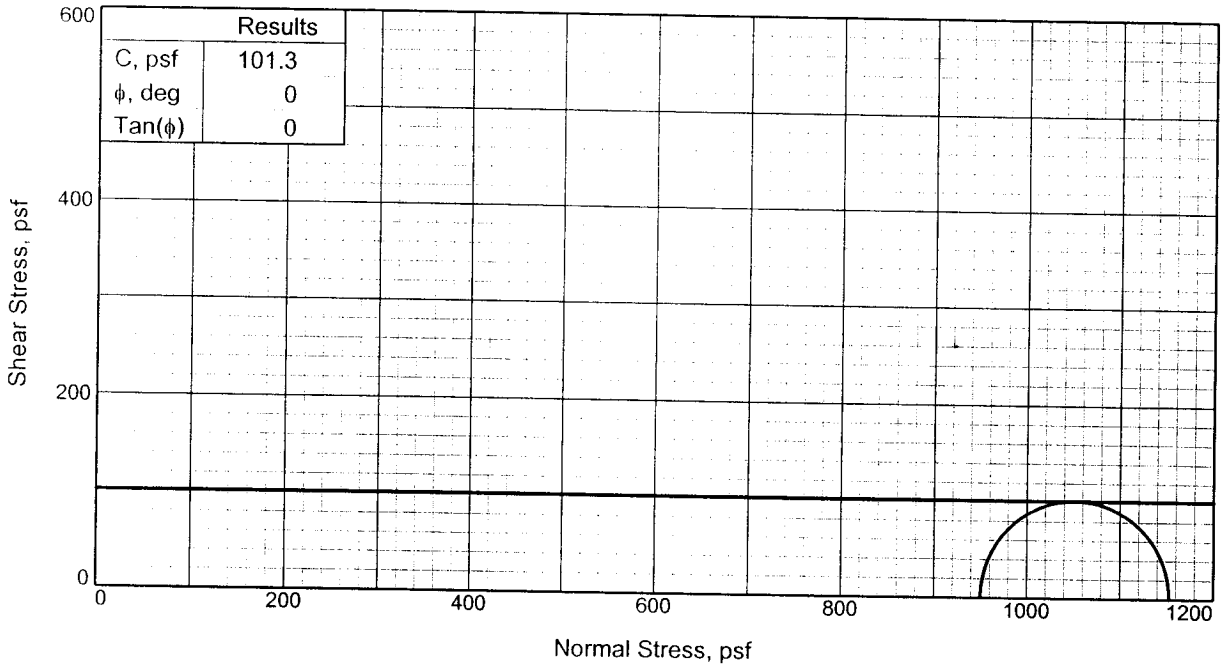
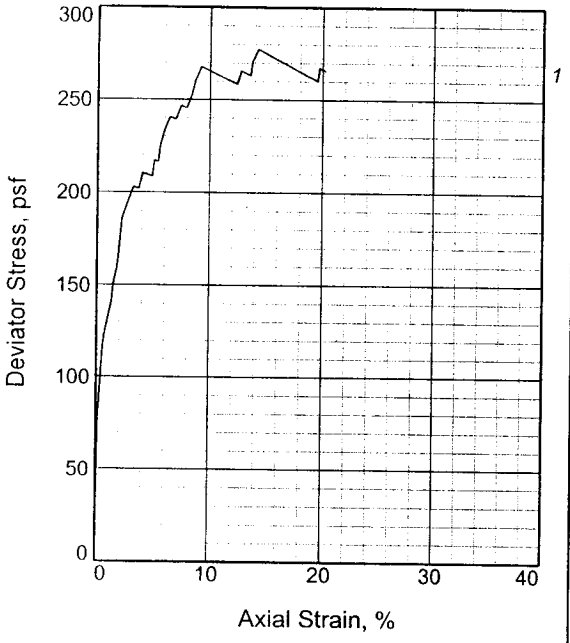




Specimen No.		1
Initial	Water Content,	100.5
	Dry Density, pcf	41.6
	Saturation,	88.9
	Void Ratio	3.0537
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	100.5
	Dry Density, pcf	41.6
	Saturation,	88.9
	Void Ratio	3.0537
	Diameter, in.	1.388
	Height, in.	2.930
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		950.4
Fail. Stress, psf		202.6
Ult. Stress, psf		265.7
σ_1 Failure, psf		1153.0
σ_3 Failure, psf		950.4

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: vSo dGr CLOA w/ Tr-wd

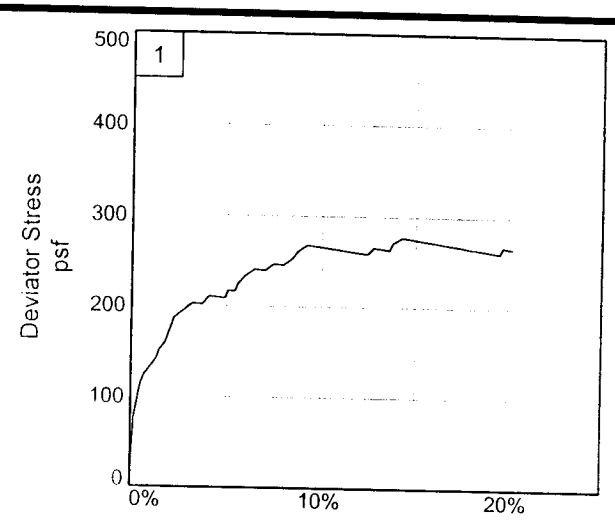
LL= 80 **PL=** 26 **PI=** 54
Assumed Specific Gravity= 2.7
Remarks: Torvane = 0.080 tsf

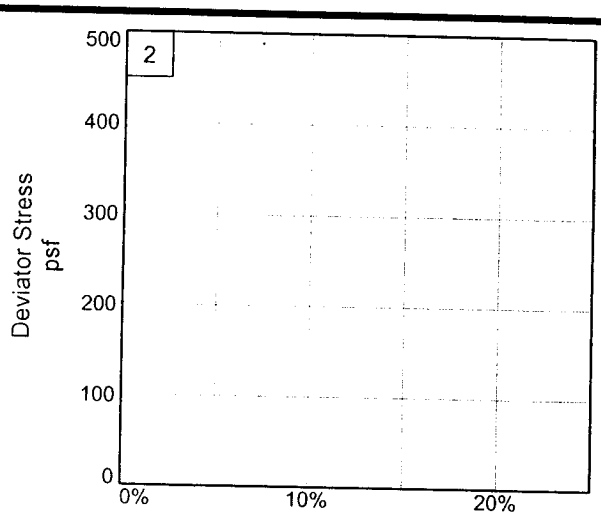
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 16.5
Sample Number: 2
Proj. No.: 19080 **Date:** 11/14/05

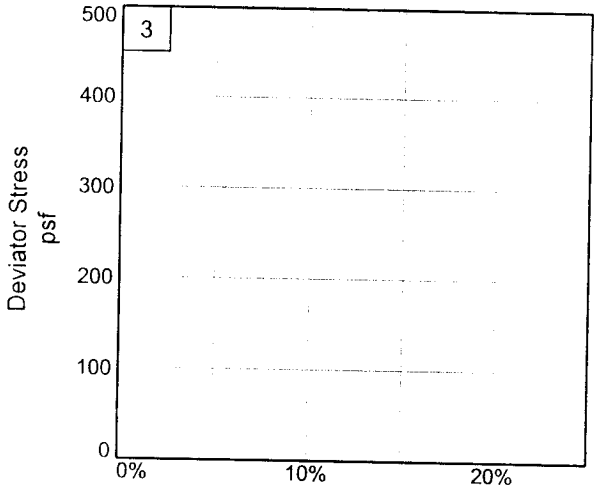
TRIAXIAL SHEAR TEST REPORT

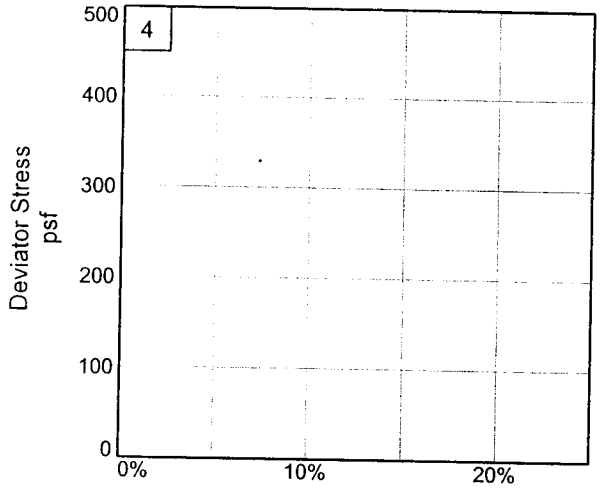
EUSTIS ENGINEERING COMPANY, INC.

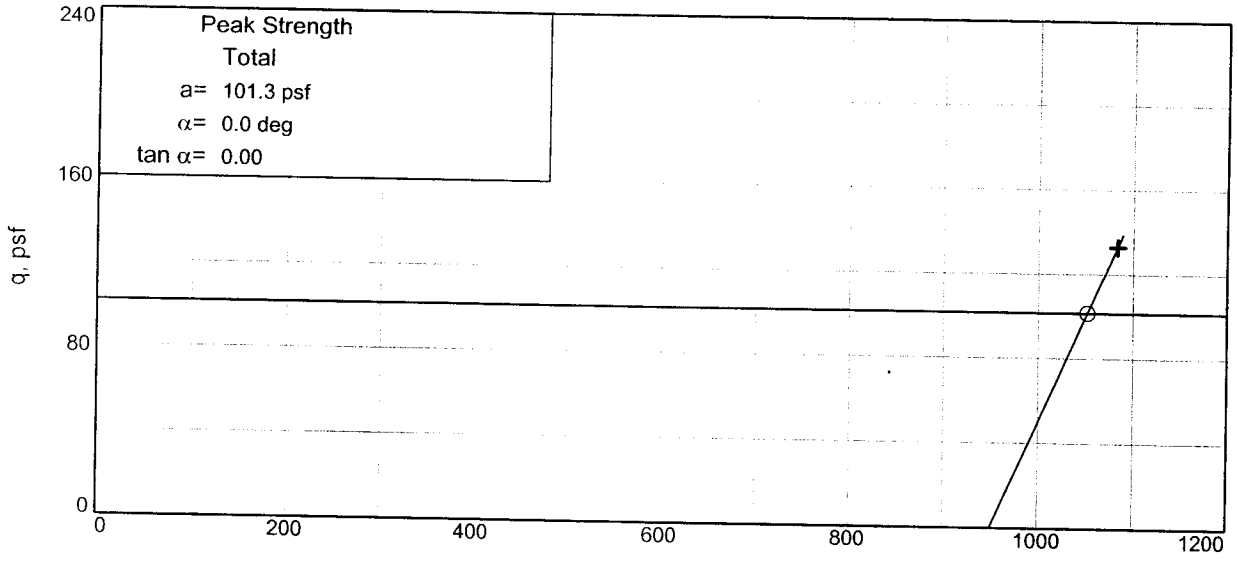
Figure 1









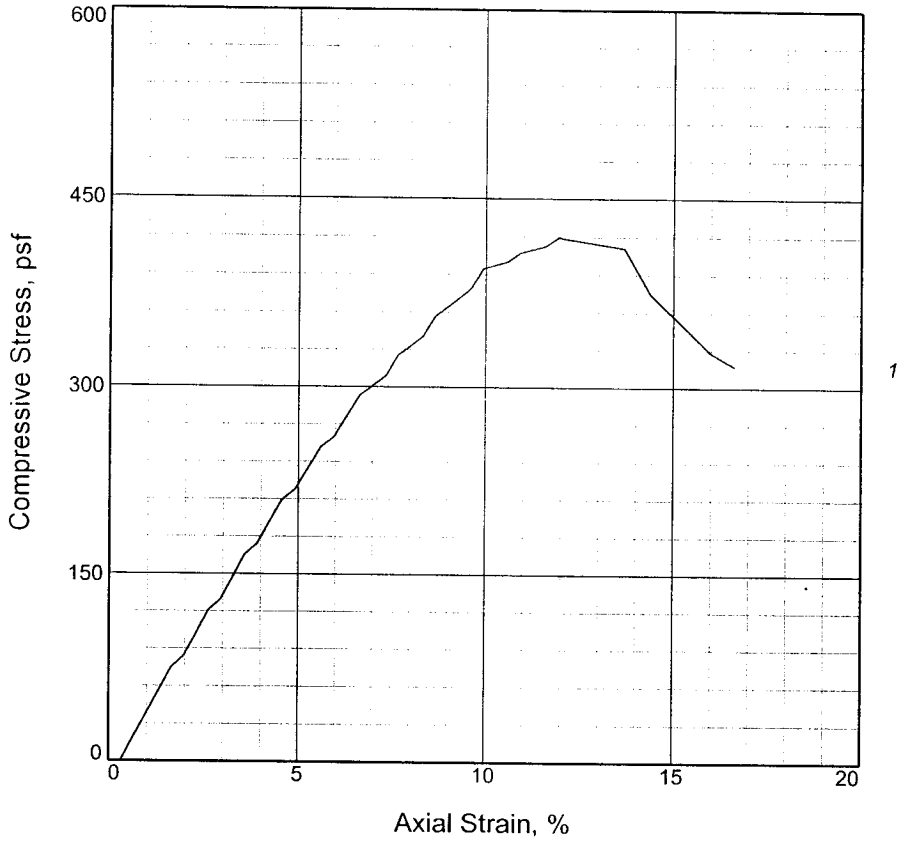


Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 16.5 **Sample Number:** 2
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	419.1			
Undrained shear strength, psf	209.5			
Failure strain, %	11.9			
Strain rate, in./min.	0.059			
Water content, %	61.0			
Wet density, pcf	95.4			
Dry density, pcf	59.2			
Saturation, %	89.3			
Void ratio	1.8449			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: vSo dGr CLOA w/ lys CH

LL =	PL =	PI =	**Assumed GS=** 2.70	**Type:** Undisturbed

Project No.: 19080
Date: 11-9-05

Remarks:
Torvane = 0.070 tsf

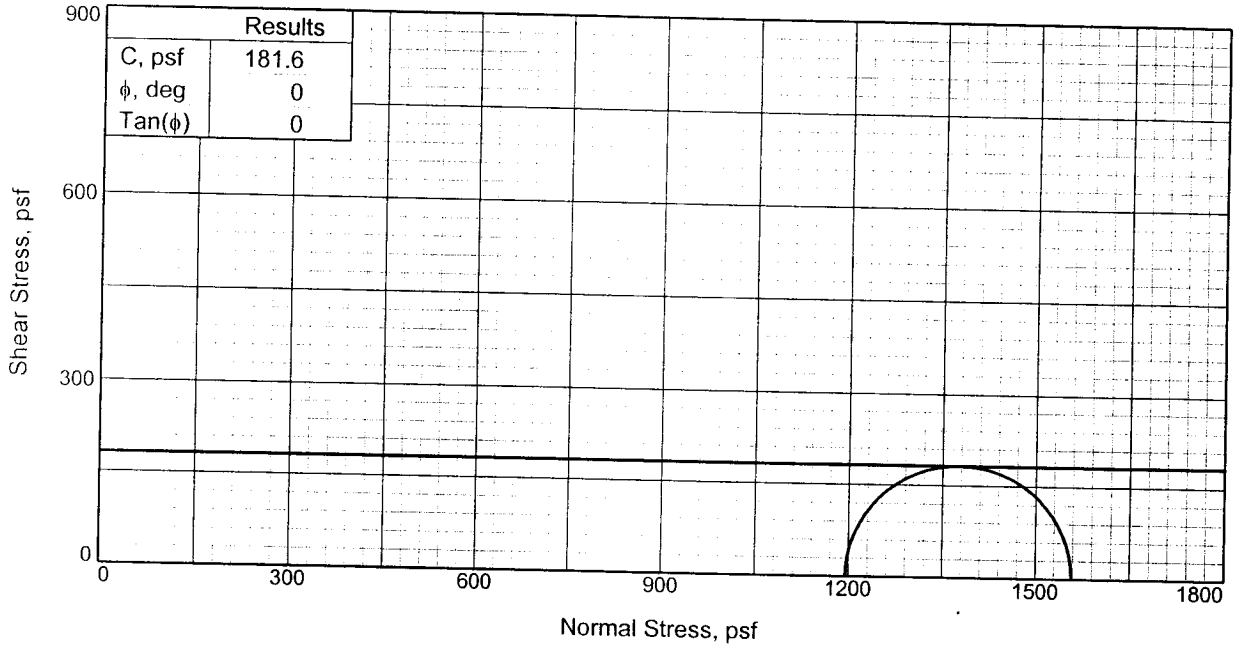
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 19.0
Sample Number: 3

