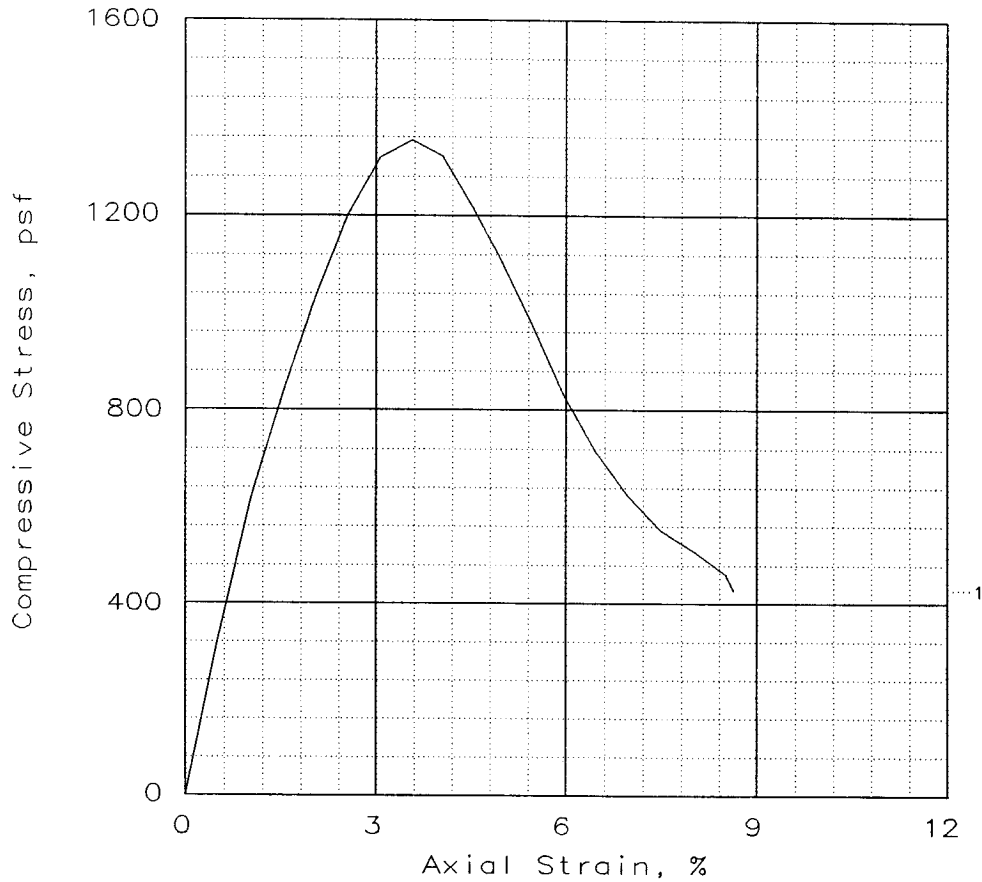


## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1354			
Undrained shear strength, psf	677			
Failure strain, %	3.6			
Strain rate, in/min	0.0568			
Water content, %	47.2			
Wet density, pcf	103.8			
Dry density, pcf	70.5			
Saturation, %	90.7			
Void ratio	1.4250			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr & T CH4 w/ SL, rt

GS= 2.74

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 LAC05-2G,

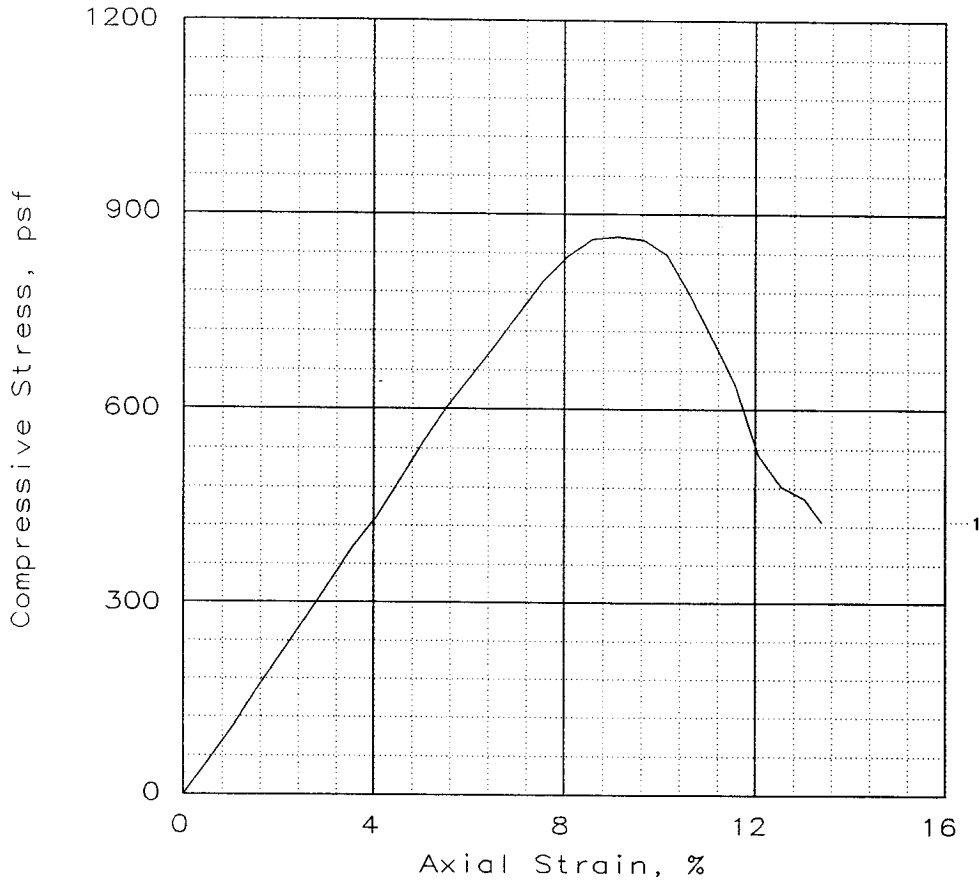
Sample 6, Depth 12.8'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	866			
Undrained shear strength, psf	433			
Failure strain, %	9.1			
Strain rate, in/min	0.0573			
Water content, %	40.1			
Wet density, pcf	109.3			
Dry density, pcf	78.0			
Saturation, %	93.4			
Void ratio	1.1600			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: So Gr CL5 w/ SIF

GS= 2.7

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.330 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-2G,

