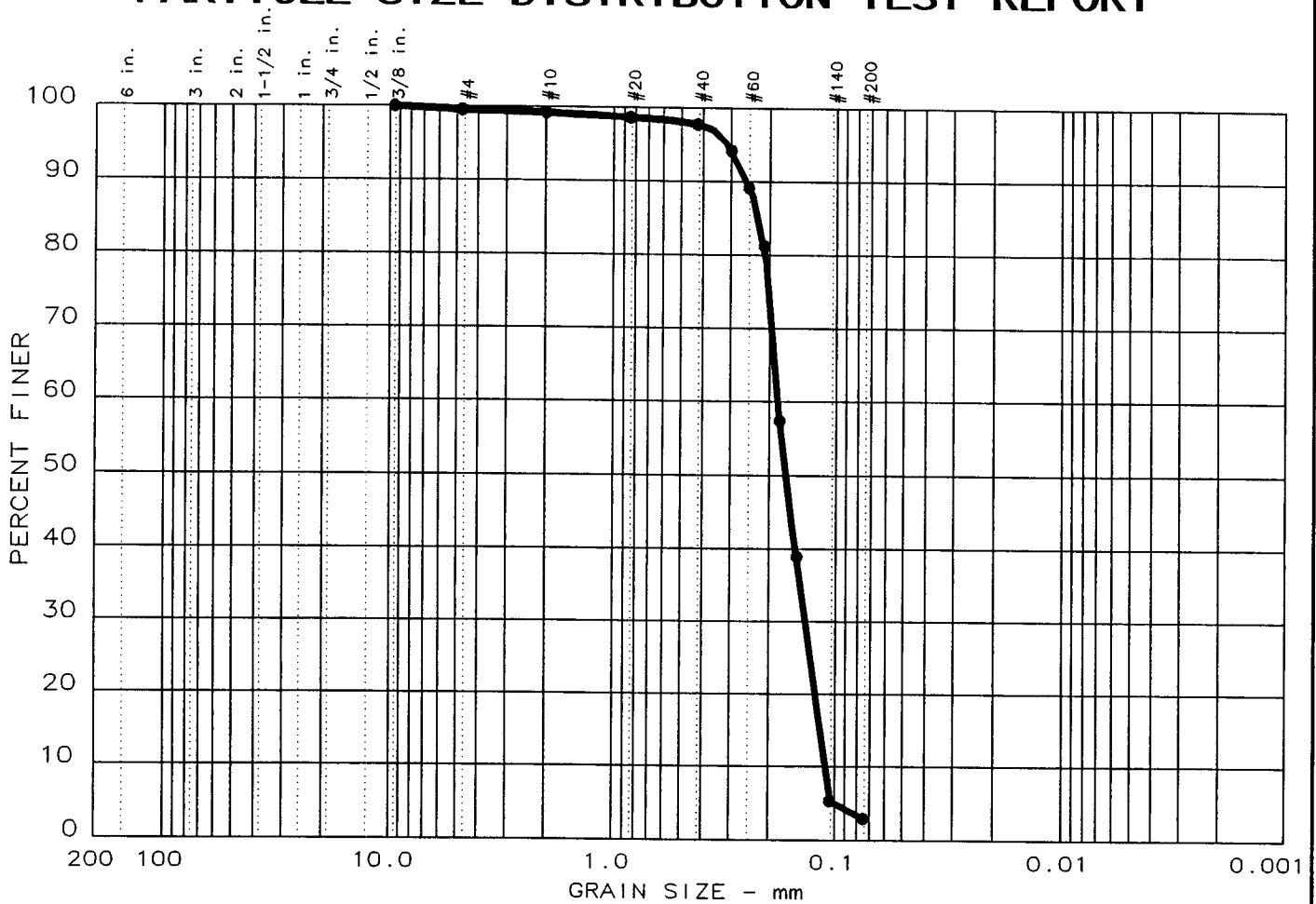
Sample information:
 ● Bor. LAC05-3G, Sample 8
 GR SM1-s W/ TR RT

Remarks:
 Sample depth 15.0'

**Eustis
Engineering
Company, Inc.**

Project No.: 19081
 Project: USACE - London Ave Canal
 Date: 10-31-05
 Data Sheet No. _____

PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 11	0.0	0.5	96.6	2.9		SP		

SIEVE inches size	PERCENT FINER	
	●	
0.375	100.0	
X GRAIN SIZE		
D ₆₀	0.18	
D ₃₀	0.14	
D ₁₀	0.11	
X COEFFICIENTS		
C _c	0.92	
C _u	1.6	

SIEVE number size	PERCENT FINER	
	●	
4	99.5	
10	99.2	
20	98.6	
40	97.7	
50	94.2	
60	89.1	
70	81.2	
80	57.4	
100	38.9	
140	5.3	
200	2.9	

