ALABAMA DEPARTMENT OF TRANSPORTATION

1409 Coliseum Boulevard, Montgomery, Alabama 36110

Bureau of Materials and Tests

3700 Fairground Road, Montgomery, Alabama 36110
Phone (334)206-2200 FAX (334)264-6263

Kay Ivey
Governor

John R. Cooper
Transportation Director

February 6, 2018

Memo

To: **Mr. Matt Ericksen, P.E.**
MRB & Bayway Project Director

From: Ms. Kaye Chancellor Davis, P.E.
State Geotechnical Engineer

Re: **Bayway Subsurface Data Report**
Project No.: **DPI-0030 (005)**
I-10 Mobile River Bridge
Mobile County

The Materials & Tests Bureau, Geotechnical Division, has reviewed the Bayway Subsurface Data Report. This office agrees with the information held within this report. Please contact this office if there any question or concerns.

AKCD/rld

Attachments

C: Project File
File

REPORT OF GEOTECHNICAL CONSULTING SERVICES

GEOTECHNICAL SUBSURFACE DATA REPORT

I-10 Mobile River Bridge – Bayway

Mobile County, Alabama

ALDOT PE Project No.: DPI-0030(005)

Thompson Engineering Project No.: 17-1101-0145

February 15, 2018

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February 15, 2018

Mr. Scott W. George, P.E.
Materials and Test Engineer
Alabama Department of Transportation
Bureau of Materials and Test
3700 Fairgrounds Road
Montgomery, Alabama 36130

Attention: **Kaye Chancellor Davis, P.E.**
ALDOT Geotechnical Engineer

Subject: **Report of Geotechnical Consulting Services**
Subsurface Data Report
I-10 Mobile River Bridge – Bayway
ALDOT PE Project No.: DPI-0030(005)
Mobile, Mobile County, Alabama
Thompson Project No. 17-1101-0145

Dear Ms. Davis:

Thompson Engineering is pleased to transmit this geotechnical subsurface data report for the project referenced above. This submittal summarizes the field exploration and laboratory testing results for the referenced design build finance operate and maintain project. Our services were performed in accordance with the Thompson Fee Proposals dated September 9, 2015 and May 19, 2016.

We appreciate the opportunity to assist the Alabama Department of Transportation with project-related geotechnical matters. Please do not hesitate to contact our office with any questions concerning this submittal.

Respectfully submitted,

THOMPSON ENGINEERING, INC.

Michael Davis, Jr. E.I.
Geotechnical Engineering Associate II

Sam Sternberg III, P.E.
Senior Geotechnical Engineer

2970 Cottage Hill Road, Ste. 190
Mobile, AL 36606
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1.0 SCOPE OF SERVICES

Thompson Engineering (Thompson) has completed the field exploration and laboratory testing for the I-10 Bayway in support of the overall Mobile River Bridge (MRB) located in Mobile and Baldwin Counties, Alabama. This scope of work was performed in general accordance with the contracted scope of services between the Alabama Department of Transportation (ALDOT) and Thompson, dated September 9, 2015 and May 19, 2016. Our services were authorized in ALDOT Contract ID's #1688 and #2096.

2.0 PROJECT DESCRIPTION

The project is located along interstate I-10 in Mobile and Baldwin Counties of Alabama. The scope of services included borings for the Bayway in support of the design build or design build operate finance and maintain (DBFOM) delivery method. The overall intent was to provide subsurface information to the prospective teams in an effort to reduce the risk and unknowns associated with the subsurface conditions. **Figure 1** below depicts the project location and immediate surrounding areas.



***Figure 1**: Project location and immediate surrounding area.*

3.0 SUBSURFACE EXPLORATION PROGRAM

Thompson's geotechnical drilling crews performed soil test borings and sampling operations at the approximate locations shown on the appended Boring Location Plan in **Appendix A**. Borings were drilled to depths ranging from 118 to 250 feet below the existing ground surface.

Boring BW-101 was terminated and offset due to inclement weather. The offset boring location is identified as BW-101A. Borings locations that were deleted are identified in **Table 1** below.

Table 1: Deleted Borings	
BW-1	BW-72
BW-2	BW-73
BW-53	BW-74
BW-54	BW-75
BW-55	BW-76
BW-56	BW-77
BW-57	BW-81
BW-65	BW-82
BW-66	BW-83
BW-68	BW-84
BW-69	BW-85
BW-70	BW-124
BW-71	BW-125

Note: All deleted borings listed above were inaccessible due to shallow water depths.

Borings were surveyed by using a Garmin Marine GPS unit installed in the cabin of the drilling support vessel. The antenna was placed at the back of the drill rig, directly above where the boring would be drilled and then positioning the drill rig near the proposed boring coordinates. The GPS unit measured decimal degrees to five (5) decimal places making the degree of accuracy up to 1.1 meter, or 3.6 feet. The crew would attempt to stay within a maximum distance of 20 to 30 feet of the proposed boring location. The final GPS coordinates were recorded once the barge was spudded and anchored down to begin setup.

The seafloor elevation was obtained using two (2) methods. First, an electronic sonar depth finder on Thompson's drilling support vessel gave an estimate of the seafloor elevation. Second, elevations were taken prior to the boring, throughout the duration, and after the termination of a boring using a weighted open wheel tape with the date and time noted for each measurement. Each elevation obtained was measured to a tenth of a foot for all data. Taking the elevations throughout the day helped to accumulate data for the adjustment to the depth of boring sampling with consideration the tide changes. The data is then correlated with NOAA Station 8736897, Coast Guard Section MLLW datum time and tide gauges based on NAVD88 elevations. Once all elevations had been correlated for a single boring, the mean value of the elevations for that particular boring were calculated and established as the seafloor elevation.

CME 550X All-Terrain Vehicle (ATV) drilling rigs, equipped with automatic penetration test hammers, were utilized to advance the borings using mud rotary techniques. A CME-45C trailer-mounted drill rig equipped with automatic and manual hammers was also use to perform borings during field exploration.The hammer energy report for the automatic and manual SPT hammers on the rigs are attached in **Appendix D** of this report. Drilling and field operations took place between November 4, 2015 and November 12, 2017.

Brief descriptions of the testing protocols are presented below.

3.1 Standard Penetration Test (SPT) Borings

The SPT borings were performed in general accordance with AASHTO T-206 guidelines. Recovered samples were examined and visually classified in the field or in the geotechnical laboratory by a Geologist or Engineer. Samples were returned to Thompson's geotechnical laboratory for additional testing. The results of the classification and stratification are shown on the appended Record of Test

Borings. Weight of Rod (WOR) and Weight of Hammer (WOH) "N" blow counts were noted as a zero (0) on the attached boring logs.

3.2 Undisturbed Soil Sampling

Undisturbed soil specimens were recovered utilizing thin-wall "Shelby" tube sampling equipment at select depths within soft to firm cohesive soil zones. Undisturbed samples were collected in general accordance with the AASHTO T-207 guidelines. The recovered soil samples were sealed and transported to Thompson's geotechnical laboratory.

4.0 LABORATORY TESTING

Samples selected for laboratory testing were assigned by Thompson. **Table 2** provides a quantitative summary of the lab tests performed.

Table 2: Laboratory Testing Summary

Test Type	Quantity
Atterberg Limits	1,167
Full Sieve Analysis	907
Abbreviated (#200) Sieve Analysis	91
Hydrometer Analysis	171
Consolidation	39
Unconsolidated Undrained (U.U.) Triaxial Shear Tests	207
Consolidated Undrained (C.U.) Triaxial Shear Tests	6
Direct Shear Test	24
Motorized Vane Shear Test	113

A laboratory test summary table, BMT-5 sheets, and individual test results are included in **Appendix C**.

5.0 SUBSURFACE FINDINGS

While establishment of generalized subsurface conditions is useful for the geotechnical engineering evaluation process, such generalizations should be reviewed with caution as they promote extrapolation of recovered data between soil test boring locations. The stratifications shown on the Record of Test Borings represent the conditions only at the actual boring locations. The actual transition between soil types may be more gradual than those depicted.

5.1 Groundwater

All SPT borings were performed below sea level via a barge. Therefore, we have assumed groundwater at the surface (mudline). All groundwater measurements on the appended boring logs show depths of 0.0 ft.

6.0 REPORT LIMITATIONS

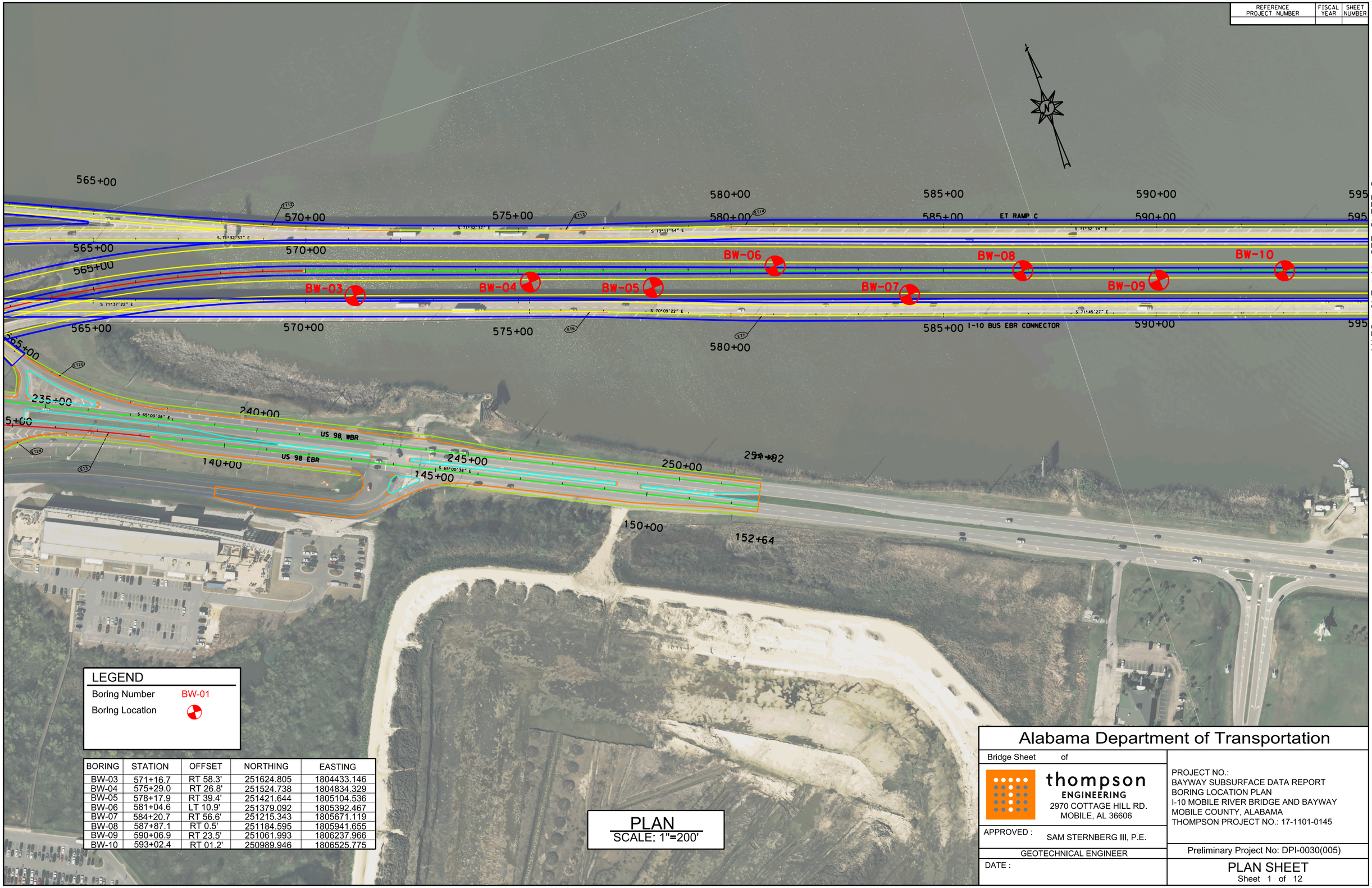
This Geotechnical Subsurface Data Report has been prepared for the exclusive use of ALDOT for the specific project discussed herein. This Geotechnical Subsurface Data Report has been prepared in accordance with generally accepted local geotechnical engineering practices; no other warranty is expressed or implied. The recovered samples were not examined, either visually or analytically, for chemical composition or environmental hazards.

The observations from field sample recovery, laboratory examination of samples and testing, and computed data analysis, which are presented in this data report, should be considered preliminary investigation and are subject to change upon the acquisition of additional data during the final investigation for the final design. Additional subsurface exploration including borings and laboratory testing for the purposes of evaluating cut slopes, embankment slopes, embankment settlements, retaining walls and bridge foundation types and capacities will be required for final design and applicable to the specific final design layout. The Geotechnical Engineer of Record for the project must review the data submitted in this report and develop their own interpretation of the testing results as they apply to design.

