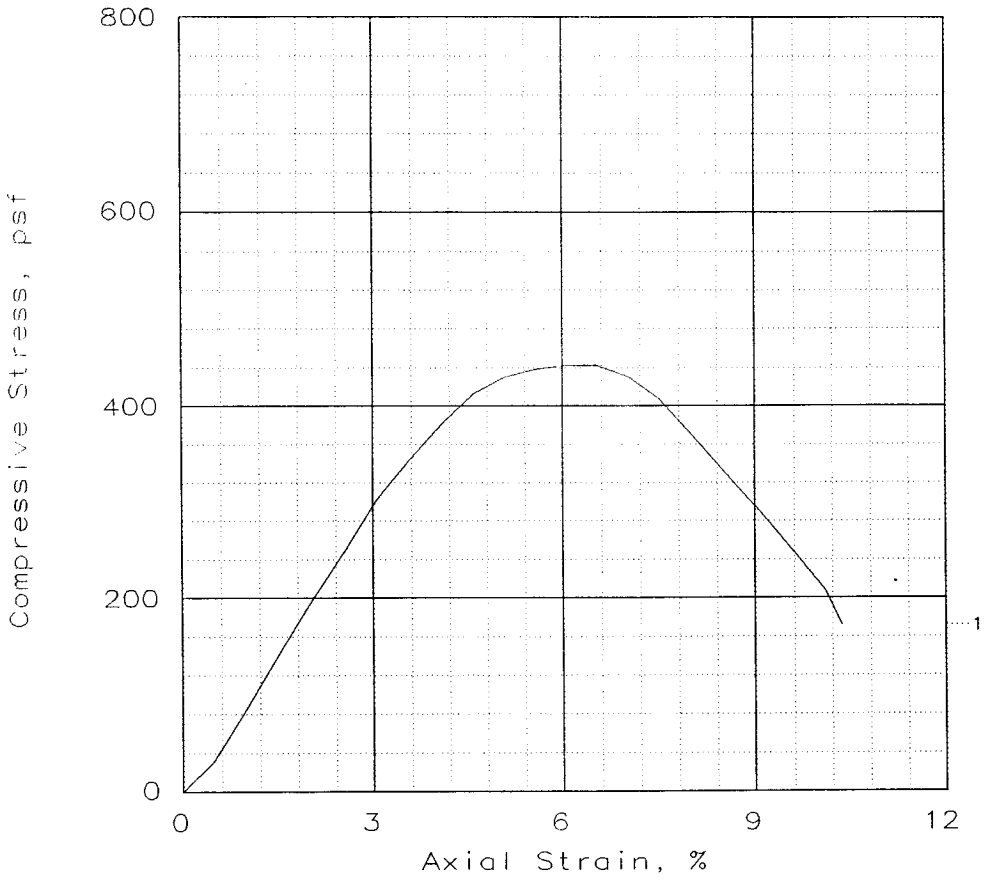
UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	443			
Undrained shear strength, psf	221			
Failure strain, %	6.0			
Strain rate, in/min	0.0575			
Water content, %	72.2			
Wet density, pcf	81.8			
Dry density, pcf	47.5			
Saturation, %	76.6			
Void ratio	2.5472			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: vSo dGr, Gr & T CL6 w/ wd

GS= 2.7 | Type: Undisturbed

Project No.: 19080
Date: 10/20/05
Remarks:
Torvane = 0.230 tsf

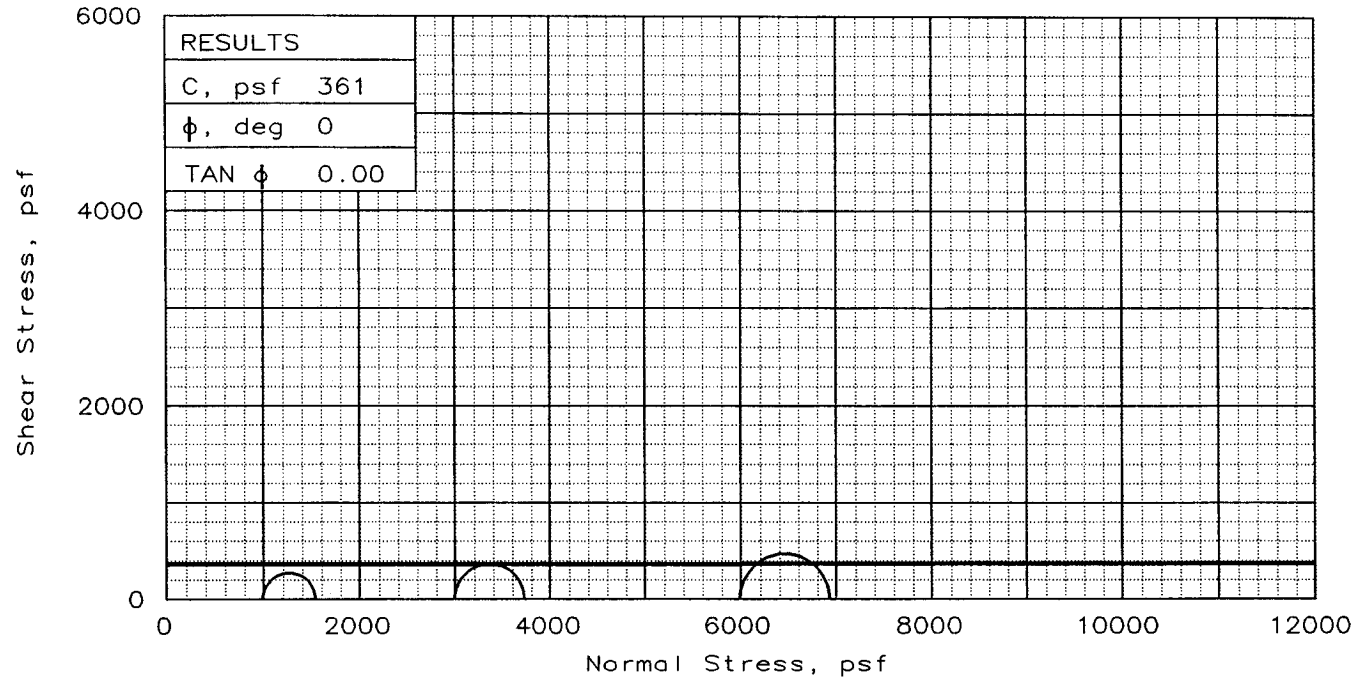
Fig. No.: ———

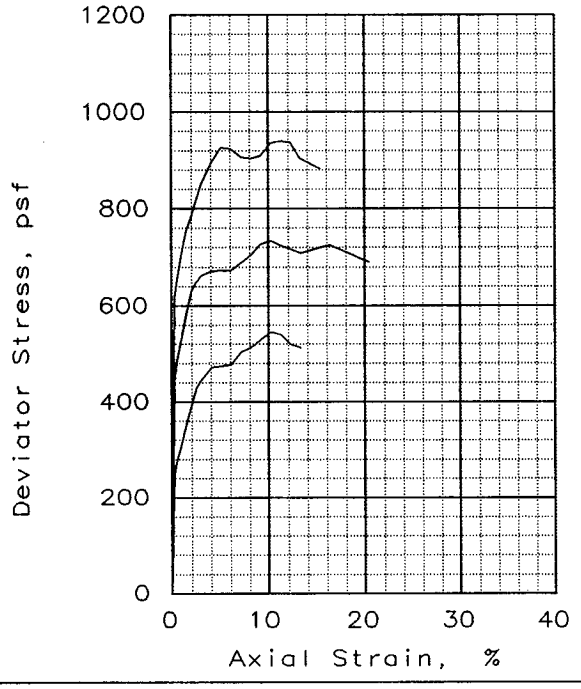
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 3-A, Depth 3.3', Elev -3.42

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





SPECIMEN NO.:		1	2	3
INITIAL	WATER CONTENT, %	63.6	57.1	63.1
	DRY DENSITY, pcf	57.8	63.0	60.0
	SATURATION, %	89.6	91.9	94.1
	VOID RATIO	1.916	1.677	1.811
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
AT TEST	WATER CONTENT, %	70.9	62.0	67.0
	DRY DENSITY, pcf	57.8	63.0	60.0
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	1.916	1.675	1.810
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
Strain rate, in/min		0.0293	0.0293	0.0293
BACK PRESSURE, psf		0	0	0
CELL PRESSURE, psf		994	2995	5990
FAIL. STRESS, psf		546	734	940
ULT. STRESS, psf			690	882
σ_1 FAILURE, psf		1540	3729	6930
σ_3 FAILURE, psf		994	2995	5990

TYPE OF TEST:
Unconsolidated Undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION: So dGr & T CH2
w/ wd
LL= 61 PL= 20 PI= 41
SPECIFIC GRAVITY= 2.7
REMARKS: Torvane = 0.120 tsf

Fig. No.: _____

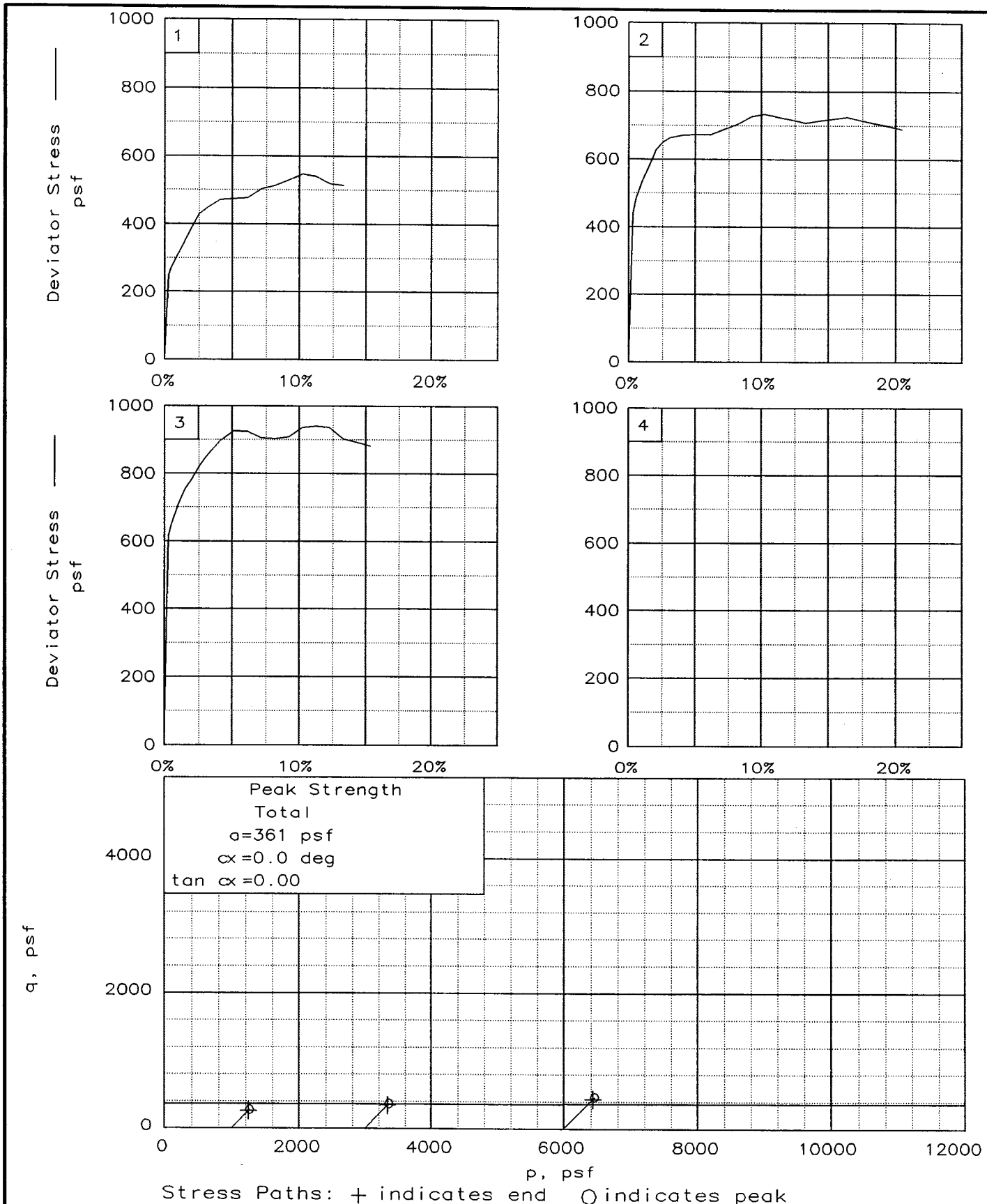
CLIENT: U.S. Army Corps of Engineers

PROJECT: Repairs to Levees and Floodwalls
at the 17th Street Canal
SAMPLE LOCATION: Boring 6,
Sample 4-B, Depth 7.1', Elev -7.22

PROJ. NO.: 19080 DATE: 11/07/05

TRIAXIAL SHEAR TEST REPORT

Eustis Engineering Company, Inc.



Stress Paths: + indicates end ○ indicates peak

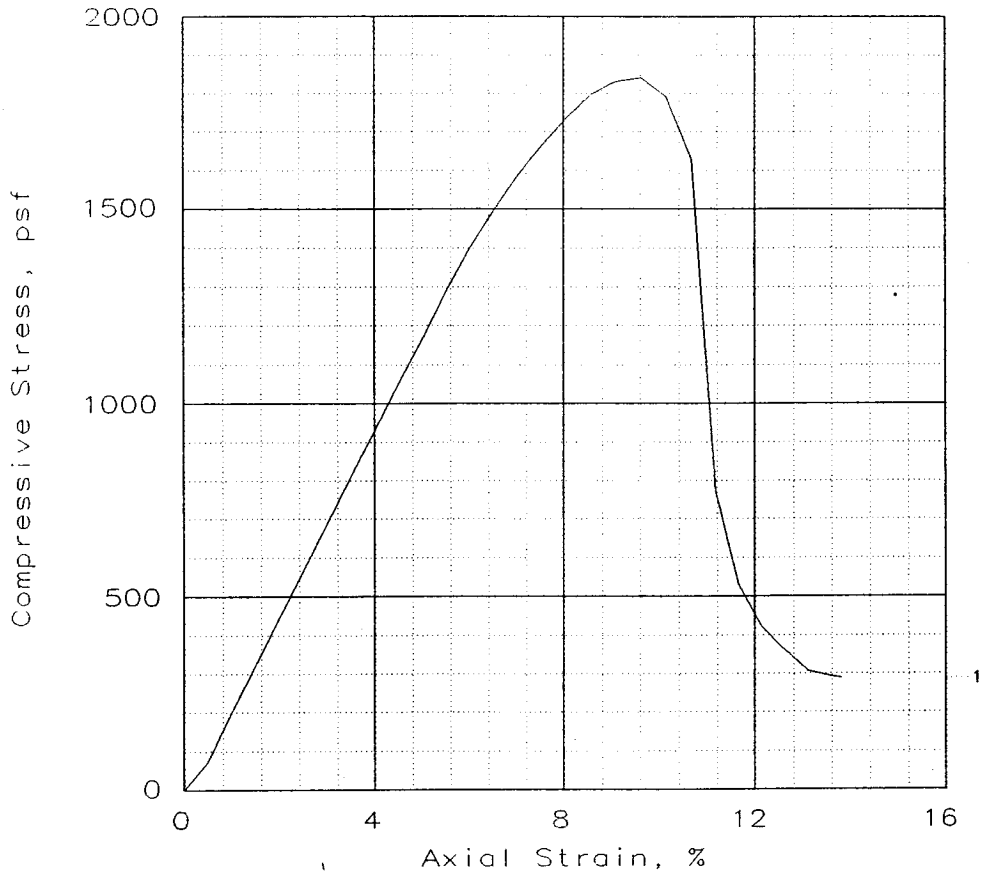
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls at the 17th Street Canal