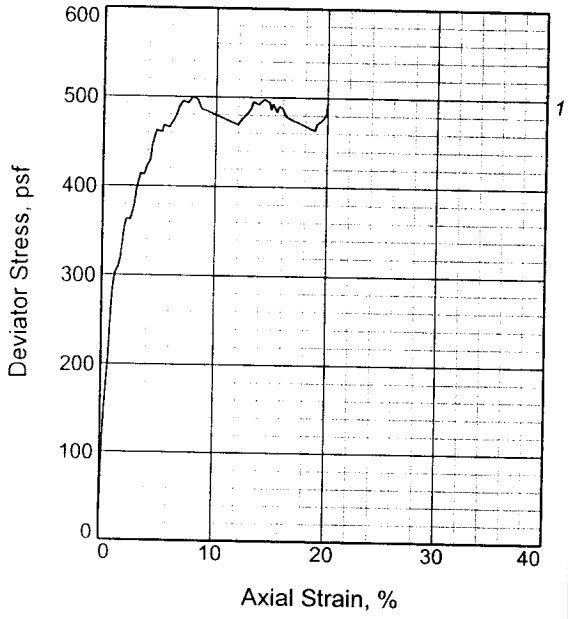
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** JS





Specimen No.		1
Initial	Water Content,	60.5
	Dry Density, pcf	61.1
	Saturation,	92.6
	Void Ratio	1.7770
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	65.3
	Dry Density, pcf	61.2
	Saturation,	100.0
	Void Ratio	1.7764
	Diameter, in.	1.388
	Height, in.	2.930
Strain rate, in./min.		0.030
Back Pressure, psf		0.0
Cell Pressure, psf		1195.2
Fail. Stress, psf		363.2
Ult. Stress, psf		494.7
σ_1 Failure, psf		1558.4
σ_3 Failure, psf		1195.2

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: vSo Gr CLOA w/ lns CH

LL= 63 **PL=** 22 **PI=** 41
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.130 tsf

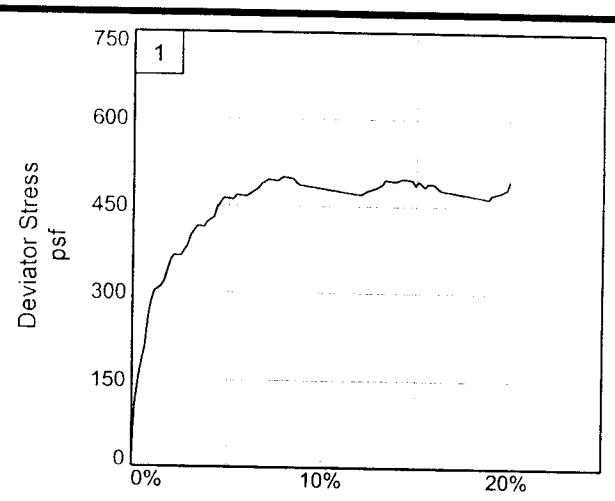
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 21.5
Sample Number: 4
Proj. No.: 19080 **Date:** 11/11/05

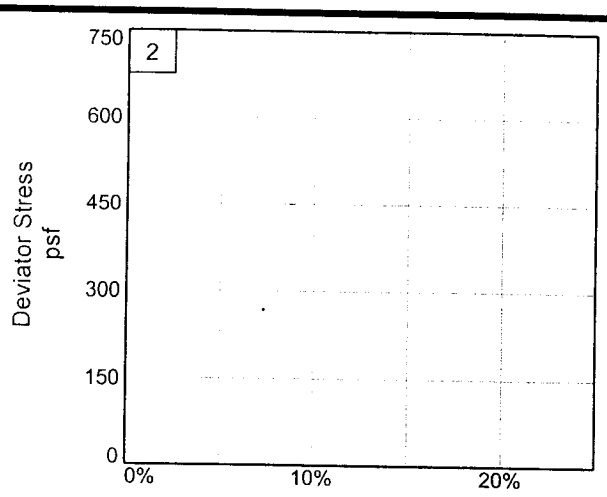
TRIAXIAL SHEAR TEST REPORT

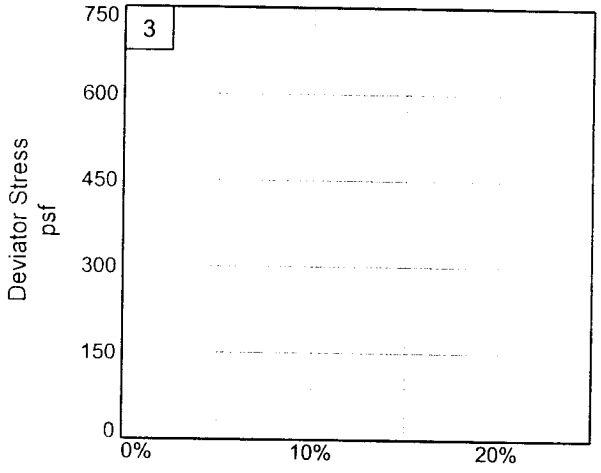
EUSTIS ENGINEERING COMPANY, INC.

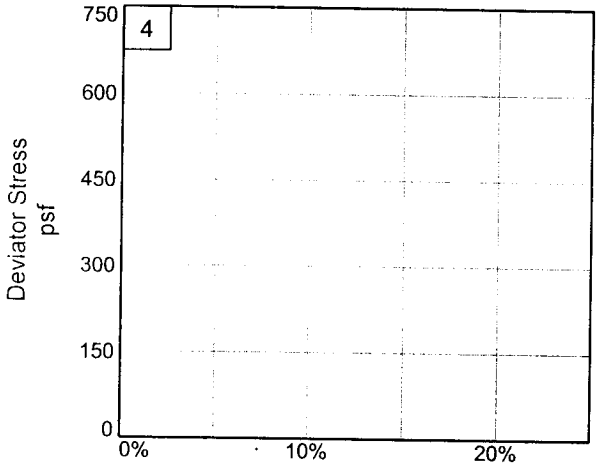
Figure 1

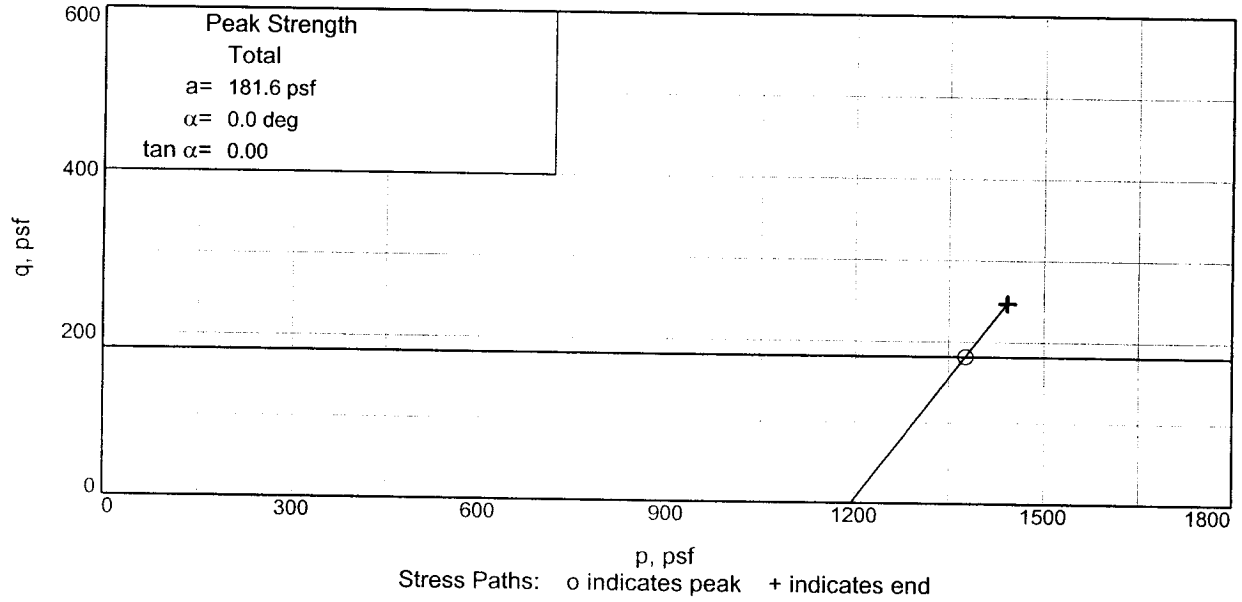
Tested By: RR **Checked By:** DP











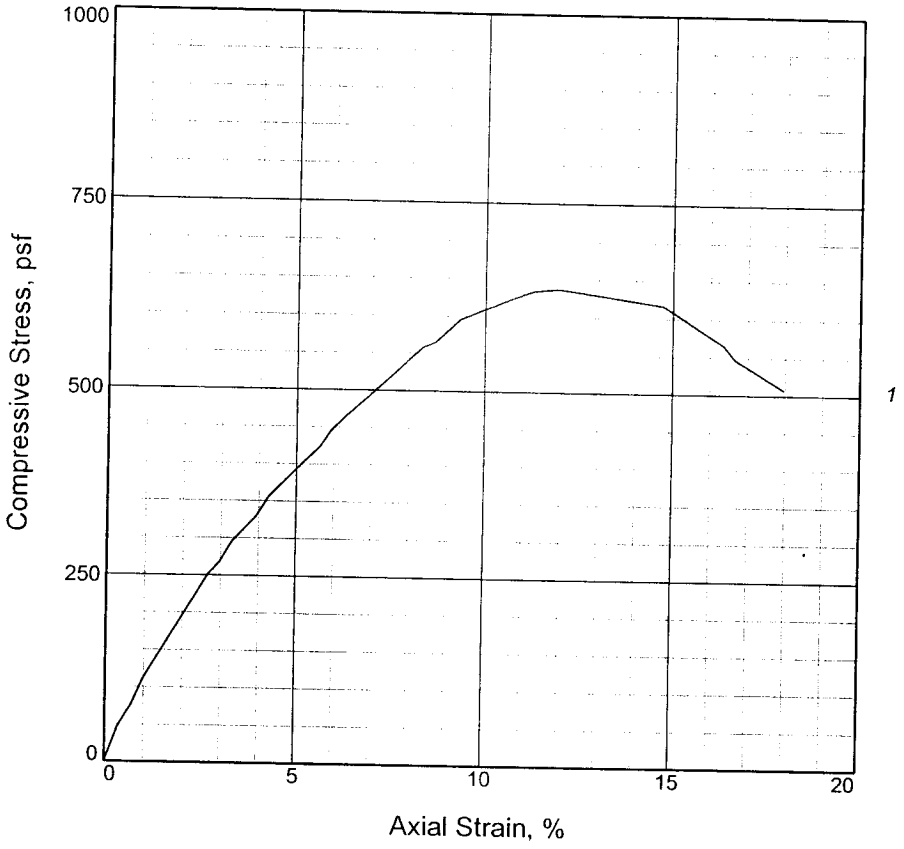
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 21.5 **Sample Number:** 4
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	636.9			
Undrained shear strength, psf	318.5			
Failure strain, %	11.9			
Strain rate, in./min.	0.059			
Water content, %	56.3			
Wet density, pcf	98.4			
Dry density, pcf	62.9			
Saturation, %	90.6			
Void ratio	1.6782			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: So dGr CLOA w/ ars CH

LL =	PL =	PI =	Assumed GS= 2.70	Type: Undisturbed

Project No.: 19080
Date: 11-11-05

Remarks:
Torvane = 0.150 tsf

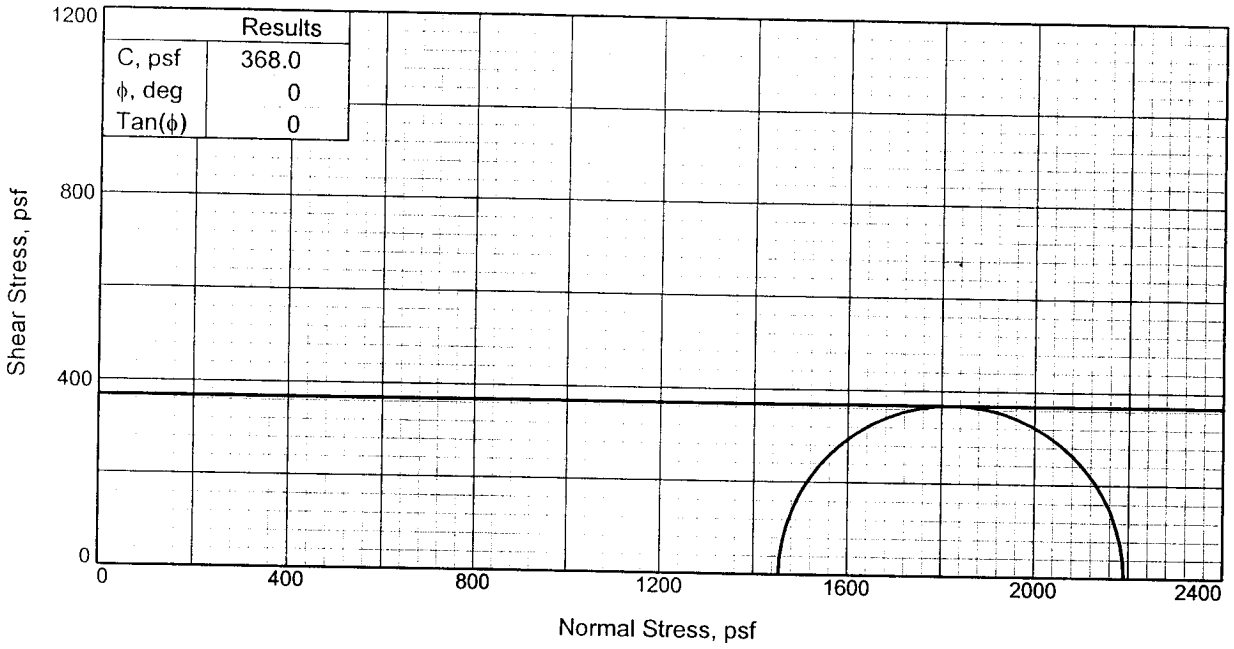
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 24.0
Sample Number: 5

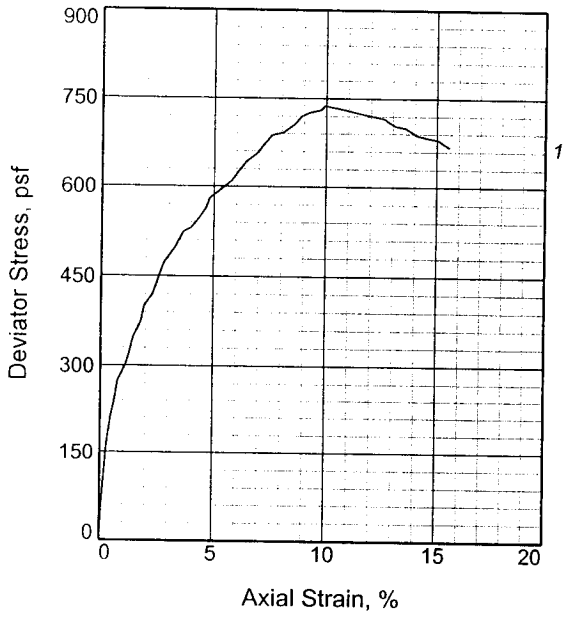
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** JS





Specimen No.		1
Initial	Water Content,	67.0
	Dry Density, pcf	56.3
	Saturation,	90.7
	Void Ratio	1.9951
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	73.8
	Dry Density, pcf	56.3
	Saturation,	100.0
	Void Ratio	1.9930
	Diameter, in.	1.388
	Height, in.	2.929
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		1454.4
Fail. Stress, psf		736.1
Ult. Stress, psf		667.2
σ_1 Failure, psf		2190.5
σ_3 Failure, psf		1454.4

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: So dGr & Gr CLOA

LL= 75 **PL=** 26 **PI=** 49
Assumed Specific Gravity= 2.7
Remarks: Torvane = 0.150 tsf

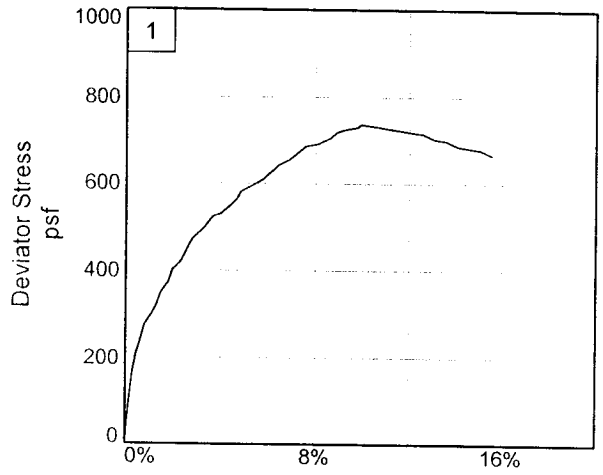
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 26.5
Sample Number: 6
Proj. No.: 19080 **Date:** 11/11/05

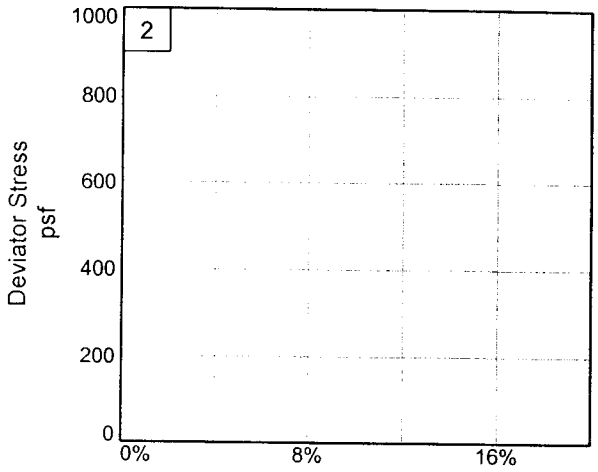
TRIAXIAL SHEAR TEST REPORT

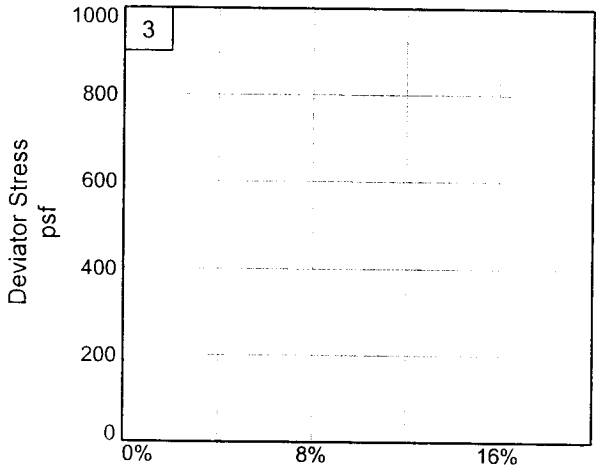
EUSTIS ENGINEERING COMPANY, INC.