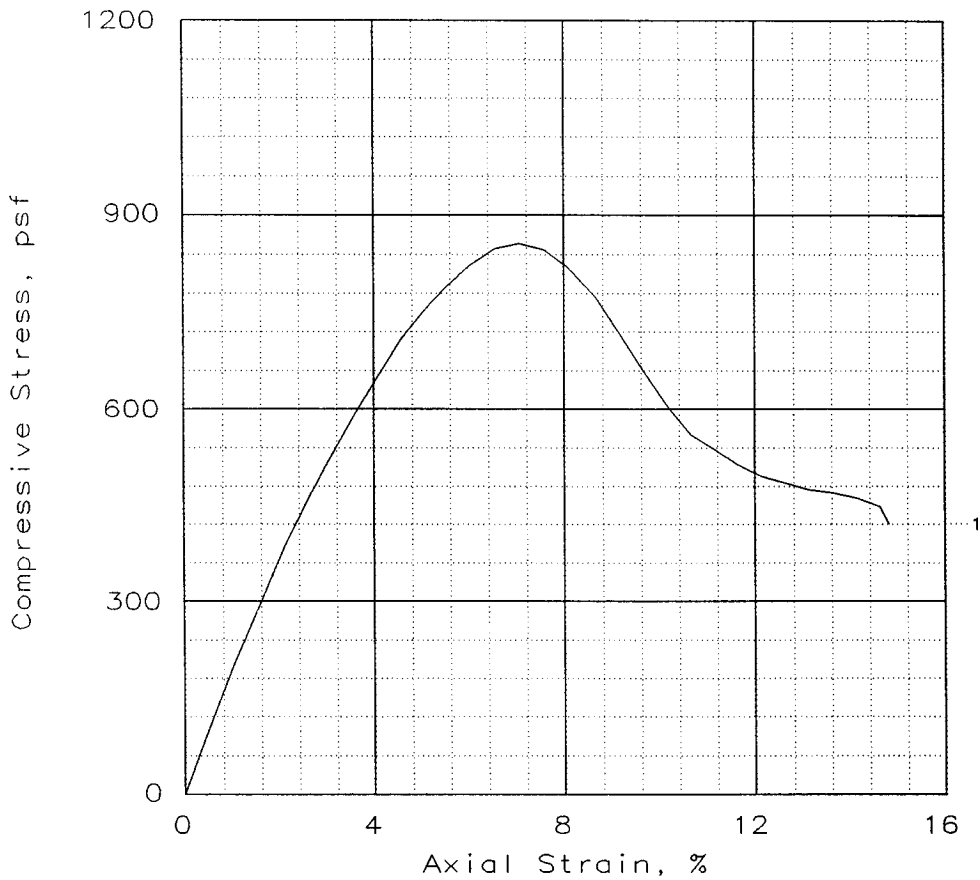
Sample 23, Depth 55.3'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1		
Unconfined strength, psf	856		
Undrained shear strength, psf	428		
Failure strain, %	7.1		
Strain rate, in/min	0.0578		
Water content, %	45.3		
Wet density, pcf	106.9		
Dry density, pcf	73.6		
Saturation, %	94.8		
Void ratio	1.2905		
Specimen diameter, in	1.39		
Specimen height, in	2.93		
Height/diameter ratio	2.11		

Description: So Gr CL5 w/ SIF

GS= 2.7

Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.270 tsf

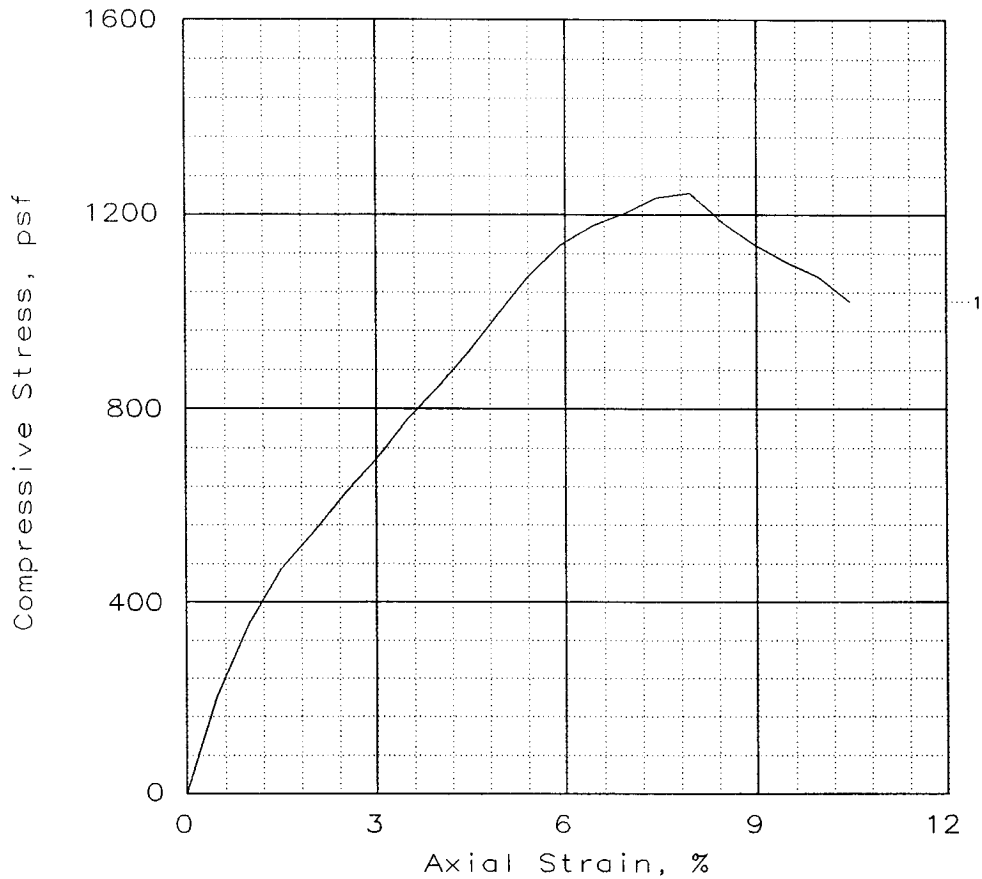
Client: U.S. Army Corps of Engineers  
 Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 24, Depth 57.8'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1245			
Undrained shear strength, psf	623			
Failure strain, %	7.9			
Strain rate, in/min	0.0569			
Water content, %	46.3			
Wet density, pcf	106.1			
Dry density, pcf	72.5			
Saturation, %	94.5			
Void ratio	1.3236			
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 = 0.420 tsf

Fig. No.: \_\_\_\_\_

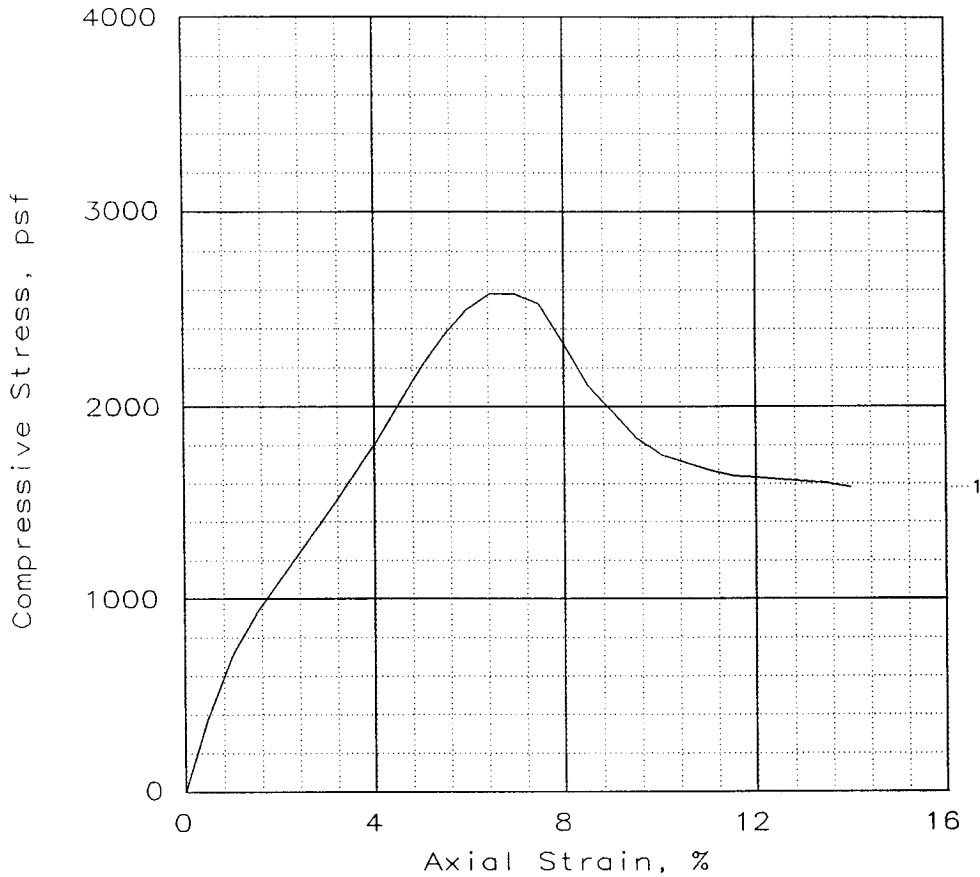
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 25, Depth 60.3'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

# UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2580			
Undrained shear strength, psf	1290			
Failure strain, %	7.0			
Strain rate, in/min	0.0575			
Water content, %	49.0			
Wet density, pcf	105.9			
Dry density, pcf	71.1			
Saturation, %	95.4			
Void ratio	1.4061			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ Ins SM, SL

GS= 2.74

Type: Undisturbed

Project No.: 19081

Date: 10-18-05

Remarks:

Torvane = 0.625 tsf

Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls

London Avenue Canal, New Orleans, La

Location: Boring LAC05-2G,

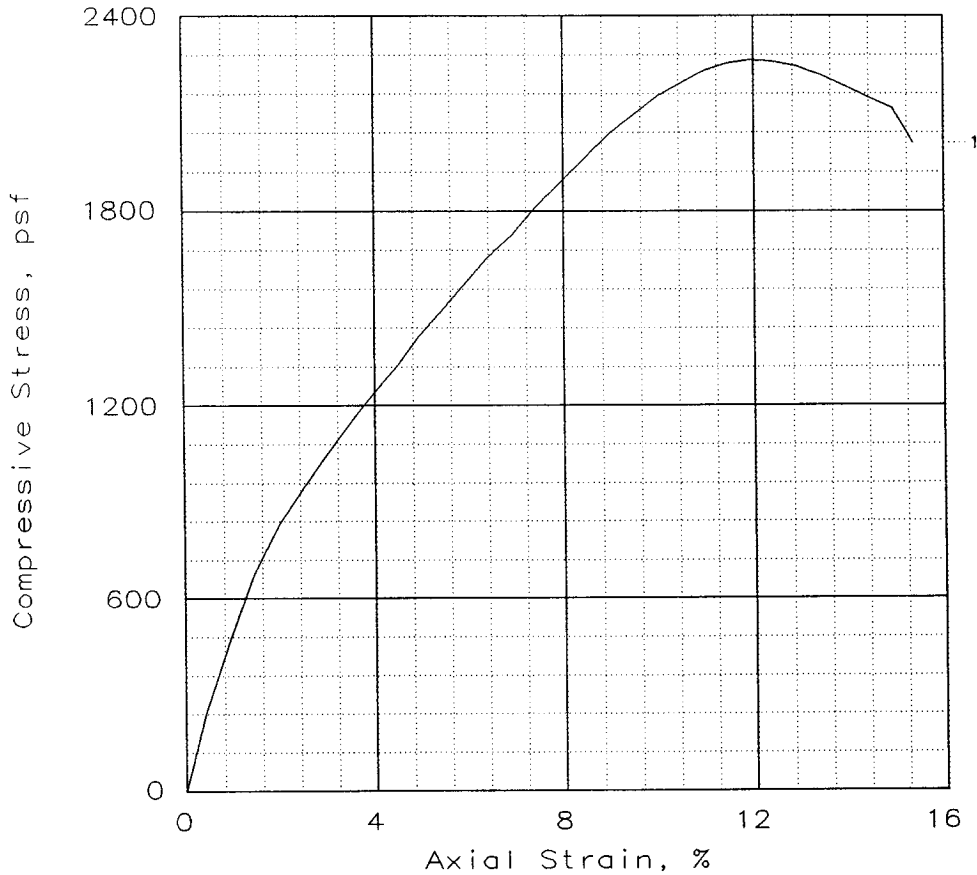
Sample 27, Depth 65.3'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2264			
Undrained shear strength, psf	1132			
Failure strain, %	11.9			
Strain rate, in/min	0.0573			
Water content, %	45.2			
Wet density, pcf	107.5			
Dry density, pcf	74.0			
Saturation, %	94.5			
Void ratio	1.3103			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ Ins SM, SL

GS= 2.74

Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.625 tsf

Client: U.S. Army Corps of Engineers

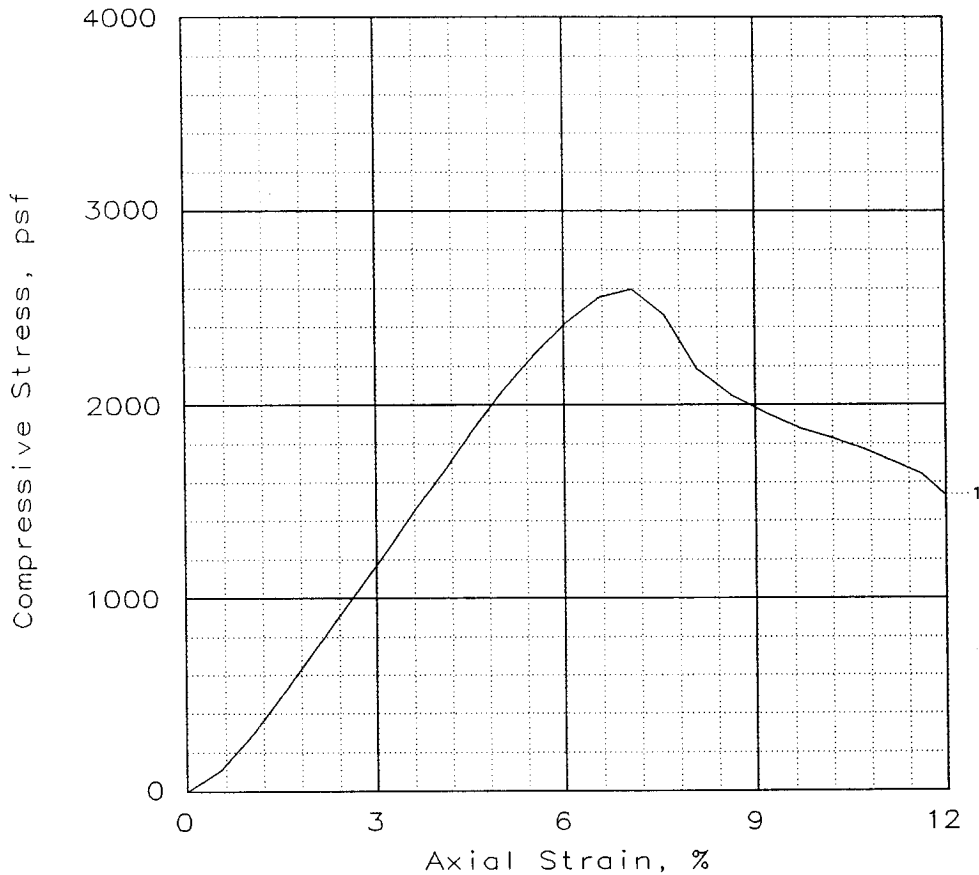
Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 29, Depth 70.3'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

# UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2596			
Undrained shear strength, psf	1298			
Failure strain, %	7.1			
Strain rate, in/min	0.0571			
Water content, %	49.6			
Wet density, pcf	105.1			
Dry density, pcf	70.3			
Saturation, %	95.2			
Void ratio	1.4160			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ ars SM, SIF, SL