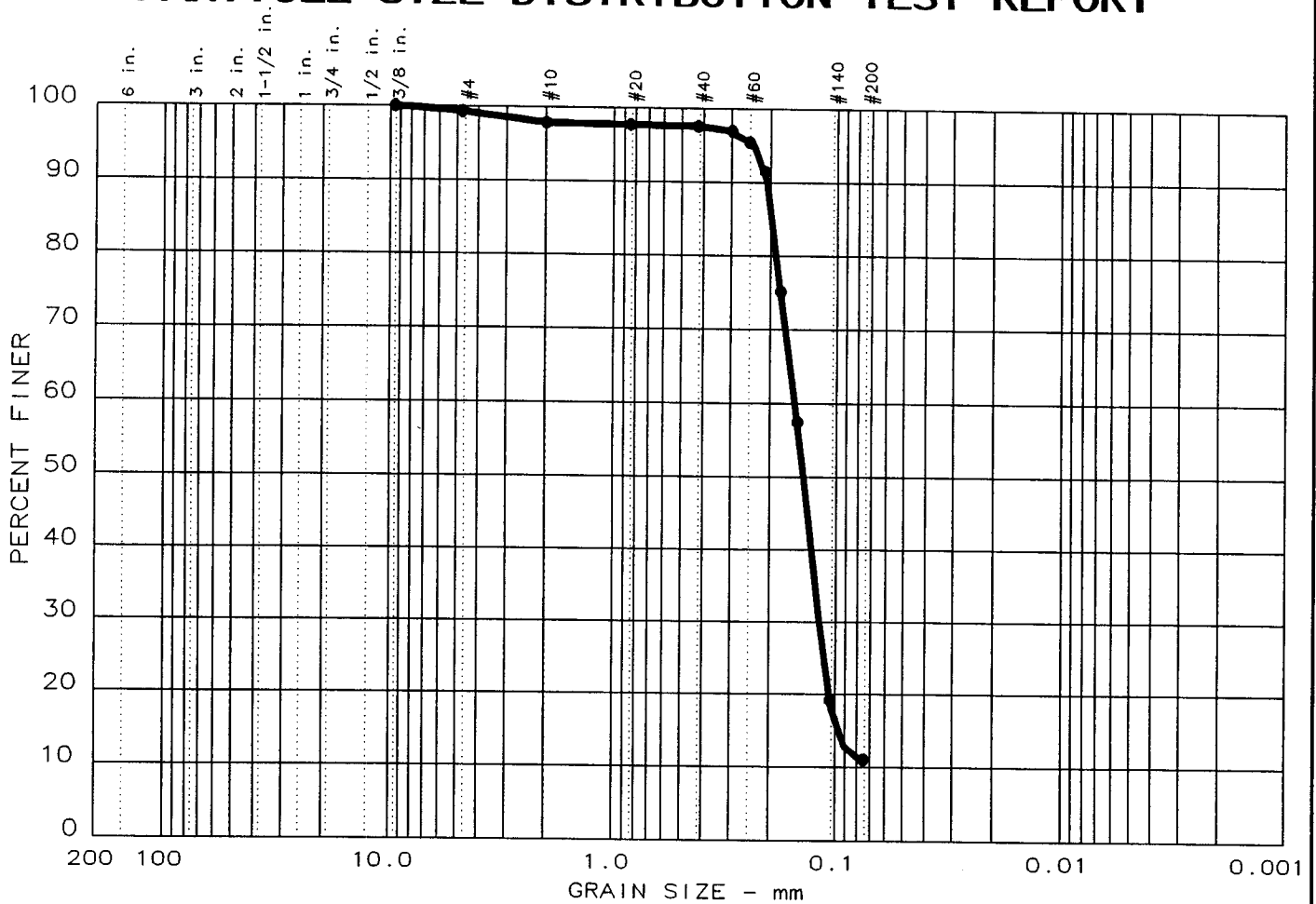
Sample information:
 ● Bor. LAC05-3G, Sample 12
 GR SP W/ TR SIF

Remarks:
 Sample depth 25.0'

**Eustis
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PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 12	0.0	0.7	88.3	11.0		SM1-s		

SIEVE inches size	PERCENT FINER		
	●		
0.375	100.0		
GRAIN SIZE			
D ₆₀	0.15		
D ₃₀	0.12		
D ₁₀			
COEFFICIENTS			
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
4	99.3		
10	97.9		
20	97.7		
40	97.6		
50	97.0		
60	95.4		
70	91.5		
80	75.1		
100	57.5		
140	19.2		
200	11.0		