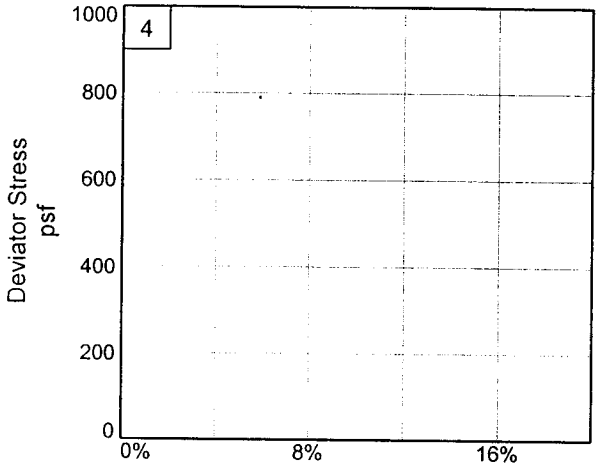
Figure 1

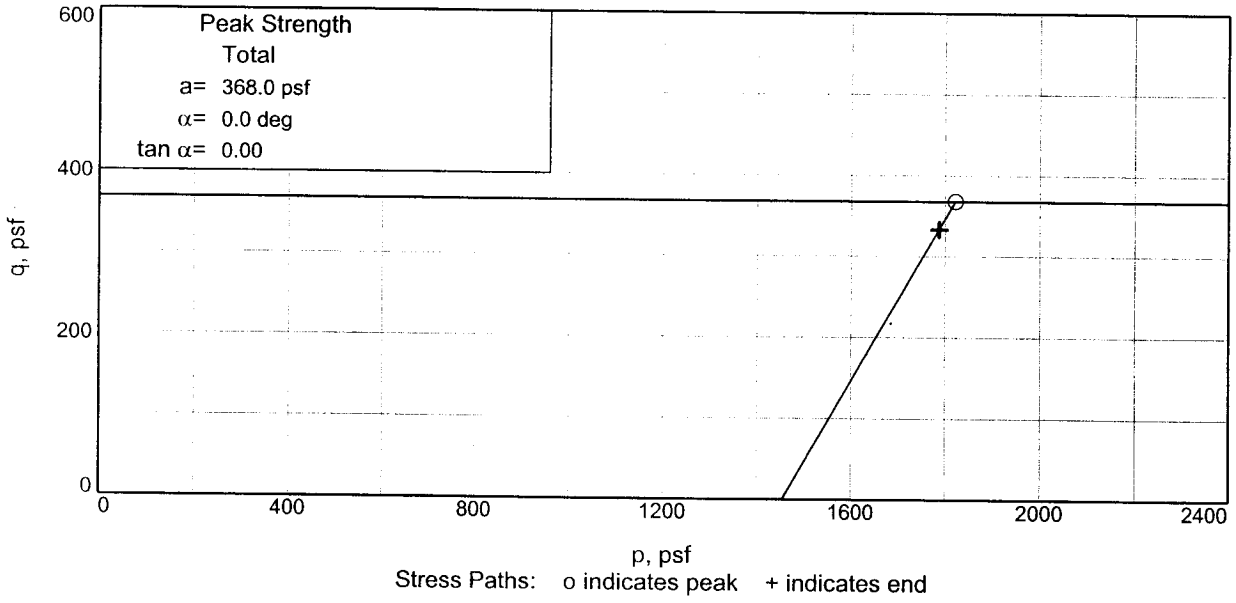
Tested By: RR **Checked By:** DP









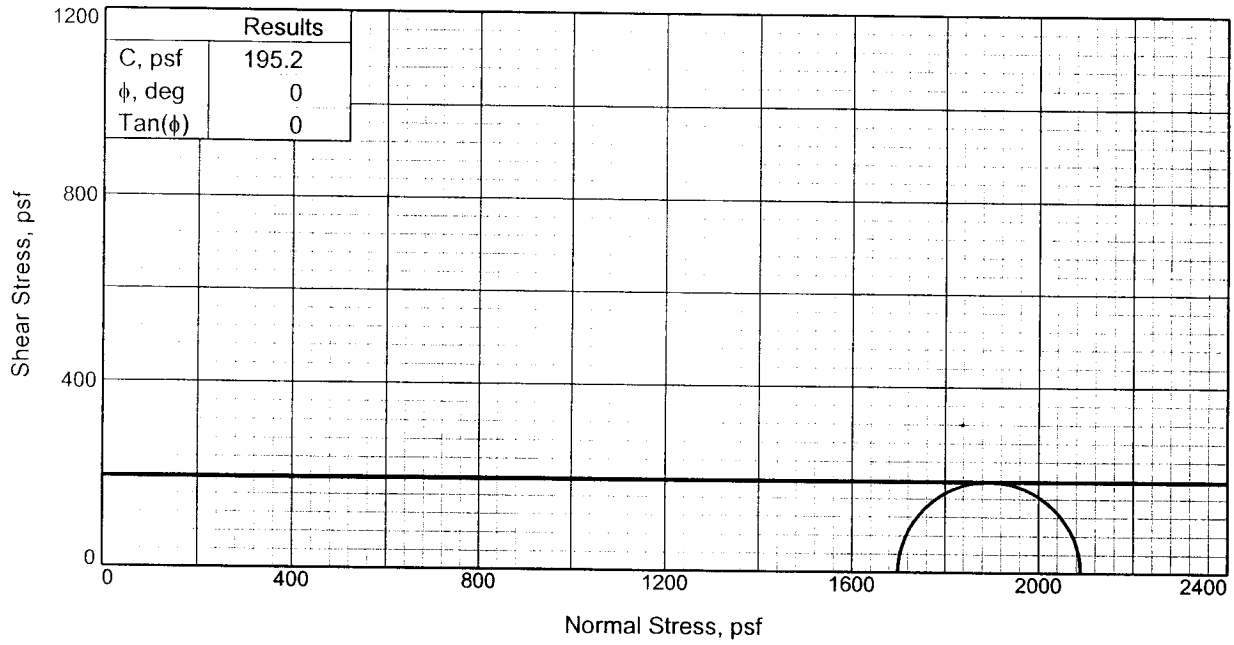


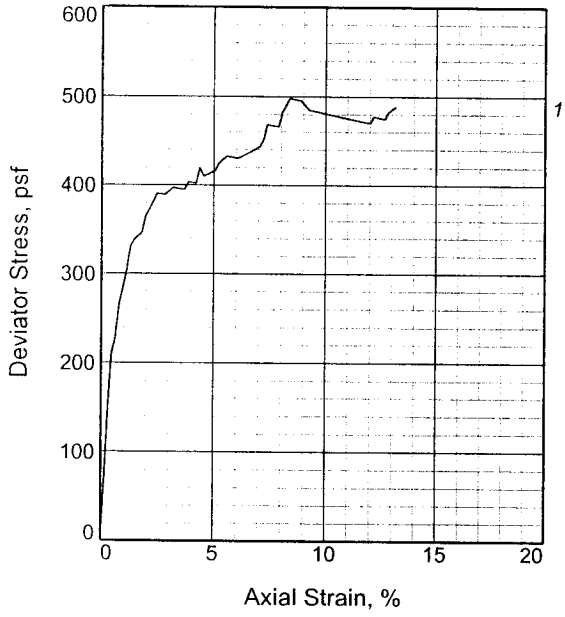
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 26.5 **Sample Number:** 6
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	94.1
	Dry Density, pcf	46.7
	Saturation,	96.8
	Void Ratio	2.6627
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	96.8
	Dry Density, pcf	46.8
	Saturation,	100.0
	Void Ratio	2.6526
	Diameter, in.	1.387
	Height, in.	2.927
Strain rate, in./min.		0.030
Back Pressure, psf		0.0
Cell Pressure, psf		1699.2
Fail. Stress, psf		390.4
Ult. Stress, psf		488.4
σ_1 Failure, psf		2089.6
σ_3 Failure, psf		1699.2

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

LL= 107 **PL=** 29 **PI=** 78
Assumed Specific Gravity= 2.74
Remarks: Torvane = 0.100 tsf

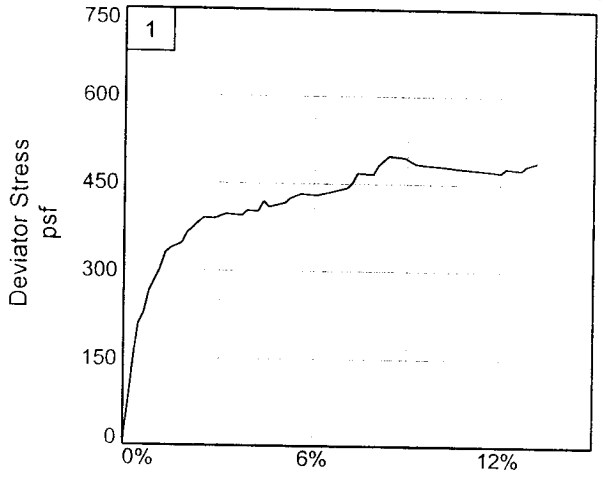
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 31.5
Sample Number: 8
Proj. No.: 19080 **Date:** 11/10/05

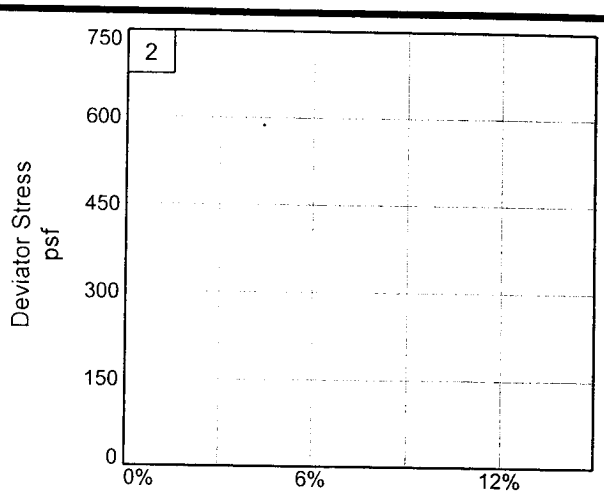
TRIAXIAL SHEAR TEST REPORT

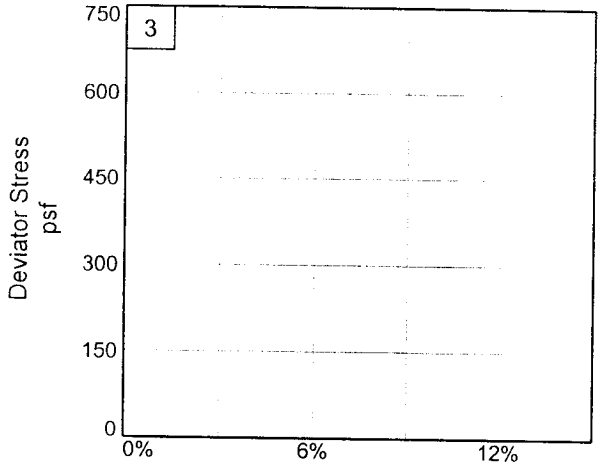
EUSTIS ENGINEERING COMPANY, INC.

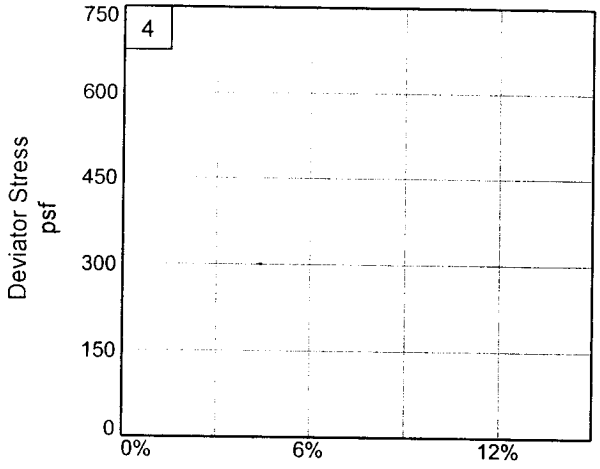
Figure 1

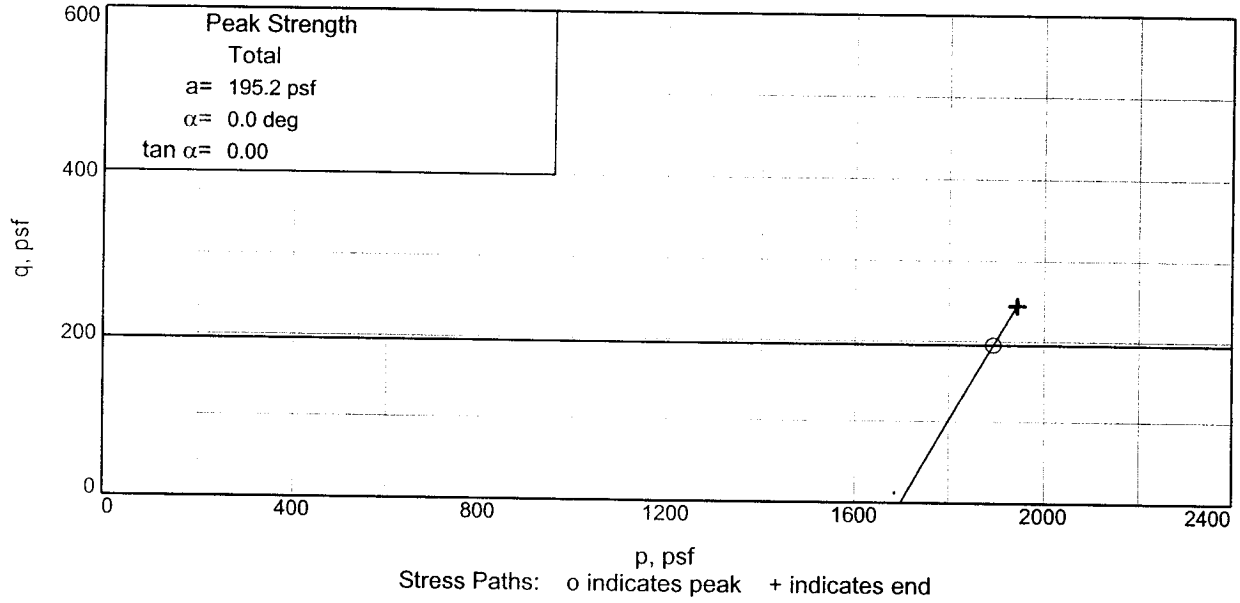
Tested By: RR **Checked By:** DP











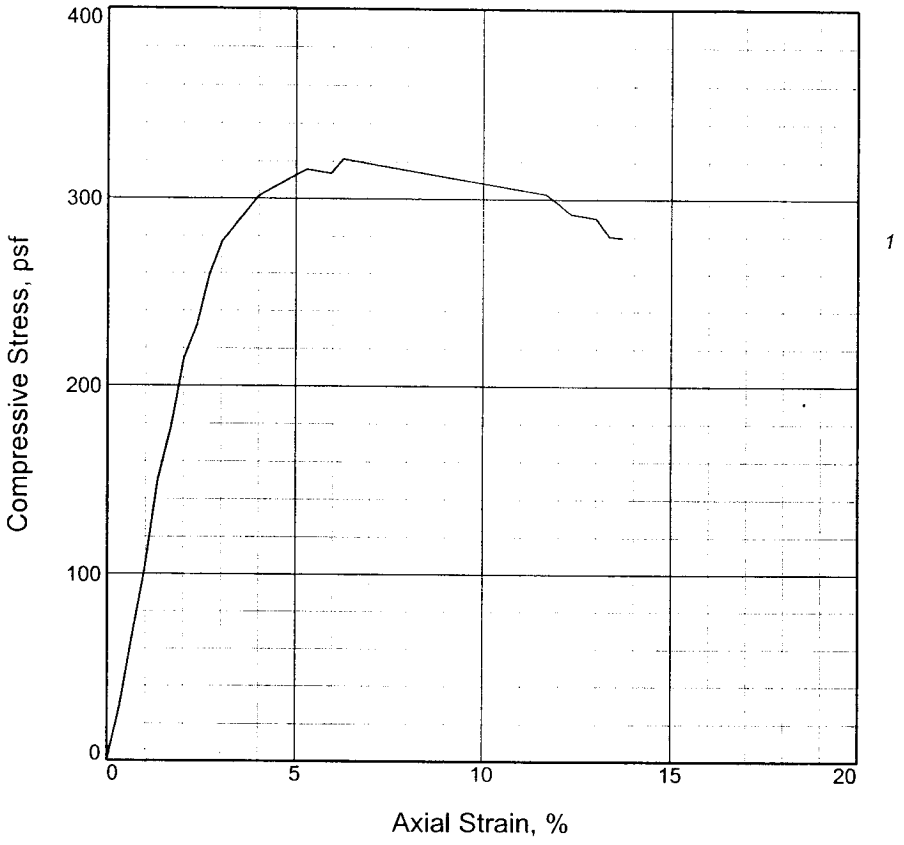
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 31.5 **Sample Number:** 8
Project No.: 19080 **Figure** _____