APPENDIX A

- **Boring Location Plan**

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



LEGEND

Boring Number	BW-01
Boring Location	

BORING	STATION	OFFSET	NORTHING	EASTING
BW-03	571+16.7	RT 58.3'	251624.805	1804433.146
BW-04	575+29.0	RT 26.8'	251524.738	1804834.329
BW-05	578+17.9	RT 39.4'	251421.644	1805104.536
BW-06	581+04.6	LT 10.9'	251379.092	1805392.467
BW-07	584+20.7	RT 56.6'	251215.343	1805671.119
BW-08	587+87.1	RT 0.5'	251184.595	1805941.655
BW-09	590+06.9	RT 23.5'	251061.993	1806237.966
BW-10	593+02.4	RT 01.2'	250989.946	1806525.775

PLAN
SCALE: 1"=200'

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2970 COTTAGE HILL RD.
MOBILE, AL 36606

APPROVED : SAM STERNBERG III, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NO.:
BAYWAY SUBSURFACE DATA REPORT
BORING LOCATION PLAN
I-10 MOBILE RIVER BRIDGE AND BAYWAY
MOBILE COUNTY, ALABAMA
THOMPSON PROJECT NO.: 17-1101-0145

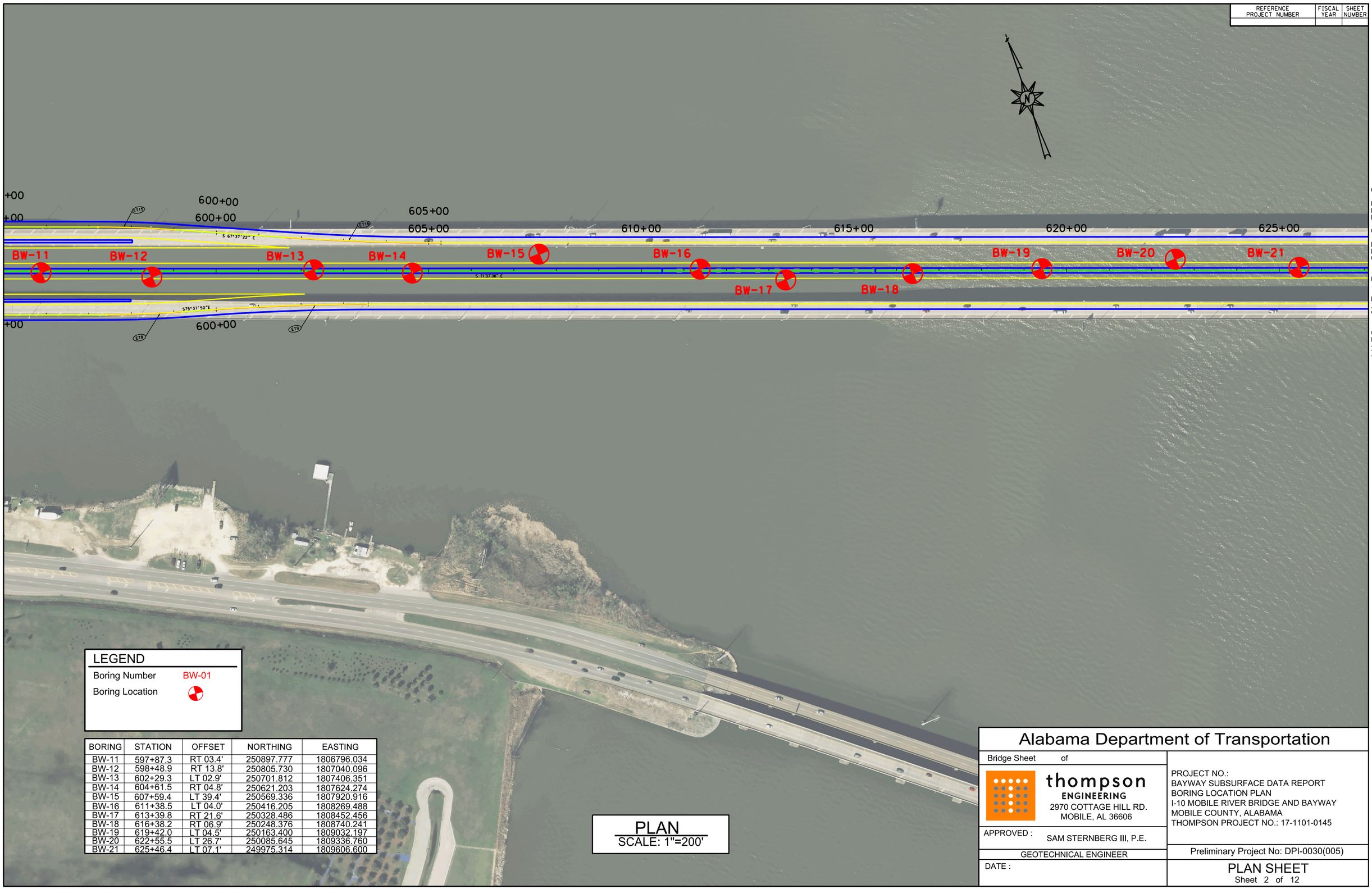
Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 1 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "A" SEE SHEET 1

MATCHLINE "B" SEE SHEET 3



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-11	597+87.3	RT 03.4'	250897.777	1806796.034
BW-12	598+48.9	RT 13.8'	250805.730	1807040.096
BW-13	602+29.3	LT 02.9'	250701.812	1807406.351
BW-14	604+61.5	RT 04.8'	250621.203	1807624.274
BW-15	607+59.4	LT 39.4'	250569.336	1807920.916
BW-16	611+38.5	LT 04.0'	250416.205	1808269.488
BW-17	613+39.8	RT 21.6'	250328.486	1808452.456
BW-18	616+38.2	RT 06.9'	250248.376	1808740.241
BW-19	619+42.0	LT 04.5'	250163.400	1809032.197
BW-20	622+55.5	LT 26.7'	250085.645	1809336.760
BW-21	625+46.4	LT 07.1'	249975.314	1809606.600

PLAN
SCALE: 1"=200'

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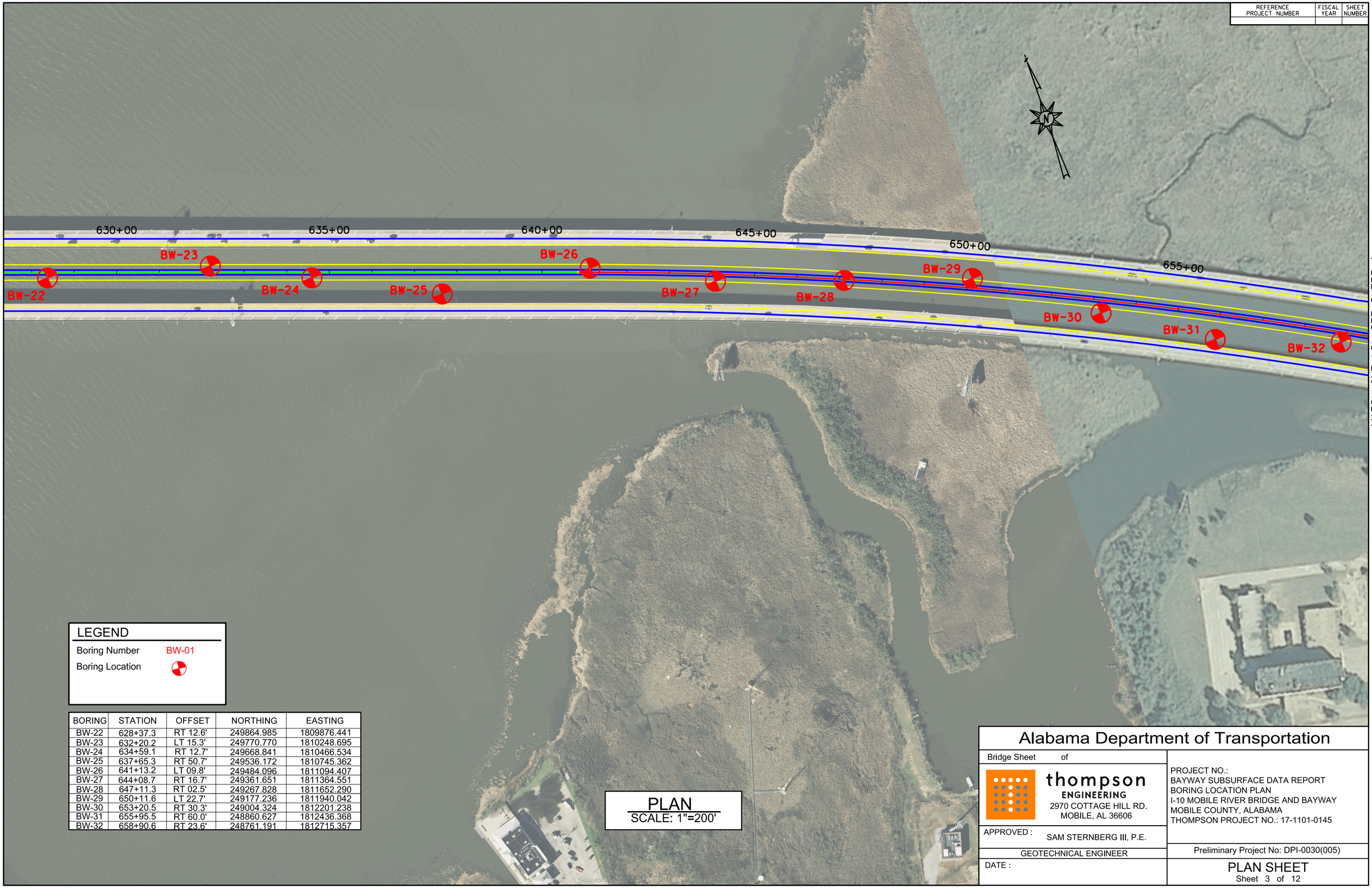
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PLAN SHEET
Sheet 2 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "B" SEE SHEET 2

MATCHLINE "C" SEE SHEET 4



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-22	628+37.3	RT 12.6'	249864.985	1809876.441
BW-23	632+20.2	LT 15.3'	249770.770	1810248.695
BW-24	634+59.1	RT 12.7'	249668.841	1810466.534
BW-25	637+65.3	RT 50.7'	249536.172	1810745.362
BW-26	641+13.2	LT 09.8'	249484.096	1811094.407
BW-27	644+08.7	RT 16.7'	249361.651	1811364.551
BW-28	647+11.3	RT 02.5'	249267.828	1811652.290
BW-29	650+11.6	LT 22.7'	249177.236	1811940.042
BW-30	653+20.5	RT 30.3'	249004.324	1812201.238
BW-31	655+95.5	RT 60.0'	248860.627	1812436.368
BW-32	658+90.6	RT 23.6'	248761.191	1812715.357

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SCALE: 1"=200'