GS= 2.72

Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.625 tsf

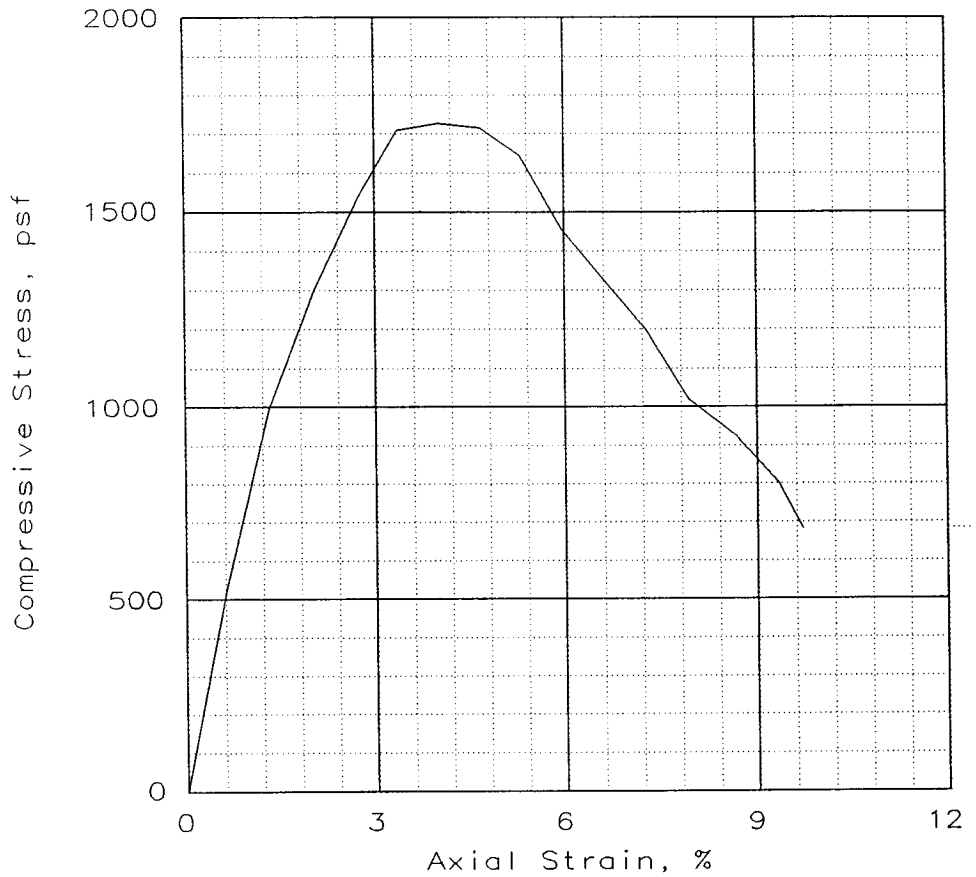
Client: U.S. Army Corps of Engineers  
 Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 31, Depth 75.3'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1727			
Undrained shear strength, psf	864			
Failure strain, %	4.0			
Strain rate, in/min	0.0561			
Water content, %	36.2			
Wet density, pcf	109.2			
Dry density, pcf	80.2			
Saturation, %	87.5			
Void ratio	1.1326			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH3 w/ Ins SM, Tr-wd

GS= 2.74

Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.500 tsf

Client: U.S. Army Corps of Engineers  
 Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 33, Depth 80.3'

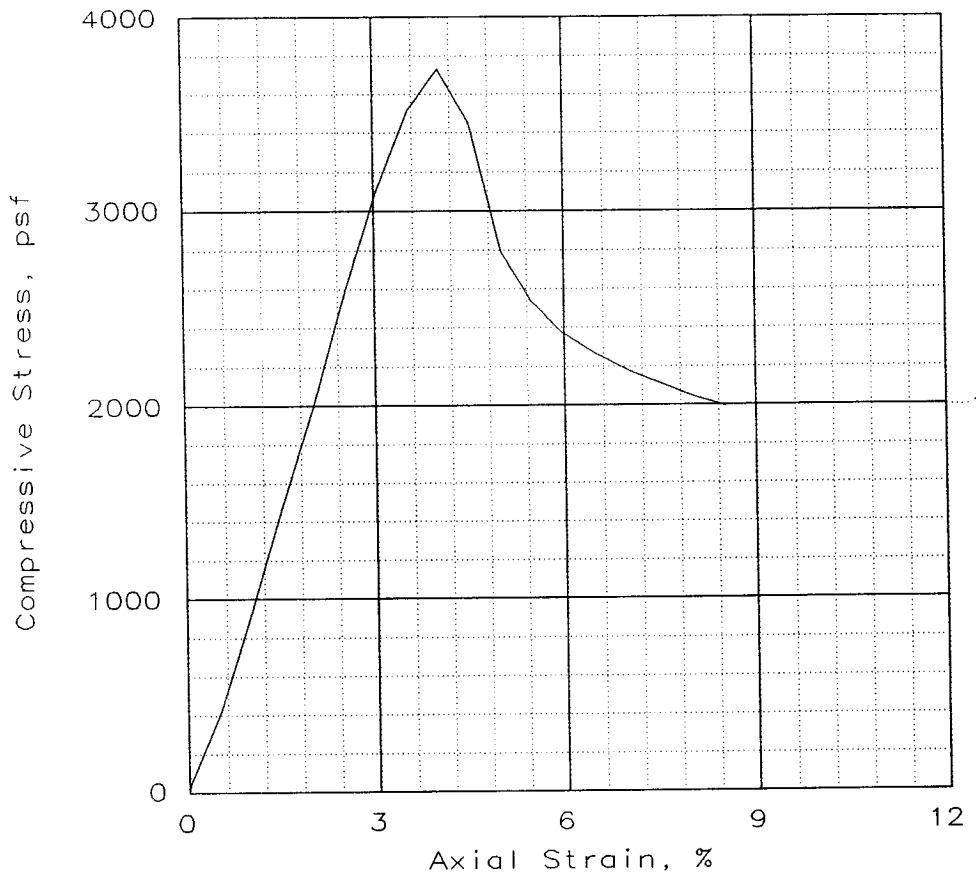
UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_



# UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	3731			
Undrained shear strength, psf	1866			
Failure strain, %	4.0			
Strain rate, in/min	0.0566			
Water content, %	52.4			
Wet density, pcf	101.9			
Dry density, pcf	66.9			
Saturation, %	92.2			
Void ratio	1.5584			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ Ins SM, SL, wd