Location: Boring 6, Sample 4-B, Depth 7.1', Elev -7.22

File: UU-25173 Project No.: 19080 Fig. No.: ____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1841			
Undrained shear strength, psf	921			
Failure strain, %	9.6			
Strain rate, in/min	0.0578			
Water content, %	192.8			
Wet density, pcf	73.8			
Dry density, pcf	25.2			
Saturation, %	92.1			
Void ratio	5.4396			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M dGr CHOC w/ wd, SL

GS= 2.6 | Type: Undisturbed

Project No.: 19080
Date: 10/20/05
Remarks:
Torvane = 0.350 tsf

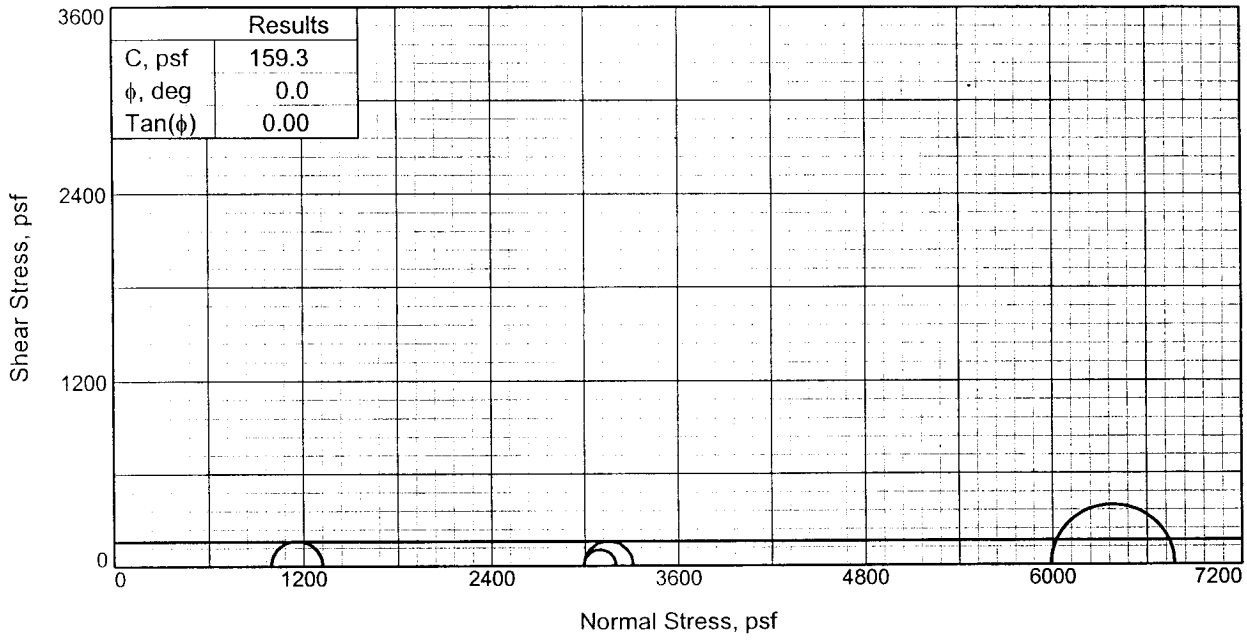
Fig. No.: ———

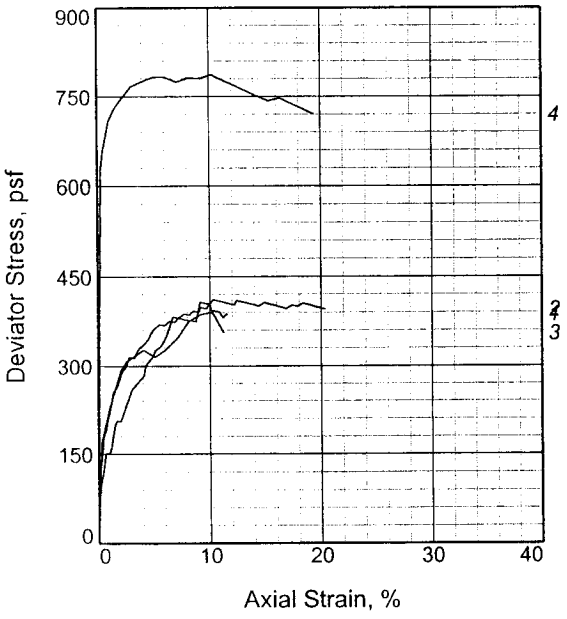
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 5-C, Depth 12.0', Elev -12.12

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





Specimen No.		1	2	3	4
Initial	Water Content,	40.7	44.2	46.5	42.2
	Dry Density, pcf	78.0	73.3	72.6	77.7
	Saturation,	94.1	91.3	94.5	96.8
	Void Ratio	1.1780	1.3173	1.3392	1.1854
	Diameter, in.	1.388	1.388	1.388	1.388
	Height, in.	2.930	2.930	2.930	2.930
At Test	Water Content,	43.3	48.2	49.2	43.6
	Dry Density, pcf	78.0	73.5	72.6	77.7
	Saturation,	100.0	100.0	100.0	100.0
	Void Ratio	1.1765	1.3116	1.3377	1.1851
	Diameter, in.	1.388	1.387	1.388	1.388
	Height, in.	2.929	2.928	2.929	2.930
Strain rate, in./min.		0.030	0.029	0.050	0.058
Back Pressure, psf		0.0	0.0	0.0	0.0
Cell Pressure, psf		2995.2	2995.2	993.6	5990.4
Fail. Stress, psf		206.0	315.0	326.5	783.1
Ult. Stress, psf		387.3	394.6	355.0	719.6
σ_1 Failure, psf		3201.2	3310.2	1320.1	6773.5
σ_3 Failure, psf		2995.2	2995.2	993.6	5990.4

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: vSo Gr CH4 w/ ars ML

LL= 50 **PL=** 34 **PI=** 16
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.050 tsf

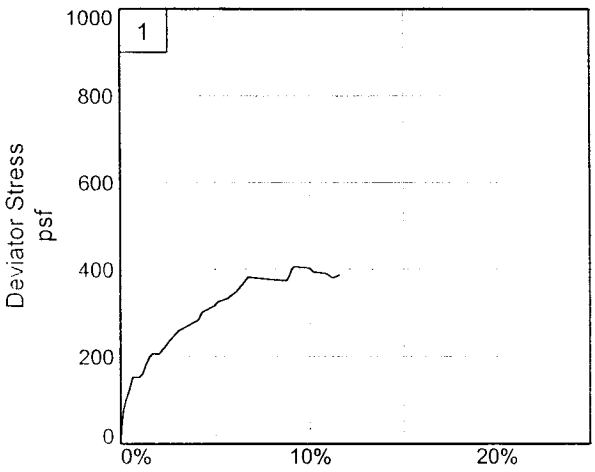
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 13.8
Sample Number: 6B
Proj. No.: 19080 **Date:** 11-7-05

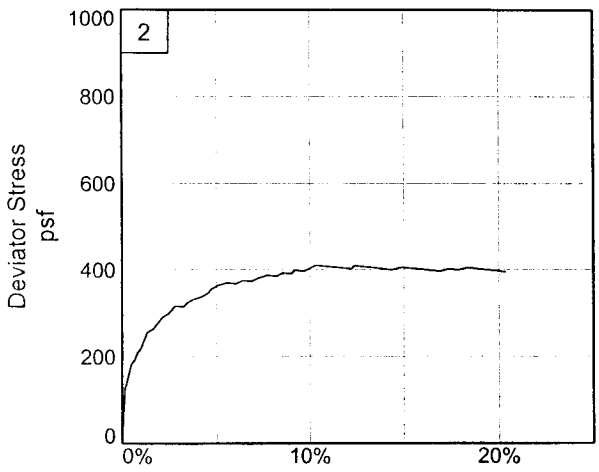
TRIAXIAL SHEAR TEST REPORT

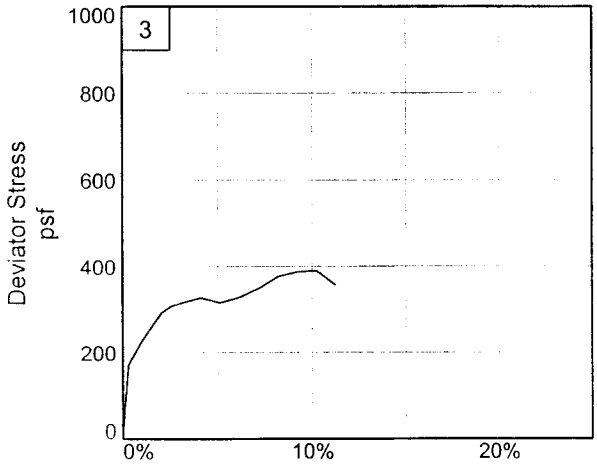
EUSTIS ENGINEERING COMPANY, INC.

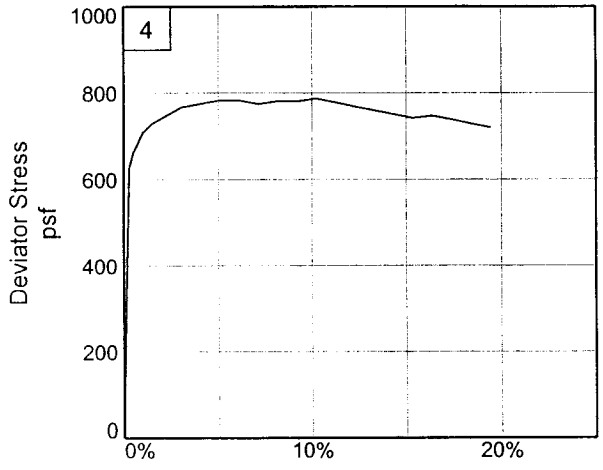
Figure 1

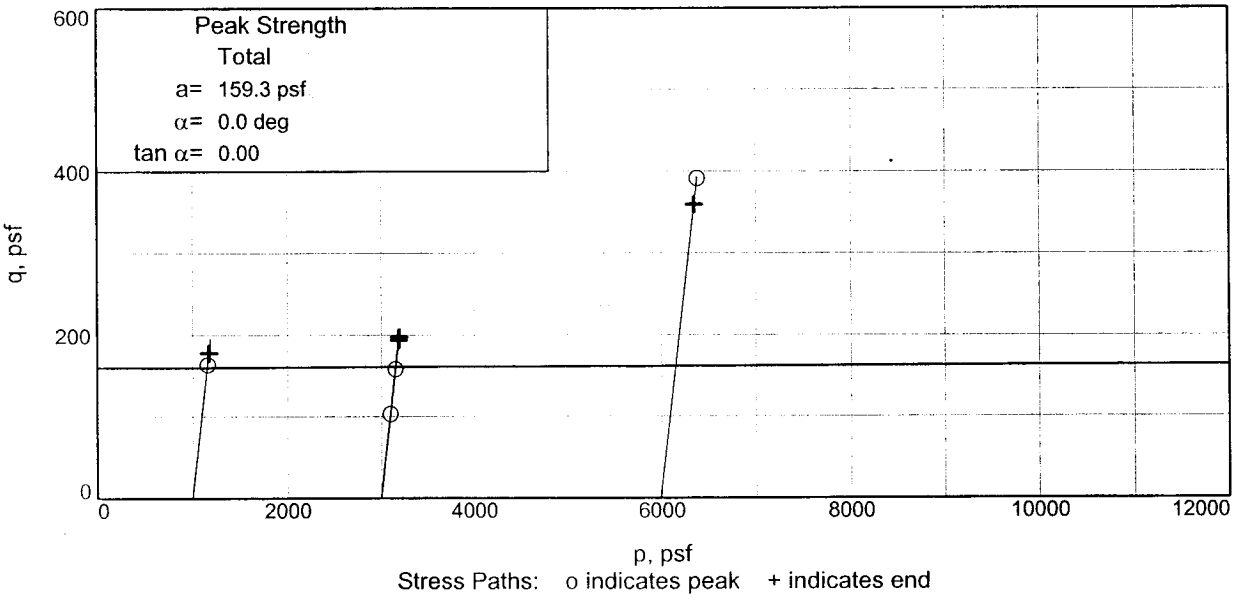
Tested By: RR & ZH **Checked By:** JS









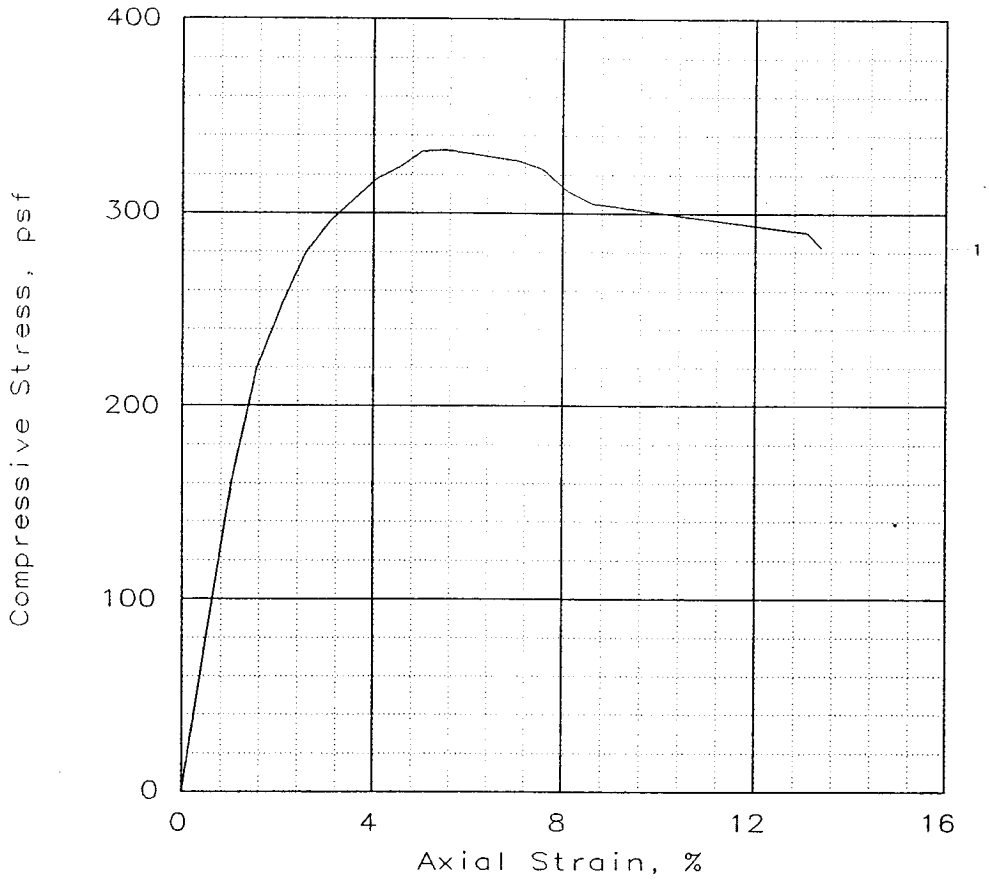


Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 13.8 **Sample Number:** 6B
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR & ZH **Checked By:** JS