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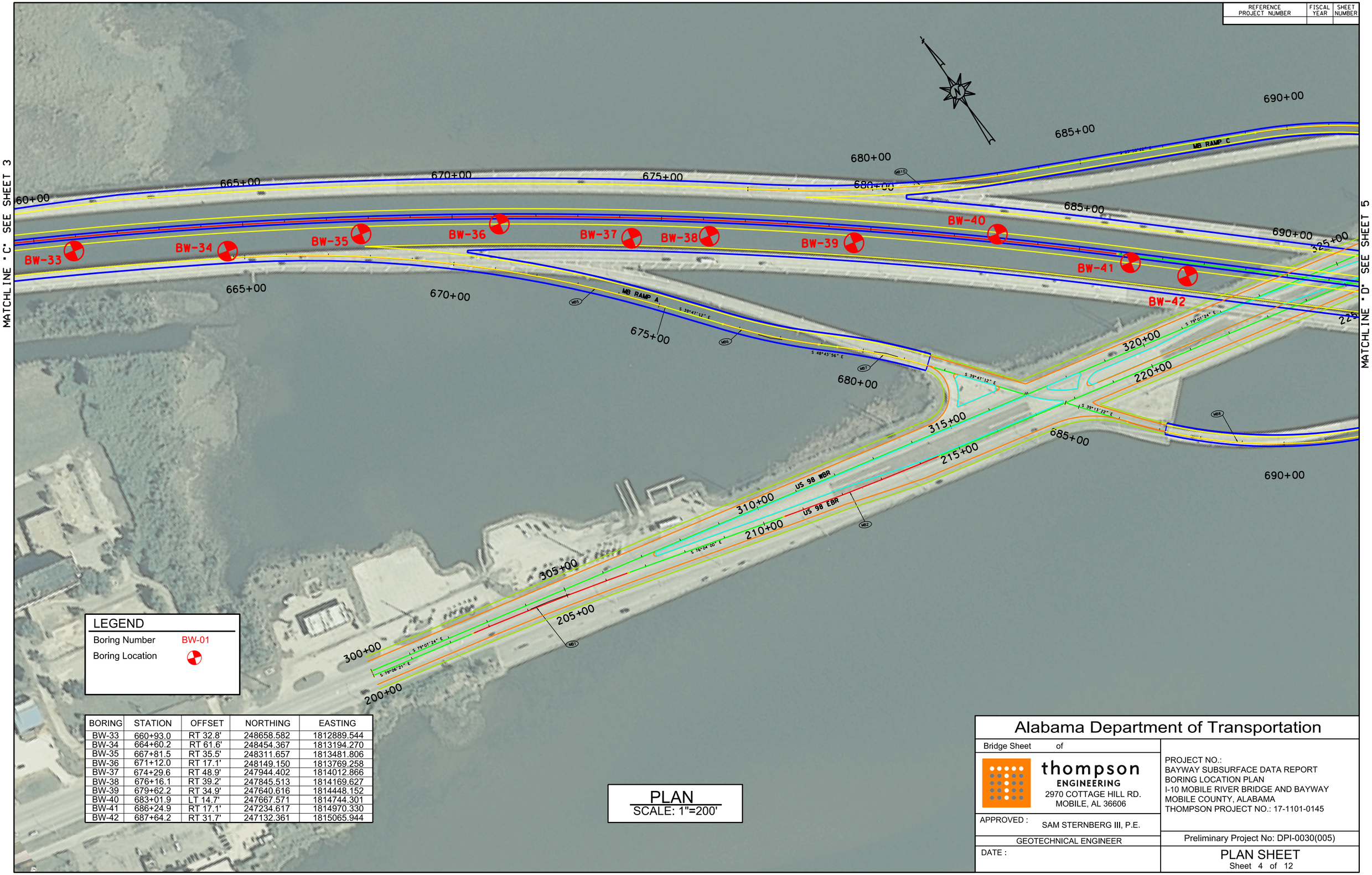
Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 3 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "C" SEE SHEET 3

MATCHLINE "D" SEE SHEET 5



LEGEND

Boring Number	BW-01
Boring Location	

BORING	STATION	OFFSET	NORTHING	EASTING
BW-33	660+93.0	RT 32.8'	248658.582	1812889.544
BW-34	664+60.2	RT 61.6'	248454.367	1813194.270
BW-35	667+81.5	RT 35.5'	248311.657	1813481.806
BW-36	671+12.0	RT 17.1'	248149.150	1813769.258
BW-37	674+29.6	RT 48.9'	247944.402	1814012.866
BW-38	676+16.1	RT 39.2'	247845.513	1814169.627
BW-39	679+62.2	RT 34.9'	247640.616	1814448.152
BW-40	683+01.9	LT 14.7'	247667.571	1814744.301
BW-41	686+24.9	RT 17.1'	247234.617	1814970.330
BW-42	687+64.2	RT 31.7'	247132.361	1815065.944

PLAN
SCALE: 1"=200'

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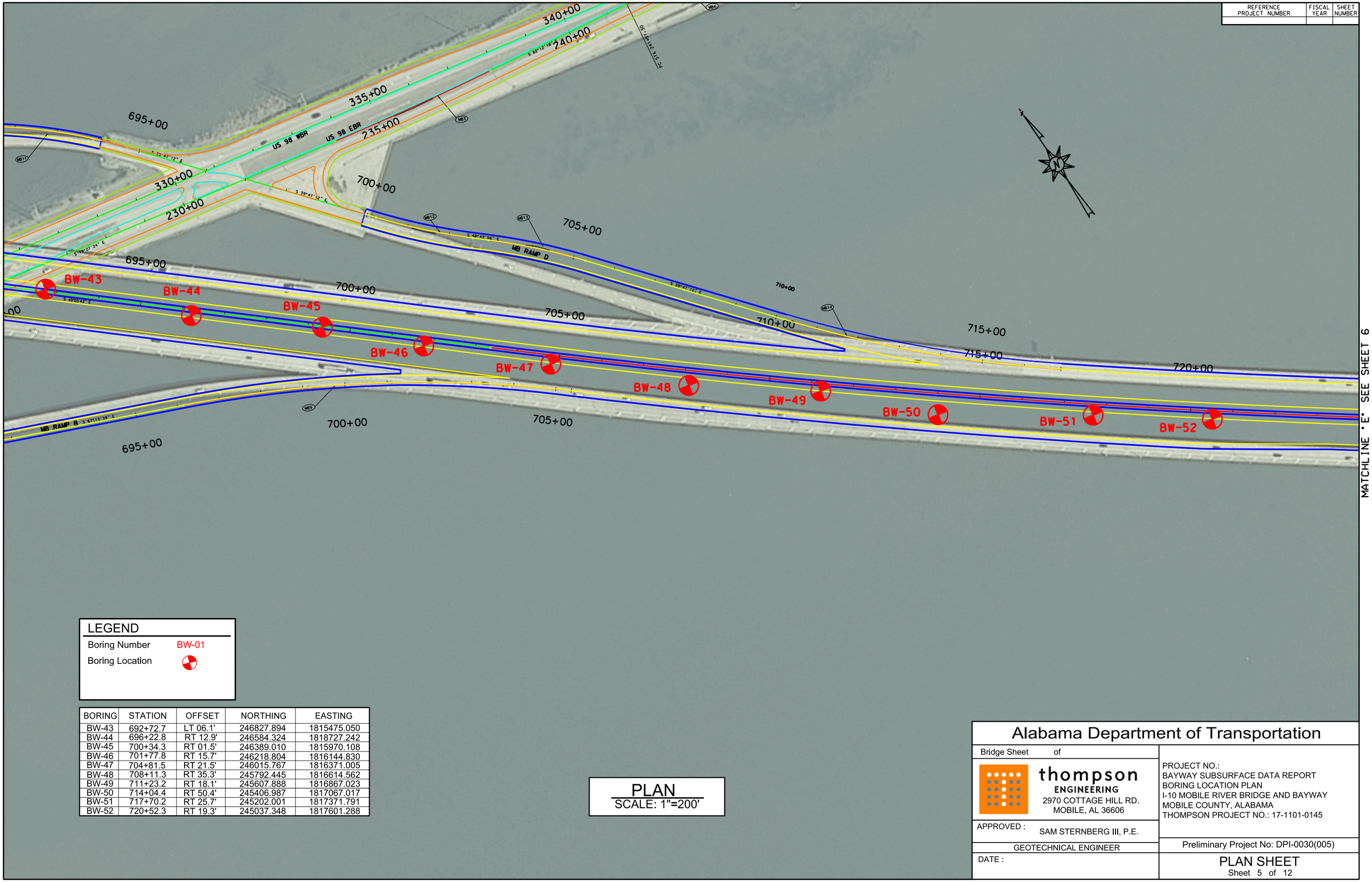
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PLAN SHEET
Sheet 4 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-43	692+72.7	LT 06.1'	246827.894	1815475.050
BW-44	696+22.8	RT 12.9'	246584.324	1818727.242
BW-45	700+34.3	RT 01.5'	246389.010	1815970.108
BW-46	701+77.8	RT 15.7'	246218.804	1816144.830
BW-47	704+81.5	RT 21.5'	246015.767	1816371.005
BW-48	708+11.3	RT 35.3'	245792.445	1816614.562
BW-49	711+23.2	RT 18.1'	245607.888	1816867.023
BW-50	714+04.4	RT 50.4'	245406.987	1817067.017
BW-51	717+70.2	RT 25.7'	245202.001	1817371.791
BW-52	720+52.3	RT 19.3'	245037.348	1817601.288

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SCALE: 1"=200'

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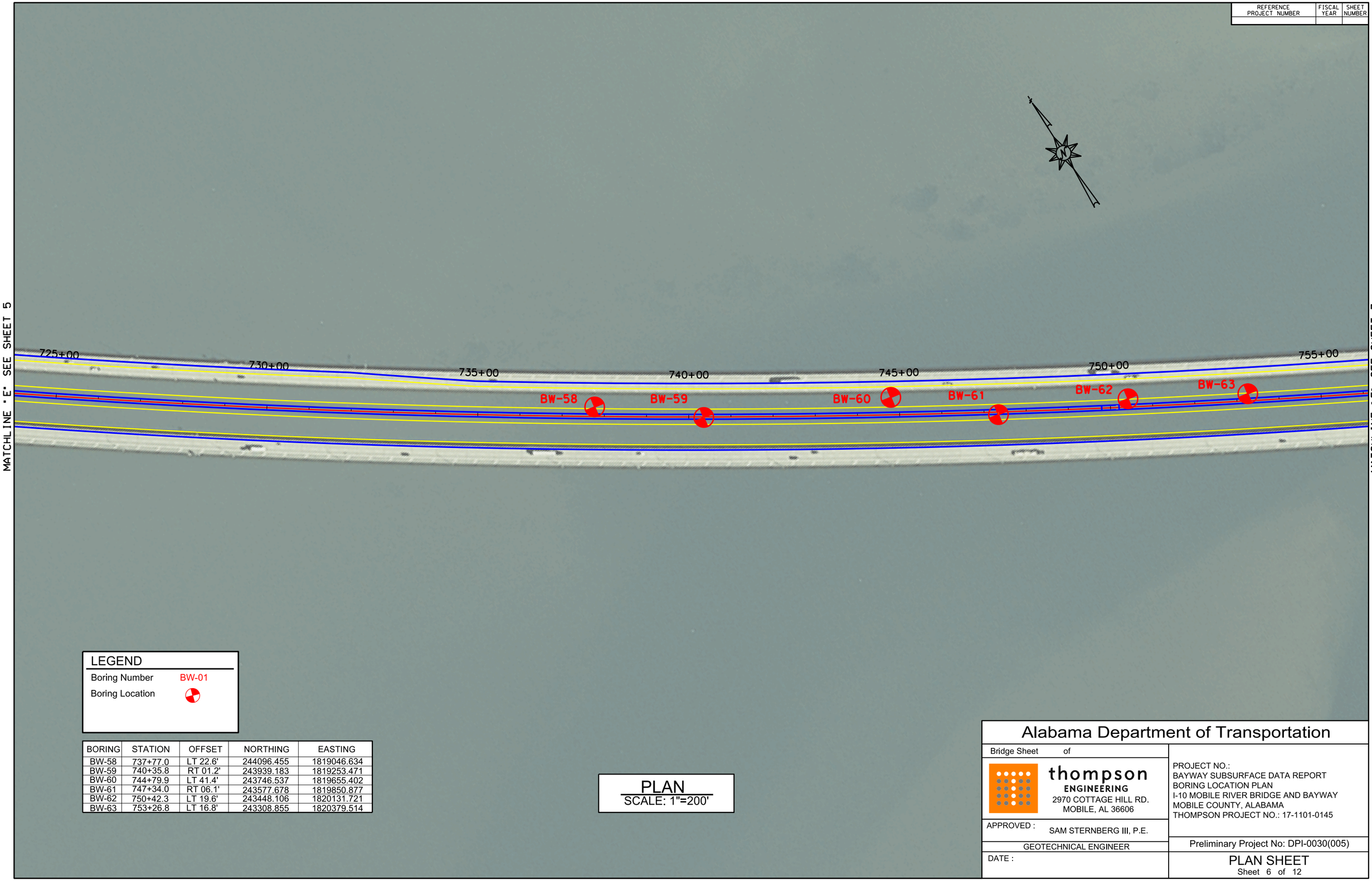
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PLAN SHEET
Sheet 5 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "E" SEE SHEET 5

MATCHLINE "F" SEE SHEET 7



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-58	737+77.0	LT 22.6'	244096.455	1819046.634
BW-59	740+35.8	RT 01.2'	243939.183	1819253.471
BW-60	744+79.9	LT 41.4'	243746.537	1819655.402
BW-61	747+34.0	RT 06.1'	243577.678	1819850.877
BW-62	750+42.3	LT 19.6'	243448.106	1820131.721
BW-63	753+26.8	LT 16.8'	243308.855	1820379.514

PLAN
SCALE: 1"=200'