GS= 2.74

Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.625 tsf

Client: U.S. Army Corps of Engineers

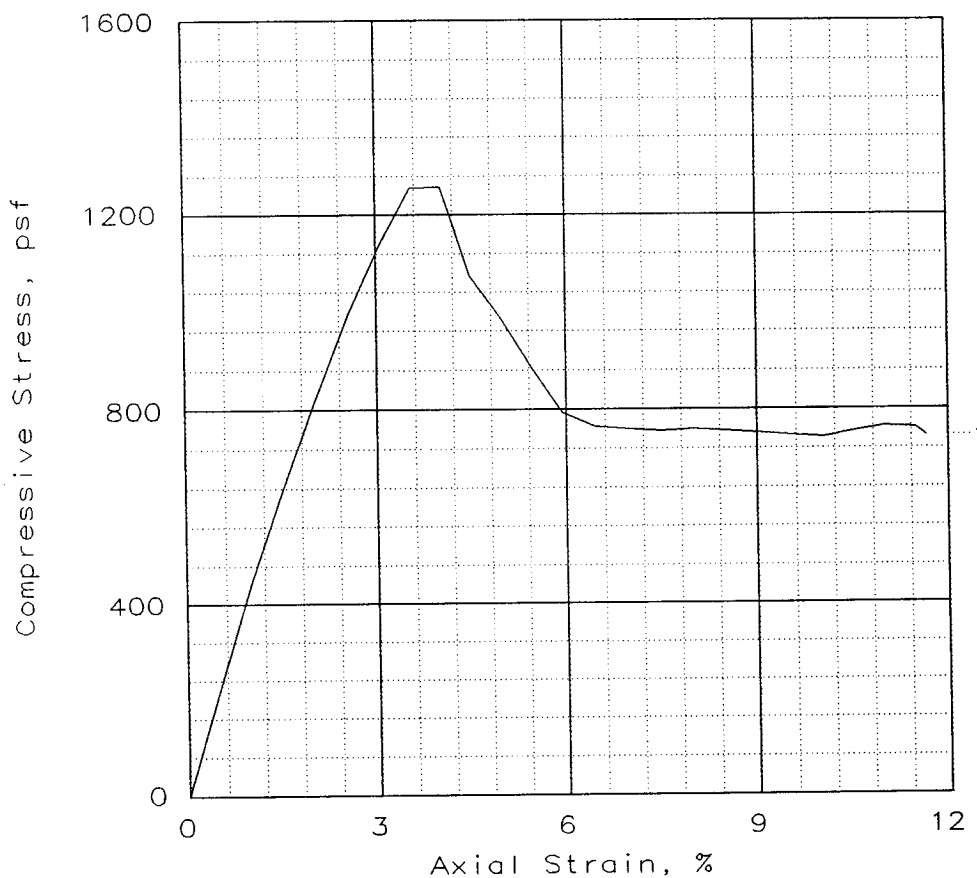
Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 38, Depth 92.8'

UNCONFINED COMPRESSION TEST

**Eustis Engineering Company, Inc.**

Fig. No.: \_\_\_\_\_

## UNCONFINED COMPRESSION TEST



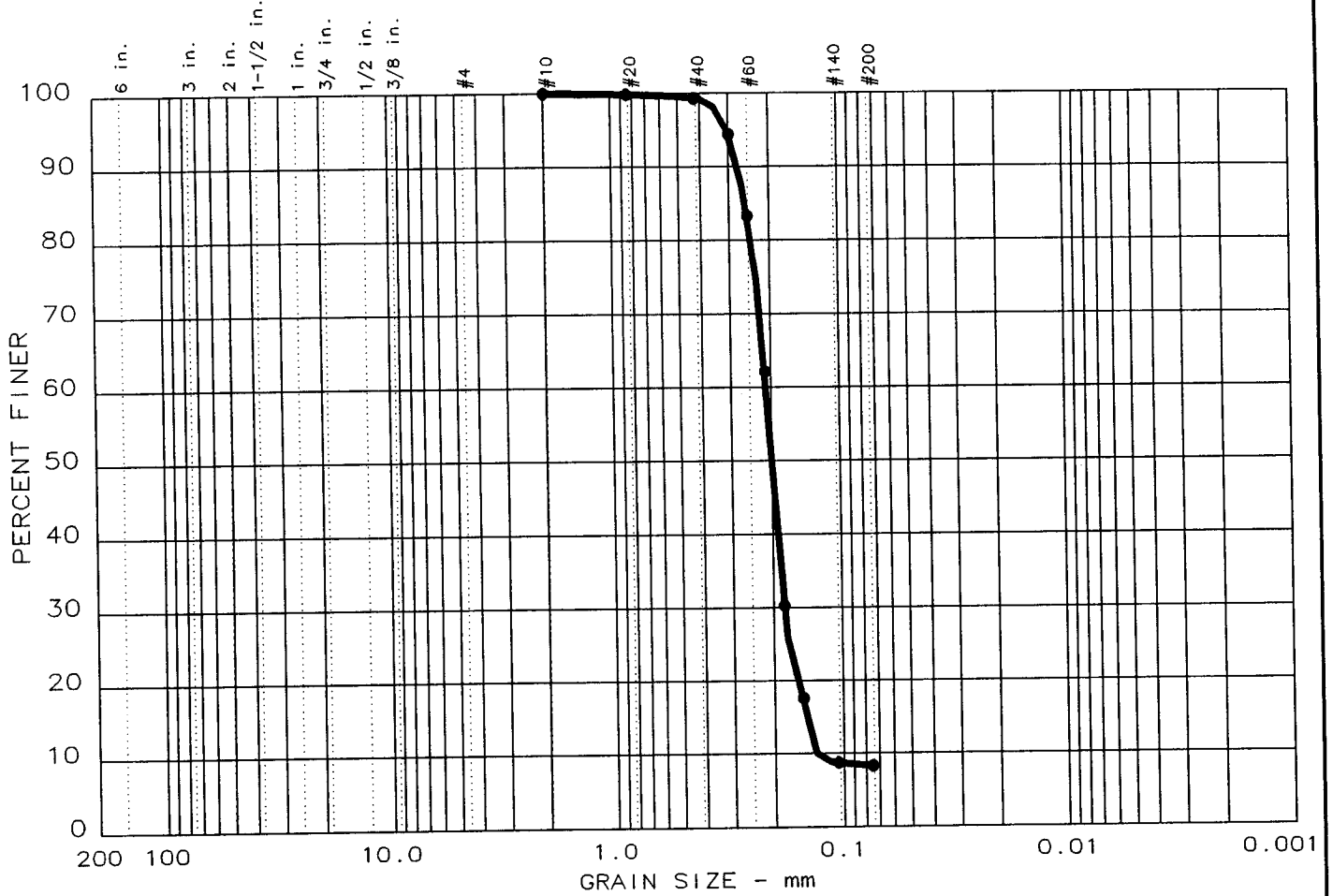
SPECIMEN NO.:	1			
Unconfined strength, psf	1257			
Undrained shear strength, psf	629			
Failure strain, %	4.0			
Strain rate, in/min	0.0575			
Water content, %	40.0			
Wet density, pcf	109.7			
Dry density, pcf	78.4			
Saturation, %	92.7			
Void ratio	1.1831			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH3 w/ Ins SM & ML GS= 2.74      Type: Undisturbed

Project No.: 19081  
 Date: 10-18-05  
 Remarks:  
 Torvane = 0.375 tsf  
 Fig. No.: \_\_\_\_\_

Client: U.S. Army Corps of Engineers  
 Project: Repairs to Levees and Floodwalls  
 London Avenue Canal, New Orleans, La  
 Location: Boring LAC05-2G,  
 Sample 40, Depth 97.8'  
 UNCONFINED COMPRESSION TEST  
**Eustis Engineering Company, Inc.**

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
3	0.0	0.0	91.7	8.3		SP		

SIEVE inches size	PERCENT FINER	
	●	
GRAIN SIZE		
D <sub>60</sub>	0.21	
D <sub>30</sub>	0.18	
D <sub>10</sub>	0.13	
COEFFICIENTS		
C <sub>c</sub>	1.17	
C <sub>u</sub>	1.6	

SIEVE number size	PERCENT FINER	
	●	
10	100.0	
20	99.8	
40	99.3	
50	94.4	
60	83.3	
70	62.2	
80	30.3	
100	17.6	
140	8.7	
200	8.3	