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	333			
Undrained shear strength, psf	166			
Failure strain, %	5.5			
Strain rate, in/min	0.0571			
Water content, %	72.9			
Wet density, pcf	95.9			
Dry density, pcf	55.5			
Saturation, %	95.9			
Void ratio	2.0828			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: vSo Gr CH4 w/ Ins SM, SL

			GS= 2.74	Type: Undisturbed

Project No.: 19080
Date: 10/20/05
Remarks:
Torvane = 0.130 tsf

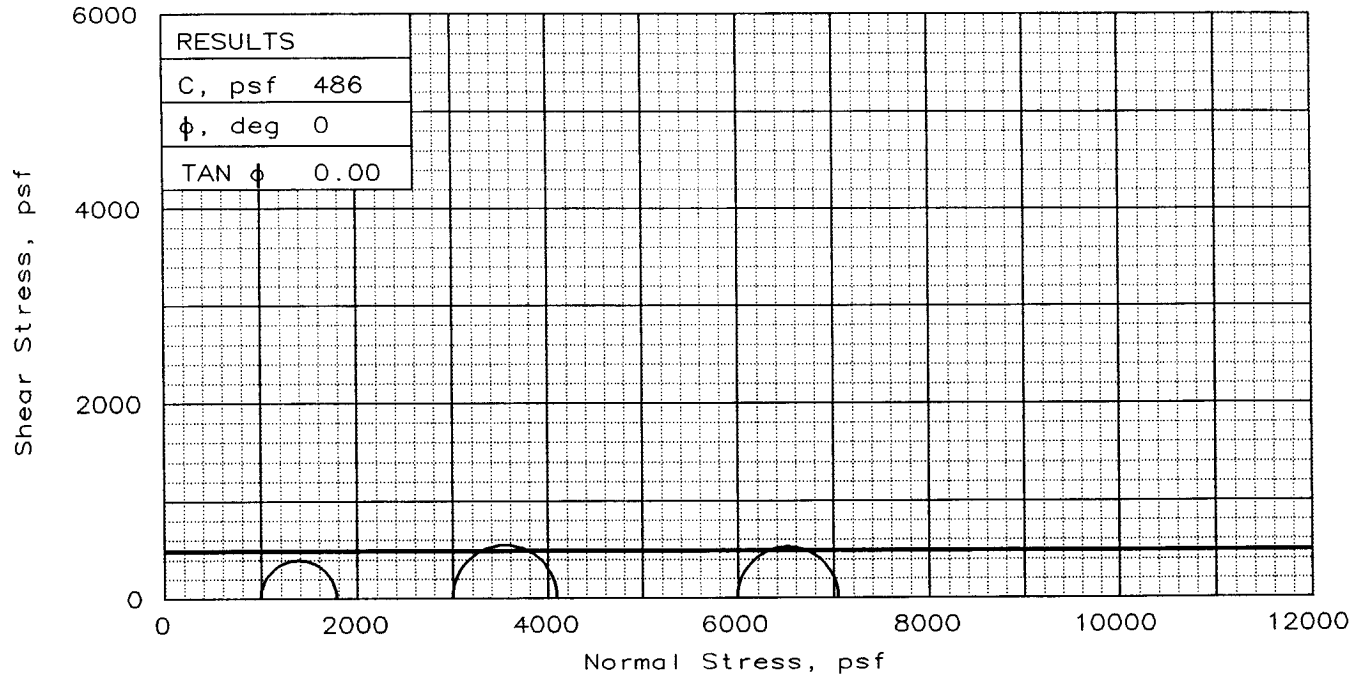
Fig. No.: ———

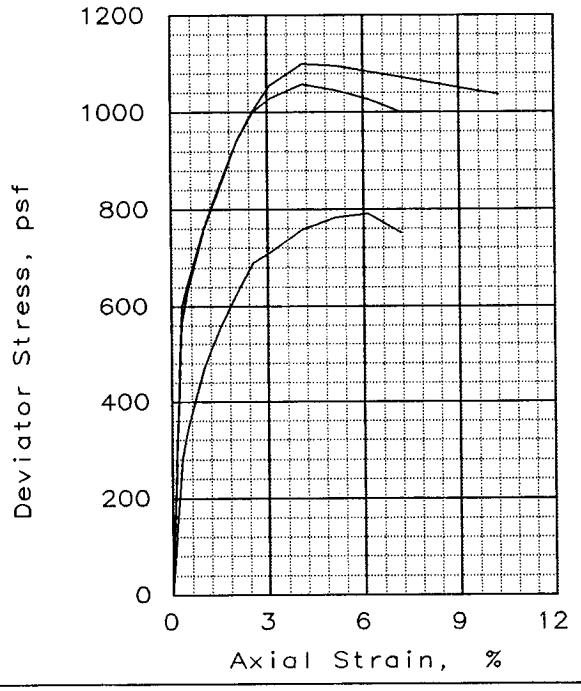
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 7-B, Depth 18.1', Elev -18.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





SPECIMEN NO.:		1	2	3
INITIAL	WATER CONTENT, %	76.3	74.5	78.9
	DRY DENSITY, pcf	52.7	53.4	52.6
	SATURATION, %	93.5	92.8	96.3
	VOID RATIO	2.220	2.182	2.227
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
AT TEST	WATER CONTENT, %	81.6	79.6	81.6
	DRY DENSITY, pcf	52.7	53.6	52.7
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	2.220	2.166	2.220
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
Strain rate, in/min		0.0293	0.0293	0.0293
BACK PRESSURE, psf		0	0	0
CELL PRESSURE, psf		994	2995	5990
FAIL. STRESS, psf		790	1099	1057
ULT. STRESS, psf		751	1036	1000
σ_1 FAILURE, psf		1784	4094	7047
σ_3 FAILURE, psf		994	2995	5990

TYPE OF TEST:
Unconsolidated Undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION: So Gr CH4
w/ ars & lns ML
LL= 83 PL= 22 PI= 61
SPECIFIC GRAVITY= 2.72
REMARKS: Torvane = 0.120 tsf

Fig. No.: _____

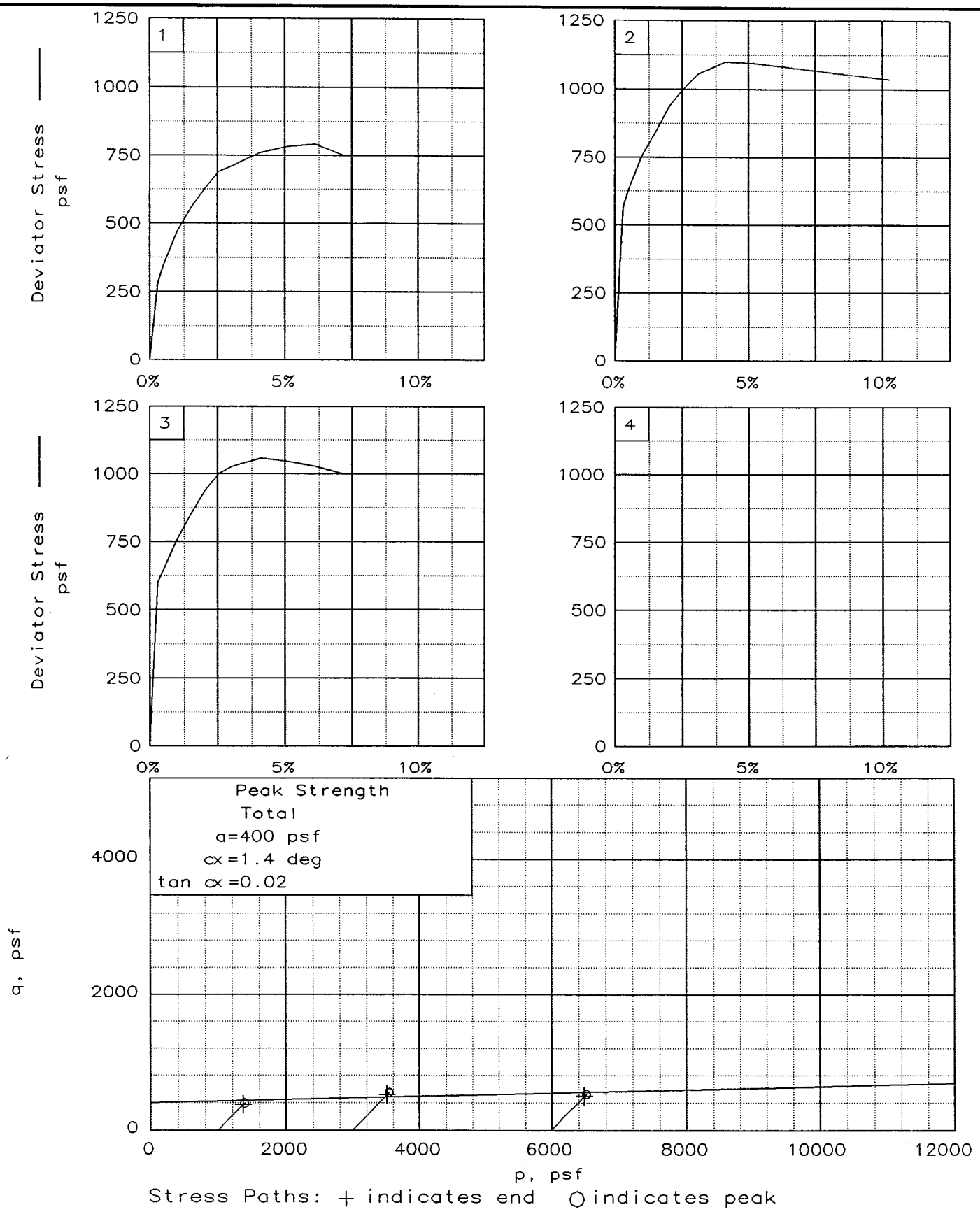
CLIENT: U.S. Army Corps of Engineers

PROJECT: Repairs to Levees and Floodwalls
at the 17th Street Canal
SAMPLE LOCATION: Boring 6,
Sample 8-B, Depth 22.1', Elev -22.22

PROJ. NO.: 19080 DATE: 11/07/05

TRIAXIAL SHEAR TEST REPORT

Eustis Engineering Company, Inc.



Stress Paths: + indicates end ○ indicates peak

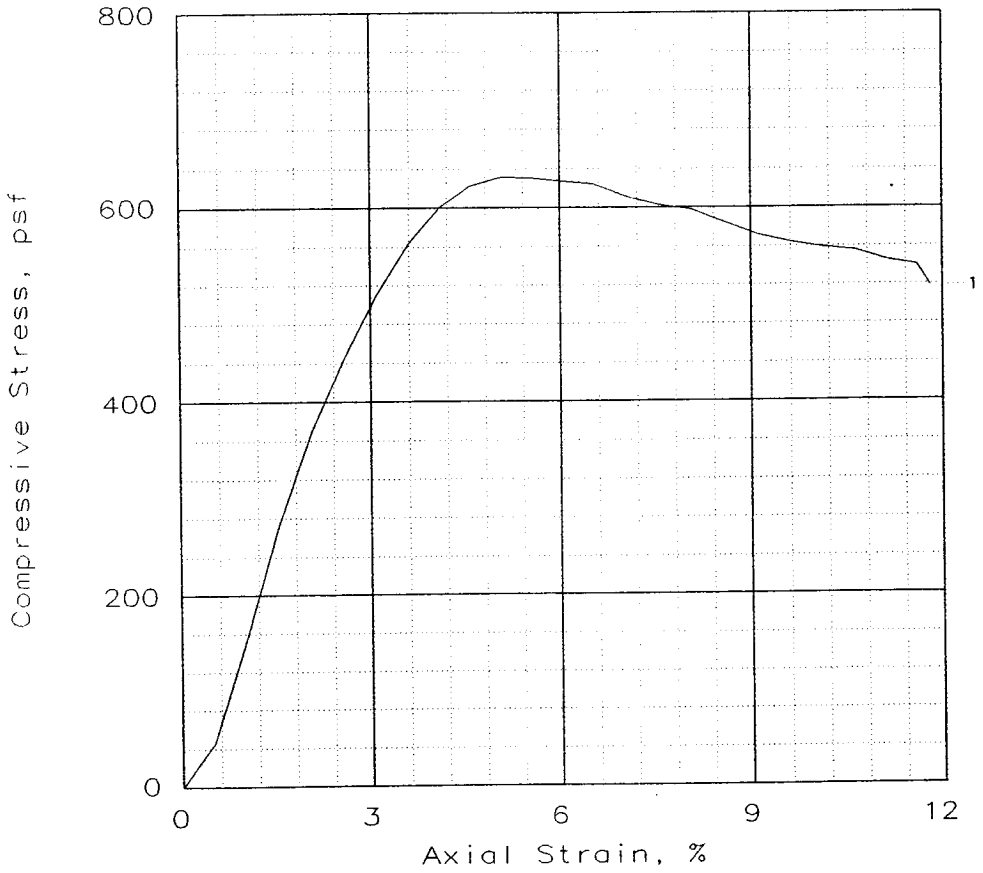
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls at the 17th Street Canal

Location: Boring 6, Sample 8-B, Depth 22.1', Elev -22.22

File: UU-25175 Project No.: 19080 Fig. No.: _____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	632			
Undrained shear strength, psf	316			
Failure strain, %	5.1			
Strain rate, in/min	0.0572			
Water content, %	74.8			
Wet density, pcf	94.8			
Dry density, pcf	54.2			
Saturation, %	95.1			
Void ratio	2.1561			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: So Gr CH4 w/ Ins SM, SL

GS= 2.74 | Type: Undisturbed

Project No.: 19080

Date: 10/20/05

Remarks:

Torvane = 0.200 tsf

Fig. No.: ———

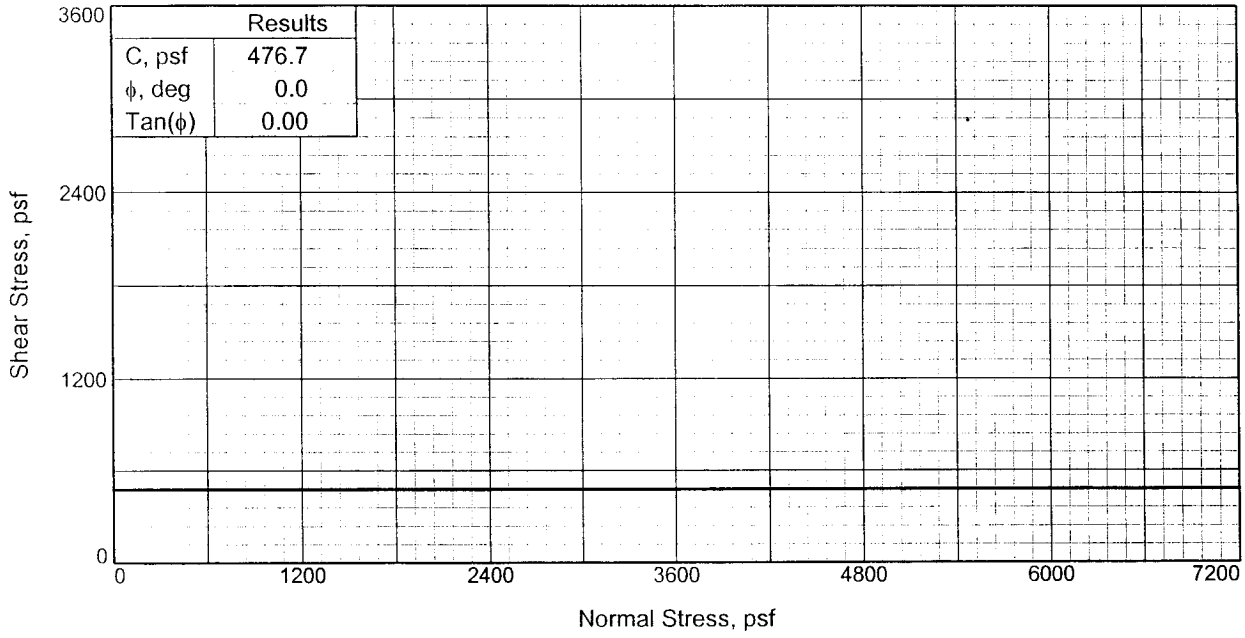
Client: U.S. Army Corps of Engineers

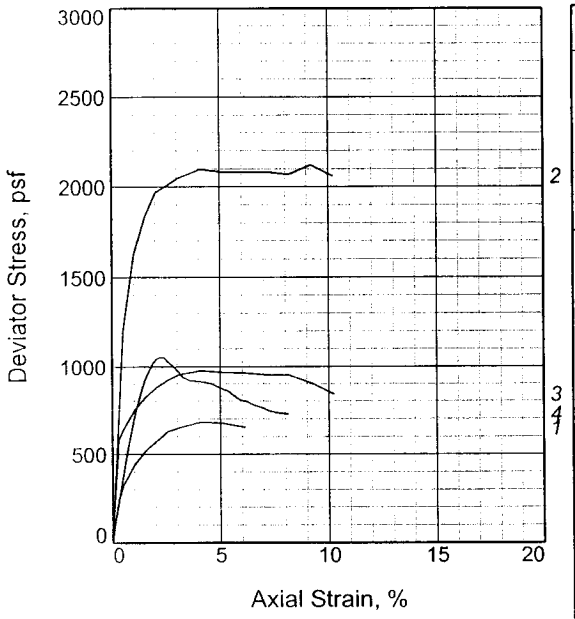
Project: Repairs to Levees and Floodwalls at the 17th Street Canal