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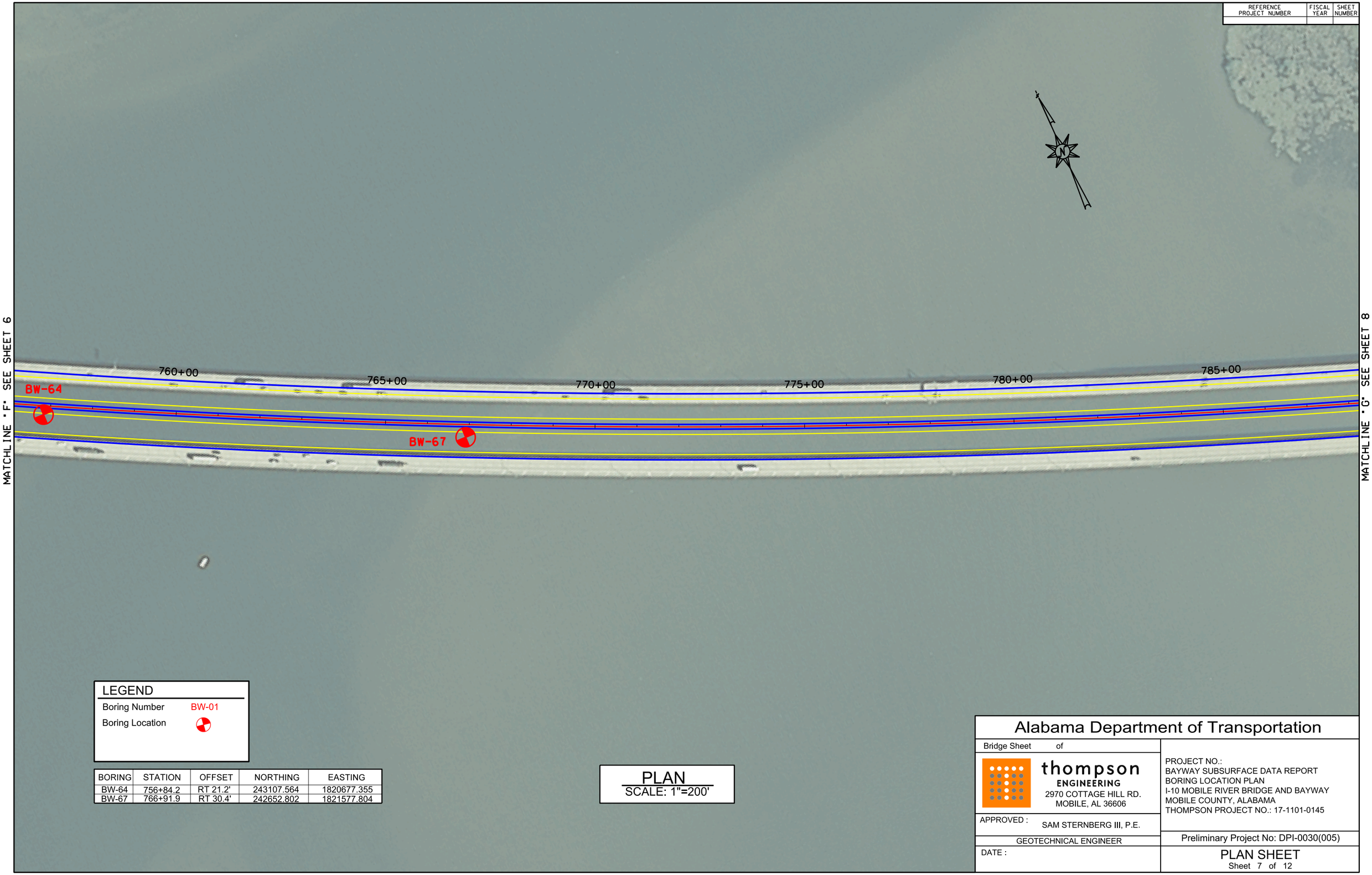
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PLAN SHEET
Sheet 6 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-64	756+84.2	RT 21.2'	243107.564	1820677.355
BW-67	766+91.9	RT 30.4'	242652.802	1821577.804

PLAN
SCALE: 1"=200'

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PLAN SHEET
Sheet 7 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE 'G' SEE SHEET 7

790+00 795+00 800+00 805+00 810+00 815+00 820+00

BW-78 BW-79 BW-80

MATCHLINE 'H' SEE SHEET 9

LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-78	798+32.8	RT 05.1'	241546.284	1824517.414
BW-79	801+32.7	RT 03.6'	241461.095	1824805.074
BW-80	804+32.5	RT 03.8'	241377.725	1825093.058

PLAN
SCALE: 1"=200'

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PLAN SHEET
Sheet 8 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "H" SEE SHEET 8

MATCHLINE "I" SEE SHEET 10

825+00 830+00 835+00 840+00 845+00 850+00

BW-86 BW-87 BW-88 BW-89 BW-90 BW-91 BW-92 BW-93 BW-94 BW-95 BW-96

S 74°01'09" E

LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-86	822+32.4	LT 01.2'	240887.000	1826824.797
BW-87	825+32.5	LT 01.6'	240804.735	1827113.423
BW-88	828+36.7	RT 22.6'	240697.753	1827399.122
BW-89	831+34.9	LT 08.6'	240645.655	1827694.474
BW-90	834+30.9	RT 09.9'	240546.339	1827973.917
BW-91	837+17.1	LT 06.5'	240483.397	1828253.507
BW-92	840+33.2	RT 02.5'	240387.637	1828554.977
BW-93	843+28.3	RT 06.2'	240302.864	1828837.627
BW-94	846+35.5	LT 04.9'	240228.943	1829136.042
BW-95	849+45.7	RT 05.9'	240133.215	1829431.228
BW-96	850+93.6	RT 36.5'	240063.023	1829564.971

PLAN
SCALE: 1"=200'

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MOBILE COUNTY, ALABAMA
THOMPSON PROJECT NO.: 17-1101-0145

Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 9 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "I" SEE SHEET 9

MATCHLINE "J" SEE SHEET 11

855+00 860+00 865+00 870+00 875+00 880+00

BW-97 BW-98 BW-99 BW-100 BW-101 BW-101A BW-102 BW-103 BW-104 BW-105 BW-106

LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-97	855+28.8	CL	239978.247	1829993.450
BW-98	858+31.0	LT 05.8'	239900.724	1830285.567
BW-99	861+38.2	LT 05.6'	239815.917	1830580.802
BW-100	864+33.2	LT 01.9'	239731.161	1830863.461
BW-101	867+22.3	RT 03.4'	239646.431	1831139.832
BW-101A	867+34.4	CL	239646.383	1831152.410
BW-102	870+26.4	RT 04.5'	239561.643	1831431.927
BW-103	873+26.5	RT 03.0'	239480.507	1831720.892
BW-104	876+34.7	RT 06.7'	240228.943	1829136.042
BW-105	879+34.4	RT 03.4'	239312.762	1832305.095
BW-106	882+31.1	RT 01.0'	239233.463	1832590.927

PLAN
SCALE: 1"=200'

Alabama Department of Transportation

Bridge Sheet of

thompson ENGINEERING
2970 COTTAGE HILL RD.
MOBILE, AL 36606

APPROVED : SAM STERNBERG III, P.E.

GEOTECHNICAL ENGINEER

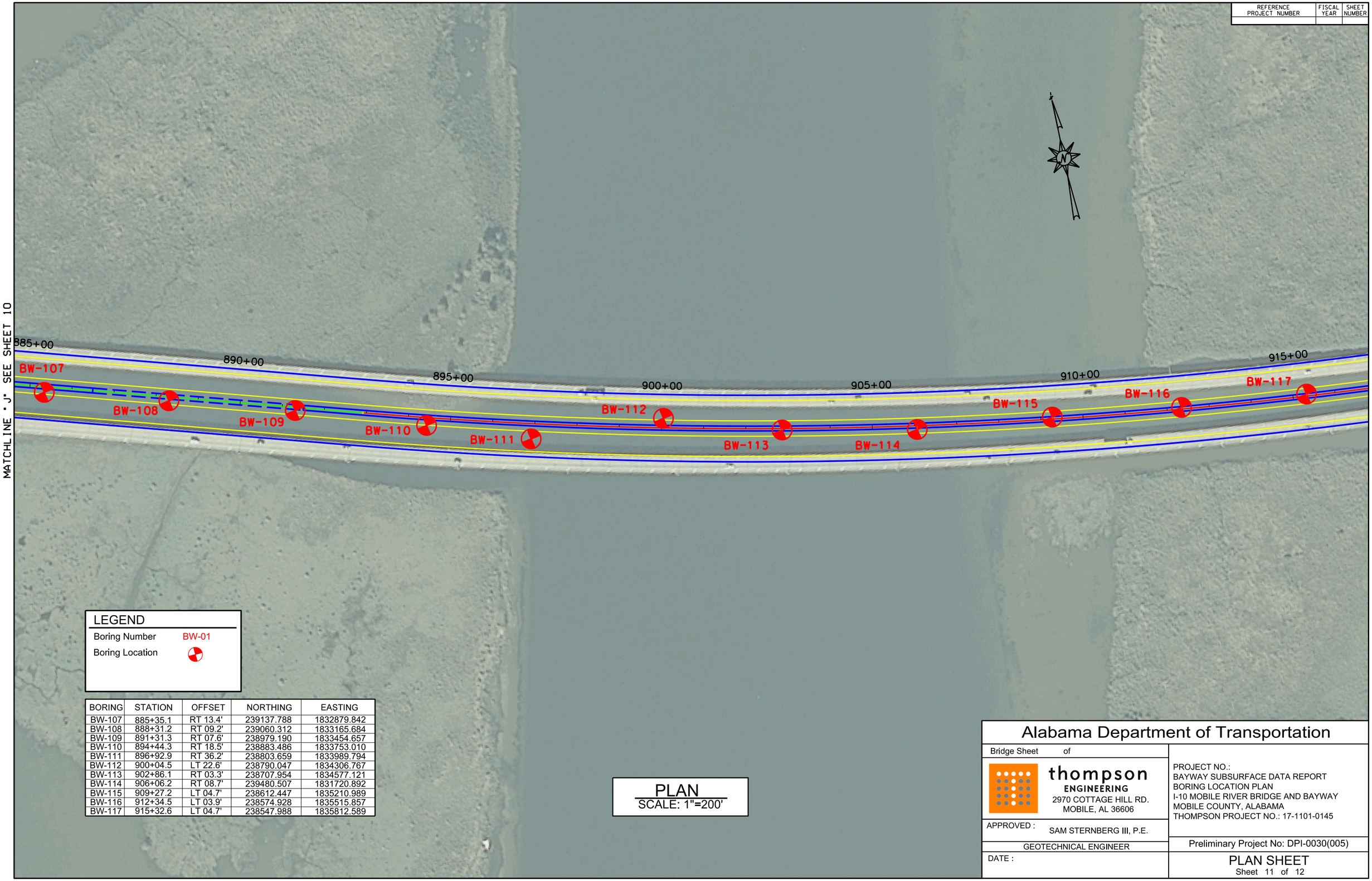
DATE :

PROJECT NO.:
BAYWAY SUBSURFACE DATA REPORT
BORING LOCATION PLAN
I-10 MOBILE RIVER BRIDGE AND BAYWAY
MOBILE COUNTY, ALABAMA
THOMPSON PROJECT NO.: 17-1101-0145

Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 10 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



LEGEND

Boring Number BW-01

Boring Location

BORING	STATION	OFFSET	NORTHING	EASTING
BW-107	885+35.1	RT 13.4'	239137.788	1832879.842
BW-108	888+31.2	RT 09.2'	239060.312	1833165.684
BW-109	891+31.3	RT 07.6'	238979.190	1833454.657
BW-110	894+44.3	RT 18.5'	238883.486	1833753.010
BW-111	896+92.9	RT 36.2'	238803.659	1833989.794
BW-112	900+04.5	LT 22.6'	238790.047	1834306.767
BW-113	902+86.1	RT 03.3'	238707.954	1834577.121
BW-114	906+06.2	RT 08.7'	239480.507	1831720.892
BW-115	909+27.2	LT 04.7'	238612.447	1835210.989
BW-116	912+34.5	LT 03.9'	238574.928	1835515.857
BW-117	915+32.6	LT 04.7'	238547.988	1835812.589

PLAN
SCALE: 1"=200'

Alabama Department of Transportation

Bridge Sheet of

thompson ENGINEERING
2970 COTTAGE HILL RD.
MOBILE, AL 36606

APPROVED : SAM STERNBERG III, P.E.

GEOTECHNICAL ENGINEER

DATE :

PROJECT NO.:
BAYWAY SUBSURFACE DATA REPORT
BORING LOCATION PLAN
I-10 MOBILE RIVER BRIDGE AND BAYWAY
MOBILE COUNTY, ALABAMA
THOMPSON PROJECT NO.: 17-1101-0145

Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 11 of 12

REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER

MATCHLINE "K" SEE SHEET 11

920+00 925+00 930+00 935+00 940+00 945+00

BW-118 BW-119 BW-120 BW-121 BW-122 BW-123 BW-126 BW-127

S 86°17'39" E

N 86°30'16" E

N 81°34'05" E

N 80°32'12" E

S 81°36'29" E

ES RAMP A

ES1 ES2 ES3 ES4 ES5 ES6 ES12 ES18

20+00 25+00 15+00 15+00

LEGEND

Boring Number	BW-01
Boring Location	

BORING	STATION	OFFSET	NORTHING	EASTING
BW-118	918+31.1	RT 07.1'	238521.777	1836109.954
BW-119	921+42.3	LT 09.4'	238520.612	1836421.248
BW-120	924+34.9	LT 08.3'	238515.883	1836713.662
BW-121	928+69.5	RT 05.8'	238506.958	1837048.334
BW-122	929+97.3	LT 04.4'	238526.318	1837275.507
BW-123	933+74.3	LT 08.1'	238555.236	1837651.196
BW-126	942+39.1	LT 02.9'	238654.714	1838509.641
BW-127	944+16.6	LT 20.2'	238697.723	1838682.742

PLAN
SCALE: 1"=200'

Alabama Department of Transportation

Bridge Sheet of

thompson ENGINEERING
2970 COTTAGE HILL RD.
MOBILE, AL 36606

APPROVED : SAM STERNBERG III, P.E.