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR _____ **Checked By:** DP _____

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	315.5			
Undrained shear strength, psf	157.7			
Failure strain, %	5.3			
Strain rate, in./min.	0.059			
Water content, %	92.6			
Wet density, pcf	89.2			
Dry density, pcf	46.3			
Saturation, %	94.3			
Void ratio	2.6920			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: vSo Gr CH4 w/ lns ML

LL =	PL =	PI =	Assumed GS= 2.74	Type: Undisturbed

Project No.: 19080

Date: 11/11/05

Remarks:
Torvane = 0.100 tsf

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA

Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL

Source of Sample: B-10 **Depth:** 34.0

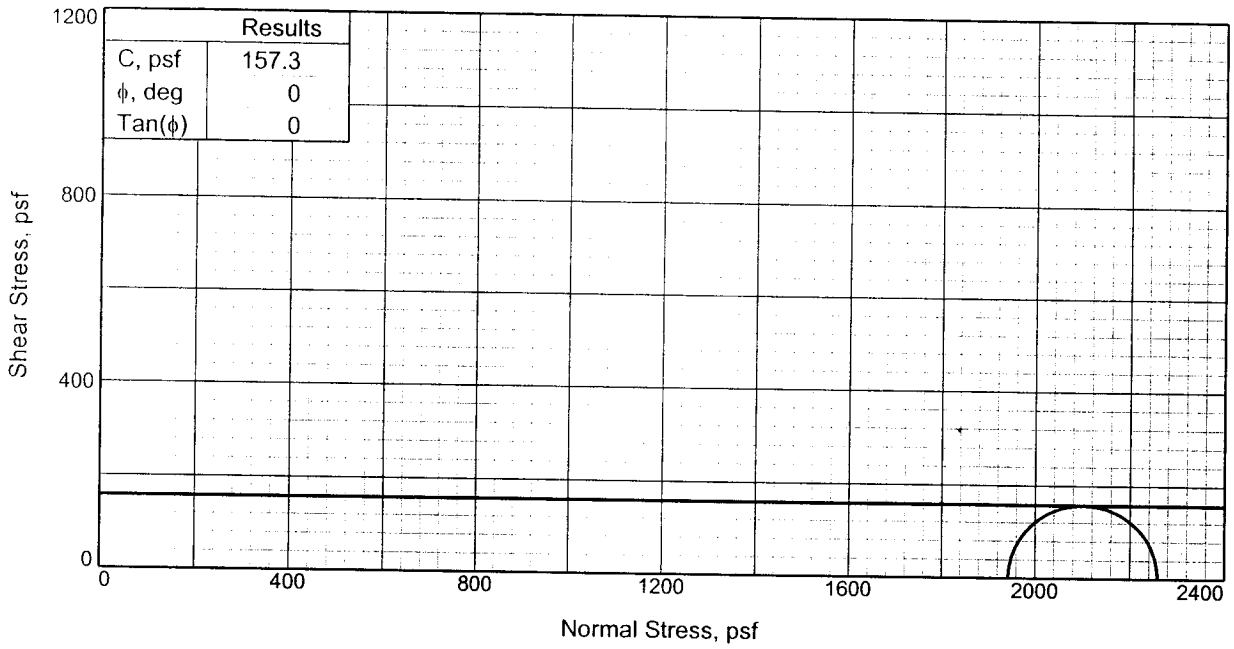
Sample Number: 9

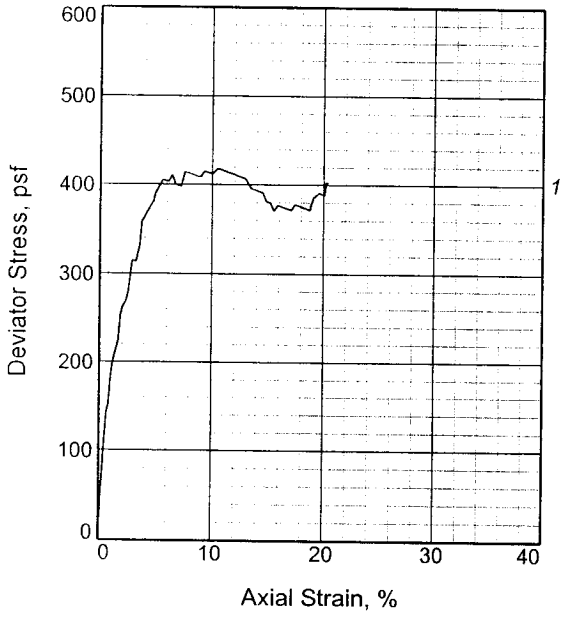
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	59.9
	Dry Density, pcf	63.0
	Saturation,	96.2
	Void Ratio	1.6945
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	62.1
	Dry Density, pcf	63.1
	Saturation,	100.0
	Void Ratio	1.6895
	Diameter, in.	1.387
	Height, in.	2.928
Strain rate, in./min.		0.030
Back Pressure, psf		0.0
Cell Pressure, psf		1944.0
Fail. Stress, psf		314.6
Ult. Stress, psf		402.0
σ_1 Failure, psf		2258.6
σ_3 Failure, psf		1944.0

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: vSo Gr CH4 w/ ars & lys SM, SIF

LL= 64 **PL=** 18 **PI=** 46
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.150 tsf

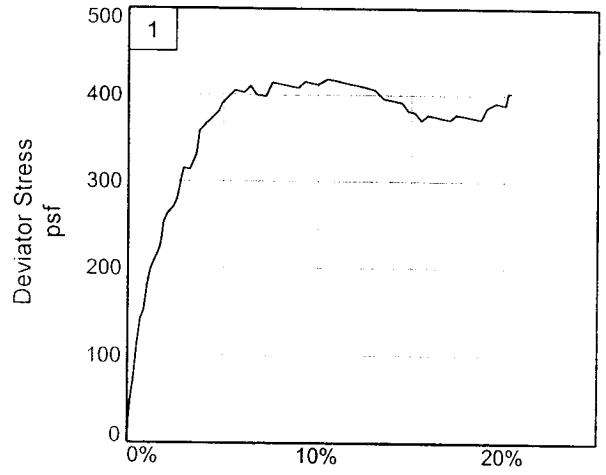
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 36.5
Sample Number: 10
Proj. No.: 19080 **Date:** 11/11/05

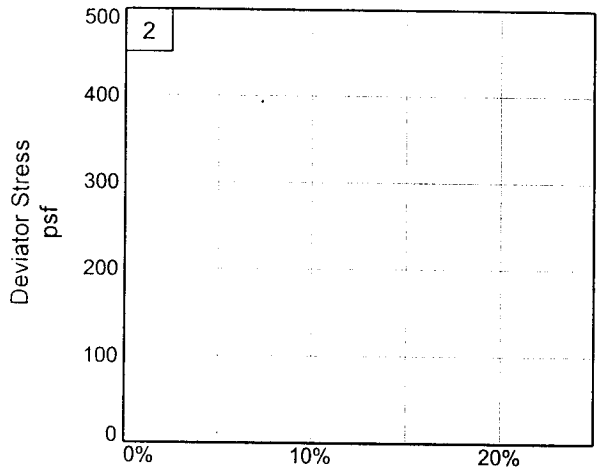
TRIAXIAL SHEAR TEST REPORT

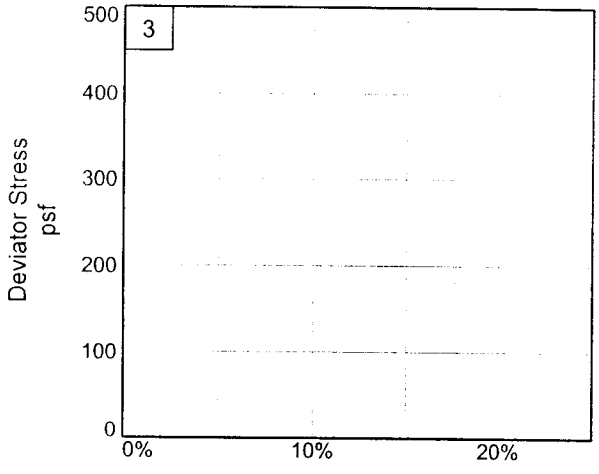
EUSTIS ENGINEERING COMPANY, INC.

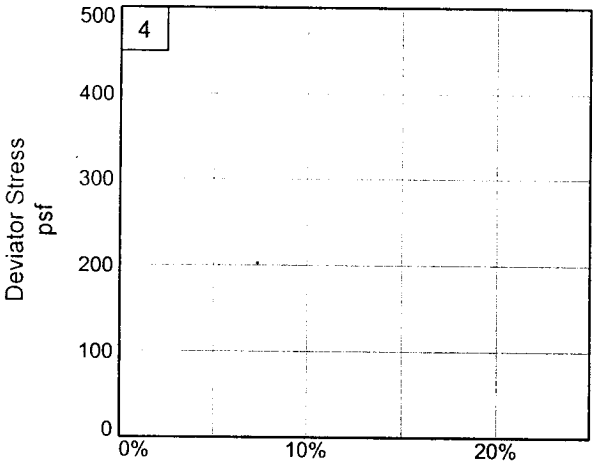
Figure 1

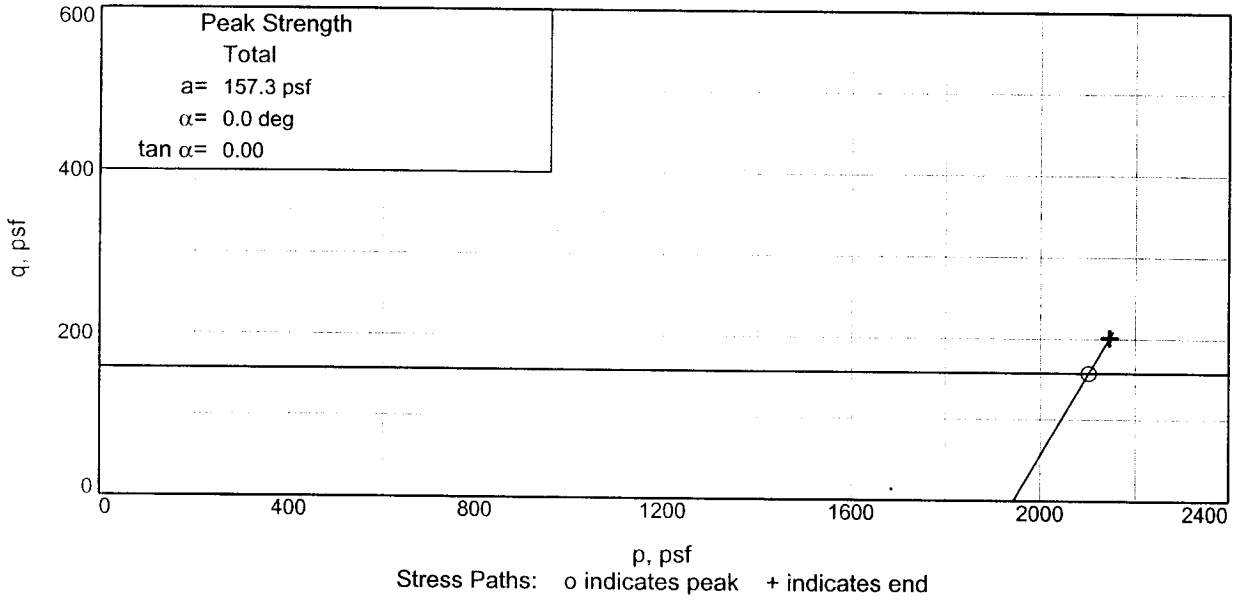
Tested By: RR **Checked By:** DP









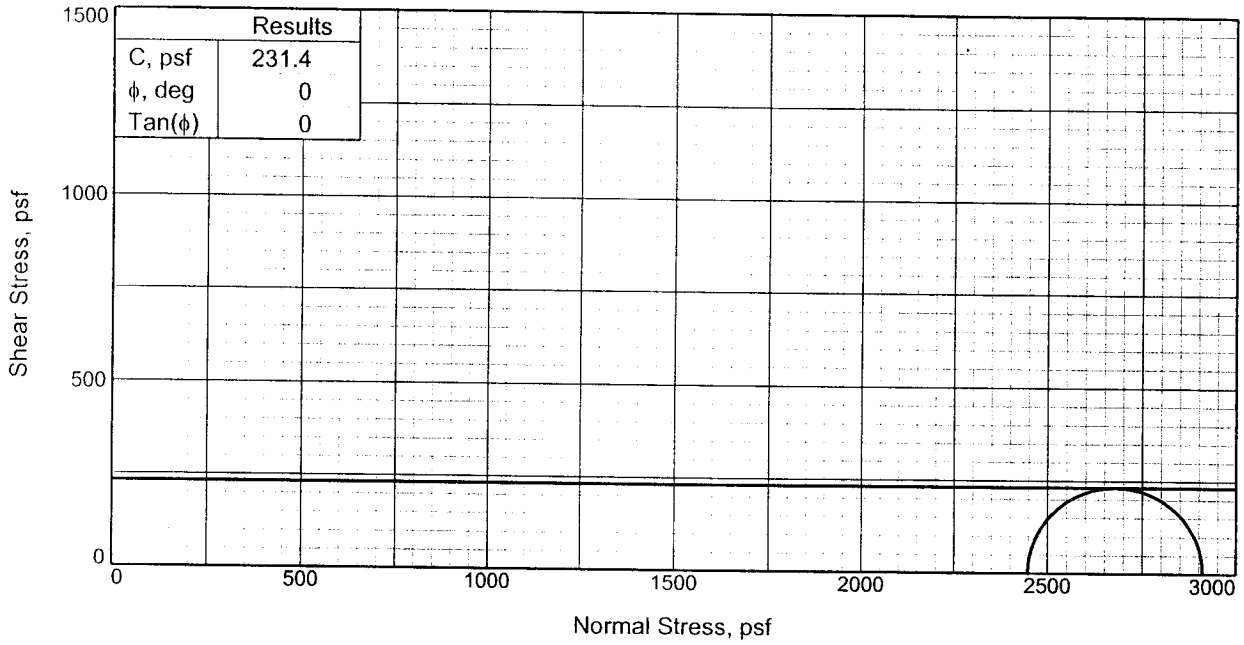


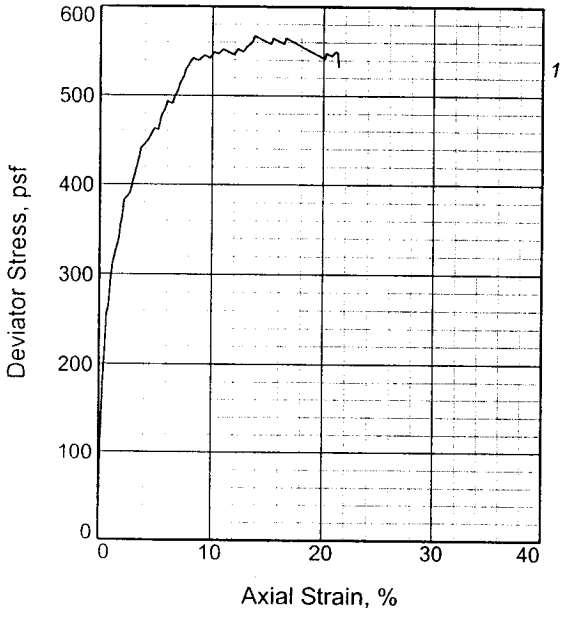
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 36.5 **Sample Number:** 10
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	61.8
	Dry Density, pcf	61.6
	Saturation,	95.7
	Void Ratio	1.7549
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	64.2
	Dry Density, pcf	61.8
	Saturation,	100.0
	Void Ratio	1.7461
	Diameter, in.	1.387
	Height, in.	2.927
Strain rate, in./min.		0.027
Back Pressure, psf		0.0
Cell Pressure, psf		2448.0
Fail. Stress, psf		462.7
Ult. Stress, psf		532.3
σ_1 Failure, psf		2910.7
σ_3 Failure, psf		2448.0