Location: Boring 6, Sample 9-C, Depth 27.0', Elev -27.12

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





Specimen No.		1	2	3	4
Initial	Water Content,	90.8	89.4	89.7	70.3
	Dry Density, pcf	47.5	48.9	47.5	53.2
	Saturation,	95.7	98.1	94.6	86.9
	Void Ratio	2.5990	2.4951	2.6006	2.2165
	Diameter, in.	1.388	1.388	1.388	1.388
	Height, in.	2.930	2.930	2.930	2.930
At Test	Water Content,	94.6	91.0	94.8	80.9
	Dry Density, pcf	47.6	49.0	47.5	53.2
	Saturation,	100.0	100.0	100.0	100.0
	Void Ratio	2.5913	2.4941	2.5977	2.2165
	Diameter, in.	1.387	1.388	1.388	1.388
	Height, in.	2.928	2.930	2.929	2.930
Strain rate, in./min.		0.029	0.029	0.029	0.030
Back Pressure, psf		0.0	0.0	0.0	0.0
Cell Pressure, psf		993.6	2995.2	5990.4	2995.2
Fail. Stress, psf		680.6	2119.6	976.0	1051.4
Ult. Stress, psf		650.3	2058.3	838.5	725.6
σ_1 Failure, psf		1674.2	5114.8	6966.4	4046.6
σ_3 Failure, psf		993.6	2995.2	5990.4	2995.2

Type of Test: Unconsolidated Undrained
Sample Type: Undisturbed
Description: So Gr CH4 w/ SL

LL= 102 **PL=** 28 **PI=** 74
Assumed Specific Gravity= 2.74
Remarks: Torvane = 0.120 tsf

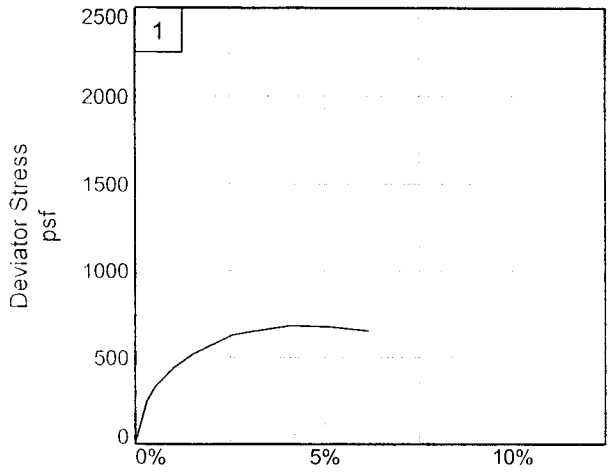
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 29.8
Sample Number: 10B
Proj. No.: 19080 **Date:** 11-11-05

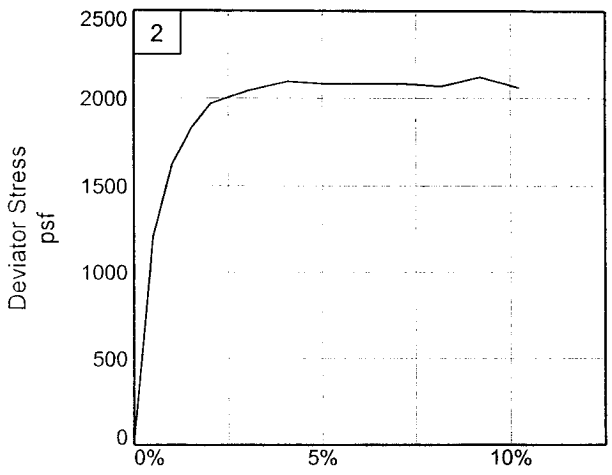
TRIAXIAL SHEAR TEST REPORT

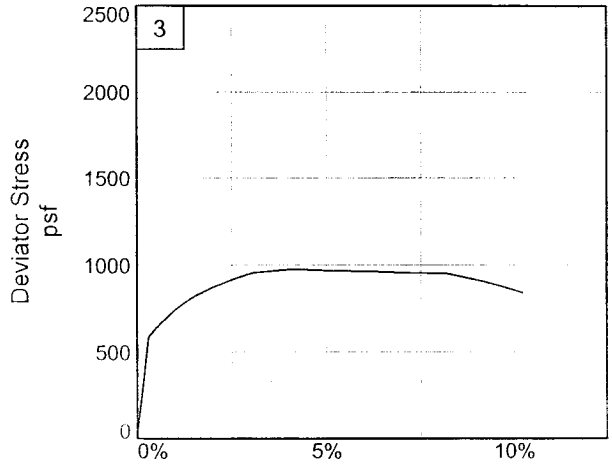
EUSTIS ENGINEERING COMPANY, INC.

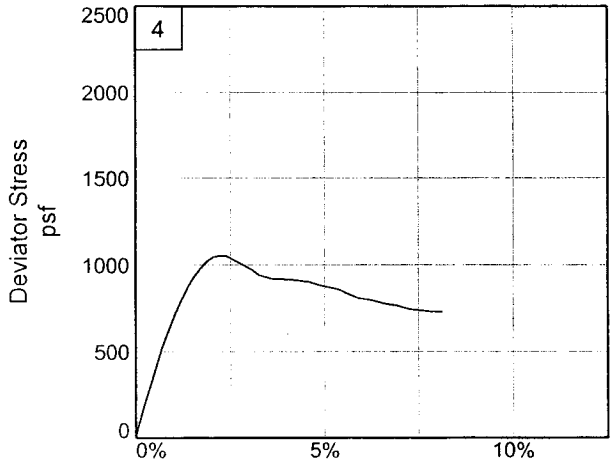
Figure 1

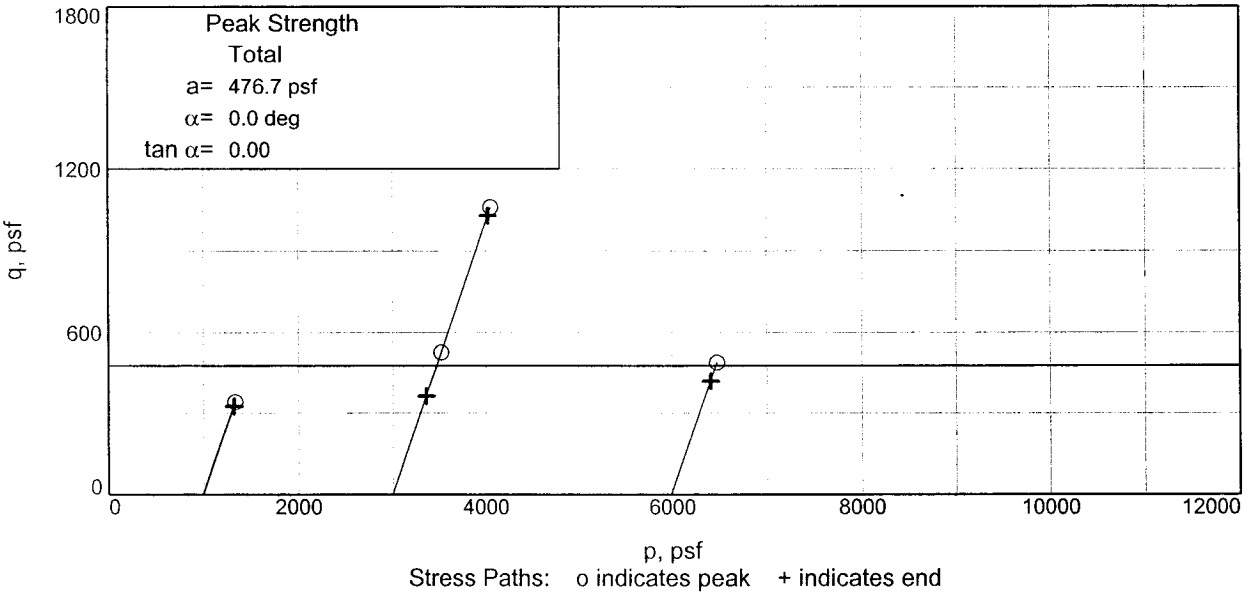
Tested By: ZH **Checked By:** JS







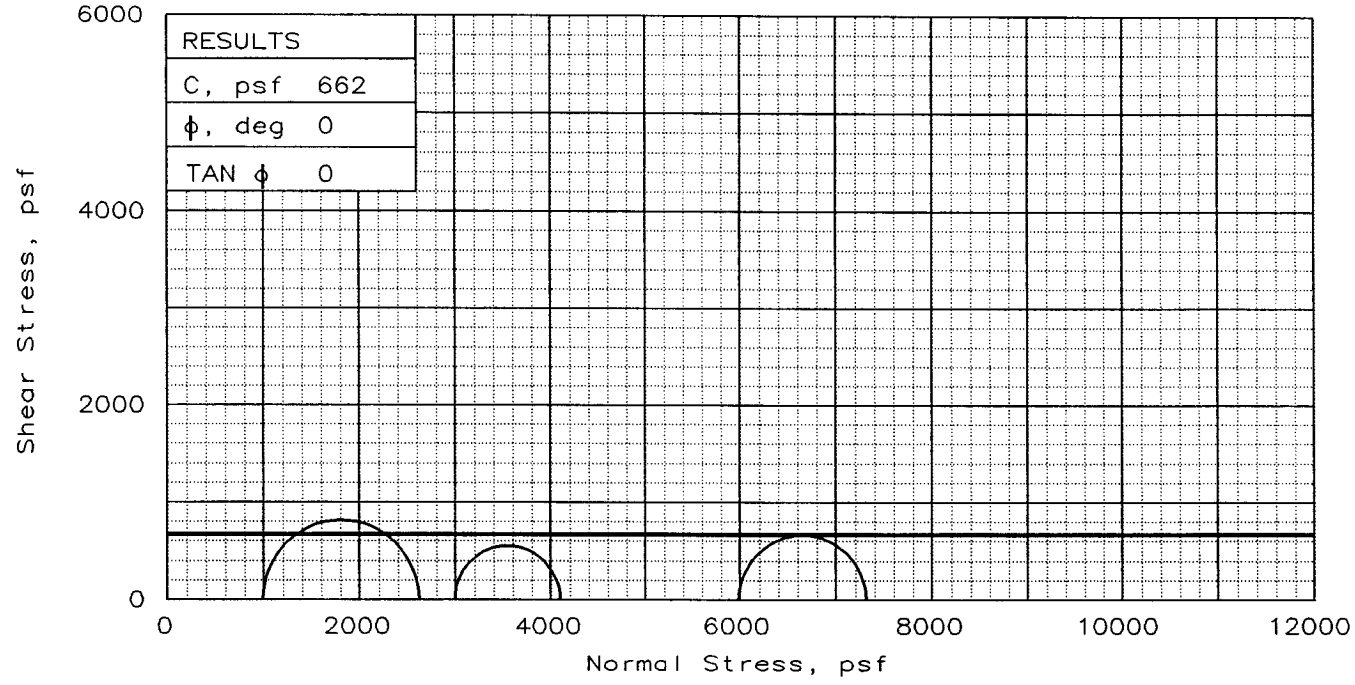


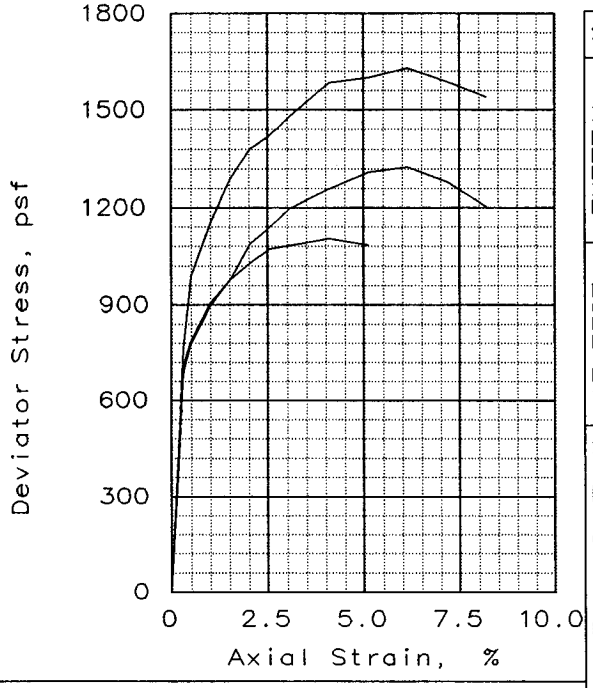


Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 29.8 **Sample Number:** 10B
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH **Checked By:** JS





SPECIMEN NO.:		1	2	3
INITIAL	WATER CONTENT, %	33.9	32.1	38.1
	DRY DENSITY, pcf	83.5	85.8	78.6
	SATURATION, %	89.8	89.8	90.0
	VOID RATIO	1.017	0.965	1.144
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
AT TEST	WATER CONTENT, %	37.6	35.7	42.1
	DRY DENSITY, pcf	83.6	85.9	78.9
	SATURATION, %	100.0	100.0	100.0
	VOID RATIO	1.015	0.963	1.136
	DIAMETER, in	1.39	1.39	1.39
	HEIGHT, in	2.93	2.93	2.93
Strain rate, in/min		0.0293	0.0293	0.0293
BACK PRESSURE, psf		0	0	0
CELL PRESSURE, psf		994	2995	5990
FAIL. STRESS, psf		1629	1104	1326
ULT. STRESS, psf		1539	1084	1205
σ_1 FAILURE, psf		2622	4099	7316
σ_3 FAILURE, psf		994	2995	5990

TYPE OF TEST:
Unconsolidated Undrained
SAMPLE TYPE: Undisturbed
DESCRIPTION: M Gr CL5 w/ SIF