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PROJECT NO.:
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I-10 MOBILE RIVER BRIDGE AND BAYWAY
MOBILE COUNTY, ALABAMA
THOMPSON PROJECT NO.: 17-1101-0145

Preliminary Project No: DPI-0030(005)

PLAN SHEET
Sheet 12 of 12

APPENDIX B

- **Records of Test Borings**
- **Legend**

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black, FAT CLAY (CH)		0.0	SS-1	0	0	0	0
	-5.0	Very soft		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, black, with trace sand, FAT CLAY (CH, A-7-5(131)), LL=159 PL=51 PI=108 NMC=165.2 %#200=97.9		6.0	SS-5	0	0	0	0
		Very soft		8.5	SS-6	0	0	0	0
10.0									
	-15.0								
		Very soft		13.5	SS-7	0	0	0	0
15.0									
	-20.0								
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very soft, gray		18.5	T-1				
20.0									
	-25.0								
		Very soft, wet, brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=45.0 %#200=58.7		23.5	SS-8	0	0	0	0
25.0									
	-30.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Wet, reddish brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.0 %#200=11.9								
35.0		Sample not obtained. Driller inadvertently drilled down to 43.5 feet due to setting casing.								
	-40.0									
40.0		Sample not obtained.								
	-45.0									
		Medium dense, wet, brown and red, fine to medium grained, POORLY GRADED SAND (SP)		43.5	SS-9	4	7	11	18	●
45.0	-50.0									
		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=2.3		48.5	SS-10	4	6	6	12	▲ ● ○
50.0	-55.0									
		Loose, brown and red		53.5	SS-11	3	4	6	10	●
55.0	-60.0									
		Loose, moist, brown and reddish brown		58.5	SS-12	4	5	5	10	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0									
	-65.0								
		Dense, brown		63.5	SS-13	13	18	16	34
65.0									
	-70.0								
		Medium dense, wet, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.9 %#200=4.7		68.5	SS-14	6	12	15	27
70.0									
	-75.0								
		Medium dense, pale brown and reddish brown		73.5	SS-15	7	10	12	22
75.0									
	-80.0								
		Dense, pale brown		78.5	SS-16	10	16	19	35
80.0									
	-85.0								
		Dense, wet, reddish brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.2 %#200=3.5		83.5	SS-17	15	19	25	44
85.0									
	-90.0								
		Dense, pale brown, with trace gravel		88.5	SS-18	12	15	19	34
90.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲
90.0										10 20 30 40 50 60 70 80 90
	-95.0									
		Medium dense, fine to medium grained		93.5	SS-19	16	13	16	29	
95.0										
	-100.0									
		Dense		98.5	SS-20	17	15	19	34	
100.0										
	-105.0									
		Medium dense, with trace gravel		103.5	SS-21	7	8	15	23	
105.0										
	-110.0									
		Very dense, wet, pale brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=2.9		108.5	SS-22	22	24	31	55	
110.0										
	-115.0									
		Very dense, light brown		113.5	SS-23	15	23	35	58	
115.0										
	-120.0									
		Dense, with trace gravel		118.5	SS-24	16	15	25	40	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
125.0		Very stiff, wet, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(49)), LL=62 PL=14 PI=48 NMC=23.0 %#200=95.0		123.5	SS-25	5	8	11	19	
	-130.0									
130.0		Very stiff		128.5	SS-26	5	12	14	26	
	-135.0									
135.0		Very stiff		133.5	SS-27	5	6	10	16	
	-140.0									
140.0		Very stiff, moist, brown, SANDY LEAN CLAY (CL, A-6(4)), LL=31 PL=20 PI=11 NMC=26.5 %#200=55.7		138.5	SS-28	5	11	18	29	
	-145.0									
145.0		Very stiff		143.5	SS-29	5	9	14	23	
	-150.0									
150.0		Very stiff, wet		148.5	SS-30	12	14	10	24	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
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thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0									
		Stiff, wet, brown, with few gravel, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=29.0 %#200=50.4		153.5	SS-31	6	8	5	13	
155.0										
	-160.0									
		Very stiff		158.5	SS-32	15	11	16	27	
160.0										
	-165.0									
		Medium dense, wet, gray, fine grained, SILTY SAND (SM)		163.5	SS-33	5	6	10	16	
165.0										
	-170.0									
		Dense, wet, gray, fine grained, with trace organics and trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=18.1		168.5	SS-34	4	15	24	39	
170.0										
	-175.0									
		Dense, greenish gray		173.5	SS-35	10	22	24	46	
175.0										
	-180.0									
		Very stiff, wet, greenish gray, FAT CLAY (CH)		178.5	SS-36	10	13	16	29	
180.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
180.0										
	-185.0									
185.0		Hard		183.5	SS-37	9	17	27	44	
	-190.0									
190.0		Hard, wet, greenish gray, with little sand, FAT CLAY (CH, A-7-6(34)), LL=54 PL=15 PI=39 NMC=17.2 %#200=86.1		188.5	SS-38	14	16	20	36	
	-195.0									
195.0		Very stiff, wet, greenish gray, LEAN CLAY with SAND (CL)		193.5	SS-39	11	12	17	29	
	-200.0									
200.0		Hard, wet, gray, LEAN CLAY with SAND (CL, A-6(9)), LL=32 PL=18 PI=14 NMC=25.4 %#200=77.0		198.5	SS-40	18	17	27	44	
	-205.0									
205.0										
	-210.0									
210.0		Very stiff, greenish gray		208.5	SS-41	8	8	13	21	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
210.0										
	-215.0									
215.0										
	-220.0	Medium dense, wet, dark gray, fine grained, SILTY SAND (SM)		218.5	SS-42	3	6	11	17	●
220.0										
	-225.0									
225.0										
	-230.0									
		Soft, wet, dark brown, SANDY LEAN CLAY (CL, A-6(9)), LL=30 PL=12 PI=18 NMC=17.3 %#200=69.0		228.5	SS-43	0	0	3	3	● ×○× ▲
230.0										
	-235.0									
235.0										
	-240.0									
		Hard, wet, dark gray, SANDY LEAN CLAY (CL, A-6(3)), LL=25 PL=13 PI=12 NMC=19.6 %#200=53.8		238.5	SS-44	26	21	25	46	×○× ● ▲
240.0										

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-03	**Boring Location:**	571+16.7	**Offset:**	RT 58.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-3.0 ft.	**Northing:**	251624.805	**Easting:**	1804433.146	**Date Started:**	1/3/2017
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
240.0										
	-245.0									
245.0										
	-250.0									
		Very dense, wet, gray, fine grained, SILTY SAND (SM)		248.5	SS-45	44	50	X	50+	>>
250.0		Boring Terminated at 250.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, FAT CLAY (CH)	0.0	SS-1	0	0	0	0
		Very soft, wet, black, with trace sand and trace organics, FAT CLAY (CH, A-7-5(146)), LL=174 PL=54 PI=120 NMC=209.0 %#200=98.5 Very soft	1.5	SS-2	0	0	0	0
			3.0	SS-3	0	0	0	0
5.0			4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, dark gray, SANDY SILT (ML) Very soft, with trace shells	6.0	SS-5	0	0	0	0
			8.5	SS-6	0	0	0	0
10.0		Very soft, wet, gray, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=31.5 %#200=58.9						
	-15.0		13.5	SS-7	0	0	0	0
15.0		Very soft, wet, gray, SANDY FAT CLAY (CH)						
	-20.0		18.0	T-1				
20.0		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Soft, wet, gray, SANDY FAT CLAY (CH, A-7-6(30)), LL=63 PL=18 PI=45 NMC=51.6 %#200=69.5						
	-25.0		23.5	SS-8	0	0	1	1
25.0		Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC, A-7-6(9)), LL=46 PL=18 PI=28 NMC=38.2 %#200=48.7						
	-30.0		28.0	T-2				
30.0		Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery. Soft, moist, light gray and yellowish brown, FAT CLAY						

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	with SAND (CH, A-7-6(35)), LL=65 PL=21 PI=44 NMC=29.6 %#200=78.3								
35.0		Loose, wet, reddish brown, fine grained, SILTY SAND (SM)		33.5	SS-9	3	4	4	8	
	-40.0									
40.0		Medium dense, wet, pale brown, fine to medium grained, with trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.1 %#200=4.2		38.5	SS-10	3	5	6	11	
	-45.0									
45.0		Medium dense		43.5	SS-11	6	8	10	18	
	-50.0									
50.0		Medium dense, reddish brown		48.5	SS-12	9	9	13	22	
	-55.0									
55.0		Dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.7 %#200=3.4		53.5	SS-13	10	15	18	33	
	-60.0									
60.0		Medium dense		58.5	SS-14	13	16	13	29	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%)
60.0										● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲; 10 20 30 40 50 60 70 80 90
	-65.0									
		Top of spoon: Loose, reddish brown		63.5	SS-15	3	3	2	5	●
65.0		Bottom of spoon: Firm, wet, gray, SANDY LEAN CLAY (CL)								
	-70.0									
		Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP)		68.5	SS-16	6	10	17	27	●
70.0										
	-75.0									
		Medium dense, pale brown		73.5	SS-17	8	7	14	21	●
75.0										
	-80.0									
		Medium dense, with trace gravel		78.5	SS-18	11	14	13	27	●
80.0										
	-85.0									
		Medium dense		83.5	SS-19	8	9	10	19	●
85.0										
	-90.0									
		Medium dense		88.5	SS-20	6	7	10	17	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
		Dense, with trace gravel		93.5	SS-21	25	23	26	49	
95.0										
	-100.0									
		Very dense, with trace gravel		98.5	SS-22	21	25	30	55	
100.0										
	-105.0									
		Dense, with trace gravel		103.5	SS-23	18	21	21	42	
105.0										
	-110.0									
		Dense, with trace gravel		108.5	SS-24	18	25	25	50	
110.0										
	-115.0									
		Dense		113.5	SS-25	12	18	28	46	
115.0										
	-120.0									
		Very dense, wet, pale brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP,		118.5	SS-26	21	32	33	65	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0	A-1-b(0)), LL=NP PL=NP PI=NP NMC=16.8 %#200=4.3								
125.0		Very stiff, wet, gray, with few sand, LEAN CLAY (CL, A-6(14)), LL=33 PL=17 PI=16 NMC=22.0 %#200=92.7		123.5	SS-27	11	12	13	25	
	-130.0									
130.0		Undisturbed sample obtained from 128.0 to 130.0 feet. Approximately 24 inches of recovery. Moist, gray, LEAN CLAY with SAND (CL, A-6(12)), LL=32 PL=13 PI=19 NMC=29.8 %#200=74.6		128.0	T-3					
	-135.0									
135.0		Very stiff, wet		133.5	SS-28	5	8	9	17	
	-140.0									
140.0		Dense, wet, greenish gray, fine grained, SILTY SAND (SM)		138.5	SS-29	17	22	20	42	
	-145.0									
145.0		Very stiff, wet, green, LEAN CLAY with SAND (CL, A-6(10)), LL=34 PL=18 PI=16 NMC=27.5 %#200=73.8		143.5	SS-30	7	13	13	26	
	-150.0									
150.0		Stiff, greenish gray		148.5	SS-31	4	5	9	14	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-04	**Boring Location:**	575+29.0	**Offset:**	RT 26.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	251524.738	**Easting:**	1804834.329	**Date Started:**	1/17/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0									
155.0		Very stiff, wet, greenish gray, FAT CLAY with SAND (CH, A-7-6(35)), LL=65 PL=20 PI=45 NMC=27.6 %#200=77.3		153.5	SS-32	9	9	16	25	
	-160.0									
160.0		Very dense, wet, greenish gray, fine grained, SILTY SAND (SM)		158.5	SS-33	17	34	33	67	
	-165.0									
165.0		Very dense, gray		163.5	SS-34	32	47	43	90	
	-170.0									
170.0		Very dense, wet, gray, fine grained, with trace wood, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=16.4		168.5	SS-35	23	29	29	58	
	-175.0									
175.0		Very stiff, wet, greenish gray, LEAN CLAY (CL)		173.5	SS-36	9	11	13	24	
		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, SANDY FAT CLAY (CH)		0.0	SS-1	0	0	0	0
		Very soft		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, black, SANDY FAT CLAY (CH, A-7-5(28)), LL=74 PL=31 PI=43 NMC=121.0 %#200=65.1		6.0	SS-5	0	0	0	0
		Very soft, wet, gray, SANDY SILT (ML)		8.5	SS-6	0	0	0	0
10.0	-15.0								
		Very soft, wet, gray, FAT CLAY with SAND (CH)		13.5	SS-7	0	0	0	0
15.0	-20.0								
		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Soft, moist		18.0	T-1				
20.0	-25.0								
		Very soft		23.5	SS-8	0	0	0	0
25.0	-30.0								
		Firm, moist, gray, SANDY FAT CLAY (CH, A-7-6(34)), LL=77 PL=20 PI=57 NMC=26.1 %#200=63.9		28.5	SS-9	3	3	4	7
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