Type of Test: Unconsolidated Undrained
Sample Type: Undisturbed
Description: So Gr CH4 w/ lns & ars SM, SIF

LL= 73 **PL=** 21 **PI=** 52
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.120 tsf

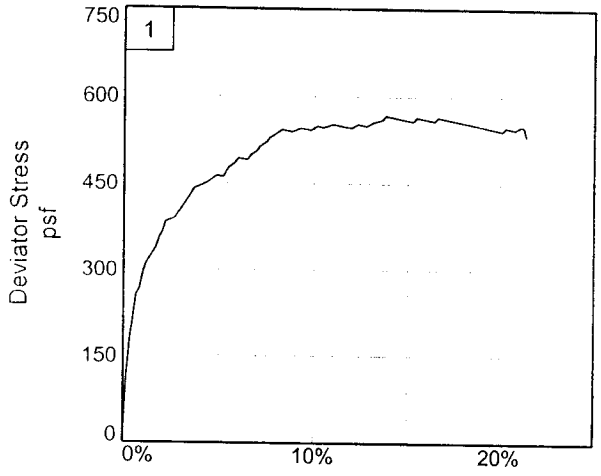
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 46.5
Sample Number: 15
Proj. No.: 19080 **Date:** 11/11/05

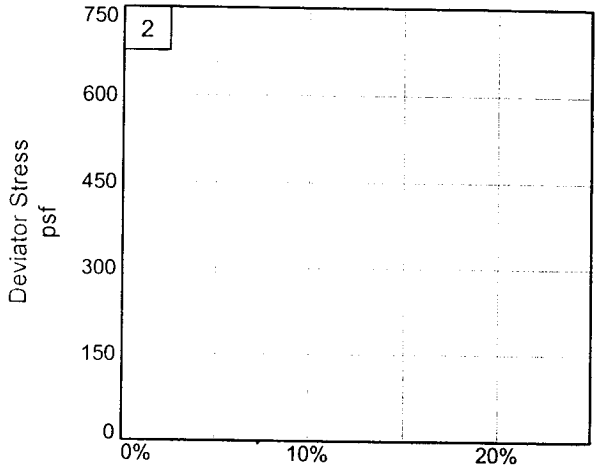
TRIAXIAL SHEAR TEST REPORT

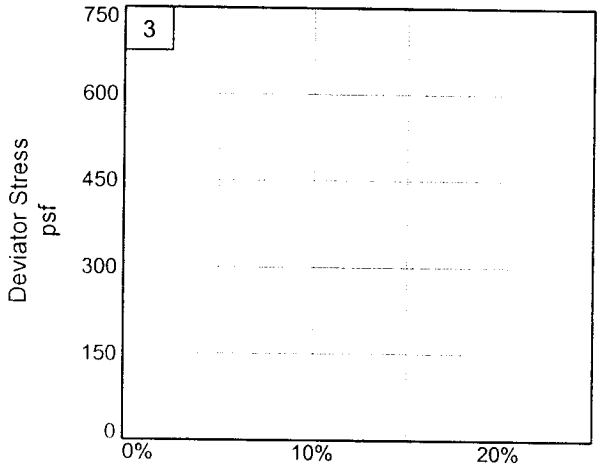
EUSTIS ENGINEERING COMPANY, INC.

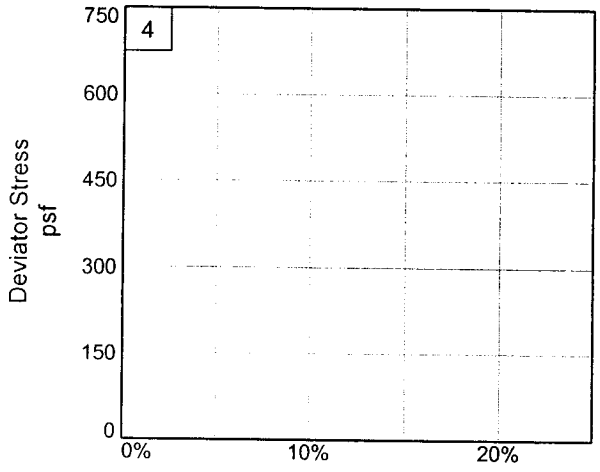
Figure 1

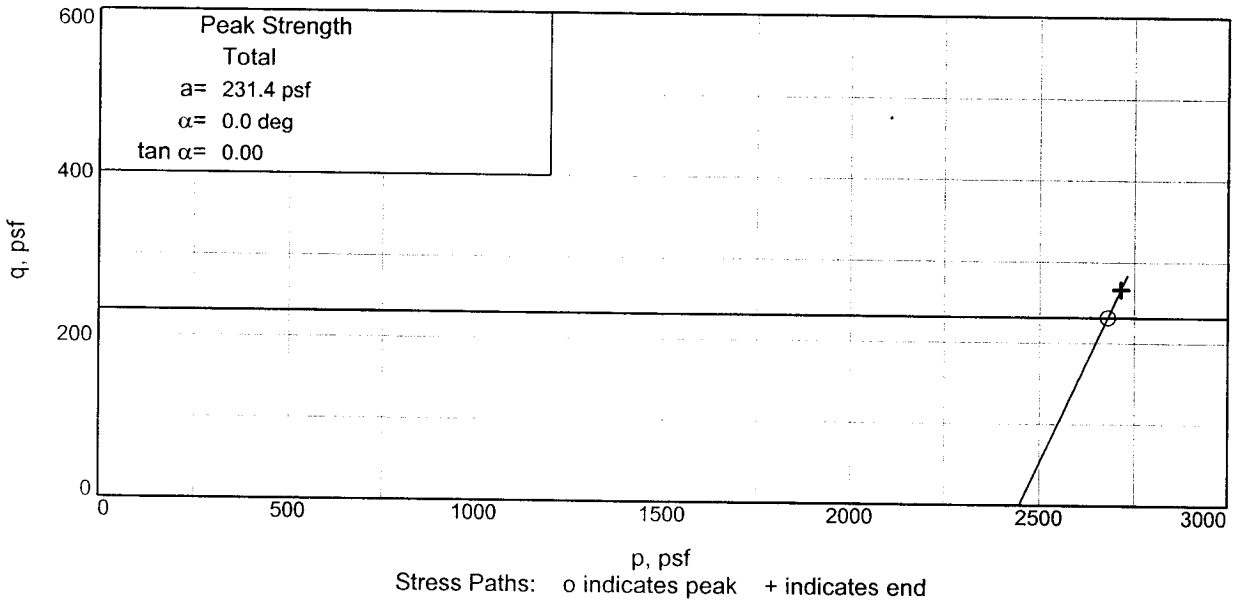
Tested By: RR **Checked By:** DP











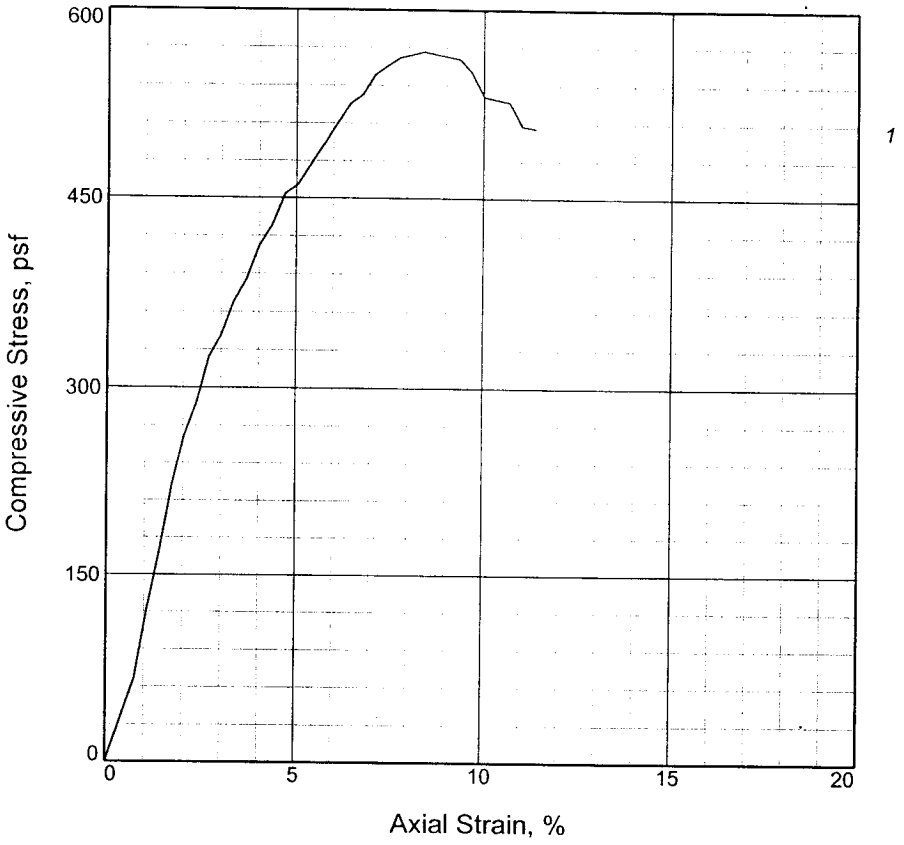
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 46.5 **Sample Number:** 15
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	566.5			
Undrained shear strength, psf	283.2			
Failure strain, %	8.4			
Strain rate, in./min.	0.000			
Water content, %	56.3			
Wet density, pcf	100.7			
Dry density, pcf	64.4			
Saturation, %	93.2			
Void ratio	1.6554			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: So Gr CH4 w/ SIF

LL =	PL =	PI =	**Assumed GS=** 2.74	**Type:** Undisturbed

Project No.: 19080
Date: 11/11/05
Remarks:
Torvane = 0.230 tsf

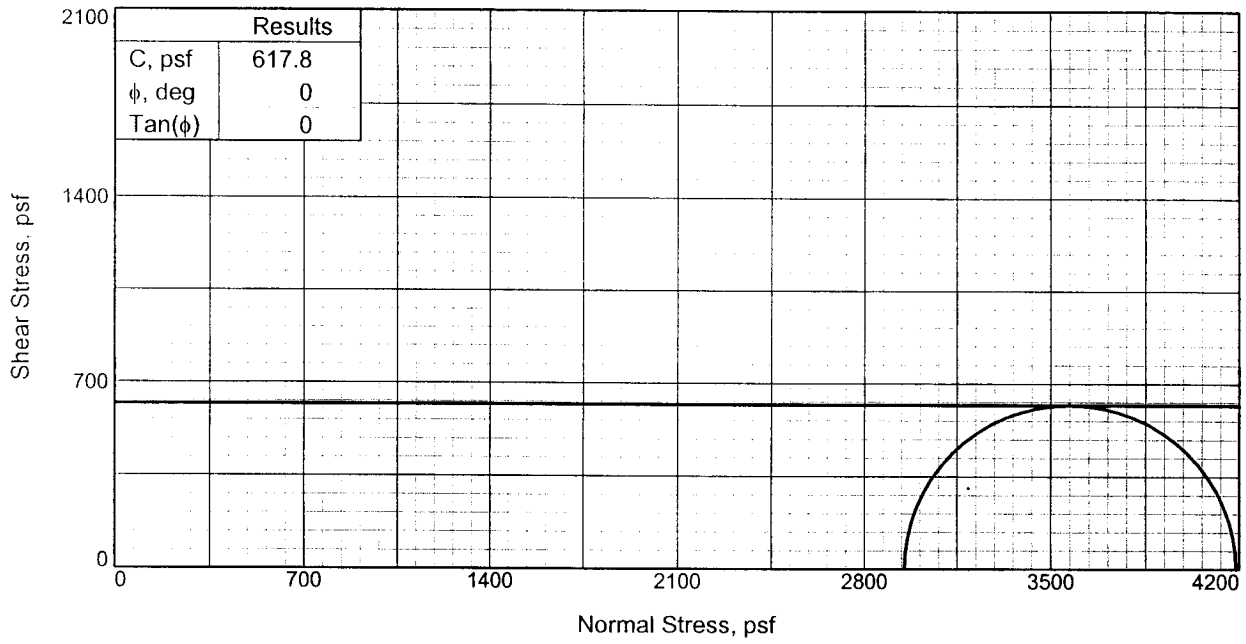
Figure 1

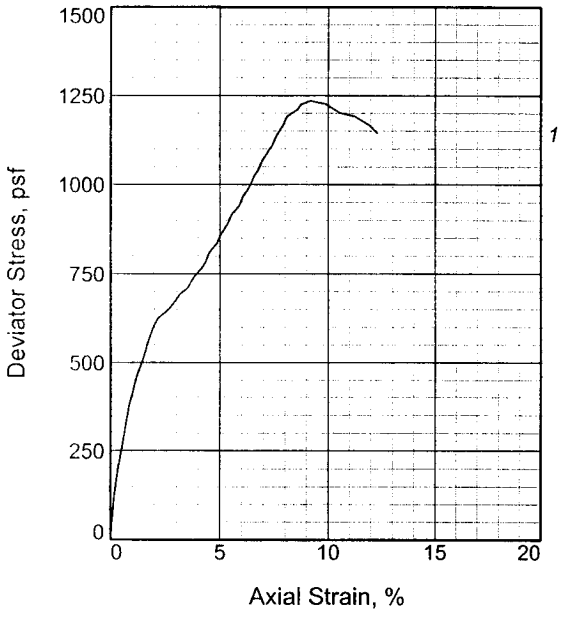
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 51.5
Sample Number: 17

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	57.0
	Dry Density, pcf	65.0
	Saturation,	96.1
	Void Ratio	1.6138
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	59.3
	Dry Density, pcf	65.0
	Saturation,	100.0
	Void Ratio	1.6138
	Diameter, in.	1.388
	Height, in.	2.930
Strain rate, in./min.		0.030
Back Pressure, psf		0.0
Cell Pressure, psf		2952.0
Fail. Stress, psf		1235.5
Ult. Stress, psf		1143.3
σ_1 Failure, psf		4187.5
σ_3 Failure, psf		2952.0

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

LL= 77 **PL=** 21 **PI=** 56
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.220 tsf

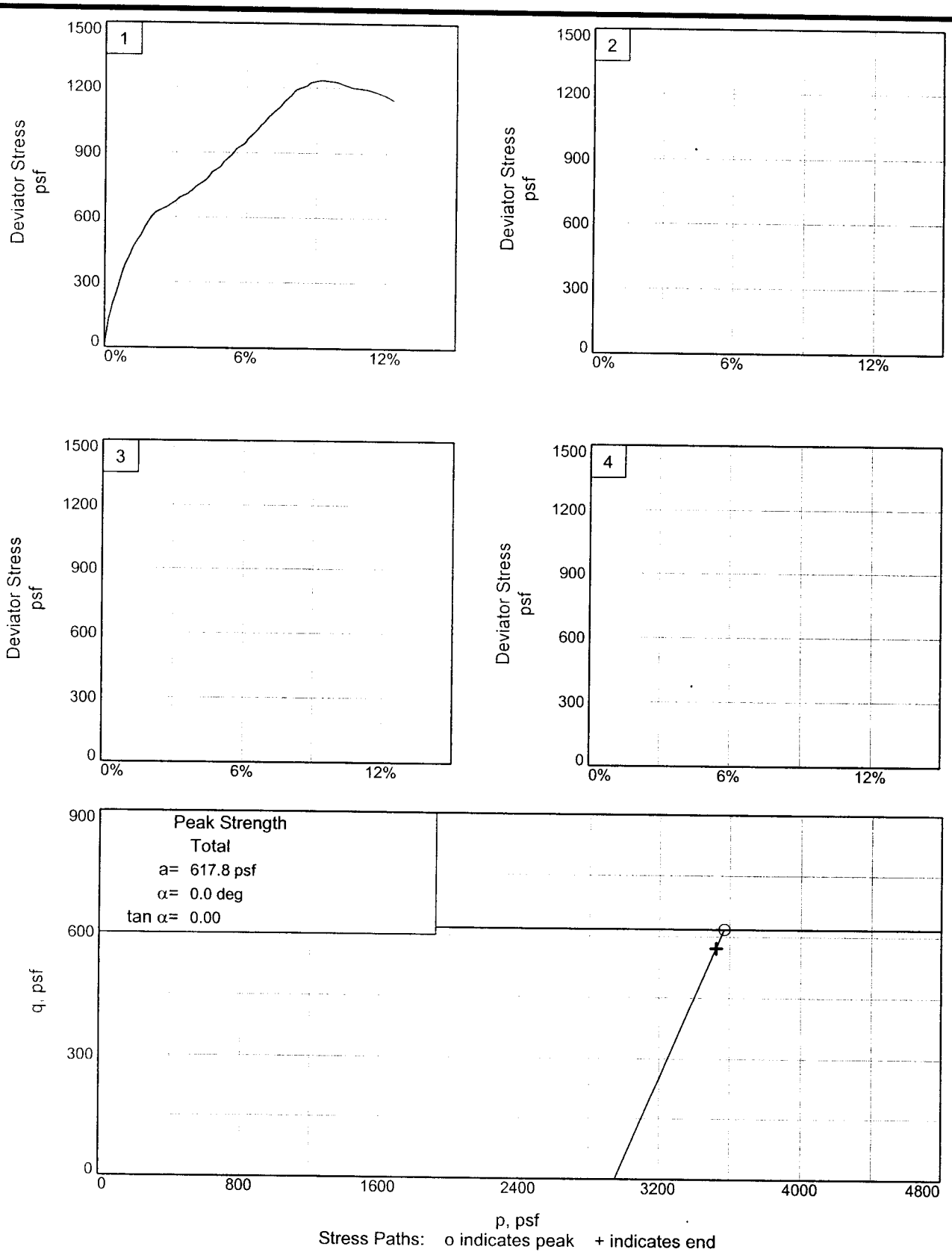
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 56.5
Sample Number: 19
Proj. No.: 19080 **Date:** 11/11/05