SPECIFIC GRAVITY= 2.7
REMARKS: Torvane = 0.150 tsf

Fig. No.: _____

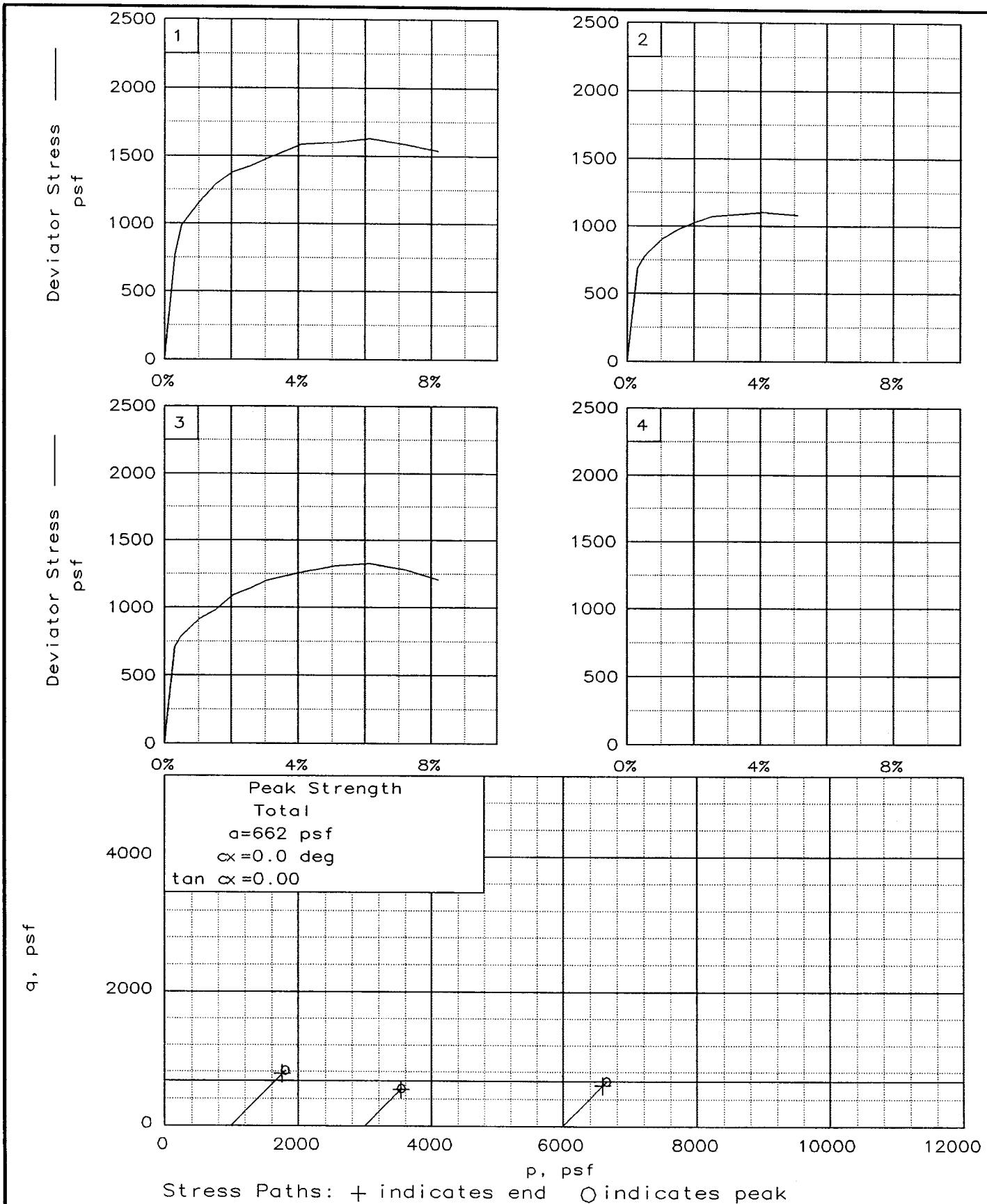
CLIENT: U.S. Army Corps of Engineers

PROJECT: Repairs to Levees and Floodwalls
at the 17th Street Canal
SAMPLE LOCATION: Boring 6,
Sample 11-B, Depth 34.1', Elev -34.22

PROJ. NO.: 19080 DATE: 11/07/05

TRIAXIAL SHEAR TEST REPORT

Eustis Engineering Company, Inc.



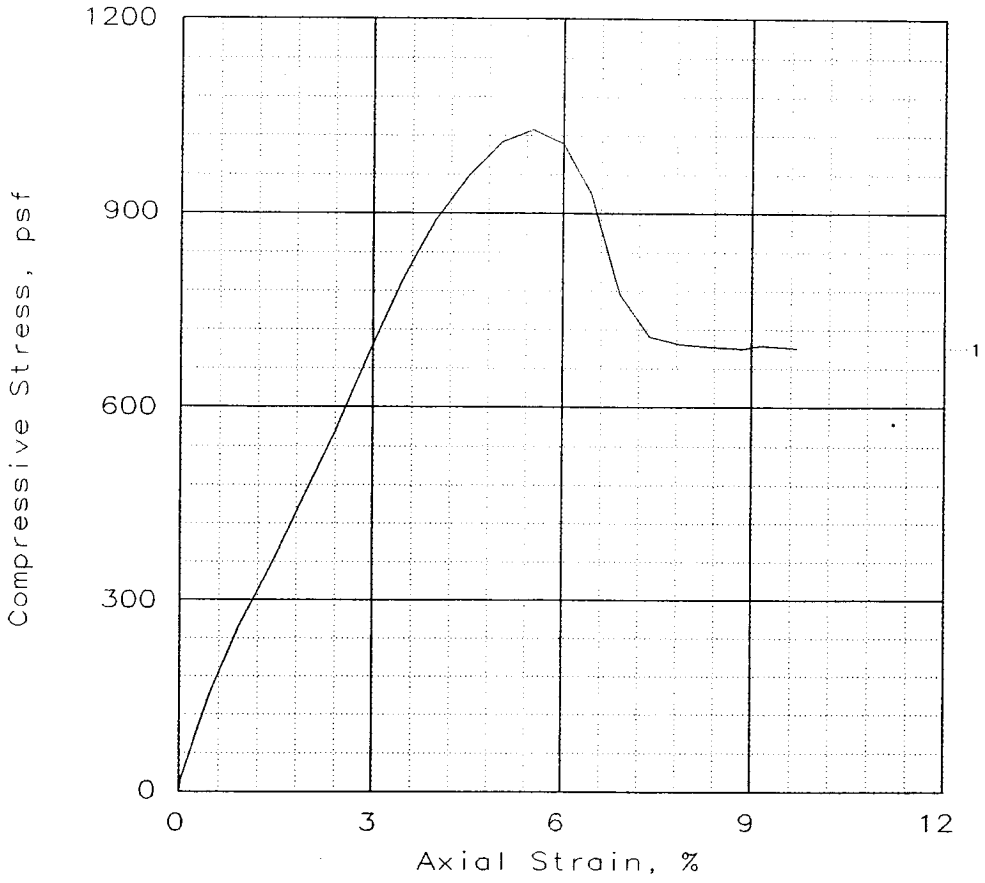
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls at the 17th Street Canal

Location: Boring 6, Sample 11-B, Depth 34.1', Elev -34.22

File: UU-25177 Project No.: 19080 Fig. No.: ____

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1029			
Undrained shear strength, psf	514			
Failure strain, %	5.5			
Strain rate, in/min	0.0444			
Water content, %	62.7			
Wet density, pcf	98.7			
Dry density, pcf	60.7			
Saturation, %	94.9			
Void ratio	1.7980			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH3 w/ ars & Ins SM, SIF

			GS= 2.72	Type: Undisturbed

Project No.: 19080
Date: 10/20/05
Remarks:
Torvane = 0.300 tsf

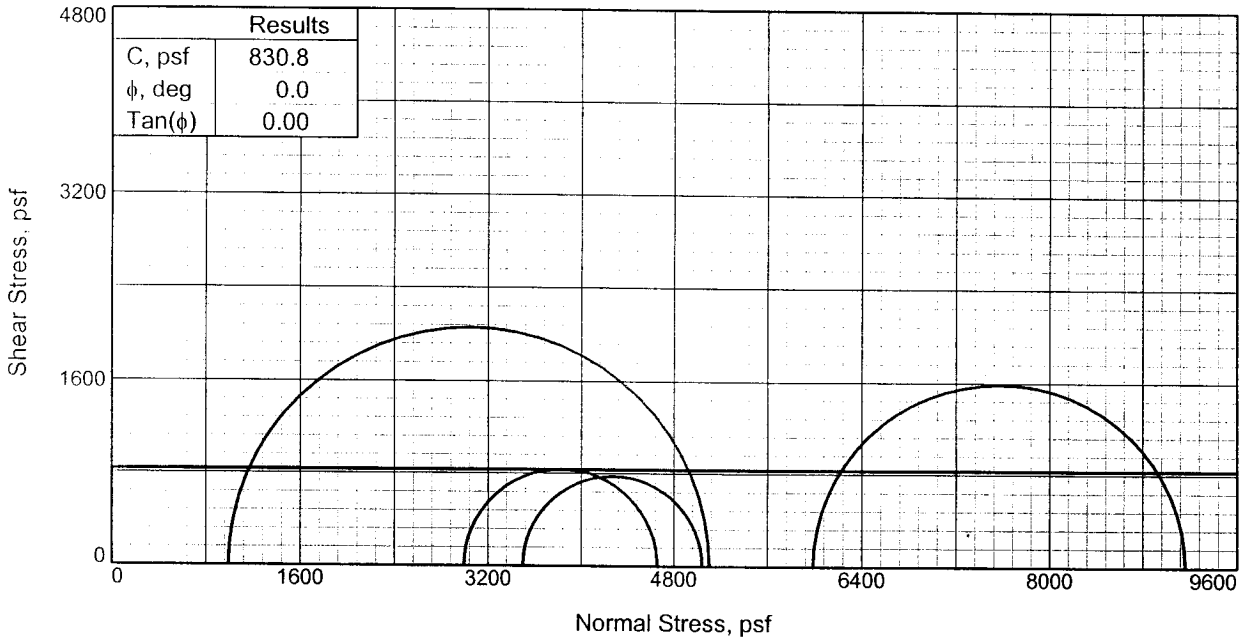
Fig. No.: ———

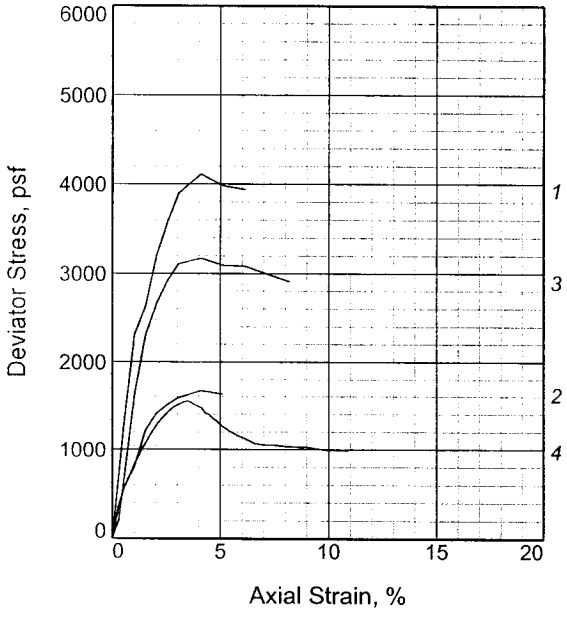
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 15-C, Depth 44.0', Elev -44.12

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





Specimen No.		1	2	3	4
Initial	Water Content,	67.3	72.8	66.8	72.7
	Dry Density, pcf	56.8	54.7	57.5	55.2
	Saturation,	92.0	94.1	93.1	95.1
	Void Ratio	1.9902	2.1028	1.9514	2.0777
	Diameter, in.	1.388	1.388	1.388	1.388
	Height, in.	2.930	2.930	2.930	2.930
At Test	Water Content,	72.8	77.3	71.5	76.2
	Dry Density, pcf	57.0	54.7	57.7	55.2
	Saturation,	100.0	100.0	100.0	100.0
	Void Ratio	1.9798	2.1022	1.9448	2.0739
	Diameter, in.	1.386	1.388	1.387	1.387
	Height, in.	2.927	2.930	2.928	2.929
Strain rate, in./min.		0.029	0.029	0.029	0.029
Back Pressure, psf		0.0	0.0	0.0	0.0
Cell Pressure, psf		993.6	2995.2	5990.4	3499.2
Fail. Stress, psf		4110.9	1663.3	3170.8	1544.7
Ult. Stress, psf		3936.8	1621.8	2905.0	984.1
σ_1 Failure, psf		5104.5	4658.5	9161.2	5043.9
σ_3 Failure, psf		993.6	2995.2	5990.4	3499.2

Type of Test: Unconsolidated Undrained
Sample Type: Undisturbed
Description: M Gr CH4 w/ ars SM

LL= 87 **PL=** 24 **PI=** 63
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.300 tsf

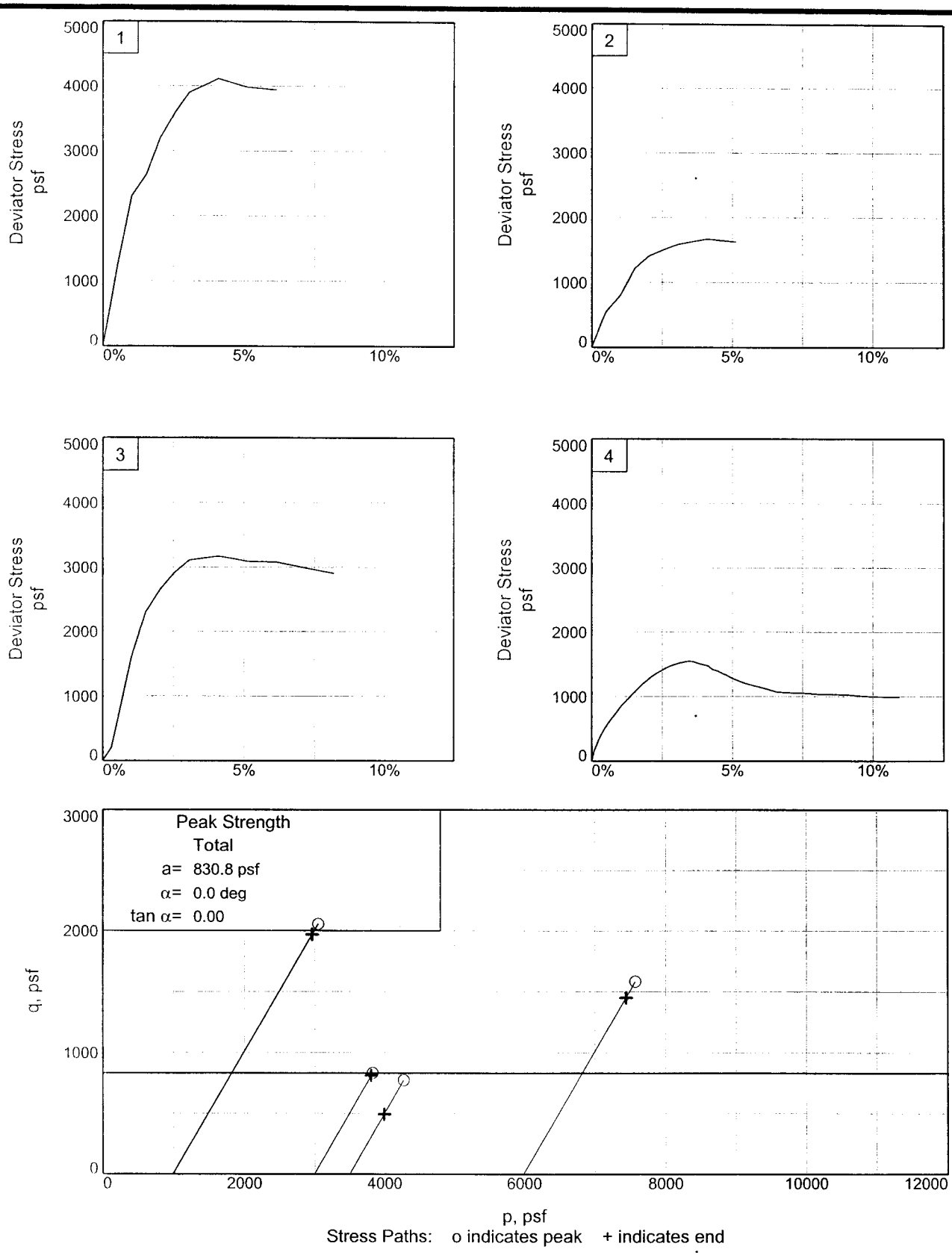
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 46.8
Sample Number: 16B
Proj. No.: 19080 **Date:** 11-7-05