12

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
35.0		Medium dense, wet, reddish brown, fine grained, POORLY GRADED SAND (SP)		33.5	SS-10	5	5	8	13	●
40.0	-40.0	Medium dense, wet, reddish brown, fine to medium grained, with trace clay, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.8 %#200=3.7		38.5	SS-11	3	5	7	12	▲ ● ○
45.0	-45.0	Medium dense, fine grained		43.5	SS-12	5	6	9	15	●
50.0	-50.0	Loose, gray, fine to medium grained		48.5	SS-13	4	4	5	9	●
55.0	-55.0	Medium dense		53.5	SS-14	8	10	12	22	●
60.0	-60.0	Medium dense, wet, white, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP,		58.5	SS-15	6	6	9	15	▲ ● ○

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-65.0	A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.9 %#200=1.9							
		Medium dense, pale brown, medium grained		63.5	SS-16	9	11	12	23
65.0	-70.0								
		Medium dense, fine to medium grained		68.5	SS-17	9	12	13	25
70.0	-75.0								
		Dense, with trace gravel		73.5	SS-18	19	21	25	46
75.0	-80.0								
		Medium dense, wet, pale brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.0 %#200=1.3		78.5	SS-19	2	4	11	15
80.0	-85.0								
		Dense, reddish brown, fine to medium grained		83.5	SS-20	6	15	20	35
85.0	-90.0								
		Dense		88.5	SS-21	12	14	17	31
90.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0		Very dense, gray, with trace gravel		93.5	SS-22	11	20	36	56	
	-100.0									
100.0		Dense		98.5	SS-23	12	24	24	48	
	-105.0									
105.0		Very dense		103.5	SS-24	20	27	28	55	
	-110.0									
110.0		Dense, fine grained, with trace gravel		108.5	SS-25	11	15	25	40	
	-115.0									
115.0		Very dense, medium to fine grained		113.5	SS-26	18	28	37	65	
	-120.0									
120.0		Very dense, with trace gravel		118.5	SS-27	26	32	35	67	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0	-125.0								
125.0		Dense, pale brown, fine to medium grained		123.5	SS-28	13	23	27	50
	-130.0								
130.0		Very dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=4.0		128.5	SS-29	34	50/5	X	50+
	-135.0								
135.0		Hard, wet, green, SANDY SILT (ML)		133.5	SS-30	15	26	31	57
	-140.0								
140.0		Medium dense, wet, greenish gray, fine grained, with shell fragments, SILTY SAND (SM)		138.5	SS-31	13	12	10	22
	-145.0								
145.0		Very stiff, wet, green, with trace sand, FAT CLAY (CH, A-7-6(38)), LL=53 PL=16 PI=37 NMC=23.5 %#200=95.6		143.5	SS-32	11	13	14	27
	-150.0								
150.0		Very stiff, wet, gray, with trace sand, LEAN CLAY (CL, A-7-6(31)), LL=48 PL=18 PI=30 NMC=21.8		148.5	SS-33	8	9	10	19

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-05	**Boring Location:**	578+17.9	**Offset:**	RT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251421.644	**Easting:**	1805104.536	**Date Started:**	1/30/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0	%#200=96.5								
155.0		Very stiff, moist, gray, with trace shell, FAT CLAY (CH)		153.5	SS-34	7	7	10	17	
	-160.0									
160.0		Very stiff		158.5	SS-35	7	9	12	21	
	-165.0									
165.0		Very dense, moist, light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.8 %#200=9.7		163.5	SS-36	22	24	26	50	
	-170.0									
170.0		Very stiff, moist, gray, with few sand, LEAN CLAY (CL, A-6(22)), LL=38 PL=13 PI=25 NMC=21.8 %#200=90.7		168.5	SS-37	3	8	15	23	
	-175.0									
175.0		Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=37 PL=20 PI=17 NMC=20.1 %#200=54.8		173.5	SS-38	17	17	21	38	
		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery		0.0	SS-1	0	0	0	0
	-5.0	Very soft, wet, black, ELASTIC SILT with SAND (MH)		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft, wet, black, ELASTIC SILT with SAND (MH, A-7-5(33)), LL=83 PL=42 PI=41 NMC=230.1 %#200=72.1		4.5	SS-4	0	0	0	0
	-10.0	Very soft		6.0	SS-5	0	0	0	0
		Very soft, black and brown		8.5	SS-6	0	0	0	0
10.0									
	-15.0								
		Undisturbed sample obtained from approximately 13.5 to 15.5 feet. Approximately 24 inches of recovery. Brown		13.5	T-1				
15.0									
	-20.0								
		Very soft, wet, brown, FAT CLAY with SAND (CH, A-7-6(25)), LL=52 PL=22 PI=30 NMC=73.5 %#200=81.0		18.5	SS-7	0	0	0	0
20.0									
	-25.0								
		Undisturbed sample obtained from approximately 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, gray		23.5	T-2				
25.0									
	-30.0								
		Very soft, brown		28.5	SS-8	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
35.0		Undisturbed sample obtained from approximately 33.5 to 35.5 feet. Approximately 24 inches of recovery. Moist, gray, medium to fine grained, CLAYEY SAND (SC, A-7-6(10)), LL=53 PL=18 PI=35 NMC=3.3 %#200=44.2		33.5	T-3					○ × ▲ ×
	-40.0									
40.0		Medium dense, moist, brown, fine to medium grained, POORLY GRADED SAND (SP)		38.5	SS-9	3	5	6	11	●
	-45.0									
45.0		Medium dense		43.5	SS-10	4	8	12	20	●
	-50.0									
50.0		Medium dense, moist, brown, fine grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=26.0 %#200=2.9		48.5	SS-11	5	6	8	14	× ▲ ● ○
	-55.0									
55.0		Dense, fine to medium grained		53.5	SS-12	7	17	16	33	●
	-60.0									
60.0		Loose, wet		58.5	SS-13	2	3	5	8	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
		Medium dense, with trace gravel		63.5	SS-14	5	7	7	14	●
65.0										
	-70.0									
		Medium dense		68.5	SS-15	7	9	14	23	●
70.0										
	-75.0									
		Medium dense		73.5	SS-16	5	9	13	22	●
75.0										
	-80.0									
		Dense, moist		78.5	SS-17	11	14	17	31	●
80.0										
	-85.0									
		Medium dense, yellowish brown		83.5	SS-18	8	12	16	28	●
85.0										
	-90.0									
		Medium dense, with trace gravel		88.5	SS-19	7	9	14	23	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Medium dense, moist, yellowish brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=2.2		93.5	SS-20	5	7	13	20	
	-100.0									
100.0		Dense, brown, fine to medium grained		98.5	SS-21	9	13	19	32	
	-105.0									
105.0		Medium dense		103.5	SS-22	7	10	10	20	
	-110.0									
110.0		Medium dense, wet		108.5	SS-23	12	13	10	23	
	-115.0									
115.0		Medium dense, moist, brown, fine to medium grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.7 %#200=2.1		113.5	SS-24	12	13	17	30	
	-120.0									
120.0		Very dense, wet, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP,		118.5	SS-25	23	30	47	77	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
		A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.0 %#200=3.4								
	-125.0									
125.0		Very stiff, moist, gray, with trace sand, LEAN CLAY (CL)		123.5	SS-26	9	9	12	21	
	-130.0									
130.0		Stiff, moist, gray, with few sand, LEAN CLAY (CL, A-4(7)), LL=28 PL=18 PI=10 NMC=26.7 %#200=85.6		128.5	SS-27	6	7	8	15	
	-135.0									
135.0		Very stiff		133.5	SS-28	8	10	14	24	
	-140.0									
140.0		Hard, moist, gray, SANDY, SILTY CLAY (CL-ML)		138.5	SS-29	10	16	22	38	
	-145.0									
145.0		Very stiff, moist, gray, SANDY, SILTY CLAY (CL-ML, A-4(2)), LL=23 PL=16 PI=7 NMC=19.8 %#200=61.0		143.5	SS-30	14	8	9	17	
	-150.0									
150.0		Hard		148.5	SS-31	9	12	23	35	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-06	**Boring Location:**	581+04.6	**Offset:**	LT 10.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-2.5 ft.	**Northing:**	251379.091	**Easting:**	1805392.468	**Date Started:**	2/13/2017
Total Depth:	170.0 ft.	**Soil Depth:**	170.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0									
	-155.0								
		Hard, moist, gray, with trace sand, LEAN CLAY (CL)		153.5	SS-32	15	16	17	33
155.0									
	-160.0								
		Very stiff, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(31)), LL=47 PL=15 PI=32 NMC=21.2 %#200=93.7		158.5	SS-33	9	11	15	26
160.0									
	-165.0								
		Hard		163.5	SS-34	12	15	20	35
165.0									
	-170.0								
		Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=37 PL=17 PI=20 NMC=18.2 %#200=54.3		168.5	SS-35	16	21	23	44
170.0									
		Boring Terminated at 170.0 feet.							

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black, ELASTIC SILT (MH)		0.0	SS-1	0	0	0	0
	-5.0	Very soft		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, black, with trace sand and trace organics, ELASTIC SILT (MH, A-7-5(48)), LL=82 PL=44 PI=38 NMC=192.9 %#200=96.6		6.0	SS-5	0	0	0	0
		Very soft		8.5	SS-6	0	0	0	0
10.0									
	-15.0								
		Undisturbed sample obtained from approximately 13.5 to 15.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, with trace sand and trace organics, FAT CLAY (CH, A-7-5(103)), LL=129 PL=41 PI=88 NMC=143.2 %#200=96.0		13.5	T-1				
15.0									
	-20.0								
		Very soft, gray, with few sand and trace organics, FAT CLAY (CH, A-7-5(44)), LL=71 PL=32 PI=39 NMC=107.9 %#200=94.3		18.5	SS-7	0	0	0	0
20.0									
	-25.0								
		Undisturbed sample obtained from approximately 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=40 PL=19 PI=21 NMC=44.0 %#200=63.7		23.5	T-2				
25.0									
	-30.0								
		Very soft		28.5	SS-8	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
35.0		Undisturbed sample obtained from approximately 33.5 to 35.5 feet. Approximately 24 inches of recovery. Moist, gray, with trace sand and trace organics, ELASTIC SILT (MH, A-7-5(163)), LL=212 PL=83 PI=129 NMC=147.7 %#200=96.8		33.5	T-3					▲24
	-40.0									
40.0		Medium dense, moist, gray, fine to medium grained, POORLY GRADED SAND (SP)		38.5	SS-9	4	9	10	19	
	-45.0									
45.0		Medium dense, brown		43.5	SS-10	5	7	11	18	
	-50.0									
50.0		Medium dense		48.5	SS-11	5	8	12	20	
	-55.0									
55.0		Medium dense, moist, brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=4.7		53.5	SS-12	6	10	17	27	
	-60.0									
60.0		Medium dense		58.5	SS-13	6	5	7	12	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Medium dense, brown and gray		63.5	SS-14	7	7	12	19	●
	-70.0									
70.0		Medium dense, moist, brown, medium to fine grained, with trace gravel, WELL GRADED SAND with SILT (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.2 %#200=8.1		68.5	SS-15	6	11	14	25	▲ ○ ●
	-75.0									
75.0		Dense		73.5	SS-16	10	14	18	32	●
	-80.0									
80.0		Dense, reddish brown		78.5	SS-17	8	14	18	32	●
	-85.0									
85.0		Loose, brown, fine grained		83.5	SS-18	3	3	3	6	●
	-90.0									
90.0		Loose, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP		88.5	SS-19	5	4	6	10	▲ ○