TRIAXIAL SHEAR TEST REPORT

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP



Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA

Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL

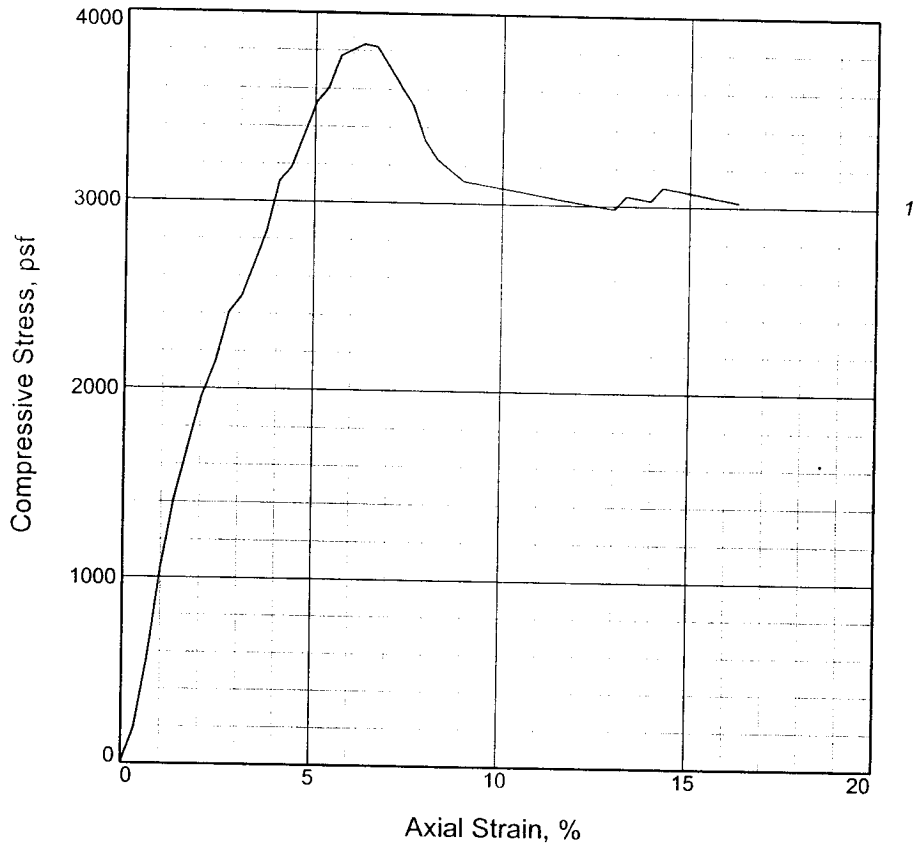
Source of Sample: B-10 **Depth:** 56.5 **Sample Number:** 19

Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	3833.4			
Undrained shear strength, psf	1916.7			
Failure strain, %	6.3			
Strain rate, in./min.	0.059			
Water content, %	95.4			
Wet density, pcf	91.7			
Dry density, pcf	47.0			
Saturation, %	99.2			
Void ratio	2.6166			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: St dGr CH4 w/ ars SM, Tr-wd

LL =	PL =	PI =	**Assumed GS=** 2.72	**Type:** Undisturbed

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

Remarks:
Torvane = 0.450 tsf

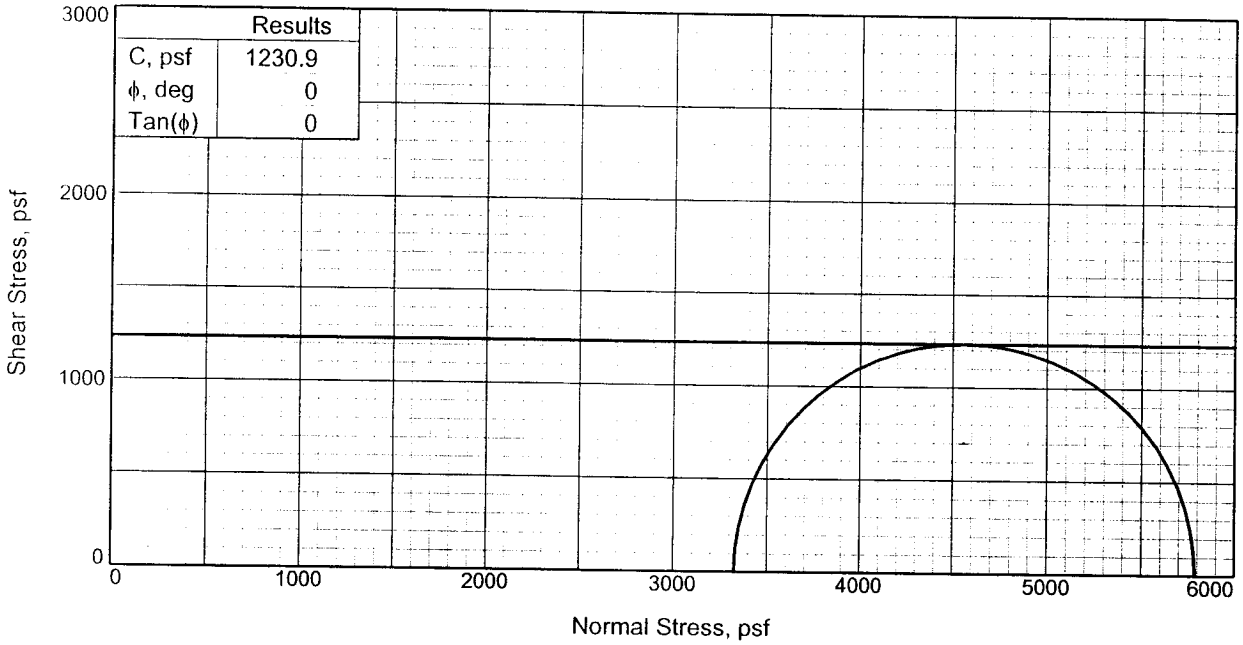
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 61.5
Sample Number: 21

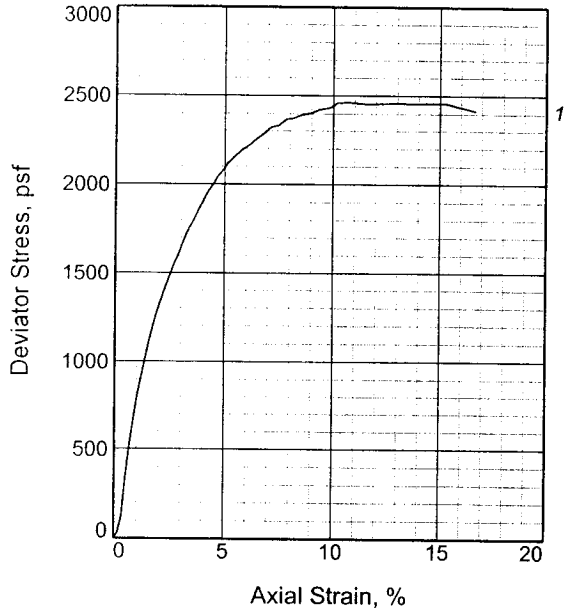
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	25.9
	Dry Density, pcf	95.8
	Saturation,	91.2
	Void Ratio	0.7725
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	28.2
	Dry Density, pcf	96.1
	Saturation,	100.0
	Void Ratio	0.7667
	Diameter, in.	1.386
	Height, in.	2.927
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		3326.4
Fail. Stress, psf		2461.8
Ult. Stress, psf		2415.6
σ_1 Failure, psf		5788.2
σ_3 Failure, psf		3326.4

Type of Test: Unconsolidated Undrained
Sample Type: Undisturbed
Description: M lGr CH2

LL= 48 **PL=** 14 **PI=** 34
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.375

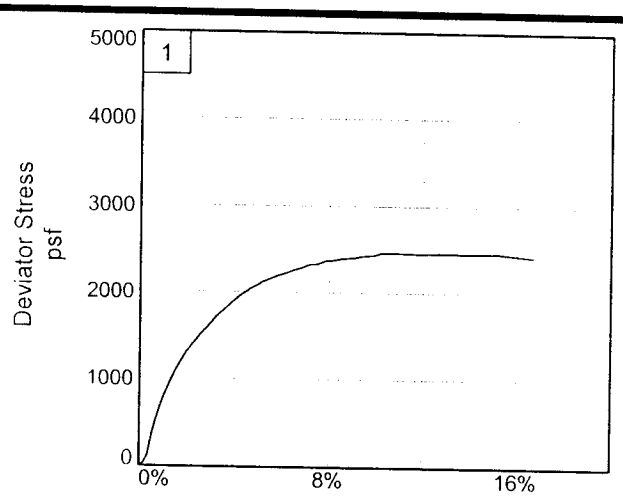
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 64.0
Sample Number: 22
Proj. No.: 19080 **Date:** 11/11/05

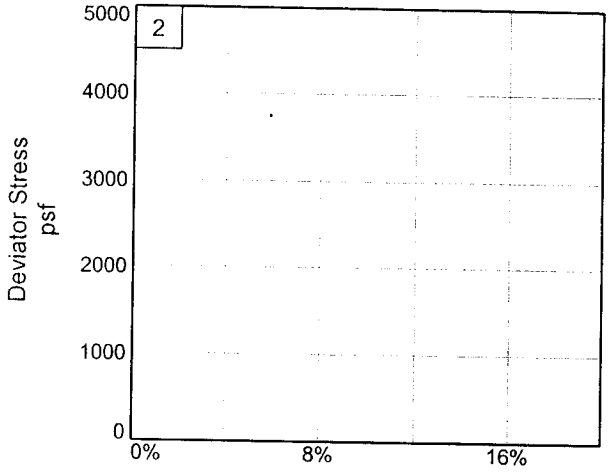
TRIAXIAL SHEAR TEST REPORT

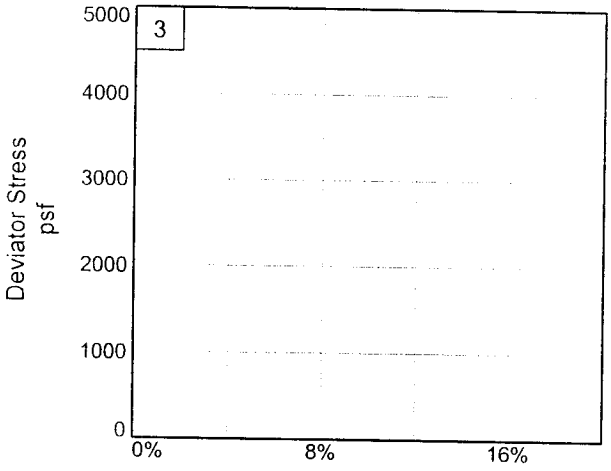
EUSTIS ENGINEERING COMPANY, INC.

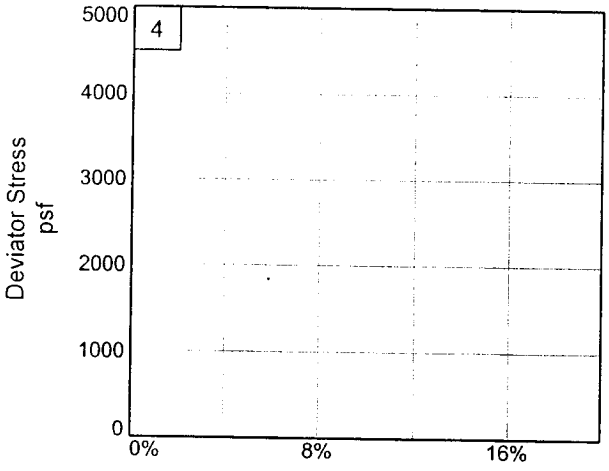
Figure 1

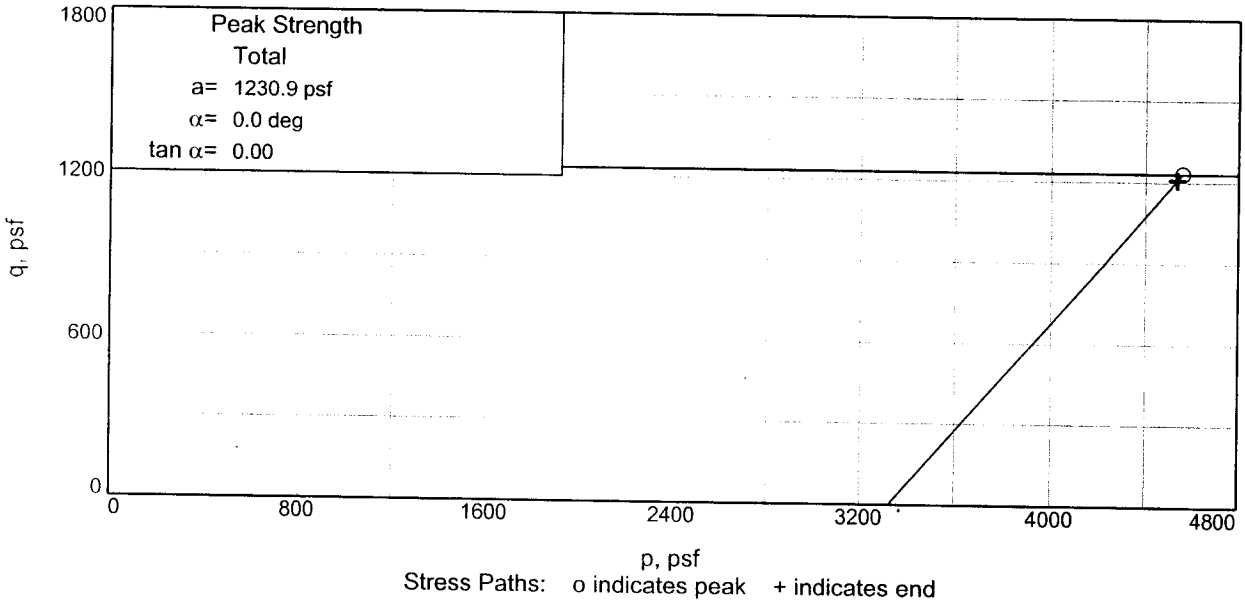
Tested By: RR **Checked By:** DP











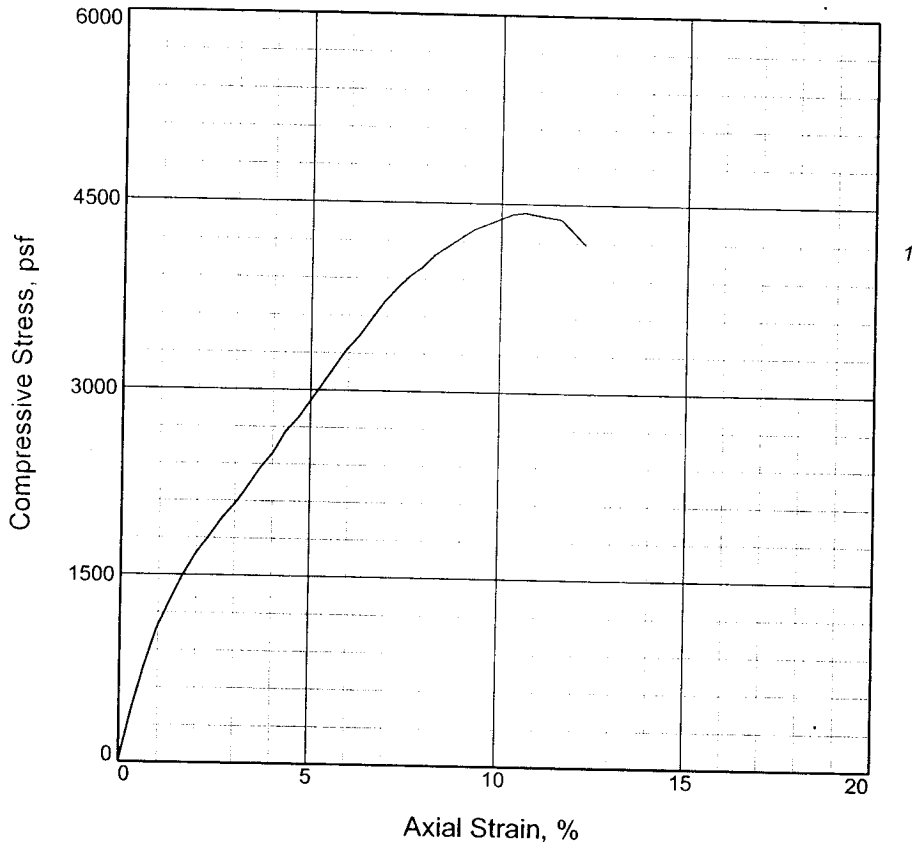
Stress Paths: o indicates peak + indicates end

Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 64.0 **Sample Number:** 22
Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	4430.5			
Undrained shear strength, psf	2215.3			
Failure strain, %	10.6			
Strain rate, in./min.	0.058			
Water content, %	18.2			
Wet density, pcf	128.8			
Dry density, pcf	109.0			
Saturation, %	88.6			
Void ratio	0.5585			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: vSt lGr & T CH2

LL =	PL =	PI =	Assumed GS= 2.72	Type: Undisturbed

Project No.: 19080
Date: 11-11-05

Remarks:
Torvane = 1.075 tsf

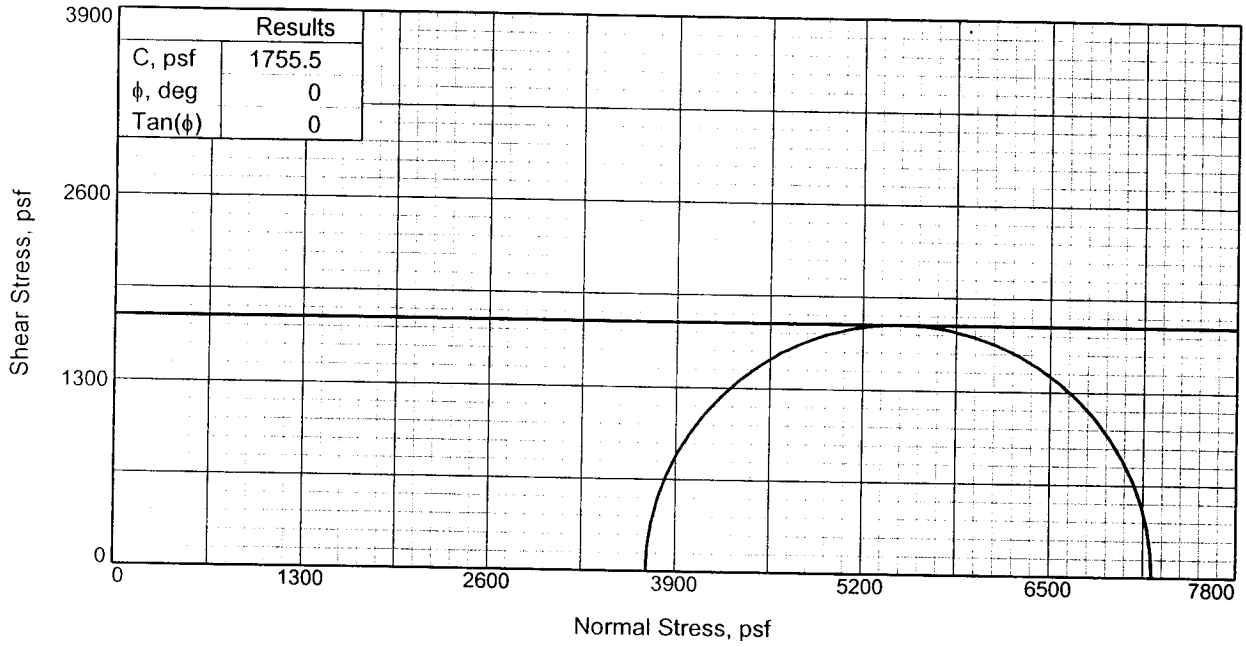
Figure _____

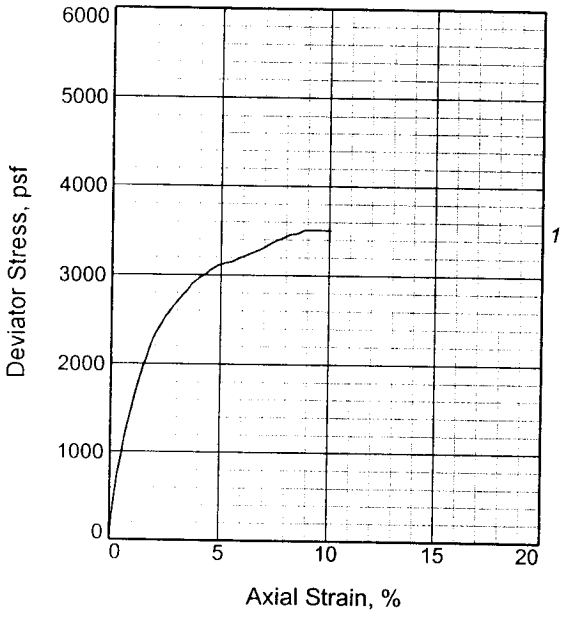
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 66.5
Sample Number: 23

UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** RNE





Specimen No.		1
Initial	Water Content,	25.5
	Dry Density, pcf	95.7
	Saturation,	89.4
	Void Ratio	0.7749
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	28.4
	Dry Density, pcf	95.8
	Saturation,	100.0
	Void Ratio	0.7727
	Diameter, in.	1.387
	Height, in.	2.929
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		3700.8
Fail. Stress, psf		3510.9
Ult. Stress, psf		3502.8
σ_1 Failure, psf		7211.7
σ_3 Failure, psf		3700.8

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: St lGr CH4 w/ lns ML, SL

Assumed Specific Gravity= 2.72
Remarks: Torvane = 1.125

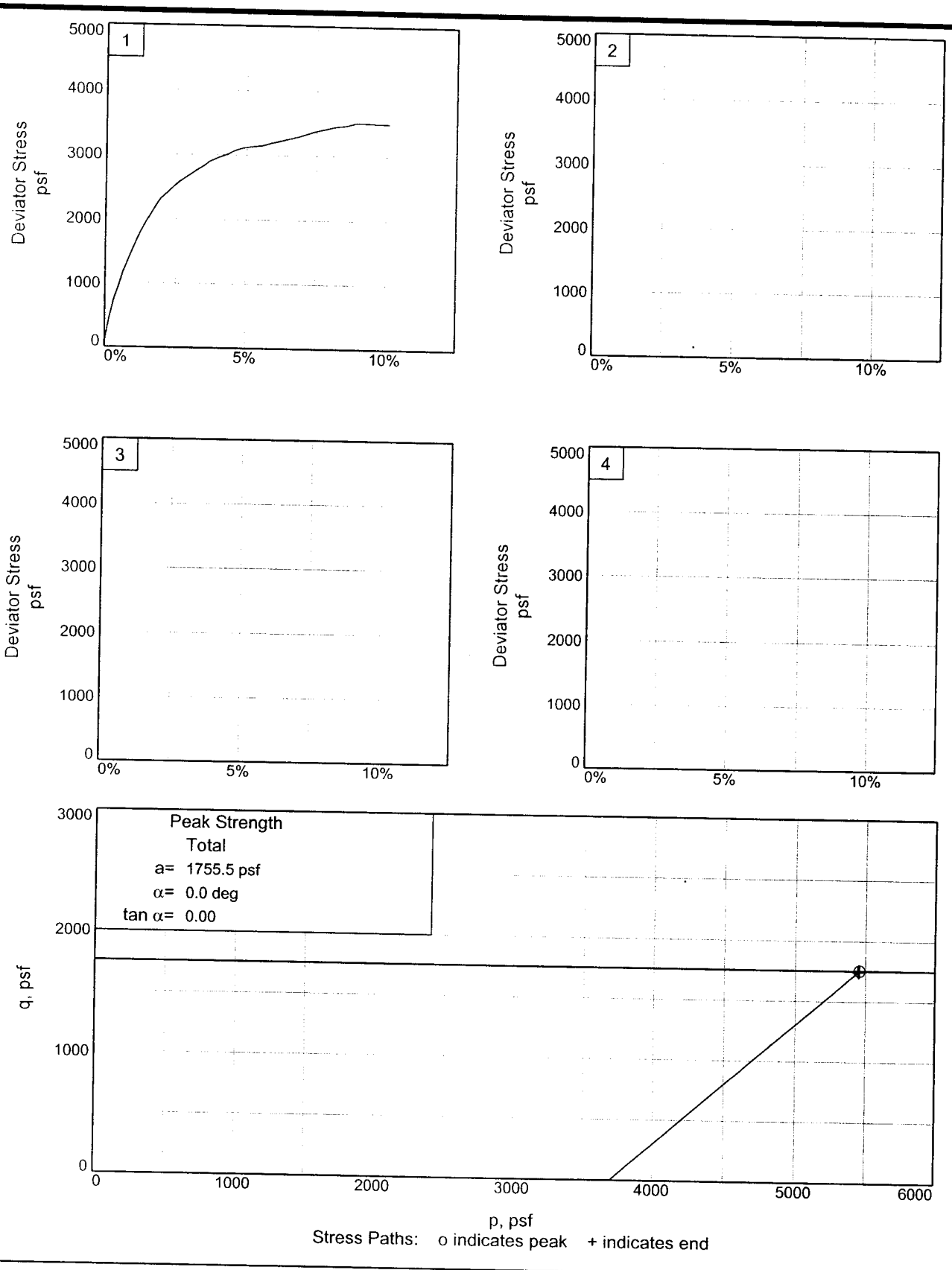
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 71.5
Sample Number: 25
Proj. No.: 19080 **Date:** 11/11/05

TRIAXIAL SHEAR TEST REPORT

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP



Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA

Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL

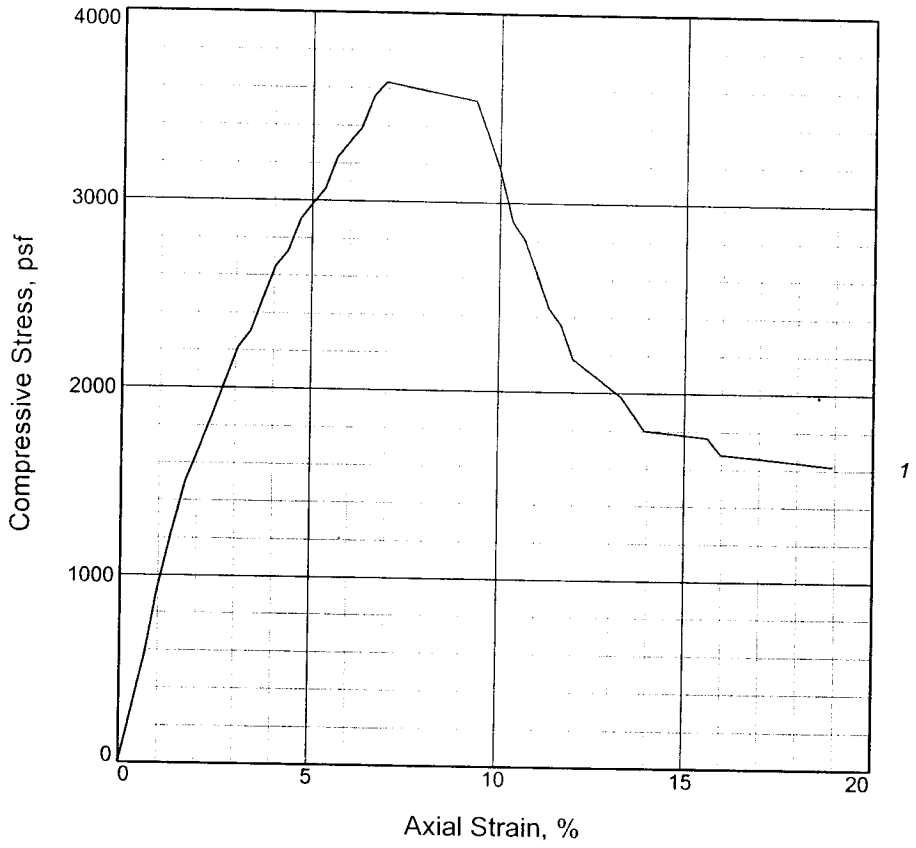
Source of Sample: B-10 **Depth:** 71.5 **Sample Number:** 25

Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	3630.6			
Undrained shear strength, psf	1815.3			
Failure strain, %	7.0			
Strain rate, in./min.	0.058			
Water content, %	31.0			
Wet density, pcf	115.1			
Dry density, pcf	87.9			
Saturation, %	90.3			
Void ratio	0.9322			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: St T & lGr CH3 w/ lns SM, cc

LL =	PL =	PI =	Assumed GS= 2.72	Type: Undisturbed

Project No.: 19080
Date: 11/09/05
Remarks:
Torvane = 0.750

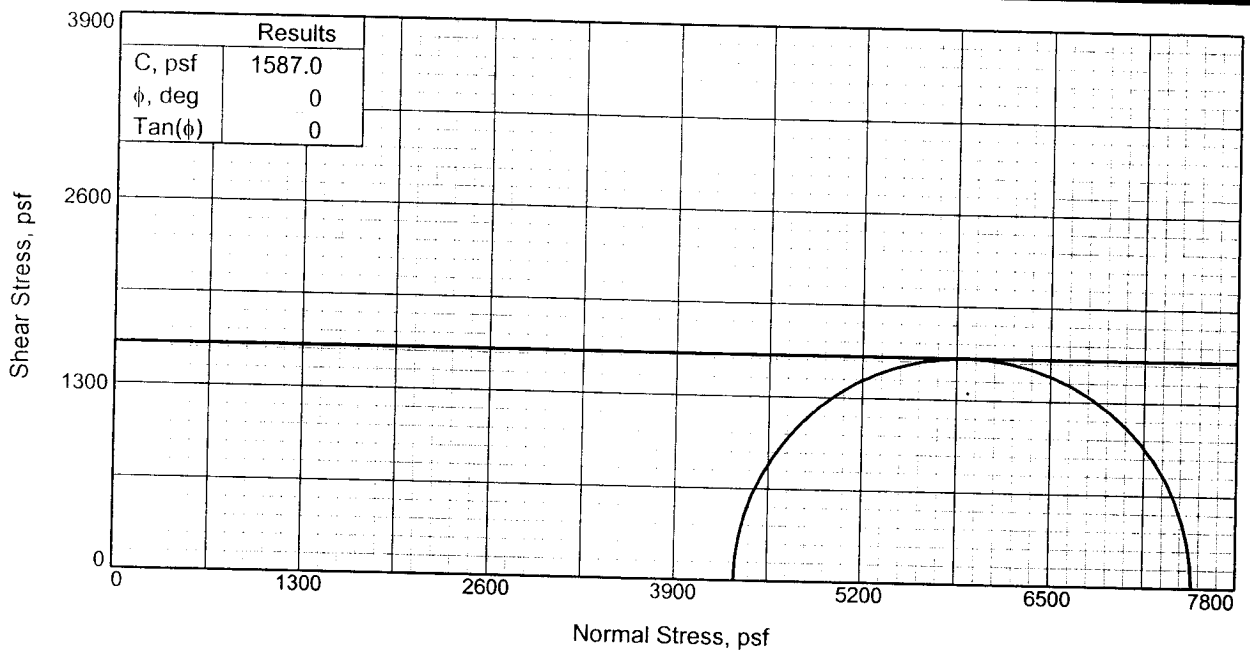
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 76.5
Sample Number: 27

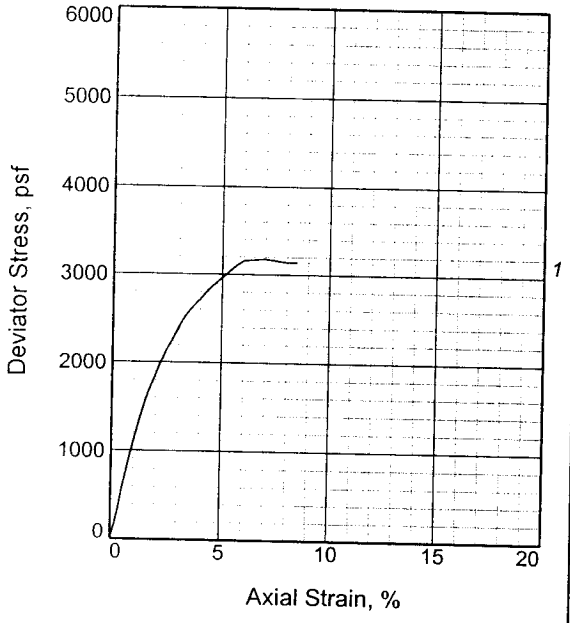
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: ZH **Checked By:** DP