TRIAXIAL SHEAR TEST REPORT

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH **Checked By:** JS

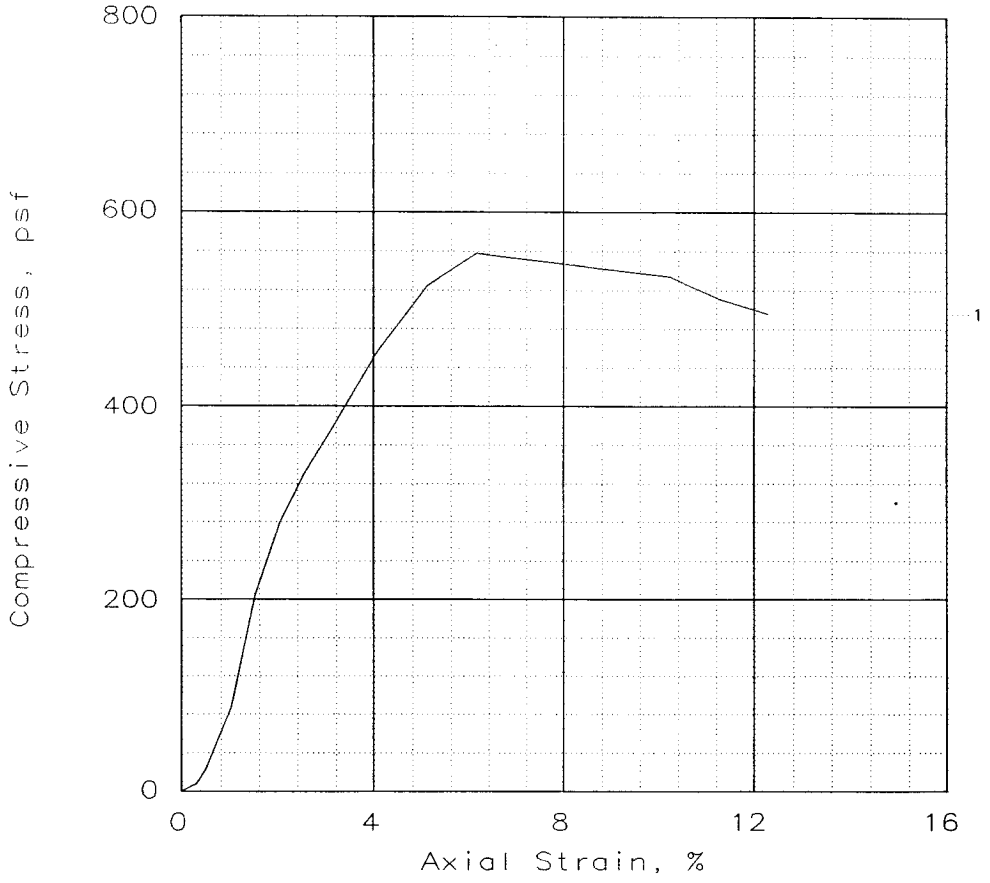


Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 46.8 **Sample Number:** 16B
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH **Checked By:** JS

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	558			
Undrained shear strength, psf	279			
Failure strain, %	6.1			
Strain rate, in/min	0.0580			
Water content, %	59.7			
Wet density, pcf	99.1			
Dry density, pcf	62.0			
Saturation, %	93.1			
Void ratio	1.7582			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: So Gr CH4 w/ Tr-wd, SIF, SL

			GS= 2.74	Type: Undisturbed

Project No.: 19080
Date: 11/07/05

Remarks:
Torvane = 0.250 tsf

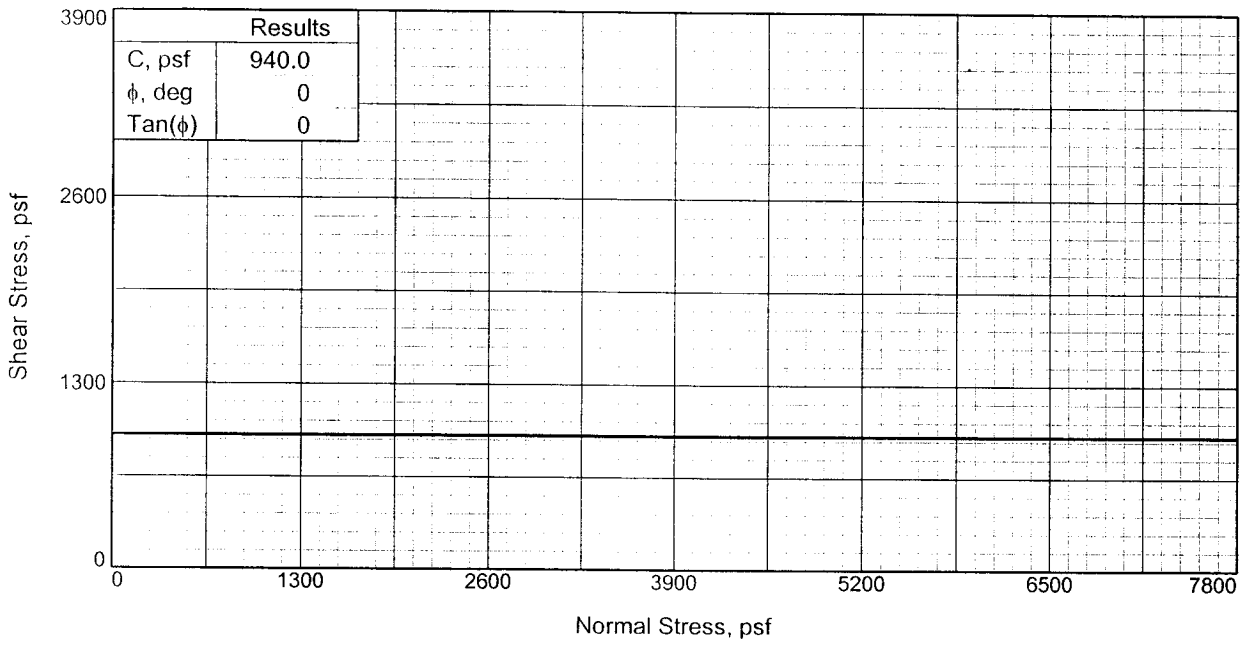
Fig. No.: ———

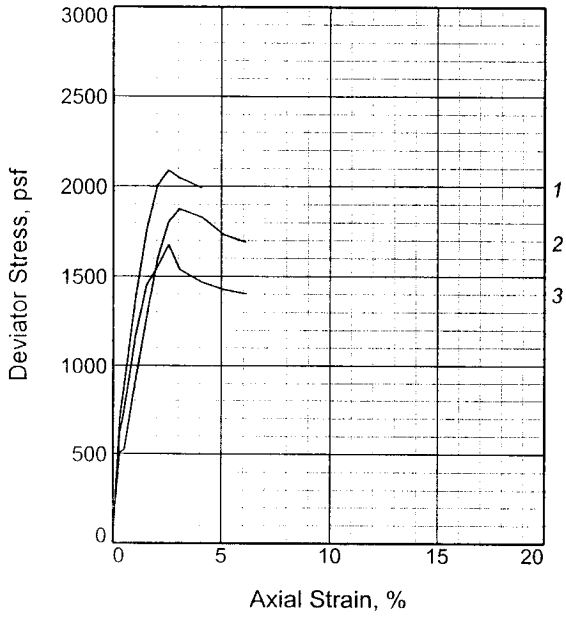
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 2,
Sample 17-B, Depth 51.1', Elev -51.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





Specimen No.		1	2	3
Initial	Water Content,	59.9	60.0	63.5
	Dry Density, pcf	61.8	62.2	60.4
	Saturation,	93.2	94.2	95.3
	Void Ratio	1.7474	1.7310	1.8121
	Diameter, in.	1.388	1.388	1.388
	Height, in.	2.930	2.930	2.930
At Test	Water Content,	64.1	63.7	66.4
	Dry Density, pcf	61.9	62.2	60.5
	Saturation,	100.0	100.0	100.0
	Void Ratio	1.7437	1.7318	1.8052
	Diameter, in.	1.387	1.388	1.387
	Height, in.	2.929	2.930	2.928
Strain rate, in./min.		0.029	0.029	0.029
Back Pressure, psf		0.0	0.0	0.0
Cell Pressure, psf		993.6	2995.2	5990.4
Fail. Stress, psf		2089.5	1874.3	1676.1
Ult. Stress, psf		1992.6	1689.8	1402.8
σ_1 Failure, psf		3083.1	4869.5	7666.5
σ_3 Failure, psf		993.6	2995.2	5990.4

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: M Gr CH4 w/ ars SM, SIF, SL

LL= 81 **PL=** 21 **PI=** 60
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.300 tsf

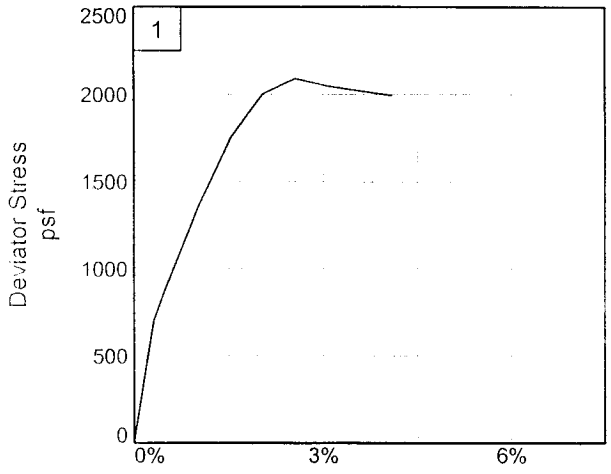
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 54.8
Sample Number: 18B
Proj. No.: 19080 **Date:** 11-7-05

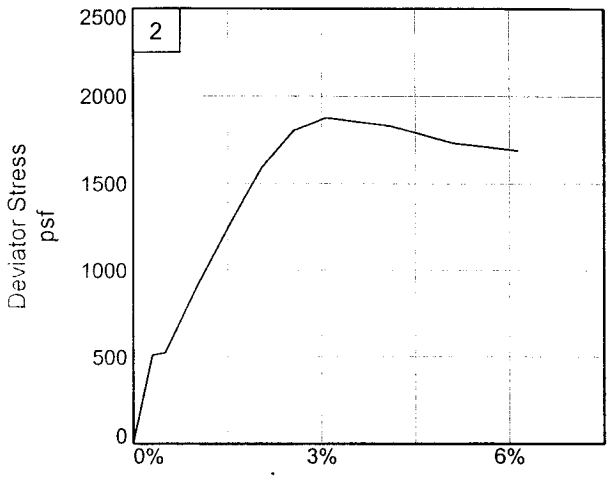
TRIAXIAL SHEAR TEST REPORT

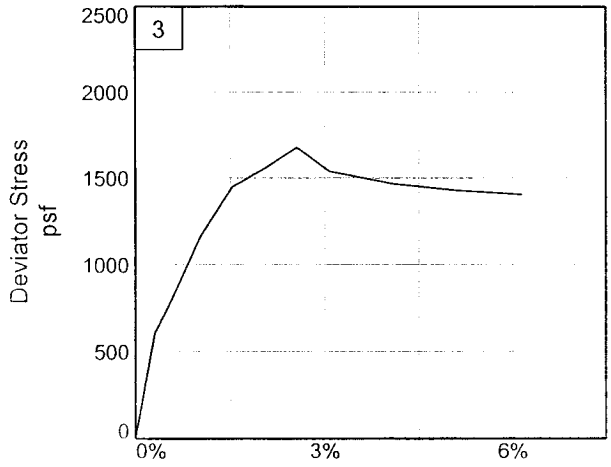
EUSTIS ENGINEERING COMPANY, INC.