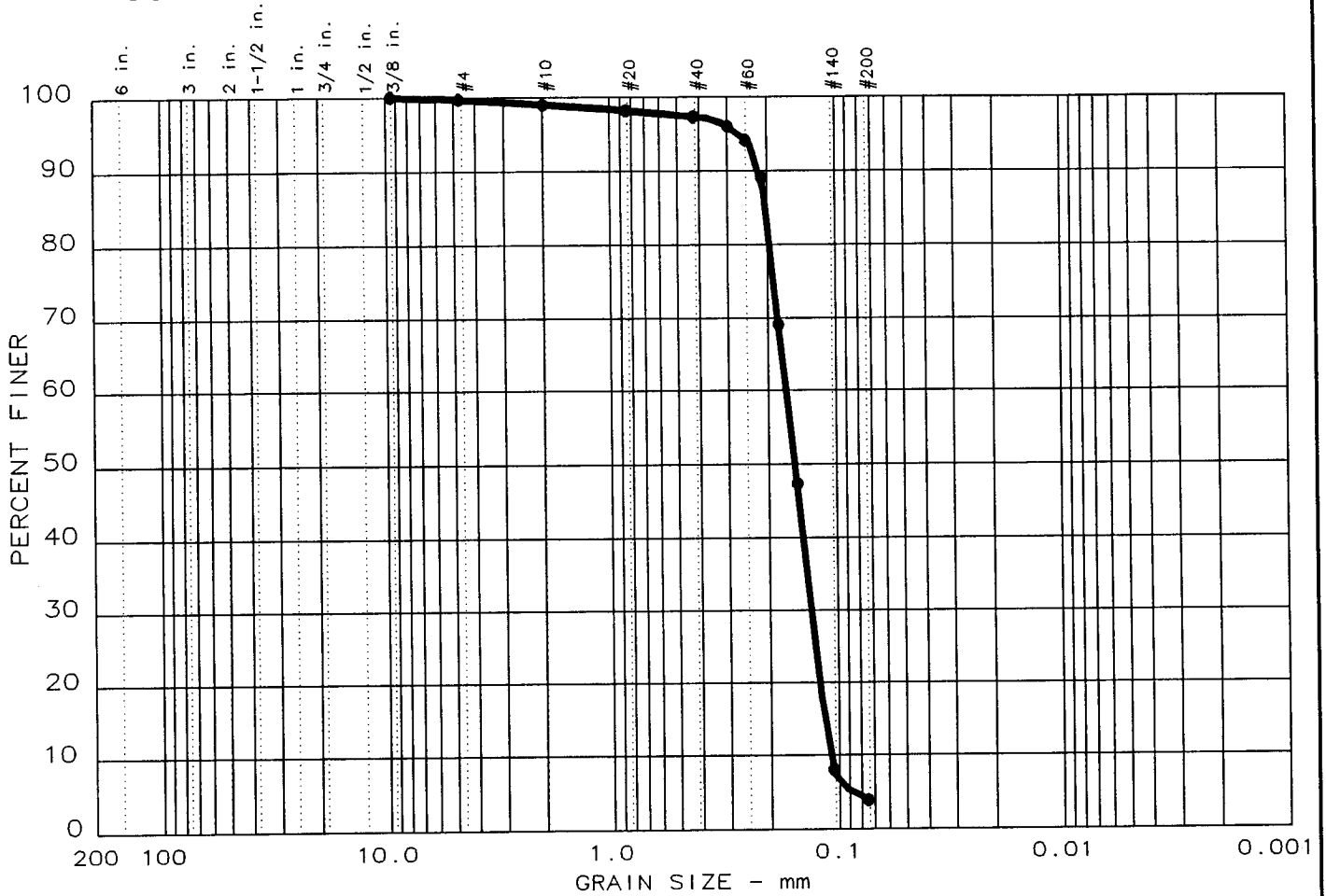
Sample information:  
 ● Bor. LAC05-2G, Sample 7  
 GR SP

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
● 4	0.0	0.3	95.8		3.9	SP		

SIEVE inches size	PERCENT FINER
0.375	100.0
<del>GRAIN SIZE</del>	
D <sub>60</sub>	0.17
D <sub>30</sub>	0.13
D <sub>10</sub>	0.11
<del>COEFFICIENTS</del>	
C <sub>c</sub>	0.95
C <sub>u</sub>	1.5

SIEVE number size	PERCENT FINER
4	99.7
10	98.9
20	98.1
40	97.3
50	96.0
60	94.1
70	89.1
80	69.1
100	47.3
140	8.0
200	3.9

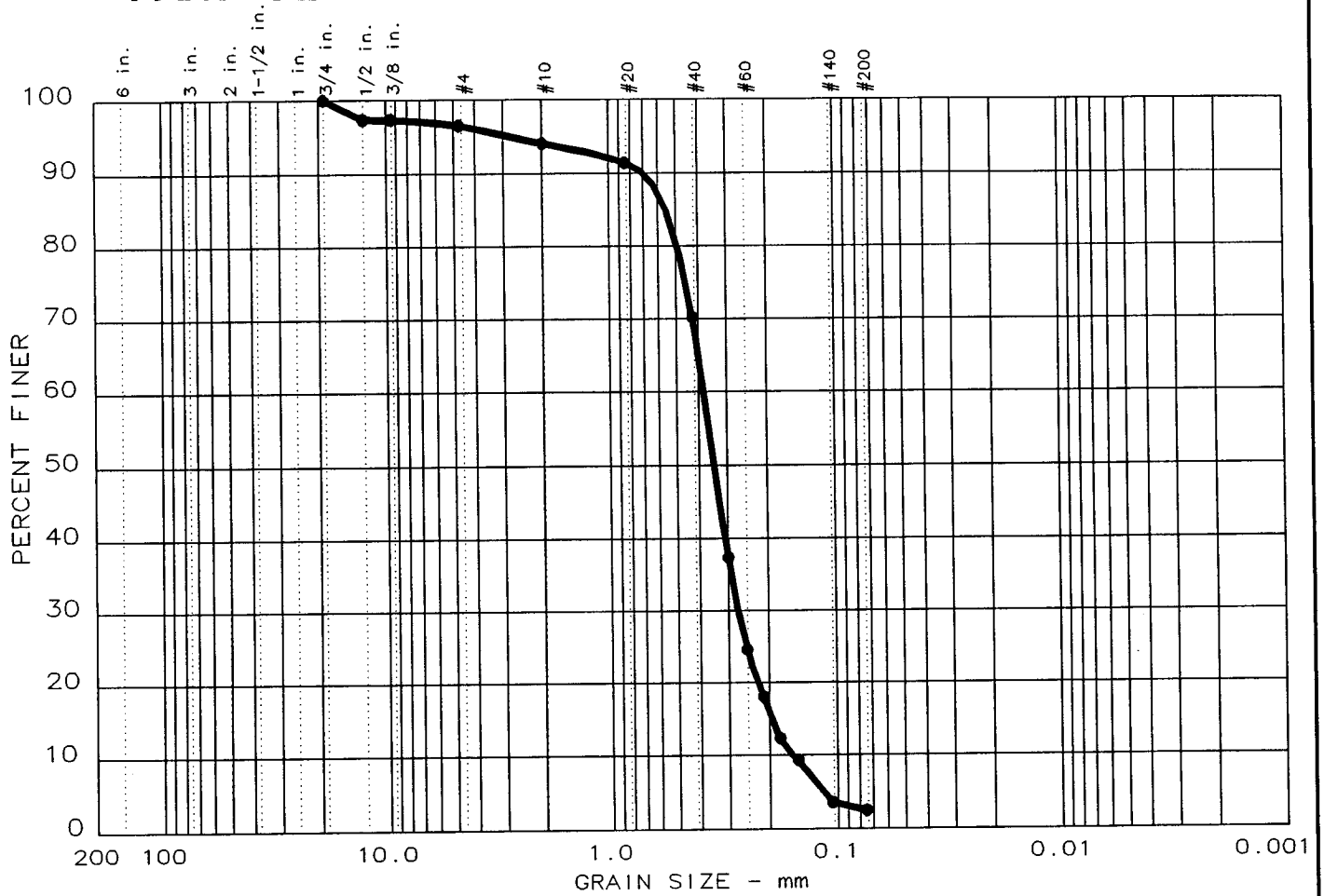
Sample information:  
 ● Bor. LAC05-2G, Sample 15  
 GR SP W/ TR SIF