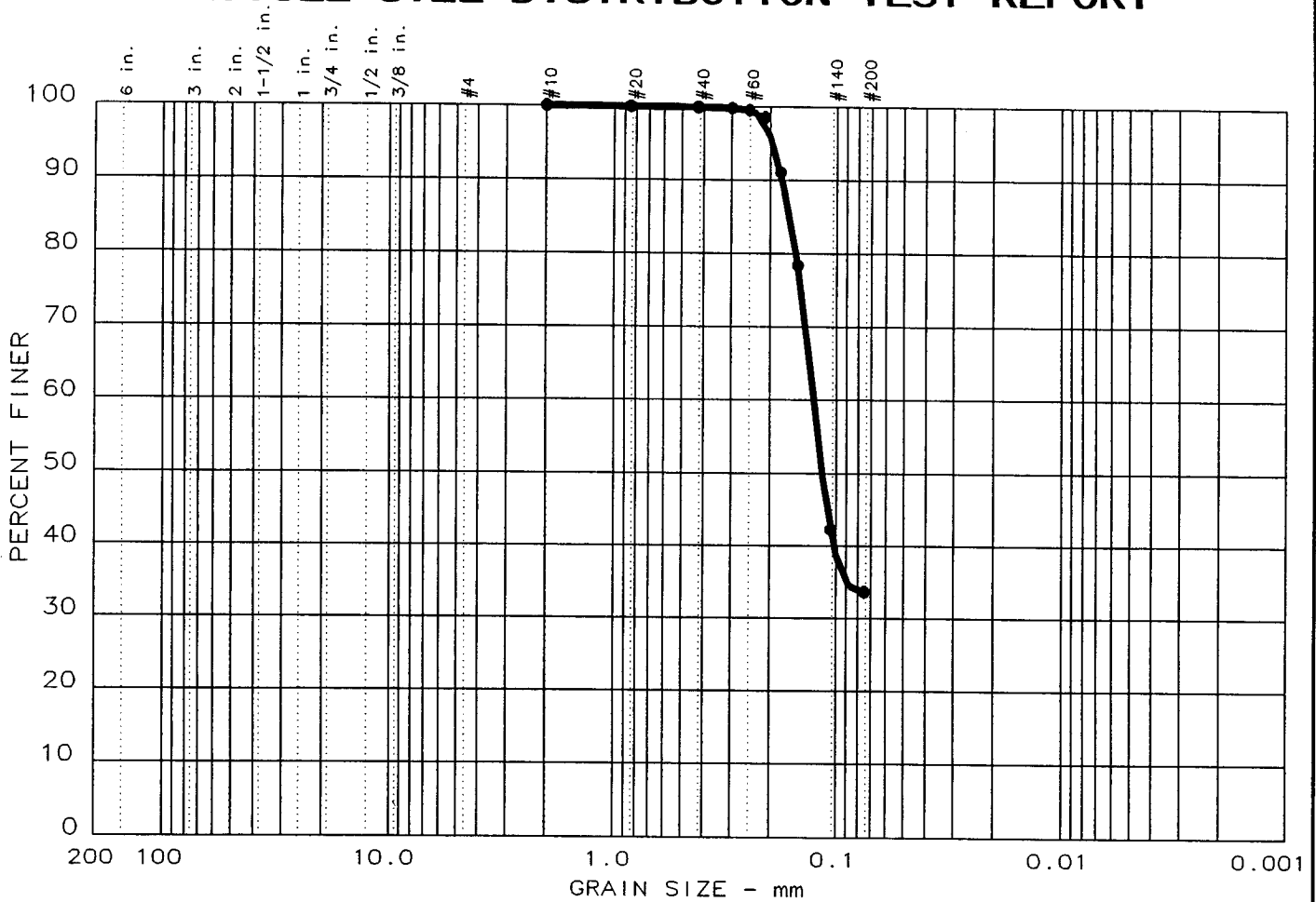
Sample information:
 ● Bor. LAC05-3G, Sample 16
 GR SM1-s W/ TR SIF

Remarks:
 Sample depth 35.0'

**Eustis
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Company, Inc.**

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PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 13	0.0	0.0	66.4	33.6		SM1		

SIEVE inches size	PERCENT FINER		
	●		
X	GRAIN SIZE		
D ₆₀	0.13		
D ₃₀			
D ₁₀			
X	COEFFICIENTS		
C _c			
C _u			

SIEVE number size	PERCENT FINER		
	●		
10	100.0		
20	99.9		
40	99.8		
50	99.7		
60	99.5		
70	98.5		
80	91.0		
100	78.4		
140	42.3		
200	33.6		

Sample information:
 ● Bor. LAC05-3G, Sample 18
 GR SM1

Remarks:
 Sample depth 40.0'

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