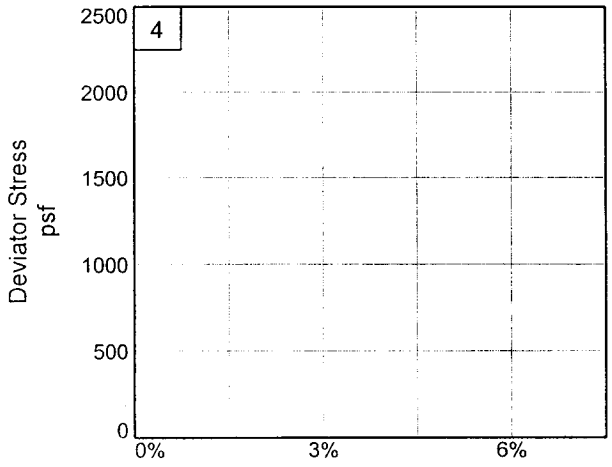
Figure 1

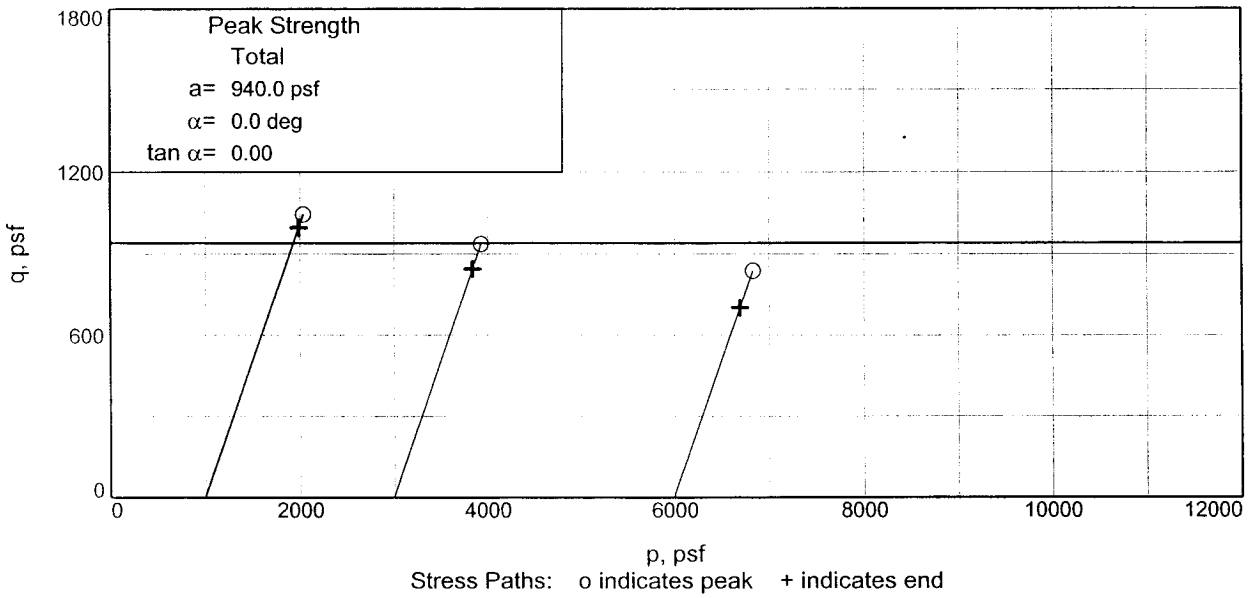
Tested By: ZH **Checked By:** JS









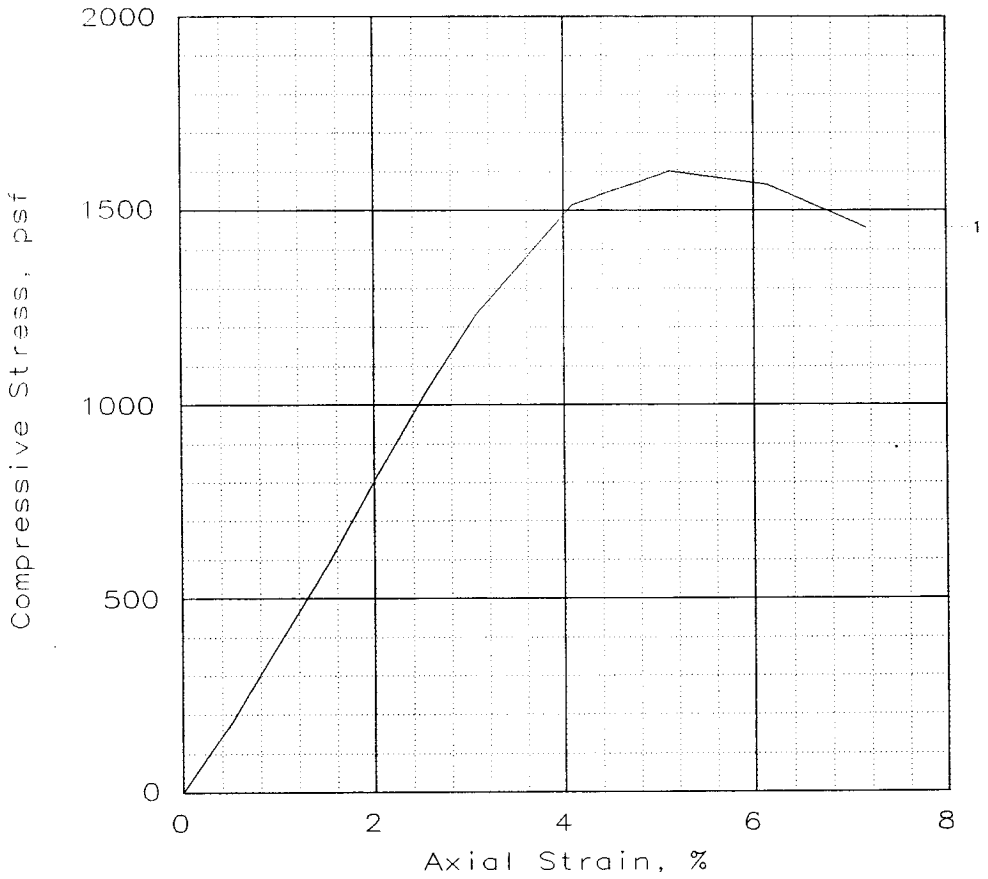


Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 54.8 **Sample Number:** 18B
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH **Checked By:** JS

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1601			
Undrained shear strength, psf	800			
Failure strain, %	5.1			
Strain rate, in/min	0.0580			
Water content, %	49.7			
Wet density, pcf	100.0			
Dry density, pcf	66.8			
Saturation, %	87.2			
Void ratio	1.5616			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ SL

GS= 2.74 | Type: Undisturbed

Project No.: 19080
Date: 11/07/05
Remarks:
Torvane = 0.320 tsf

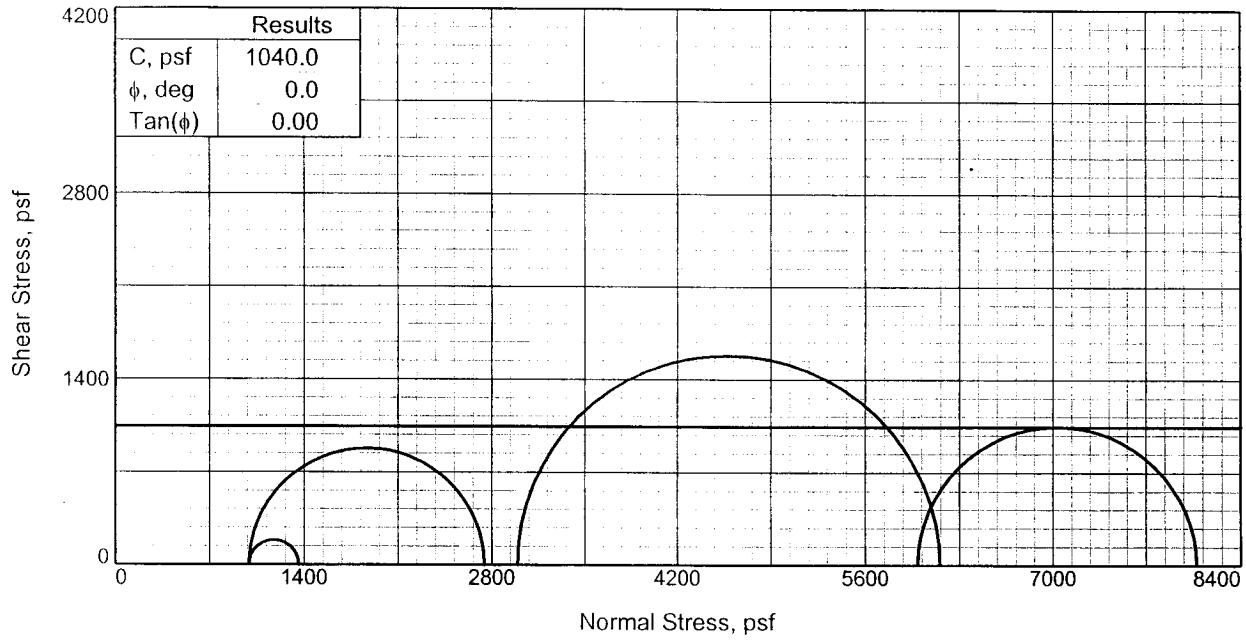
Fig. No.: ____

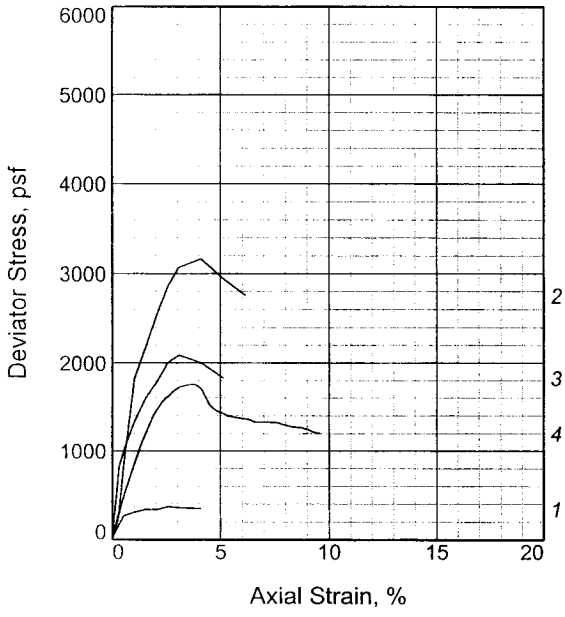
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 2,
Sample 19-B, Depth 59.1', Elev -59.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.





Specimen No.		1	2	3	4
Initial	Water Content,	49.9	47.4	48.2	48.8
	Dry Density, pcf	70.2	72.1	69.3	71.3
	Saturation,	95.6	95.1	90.5	96.1
	Void Ratio	1.4190	1.3566	1.4493	1.3828
	Diameter, in.	1.388	1.388	1.388	1.388
	Height, in.	2.930	2.930	2.930	2.930
At Test	Water Content,	52.2	49.8	53.2	50.8
	Dry Density, pcf	70.2	72.1	69.4	71.3
	Saturation,	100.0	100.0	100.0	100.0
	Void Ratio	1.4205	1.3557	1.4475	1.3826
	Diameter, in.	1.388	1.388	1.388	1.388
	Height, in.	2.931	2.930	2.929	2.930
Strain rate, in./min.		0.029	0.029	0.029	0.029
Back Pressure, psf		0.0	0.0	0.0	0.0
Cell Pressure, psf		993.6	2995.2	5990.4	993.6
Fail. Stress, psf		365.4	3159.0	2085.8	1751.3
Ult. Stress, psf		343.7	2755.0	1828.1	1196.0
σ_1 Failure, psf		1359.0	6154.2	8076.2	2744.9
σ_3 Failure, psf		993.6	2995.2	5990.4	993.6

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: St Gr CH4 w/ ars SM, SIF, SL

LL= 61 **PL=** 18 **PI=** 43
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.280 tsf

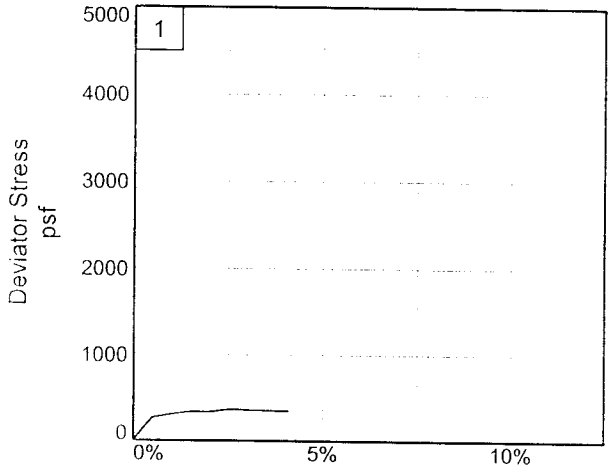
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 62.8
Sample Number: 20B
Proj. No.: 19080 **Date:** 11-7-05

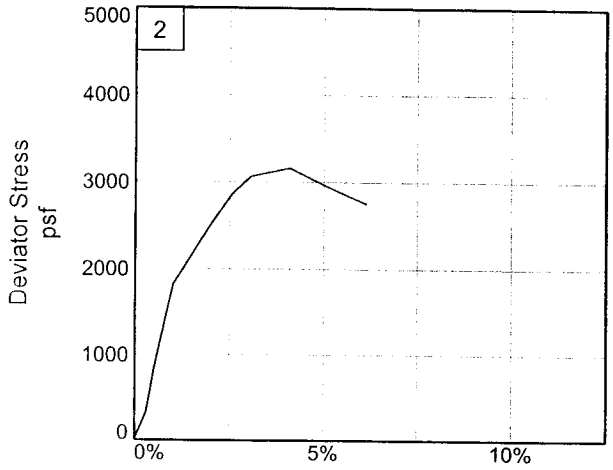
TRIAXIAL SHEAR TEST REPORT

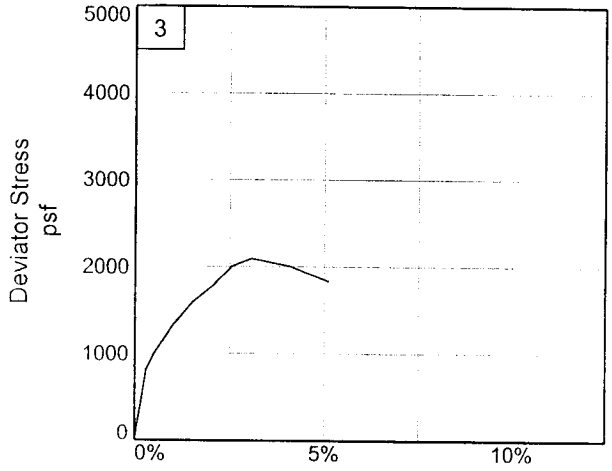
EUSTIS ENGINEERING COMPANY, INC.