Remarks:  
 Sample depth 35.0'

**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
5	0.0	3.5	94.1		2.4	SP		

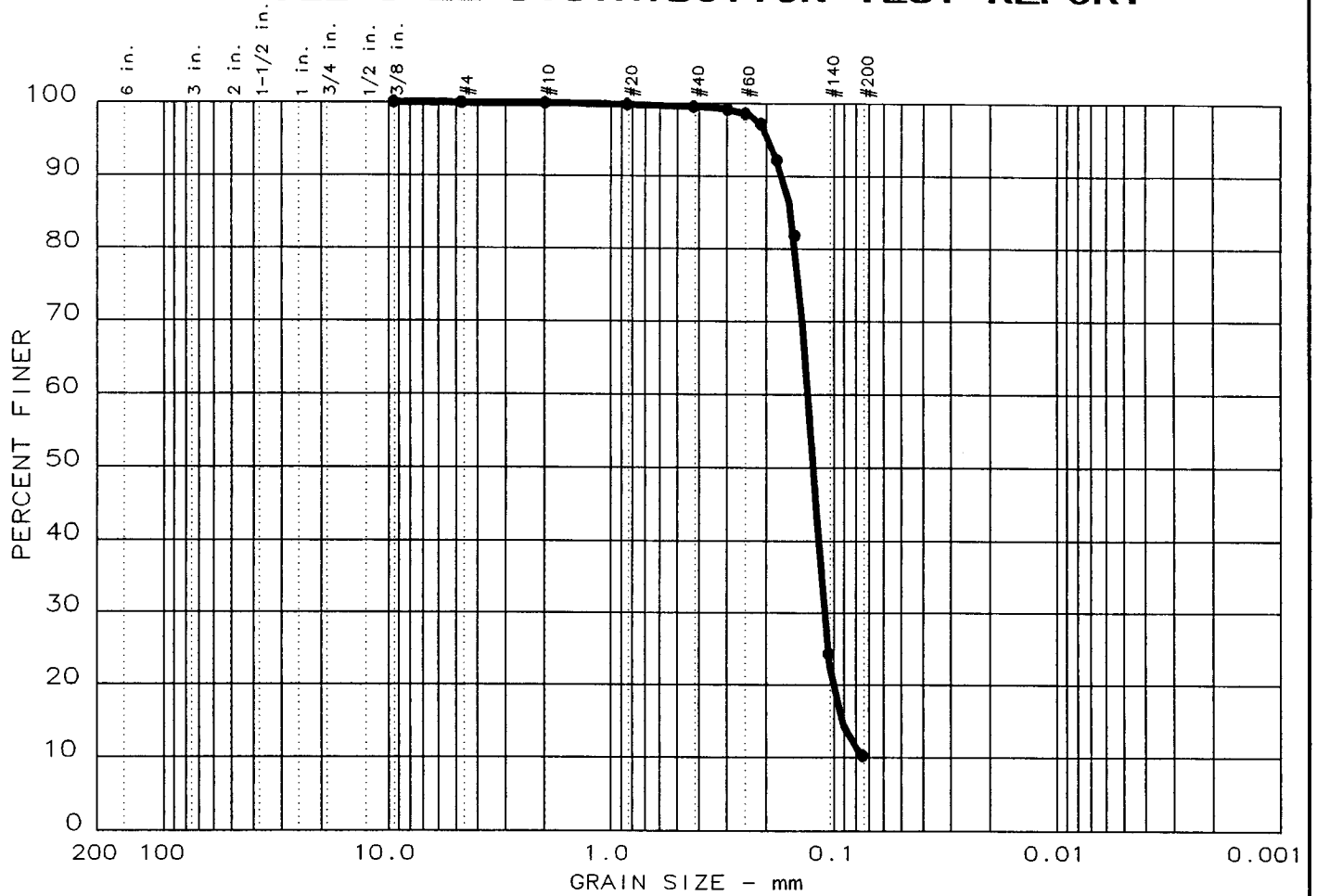
SIEVE inches size	PERCENT FINER		
	●		
0.75	100.0		
0.5	97.3		
0.375	97.3		
<del>X</del>	GRAIN SIZE		
D <sub>60</sub>	0.38		
D <sub>30</sub>	0.27		
D <sub>10</sub>	0.15		
<del>X</del>	COEFFICIENTS		
C <sub>c</sub>	1.25		
C <sub>u</sub>	2.4		

SIEVE number size	PERCENT FINER		
	●		
4	96.5		
10	94.0		
20	91.4		
40	70.3		
50	37.3		
60	24.6		
70	18.0		
80	12.3		
100	9.3		
140	3.5		
200	2.4		

Sample information:  
 ● Bor. LAC05-2G, Sample 18  
 GR SP W/ SIF

Remarks:  
 Sample depth 42.5'

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
● 6	0.0	0.1	89.6	10.3		SM1-s		

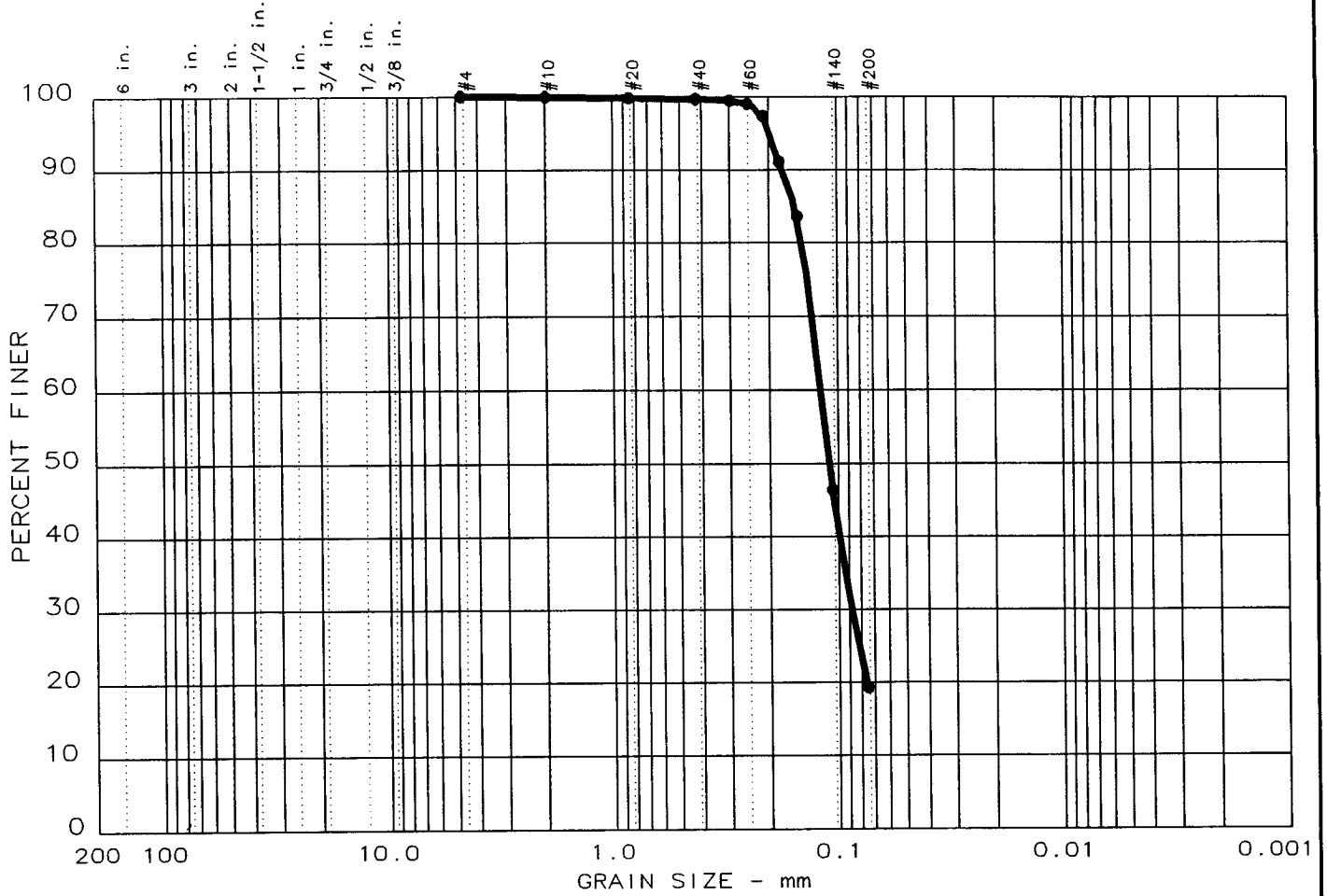
SIEVE inches size	PERCENT FINER		
	●		
0.375	100.0		
<del> </del> GRAIN SIZE <del> </del>			
D <sub>60</sub>	0.13		
D <sub>30</sub>	0.11		
D <sub>10</sub>			
<del> </del> COEFFICIENTS <del> </del>			
C <sub>c</sub>			
C <sub>u</sub>			