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0		PI=NP NMC=30.5 %#200=12.0								
	-95.0									
		Medium dense		93.5	SS-20	5	7	11	18	
95.0										
	-100.0									
		Medium dense, fine to medium grained		98.5	SS-21	5	7	12	19	
100.0										
	-105.0									
		Medium dense, moist, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.7 %#200=6.2		103.5	SS-22	4	6	7	13	
105.0										
	-110.0									
		Medium dense, with trace gravel		108.5	SS-23	4	5	10	15	
110.0										
	-115.0									
		Medium dense, with trace gravel		113.5	SS-24	9	7	11	18	
115.0										
	-120.0									
		Medium dense		118.5	SS-25	10	12	16	28	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
125.0		Dense		123.5	SS-26	11	18	23	41	
	-130.0									
130.0		Very stiff, moist, gray, with few sand, FAT CLAY (CH, A-7-6(52)), LL=73 PL=22 PI=51 NMC=28.3 %#200=91.9		128.5	SS-27	8	12	14	26	
	-135.0									
135.0		Very stiff, moist, gray, LEAN CLAY (CL)		133.5	SS-28	6	9	12	21	
	-140.0									
140.0		Loose, moist, gray, with few sand, LEAN CLAY (CL, A-6(14)), LL=36 PL=19 PI=17 NMC=32.2 %#200=86.8		138.5	SS-29	3	3	4	7	
	-145.0									
145.0		Stiff, moist, gray, FAT CLAY (CH)		143.5	SS-30	2	6	9	15	
	-150.0									
150.0		Stiff, dark brown		148.5	SS-31	4	6	8	14	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-07	**Boring Location:**	584+20.7	**Offset:**	RT 56.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	251215.343	**Easting:**	1805671.119	**Date Started:**	2/18/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/23/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0									
155.0		Very stiff, moist, gray, SILT (ML)		153.5	SS-32	6	9	9	18	
	-160.0									
160.0		Very stiff, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(42)), LL=58 PL=17 PI=41 NMC=22.8 %#200=95.0		158.5	SS-33	7	10	15	25	
	-165.0									
165.0		Very stiff, No Recovery		163.5	SS-34	2	8	11	19	
	-170.0									
170.0		Very stiff, moist, gray, SANDY LEAN CLAY (CL, A-7-6(16)), LL=44 PL=14 PI=30 NMC=20.6 %#200=63.7		168.5	SS-35	9	14	14	28	
	-175.0									
175.0		Very stiff		173.5	SS-36	12	12	15	27	
		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, ELASTIC SILT (MH)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Very soft	3.0	SS-3	0	0	0	0
5.0	-10.0	Very soft, wet, black, with trace sand and trace organics, ELASTIC SILT (MH, A-7-5(54)), LL=85 PL=42 PI=43 NMC=240.1 %#200=98.1	4.5	SS-4	0	0	0	0
		Very soft	6.0	SS-5	0	0	0	0
		Very soft	8.5	SS-6	0	0	0	0
10.0	-15.0	Undisturbed sample obtained from approximately 13.0 to 15.0 feet. Approximately 20 inches of recovery. Wet, dark gray, LEAN CLAY (CL)	13.0	T-1				
15.0	-20.0	Stiff, wet, gray, with few sand, LEAN CLAY (CL, A-6(16)), LL=37 PL=20 PI=17 NMC=45.1 %#200=92.5	18.5	SS-7	0	12	2	14
20.0	-25.0	Undisturbed sample obtained from approximately 23.0 to 25.0 feet. Approximately 24 inches of recovery. Moist	23.0	T-2				
25.0	-30.0	Very stiff	28.5	SS-8	0	0	18	18
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
35.0	-40.0	Undisturbed sample obtained from approximately 33.0 to 35.0 feet. Approximately 24 inches of recovery. Wet		33.0	T-3					
40.0	-45.0	Very soft, wet, gray, with trace sand, FAT CLAY (CH, A-7-5(44)), LL=68 PL=30 PI=38 NMC=78.8 %#200=97.1		38.5	SS-9	0	0	0	0	
45.0	-50.0	Undisturbed sample obtained from approximately 43.5 to 45.5 feet. Approximately 24 inches of recovery. Medium dense, moist, brown, medium to fine grained, with organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=252.9 %#200=32.2		43.5	T-4					
50.0	-55.0	Dense, moist, brown and gray, fine to medium grained, POORLY GRADED SAND (SP)		48.5	SS-10	10	14	18	32	
55.0	-60.0	Medium dense, brown		53.5	SS-11	6	8	8	16	
60.0		Very loose, wet		58.5	SS-12	3	2	2	4	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-65.0									
65.0	-70.0	Medium dense, moist		63.5	SS-13	7	9	11	20	●
70.0	-75.0	Medium dense, brown and gray		68.5	SS-14	6	10	11	21	●
75.0	-80.0	Dense, reddish brown		73.5	SS-15	10	16	24	40	●
80.0	-85.0	Medium dense		78.5	SS-16	14	14	14	28	●
85.0	-90.0	Medium dense, brown, fine grained		83.5	SS-17	5	7	10	17	●
90.0		Medium dense		88.5	SS-18	6	9	8	17	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0	-100.0	Dense		93.5	SS-19	15	21	23	44	●
100.0	-105.0	Medium dense, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=28.6 %#200=5.2		98.5	SS-20	11	13	16	29	×▲ ●
105.0	-110.0	Dense		103.5	SS-21	10	17	26	43	●
110.0	-115.0	Medium dense		108.5	SS-22	10	12	18	30	●
115.0	-120.0	Dense		113.5	SS-23	11	17	21	38	●
120.0		Medium dense		118.5	SS-24	11	14	15	29	●

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0	-125.0								
125.0	-130.0	Medium dense		123.5	SS-25	9	15	14	29
130.0	-135.0	Dense, with trace gravel		128.5	SS-26	11	16	18	34
135.0	-140.0	Hard, moist, gray, LEAN CLAY with SAND (CL)		133.5	SS-27	38	18	20	38
140.0	-145.0	Stiff, moist, gray, LEAN CLAY with SAND (CL, A-6(8)), LL=28 PL=13 PI=15 NMC=21.8 %#200=73.5		138.5	SS-28	5	3	7	10
145.0	-150.0	Very stiff		143.5	SS-29	19	11	11	22
150.0		Very stiff		148.5	SS-30	10	14	16	30

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0	-155.0									
155.0	-160.0	Hard, moist, gray, LEAN CLAY with SAND (CL, A-6(10)), LL=33 PL=17 PI=16 NMC=19.0 %#200=73.4		153.5	SS-31	12	15	20	35	
160.0	-165.0	Very stiff, moist, gray, SILT (ML)		158.5	SS-32	7	8	14	22	
165.0	-170.0	Very stiff, moist, gray, SANDY LEAN CLAY (CL)		163.5	SS-33	7	10	14	24	
170.0	-175.0	Very stiff		168.5	SS-34	7	10	19	29	
175.0	-180.0	Very stiff, moist, gray, SANDY LEAN CLAY (CL, A-6(3)), LL=28 PL=17 PI=11 NMC=18.8 %#200=52.3		173.5	SS-35	5	9	12	21	
180.0		Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=34 PL=14 PI=20 NMC=18.5 %#200=67.9		178.5	SS-36	23	22	25	47	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
180.0	-185.0									
185.0	-190.0	Very stiff		183.5	SS-37	10	11	14	25	●
190.0	-195.0	Hard		188.5	SS-38	13	15	21	36	●
195.0	-200.0	Hard, moist, bluish gray, LEAN CLAY with SAND (CL, A-7-6(28)), LL=48 PL=13 PI=35 NMC=18.7 %#200=81.6		193.5	SS-39	12	18	21	39	○—●—× ▲
200.0	-205.0	Hard		198.5	SS-40	9	15	20	35	●
205.0	-210.0									
210.0		Medium dense, moist, dark gray, fine grained, CLAYEY SAND (SC)		208.5	SS-41	7	8	17	25	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
210.0	-215.0									
215.0	-220.0									
220.0	-225.0	Medium dense, brown		218.5	SS-42	9	10	16	26	●
225.0	-230.0									
230.0	-235.0	Hard, wet, brown, SANDY LEAN CLAY (CL, A-6(7)), LL=29 PL=14 PI=15 NMC=21.4 %#200=65.8		228.5	SS-43	12	16	20	36	⊗ ● ▲
235.0	-240.0									
240.0		Very dense, moist, brown, fine to medium grained, POORLY GRADED SAND (SP)		238.5	SS-44	50	50/3	X	100+	>>●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-08	**Boring Location:**	587+87.1	**Offset:**	RT 0.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-4.5 ft.	**Northing:**	251112.257	**Easting:**	1805941.322	**Date Started:**	2/24/2017
Total Depth:	240.0 ft.	**Soil Depth:**	240.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 240.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0				0.0	SS-1	0	0	0	0	
	-5.0	Very soft, wet, black, FAT CLAY (CH)		1.5	SS-2	0	0	0	0	
		Very soft		3.0	SS-3	0	0	0	0	
5.0		Very soft, wet, black, with few sand, FAT CLAY (CH, A-7-5(130)), LL=180 PL=52 PI=128 NMC=235.7 %#200=86.5		4.5	SS-4	0	0	0	0	
	-10.0	Very soft		6.0	SS-5	0	0	0	0	
		Very soft, wet, black, with trace sand, FAT CLAY (CH, A-7-5(105)), LL=125 PL=36 PI=89 NMC=116.8 %#200=98.2		8.5	SS-6	0	0	0	0	
10.0	-15.0									
		Very loose, wet, gray, fine grained, SILTY SAND (SM)		13.5	SS-7	0	0	0	0	
15.0	-20.0									
		Very soft, gray, SANDY FAT CLAY (CH)		18.5	SS-8	0	0	0	0	
20.0	-25.0									
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Very soft, gray, SANDY FAT CLAY (CH, A-7-6(14)), LL=50 PL=18 PI=32 NMC=39.5 %#200=55.6		23.0	T-1					
25.0	-30.0									
		Very soft		28.5	SS-9	0	0	0	0	
30.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
		Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Very loose, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.5 %#200=20.2		33.0	T-2					
35.0	-40.0									
		Very loose		38.5	SS-10	0	0	0	0	
40.0	-45.0									
		Very loose		43.5	SS-11	0	1	1	2	
45.0	-50.0									
		Loose, gray, fine to medium grained, with few gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.3 %#200=14.2		48.5	SS-12	3	3	3	6	
50.0	-55.0									
		Medium dense, light gray, fine grained, POORLY GRADED SAND (SP)		53.5	SS-13	5	6	5	11	
55.0	-60.0									
		Medium dense, light gray, medium to fine grained, with trace gravel and trace silt, POORLY GRADED		58.5	SS-14	7	10	13	23	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.6 %#200=3.7								
		Medium dense		63.5	SS-15	7	10	10	20	●
65.0										
	-70.0									
		Medium dense, gray and brown		68.5	SS-16	4	7	12	19	●
70.0										
	-75.0									
		Medium dense, wet, gray		73.5	SS-17	5	8	11	19	●
75.0										
	-80.0									
		Dense, moist, fine to coarse grained		78.5	SS-18	12	16	16	32	●
80.0										
	-85.0									
		Loose, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=35.3 %#200=11.7		83.5	SS-19	3	3	4	7	×●▲ ○
85.0										
	-90.0									
		Medium dense		88.5	SS-20	6	8	11	19	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0		Medium dense, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=33.0 %#200=6.6		93.5	SS-21	6	8	7	15	
	-100.0									
100.0		Medium dense, wet		98.5	SS-22	5	10	14	24	
	-105.0									
105.0		Dense		103.5	SS-23	6	13	23	36	
	-110.0									
110.0		Dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.6 %#200=7.1		108.5	SS-24	16	20	22	42	
	-115.0									
115.0		Medium dense		113.5	SS-25	8	12	18	30	
	-120.0									
120.0		Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-7-6(21)), LL=42 PL=13 PI=29 NMC=20.6		118.5	SS-26	4	7	10	17	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-125.0	%#200=79.3								
125.0		Stiff, moist, gray, with trace clay, SANDY SILT (ML)		123.5	SS-27	5	6	7	13	●
	-130.0									
130.0		Stiff, moist, gray and brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=32.3 %#200=68.2		128.5	SS-28	6	7	8	15	● ○ ▲
	-135.0									
135.0		Very stiff, brown		133.5	SS-29	8	12	10	22	●
	-140.0									
140.0		Firm		138.5	SS-30	3	4	4	8	●
	-145.0									
145.0		Very dense, moist, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.8 %#200=21.2		143.5	SS-31	10	25	33	58	▲ ○ ●
	-150.0									
150.0		Very dense		148.5	SS-32	22	33	34	67	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-09	**Boring Location:**	590+06.9	**Offset:**	RT 23.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.0 ft.	**Northing:**	251012.689	**Easting:**	1806237.745	**Date Started:**	3/13/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0									
155.0		Medium dense, moist, brown, fine grained, CLAYEY SAND (SC, A-6(8)), LL=38 PL=12 PI=26 NMC=22.2 %#200=49.5		153.5	SS-33	9	12	12	24	
	-160.0									
160.0		Very stiff, gray, SANDY LEAN CLAY (CL)		158.5	SS-34	2	9	11	20	
	-165.0									
165.0		Very stiff		163.5	SS-35	5	9	9	18	
	-170.0									
170.0		Very stiff		168.5	SS-36	4	10	15	25	
	-175.0									
175.0		Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(4)), LL=28 PL=15 PI=13 NMC=18.0 %#200=56.6		173.5	SS-37	8	14	23	37	
		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, FAT CLAY (CH)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Very soft	3.0	SS-3	0	0	0	0
5.0	-10.0	Very soft, wet, black, with few sand, FAT CLAY (CH, A-7-5(148)), LL=184 PL=44 PI=140 NMC=189.1 %#200=90.1	4.5	SS-4	0	0	0	0
		Very soft	6.0	SS-5	0	0	0	0
		Very soft, dark gray	8.5	SS-6	0	0	0	0
10.0	-15.0							
		Undisturbed sample obtained from 13.0 to 15.0 feet. Approximately 24 inches of recovery.	13.0	T-1				
15.0	-20.0	Very soft, wet, dark gray, with trace sand, FAT CLAY (CH, A-7-5(103)), LL=125 PL=40 PI=85 NMC=119.0 %#200=99.0						
		Very soft, with trace sand	18.5	SS-7	0	0	0	0
20.0	-25.0							
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery.	23.0	T-2				
25.0	-30.0	Very soft, wet, gray, with trace sand, FAT CLAY (CH, A-7-5(85)), LL=109 PL=36 PI=73 NMC=113.0 %#200=97.1						
		Very soft, with trace sand and trace wood	28.5	SS-8	0	0	0	0
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
		Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Very loose, wet, gray, fine grained, CLAYEY SAND (SC, A-6(1)), LL=28 PL=12 PI=16 NMC=31.5 %#200=36.2		33.0	T-3					
35.0	-40.0	Very loose		38.5	SS-9	2	1	1	2	
40.0	-45.0	Loose, moist, tan, fine to medium grained, with trace clay, POORLY GRADED SAND with SILT (SP-SM)		43.5	SS-10	2	3	4	7	
45.0	-50.0	Loose, moist, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.3 %#200=5.1		48.5	SS-11	2	2	2	4	
50.0	-55.0	Very loose, moist, pale brown, fine grained, POORLY GRADED SAND (SP)		53.5	SS-12	1	1	2	3	
55.0	-60.0	Medium dense, with trace gravel		58.5	SS-13	5	6	7	13	
60.0										