Specimen No.		1
Initial	Water Content,	34.2
	Dry Density, pcf	85.1
	Saturation,	93.5
	Void Ratio	0.9946
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	36.4
	Dry Density, pcf	85.3
	Saturation,	100.0
	Void Ratio	0.9907
	Diameter, in.	1.387
	Height, in.	2.928
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		4320.0
Fail. Stress, psf		3174.0
Ult. Stress, psf		3131.6
σ_1 Failure, psf		7494.0
σ_3 Failure, psf		4320.0

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: St T & Gr CH3 w/ lns ML, CC

LL= 61 **PL=** 19 **PI=** 42
Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.800

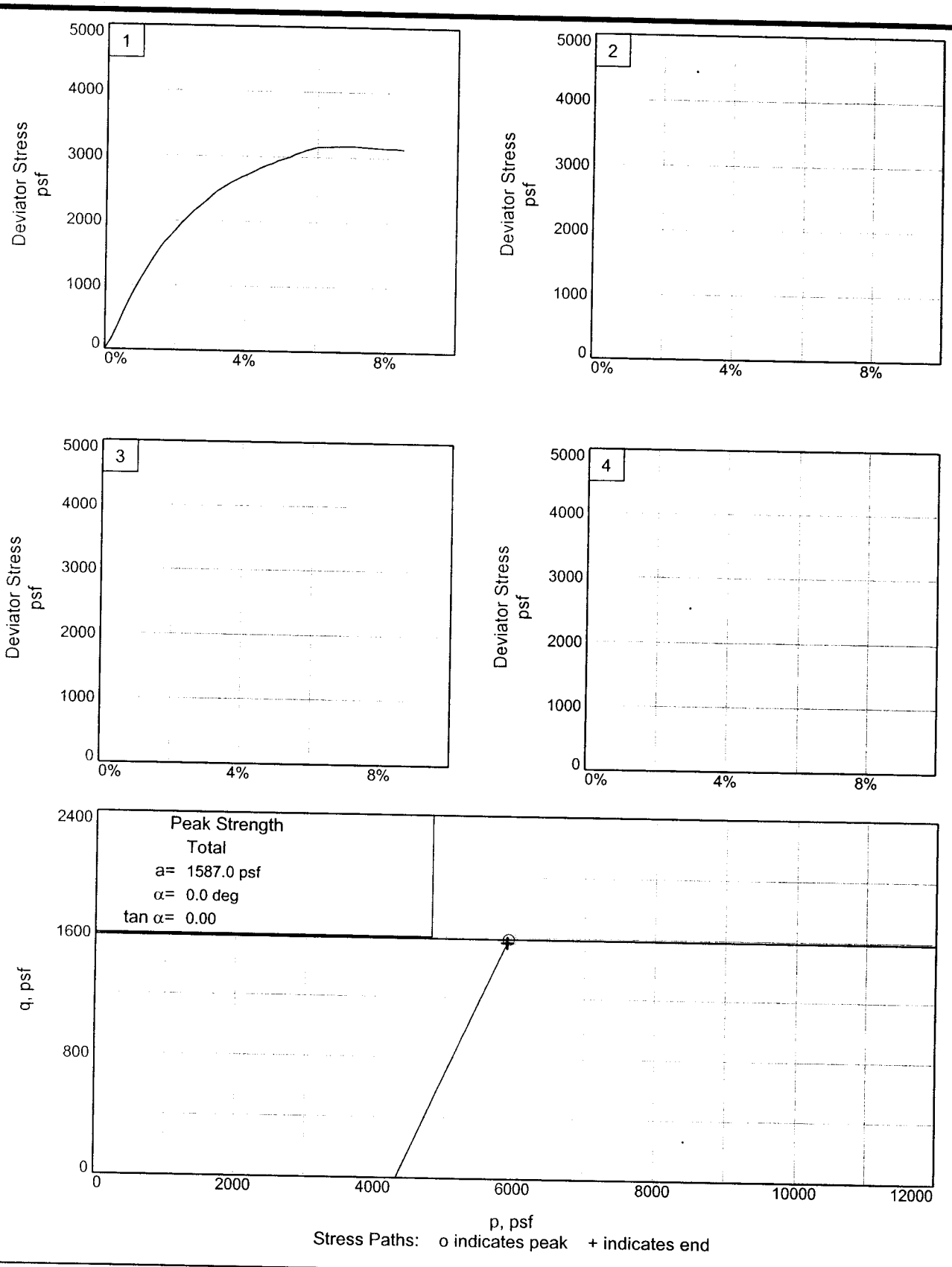
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 84.0
Sample Number: 30
Proj. No.: 19080 **Date:** 11/11/05

TRIAXIAL SHEAR TEST REPORT

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP



Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA

Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL

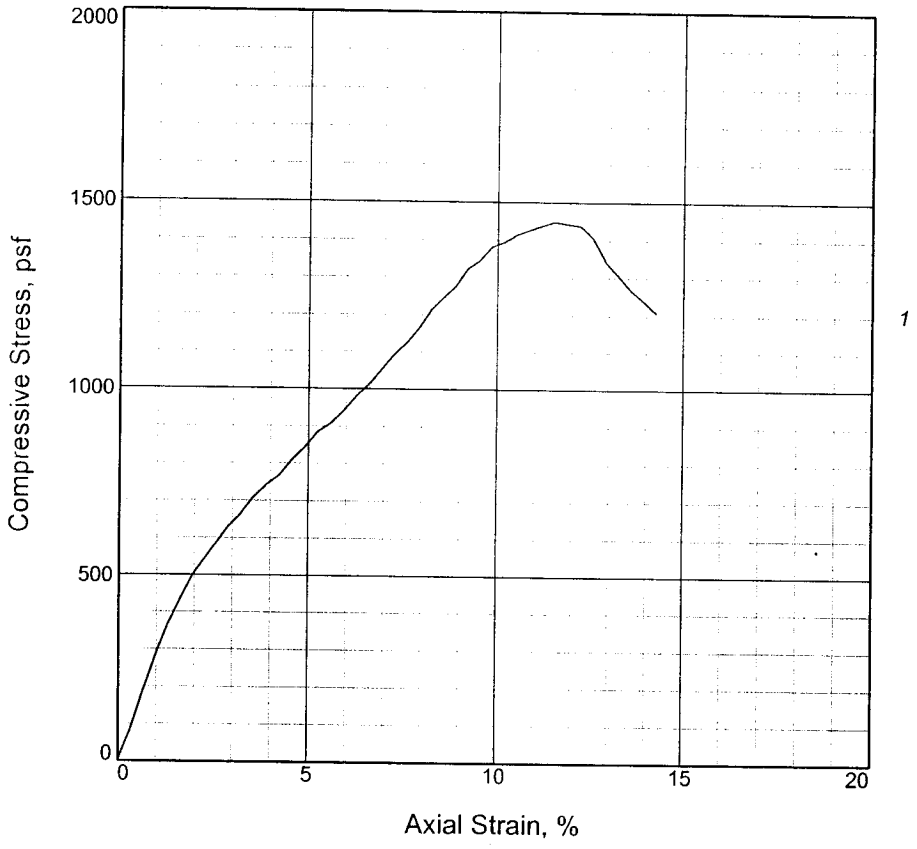
Source of Sample: B-10 **Depth:** 84.0 **Sample Number:** 30

Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP

UNCONFINED COMPRESSION TEST



Specimen No.	1			
Unconfined strength, psf	1448.2			
Undrained shear strength, psf	724.1			
Failure strain, %	11.5			
Strain rate, in./min.	0.058			
Water content, %	42.7			
Wet density, pcf	109.7			
Dry density, pcf	76.9			
Saturation, %	96.1			
Void ratio	1.2092			
Specimen diameter, in.	1.388			
Specimen height, in.	2.930			
Height/diameter ratio	2.11			

Description: M Gr CH4 w/ lns ML

LL =	PL =	PI =	Assumed GS= 2.72	Type: Undisturbed

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

Remarks:
Torvane = 0.4200 tsf

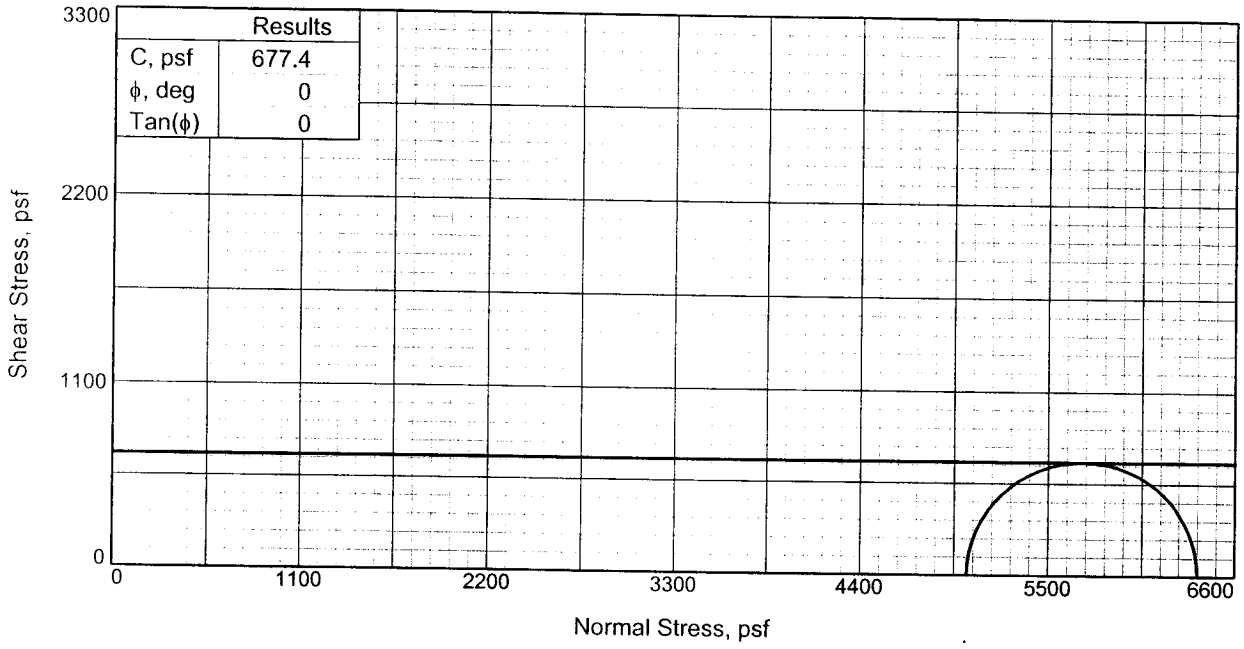
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 91.5
Sample Number: 33

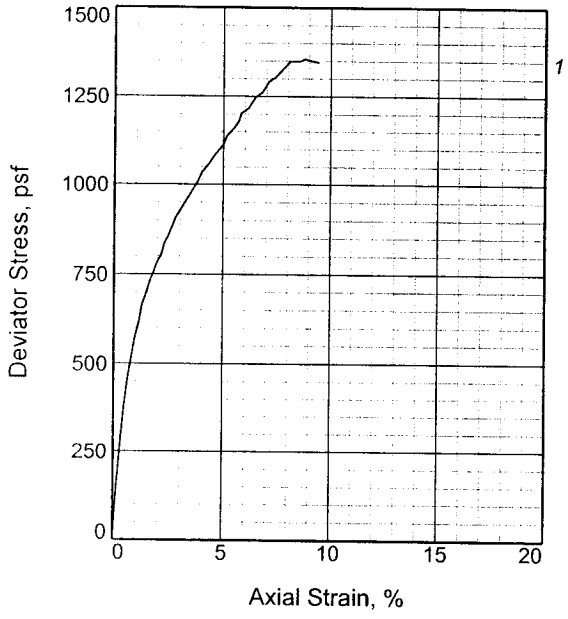
UNCONFINED COMPRESSION TEST

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP





Specimen No.		1
Initial	Water Content,	43.2
	Dry Density, pcf	75.1
	Saturation,	93.0
	Void Ratio	1.2624
	Diameter, in.	1.388
	Height, in.	2.930
At Test	Water Content,	46.4
	Dry Density, pcf	75.1
	Saturation,	100.0
	Void Ratio	1.2612
	Diameter, in.	1.388
	Height, in.	2.929
Strain rate, in./min.		0.029
Back Pressure, psf		0.0
Cell Pressure, psf		5025.6
Fail. Stress, psf		1354.9
Ult. Stress, psf		1344.8
σ_1 Failure, psf		6380.5
σ_3 Failure, psf		5025.6

Type of Test:
Unconsolidated Undrained
Sample Type: Undisturbed
Description: M Gr CH4 w/ lns & ars ML

Assumed Specific Gravity= 2.72
Remarks: Torvane = 0.875 tsf

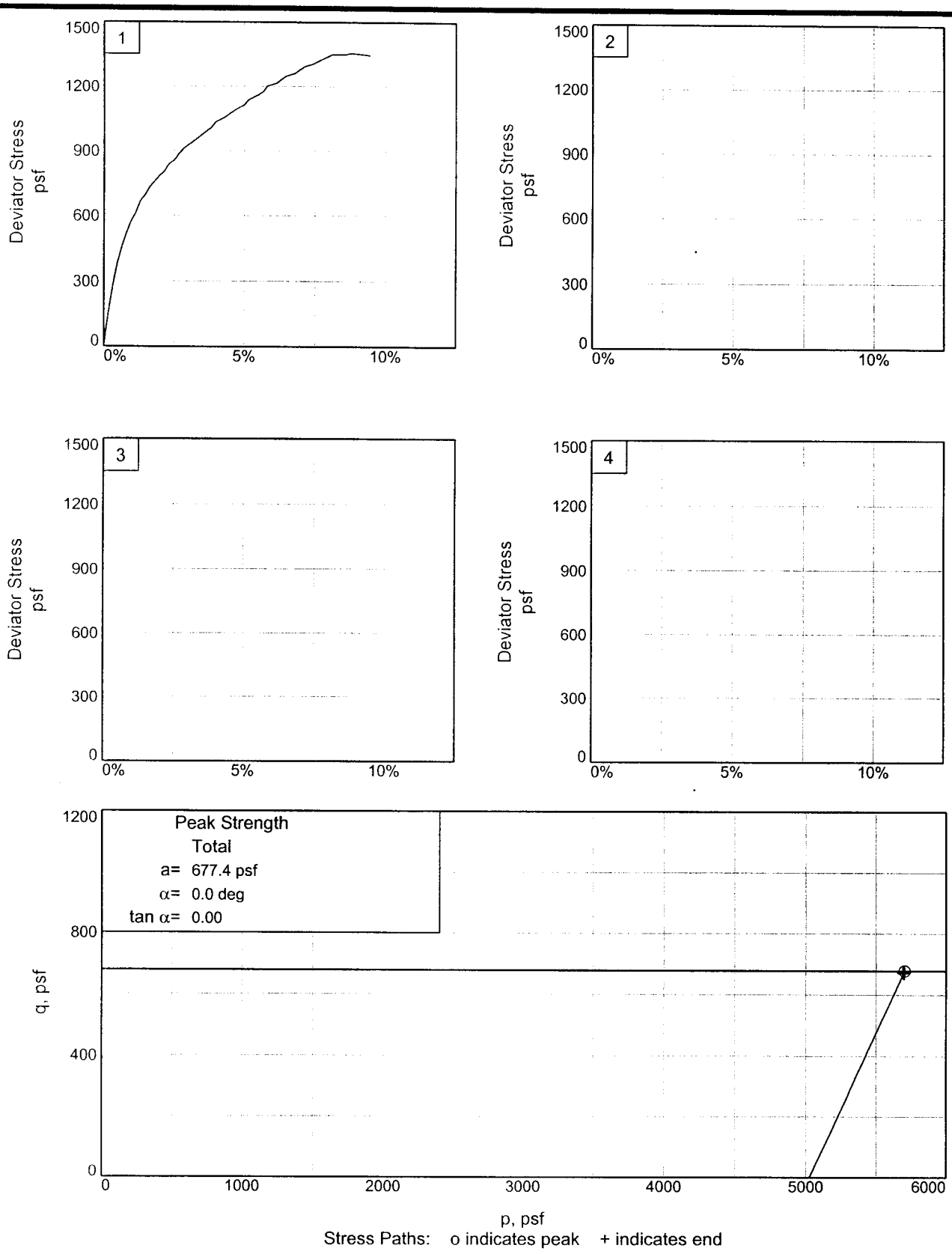
Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA
Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL
Source of Sample: B-10 **Depth:** 99.0
Sample Number: 36
Proj. No.: 19080 **Date:** 11/11/05

TRIAXIAL SHEAR TEST REPORT

EUSTIS ENGINEERING COMPANY, INC.

Figure 1

Tested By: RR **Checked By:** DP



Client: LINFIELD, HUNTER & JUNIUS, INC., METAIRIE, LOUISIANA

Project: USACE - REPAIRS TO LEVEES AND FLOODWALLS AT THE 17TH STREET CANAL

Source of Sample: B-10 **Depth:** 99.0 **Sample Number:** 36

Project No.: 19080 **Figure** 2

EUSTIS ENGINEERING COMPANY, INC.

Tested By: RR **Checked By:** DP