SIEVE number size	PERCENT FINER		
	●		
4	99.9		
10	99.9		
20	99.7		
40	99.5		
50	99.1		
60	98.6		
70	97.2		
80	92.2		
100	81.9		
140	24.3		
200	10.3		

Sample information:  
 ● Bor. LAC05-2G, Sample 20  
 GR SM1-s

Remarks:  
 Sample depth 47.5'

# PARTICLE SIZE DISTRIBUTION TEST REPORT



Test	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
7	0.0	0.0	80.7	19.3		SC1		

SIEVE inches size	PERCENT FINER		
	●		
GRAIN SIZE			
D <sub>60</sub>	0.12		
D <sub>30</sub>	0.09		
D <sub>10</sub>			
COEFFICIENTS			
C <sub>c</sub>			
C <sub>u</sub>			

SIEVE number size	PERCENT FINER		
	●		
4	100.0		
10	99.9		
20	99.8		
40	99.6		
50	99.4		
60	99.0		
70	97.3		
80	91.1		
100	83.6		
140	46.4		
200	19.3		

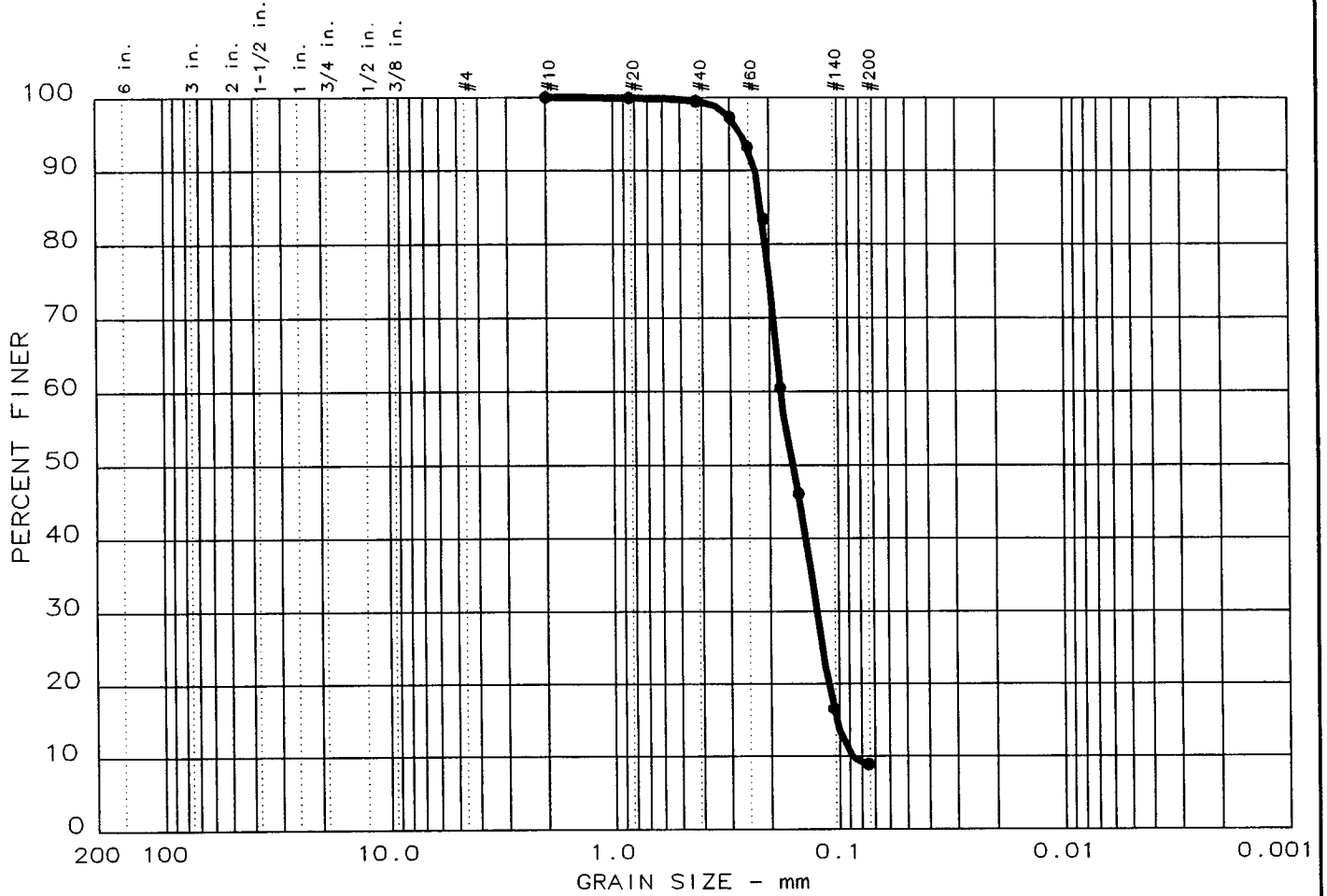
Sample information:  
 ● Bor. LAC05-2G, Sample 22  
 VSO GR SC1 W/ LYS CH,  
 SIF

Remarks:  
 Sample depth 52.5'

**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
8	0.0	0.0	91.1	8.9		SP		

SIEVE inches size	PERCENT FINER	
	●	
GRAIN SIZE		
D <sub>60</sub>	0.18	
D <sub>30</sub>	0.12	
D <sub>10</sub>	0.08	
COEFFICIENTS		
C <sub>c</sub>	0.99	
C <sub>u</sub>	2.0	

SIEVE number size	PERCENT FINER	
	●	
10	100.0	
20	99.9	
40	99.5	
50	97.3	
60	93.2	
70	83.4	
80	60.5	
100	46.1	
140	16.6	
200	8.9	

Sample information:  
 ● Bor. LAC05-2G, Sample 35  
 GR SP

Remarks:  
 Sample depth 85.0'