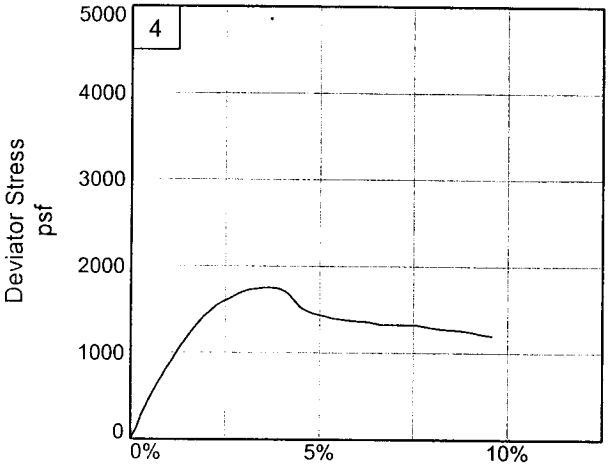
Figure 1

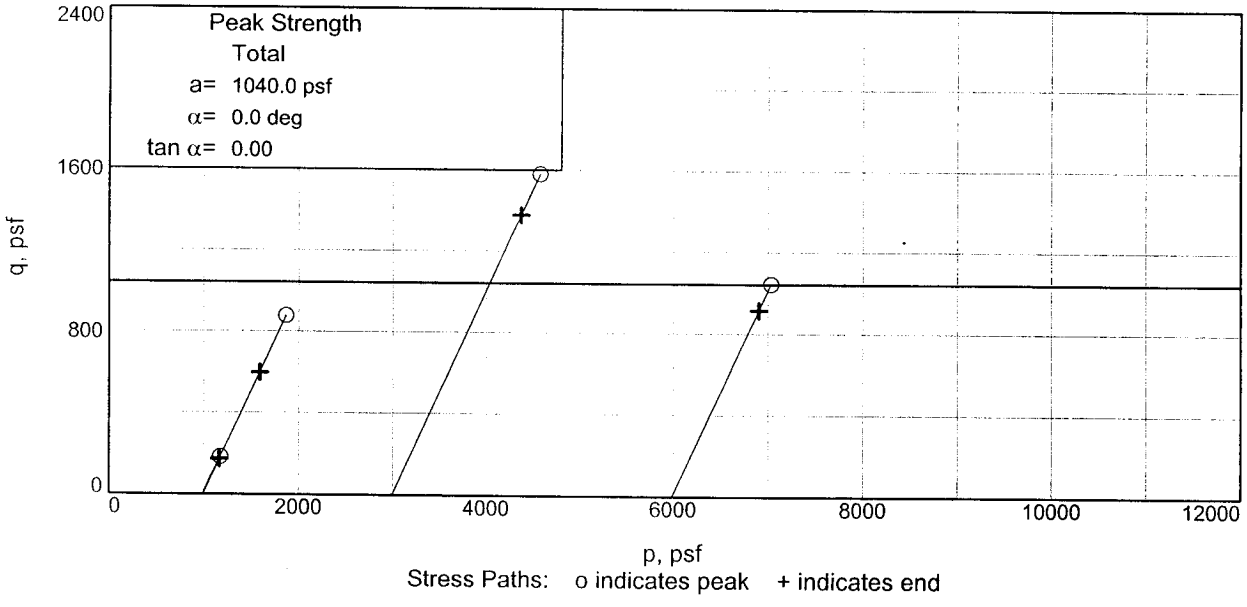
Tested By: ZH **Checked By:** JS









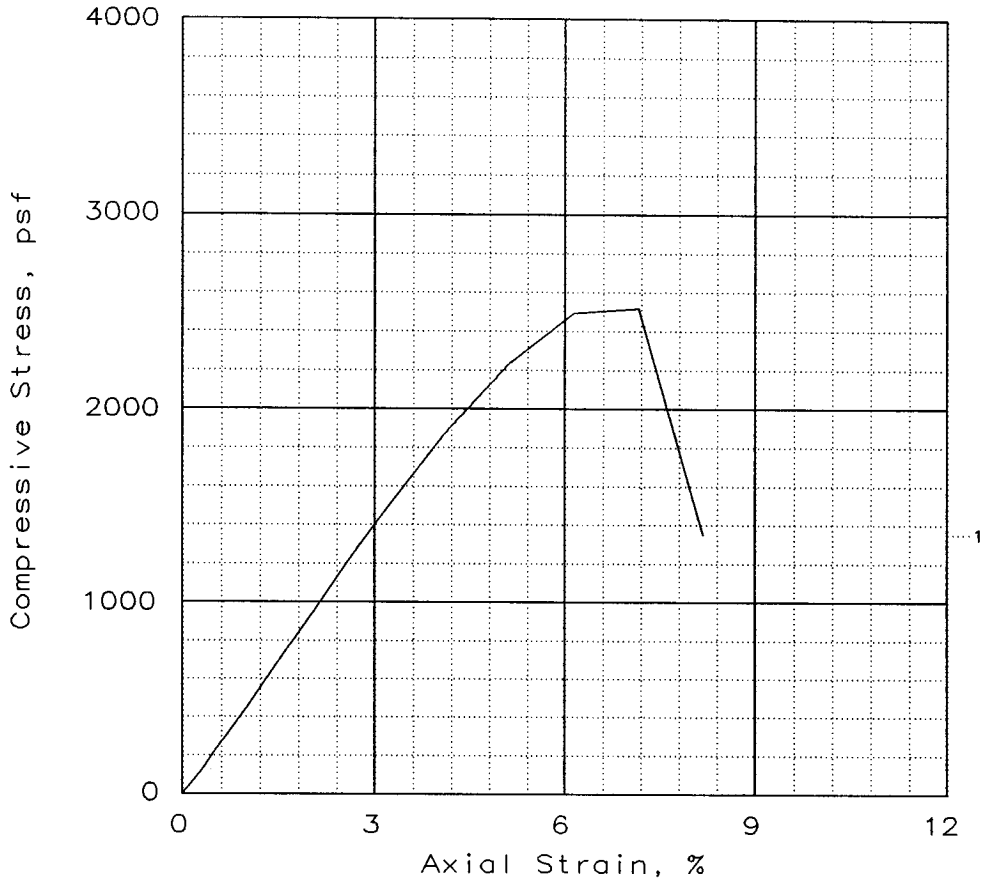


Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-6 **Depth:** 62.8 **Sample Number:** 20B
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: ZH **Checked By:** JS

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2518			
Undrained shear strength, psf	1259			
Failure strain, %	7.2			
Strain rate, in/min	0.0580			
Water content, %	102.1			
Wet density, pcf	86.4			
Dry density, pcf	42.8			
Saturation, %	93.5			
Void ratio	2.9710			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St Gr CH4 w/ wd, O

GS= 2.72 | Type: Undisturbed

Project No.: 19080
Date: 11/07/05
Remarks:
Torvane = 0.320 tsf

Fig. No.: ———

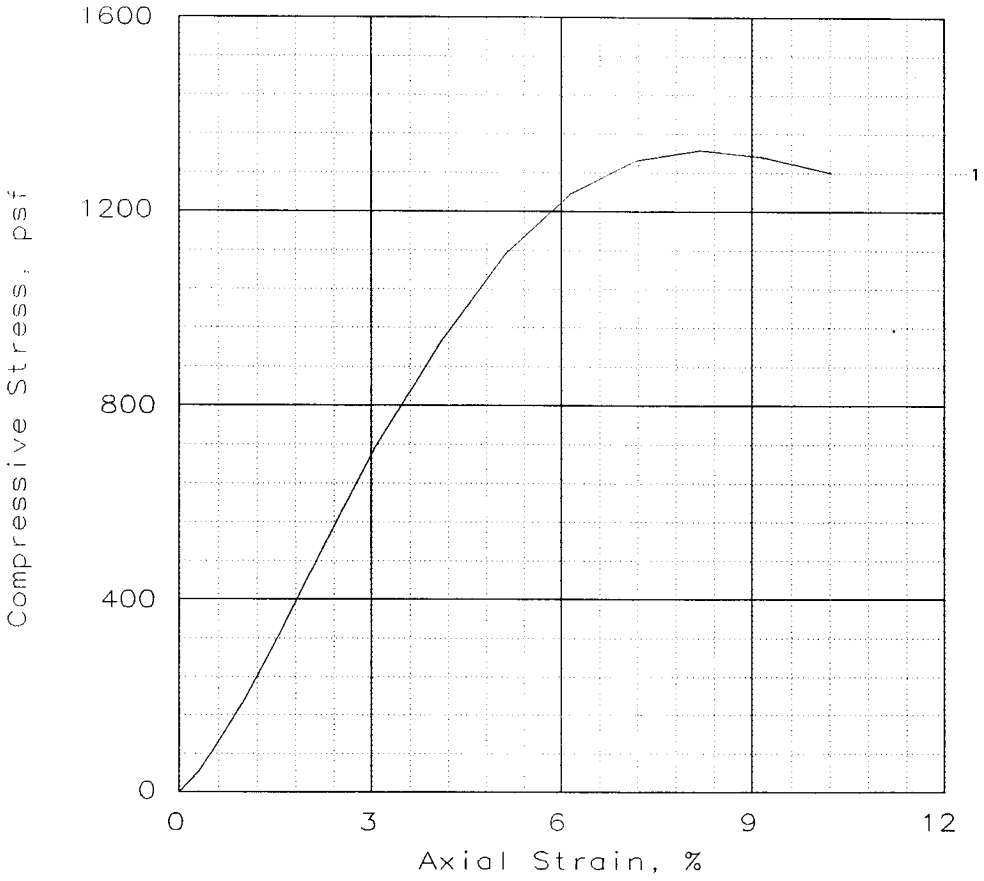
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 21-B, Depth 67.1', Elev -67.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	1326			
Undrained shear strength, psf	663			
Failure strain, %	8.2			
Strain rate, in/min	0.0580			
Water content, %	53.9			
Wet density, pcf	101.9			
Dry density, pcf	66.2			
Saturation, %	93.8			
Void ratio	1.5650			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ wd

LL = 63	PL = 18	PI = 45	GS= 2.72	Type: Undisturbed

Project No.: 19080
Date: 11/07/05
Remarks:
Torvane = 0.250 tsf

Fig. No.: ———

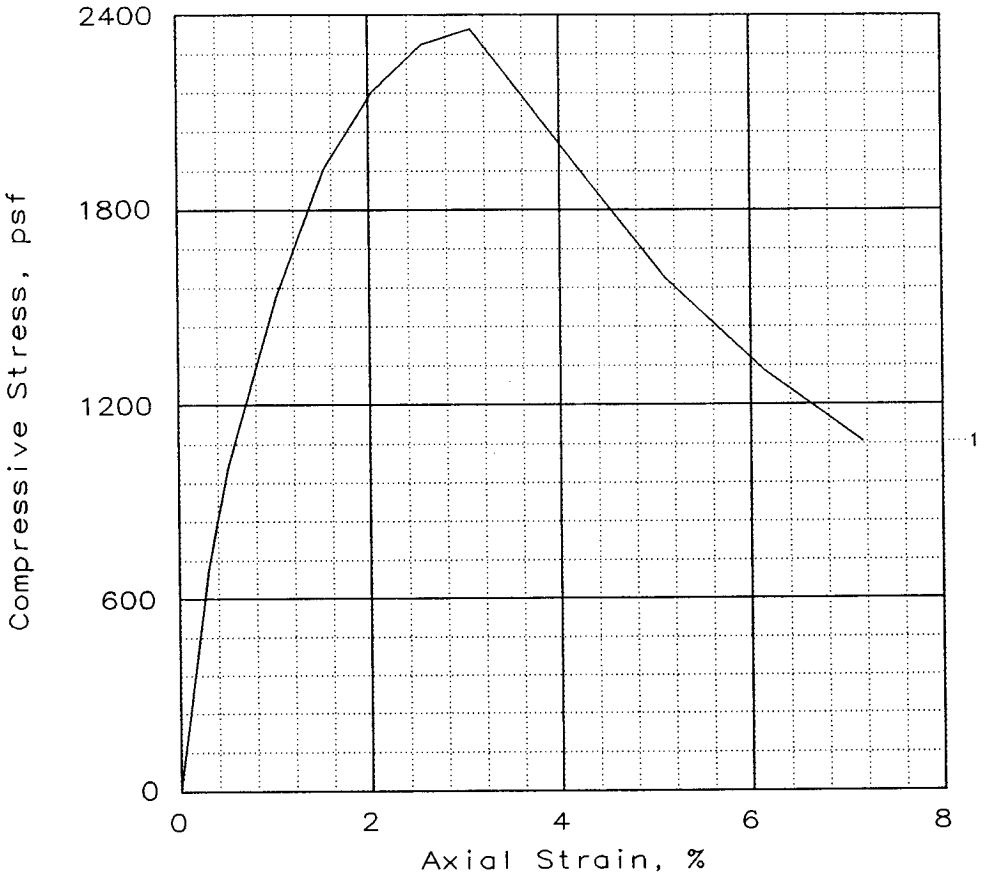
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 22-B, Depth 71.1', Elev -71.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

UNCONFINED COMPRESSION TEST



SPECIMEN NO.:	1			
Unconfined strength, psf	2357			
Undrained shear strength, psf	1179			
Failure strain, %	3.1			
Strain rate, in/min	0.0583			
Water content, %	30.5			
Wet density, pcf	116.8			
Dry density, pcf	89.5			
Saturation, %	92.5			
Void ratio	0.8970			
Specimen diameter, in	1.39			
Specimen height, in	2.93			
Height/diameter ratio	2.11			

Description: St lGr CH4 w/ ars SM

			GS= 2.72	Type: Undisturbed

Project No.: 19080
Date: 11/07/05
Remarks:
Torvane = 0.625 tsf

Fig. No.: ——

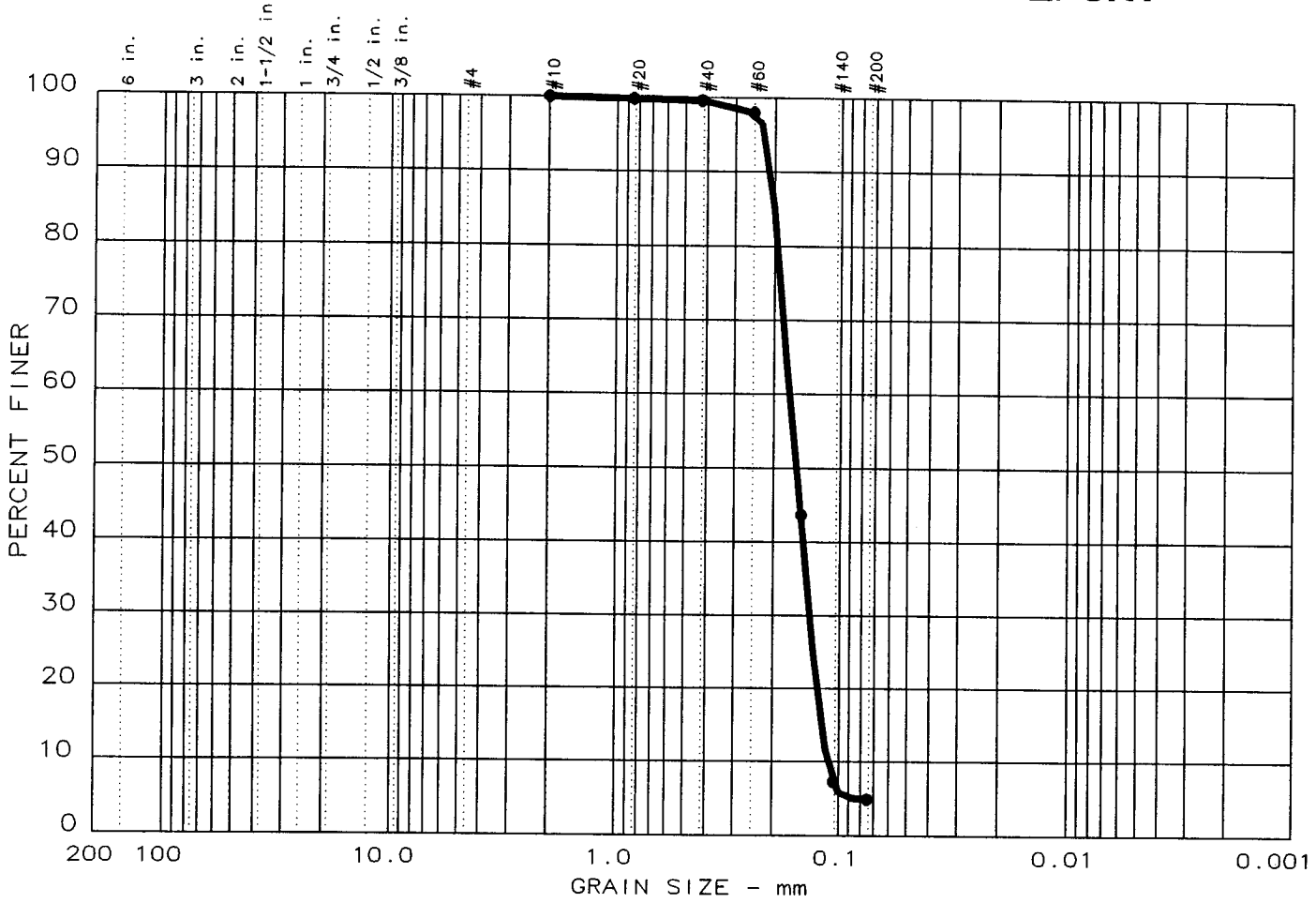
Client: U.S. Army Corps of Engineers

Project: Repairs to Levees and Floodwalls
at the 17th Street Canal
Location: Boring 6,
Sample 23-B, Depth 75.1', Elev -75.22

UNCONFINED COMPRESSION TEST

Eustis Engineering Company, Inc.

PARTICLE SIZE DISTRIBUTION TEST REPORT



	% +3"	% GRAVEL	% SAND	% SILT	% CLAY	USCS	LL	PI
●	0.0	0.0	95.1	4.9		SP		

SIEVE inches size	PERCENT FINER ●		
GRAIN SIZE			
D_{60}	0.17		
D_{30}	0.14		
D_{10}	0.11		
COEFFICIENTS			
C_c	0.99		
C_u	1.5		

SIEVE number size	PERCENT FINER ●		
10	100.0		
20	99.8		
40	99.6		
60	98.0		
100	43.7		
140	7.3		
200	4.9		

Sample information:
● Boring 6, Sample 12
GR SP

Remarks:
Sample depth 35.5'

Eustis Engineering Company, Inc.

Project No.: 19080
Project: USACE - 17TH Street Canal

Date: 11-14-05 Data Sheet No. ——