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0	-65.0									
65.0	-70.0	Dense, moist, reddish brown, fine to coarse grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=3.7		63.5	SS-14	7	16	25	41	
70.0	-75.0	Top of spoon: Loose Bottom of spoon: Firm, moist, white, with trace sand, LEAN CLAY (CL)		68.5	SS-15	6	4	3	7	
75.0	-80.0	Undisturbed sample obtained from 73.5 to 75.5 feet. Approximately 6 inches of recovery. Moist, tan, fine to medium grained, POORLY GRADED SAND (SP)		73.5	T-4					
80.0	-85.0	Medium dense, moist, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.6 %#200=3.5		78.5	SS-16	11	13	16	29	
85.0	-90.0	Loose, tan, fine grained		83.5	SS-17	6	4	3	7	
90.0		Undisturbed sample obtained from 88.0 to 90.0 feet. Approximately 24 inches of recovery. Very stiff, moist, greenish gray, SANDY LEAN CLAY		88.0	T-5					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0	(CL, A-6(16)), LL=40 PL=14 PI=26 NMC=17.7 %#200=69.7								
95.0	-100.0	Dense, moist, greenish gray, fine grained, with trace clay, POORLY GRADED SAND with SILT (SP-SM)		93.5	SS-18	19	21	19	40	
100.0	-105.0	Undisturbed sample obtained from 98.0 to 100.0 feet. Approximately 24 inches of recovery. Moist, green, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.0 %#200=11.7		98.0	T-6					
105.0	-110.0	Dense, gray		103.5	SS-19	18	18	17	35	
110.0	-115.0	Very stiff, moist, greenish gray, LEAN CLAY (CL)		108.5	SS-20	5	8	10	18	
		Undisturbed sample obtained from 110.0 to 112.0 feet. Approximately 24 inches of recovery. Moist, green, with few sand, LEAN CLAY (CL, A-7-6(28)), LL=47 PL=19 PI=28 NMC=22.2 %#200=93.3		110.0	T-7					
115.0	-120.0	Very stiff, gray, LEAN CLAY with SAND (CL, A-6(17)), LL=36 PL=12 PI=24 NMC=20.0 %#200=78.3		113.5	SS-21	16	13	13	26	
120.0		Undisturbed sample obtained from 118.0 to 120.0 feet. Approximately 24 inches of recovery. Hard, moist, greenish gray, with few sand, LEAN		118.0	T-8					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0	-125.0	CLAY (CL, A-6(23)), LL=40 PL=13 PI=27 NMC=17.0 %#200=87.1								
125.0	-130.0	Hard, moist, light gray, with trace sand, LEAN CLAY (CL, A-6(13)), LL=30 PL=15 PI=15 NMC=23.7 %#200=94.7		123.5	SS-22	11	19	21	40	
130.0	-135.0	Very stiff, with trace sand lenses		128.5	SS-23	7	8	13	21	
135.0	-140.0	Very stiff, with trace sand		133.5	SS-24	4	7	12	19	
140.0	-145.0	Undisturbed sample obtained from 138.0 to 140.0 feet. Approximately 20 inches of recovery. Moist, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.7 %#200=20.9		138.0	T-9					
145.0	-150.0	Hard, moist, green, SANDY FAT CLAY (CH)		143.5	SS-25	14	17	20	37	
150.0		Hard, light greenish gray		148.5	SS-26	13	17	19	36	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-10	**Boring Location:**	593+02.4	**Offset:**	RT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250909.526	**Easting:**	1806525.406	**Date Started:**	3/28/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/30/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
150.0	-155.0									
155.0	-160.0	Hard, moist, greenish gray, FAT CLAY with SAND (CH, A-7-6(25)), LL=50 PL=16 PI=34 NMC=20.1 %#200=75.6		153.5	SS-27	17	18	21	39	
160.0	-165.0	Very stiff, moist, gray, with trace sand lenses, LEAN CLAY (CL)		158.5	SS-28	8	12	16	28	
165.0	-170.0	Very stiff, light greenish gray Undisturbed sample obtained from 165.0 to 165.0 feet. Approximately 24 inches of recovery. Hard, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(32)), LL=48 PL=14 PI=34 NMC=26.3 %#200=91.6		163.5	SS-29	5	8	11	19	
170.0	-175.0	Hard		165.0	T-10					
175.0		Hard		168.5	SS-30	10	20	21	41	
		Boring Terminated at 175.0 feet.		173.5	SS-31	13	14	17	31	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery		0.0	SS-1	0	0	0	0
		Very soft, wet, brown and black, FAT CLAY (CH)		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0	-5.0	Very soft, wet, brown and black, with trace sand, FAT CLAY (CH, A-7-5(149)), LL=165 PL=40 PI=125 NMC=177.4 %#200=98.5		4.5	SS-4	0	0	0	0
		Very soft		6.0	SS-5	0	0	0	0
				8.5	SS-6	0	0	0	0
10.0	-10.0	Very soft							
				13.5	SS-7	0	0	0	0
15.0	-15.0	Very soft, wet, gray, LEAN CLAY with SAND (CL, A-6(10)), LL=33 PL=18 PI=15 NMC=34.5 %#200=75.0							
				18.0	T-1				
20.0	-20.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Soft, wet, gray, SANDY FAT CLAY (CH, A-7-6(22)), LL=54 PL=18 PI=36 NMC=46.7 %#200=66.4							
		Very soft		23.5	SS-8	0	0	0	0
25.0	-25.0								
		Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery.		28.0	T-2				
30.0	-30.0	Very loose, wet, gray, fine to medium grained,							

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	CLAYEY SAND (SC, A-2-6(3)), LL=40 PL=13 PI=27 NMC=31.6 %#200=31.7 Very loose, moist, light gray		33.5	SS-9	0	0	0	0	
40.0	-40.0	Medium dense, wet, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.6 %#200=7.7		38.5	SS-10	2	4	7	11	
45.0	-45.0	Medium dense, grayish brown		43.5	SS-11	4	6	8	14	
50.0	-50.0	Dense, tan and grayish brown		48.5	SS-12	10	15	20	35	
55.0	-55.0	Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=4.1		53.5	SS-13	7	12	15	27	
60.0	-60.0	Medium dense		58.5	SS-14	5	7	8	15	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Medium dense		63.5	SS-15	4	5	6	11	
70.0	-70.0	Dense, wet, pale brown, medium grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=1.4		68.5	SS-16	9	16	17	33	
75.0	-75.0	Dense, yellowish brown		73.5	SS-17	10	18	22	40	
80.0	-80.0	Medium dense, tan, fine grained		78.5	SS-18	13	13	15	28	
85.0	-85.0	Medium dense, moist, brown and gray, fine grained, CLAYEY SAND (SC, A-6(8)), LL=39 PL=13 PI=26 NMC=22.1 %#200=49.3 Undisturbed sample was attempted from 85.0 to 87.0 feet. No Recovery.		83.5	SS-19	6	8	10	18	
				85.0	T-3					
90.0	-90.0	Very stiff, moist, brown and bluish gray, with trace sand, LEAN CLAY (CL)		88.5	SS-20	4	8	10	18	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
		Undisturbed sample obtained from 90.0 to 92.0 feet. Approximately 24 inches of recovery. Moist, bluish gray and tan, with trace sand		90.0	T-4					
95.0	-95.0	Very stiff, moist, brown and bluish gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=30.6 %#200=72.7		93.5	SS-21	3	12	13	25	
100.0	-100.0	Dense, moist, light brown and bluish gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=34 PL=12 PI=22 NMC=33.1 %#200=41.6		98.5	SS-22	19	19	19	38	
		Undisturbed sample obtained from 100.0 to 102.0 feet. Approximately 24 inches of recovery. Very stiff, moist, bluish gray and brown, with trace sand, FAT CLAY (CH, A-7-6(59)), LL=73 PL=21 PI=52 NMC=25.1 %#200=97.0		100.0	T-5					
105.0	-105.0	Very stiff		103.5	SS-23	4	7	10	17	
		Undisturbed sample obtained from 105.0 to 107.0 feet. Approximately 24 inches of recovery. Moist, gray and brown, with trace sand, FAT CLAY (CH, A-7-6(38)), LL=55 PL=15 PI=40 NMC=24.7 %#200=91.3		105.0	T-6					
110.0	-110.0	Very stiff, green		108.5	SS-24	4	8	12	20	
115.0	-115.0	Undisturbed sample was attempted from 115.0 to 117.0 feet. No Recovery.		115.0	T-7					
		Very stiff, moist, green, LEAN CLAY (CL)		117.0	SS-25	7	11	16	27	
120.0	-120.0	Hard, greenish gray, SANDY LEAN CLAY (CL, A-6(5)), LL=33 PL=18 PI=15 NMC=21.2 %#200=51.7		118.5	SS-26	10	15	20	35	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-125.0	Hard, green		123.5	SS-27	10	14	20	34	
130.0	-130.0	Top of spoon: Very dense, moist, greenish gray, fine grained, CLAYEY SAND (SC)		128.5	SS-28	16	26	42	68	
		Bottom of spoon: Very dense, moist, gray, fine grained, SILTY SAND (SM)								
135.0	-135.0	Dense, moist, greenish gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=24.3 %#200=37.4		133.5	SS-29	13	17	26	43	
140.0	-140.0	Medium dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=60.5 %#200=44.6		138.5	SS-30	8	7	8	15	
145.0	-145.0	Dense, with trace clay		143.5	SS-31	14	19	16	35	
150.0	-150.0	Dense, brown and gray, with trace clay		148.5	SS-32	12	19	30	49	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-11	**Boring Location:**	597+87.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/M. Davis
Elev.:	-0.5 ft.	**Northing:**	250806.446	**Easting:**	1806795.629	**Date Started:**	4/8/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/11/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
155.0	-155.0	Medium dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=31.6 %#200=8.4		153.5	SS-33	4	9	17	26	
160.0	-160.0	Undisturbed sample was attempted from 158.0 to 160.0 feet. No Recovery.		158.0	T-8					
		Stiff, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(7)), LL=30 PL=12 PI=18 NMC=22.7 %#200=57.9		160.0	SS-34	5	3	6	9	
		Undisturbed sample was attempted from 161.5 to 163.5 feet. No Recovery.		161.5	T-9					
165.0	-165.0	Medium dense, moist, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=20.2 %#200=20.1		163.5	SS-35	8	13	16	29	
170.0	-170.0	Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=10.9		168.5	SS-36	26	47	50/4	100+	>>
175.0	-175.0	Very dense		173.5	SS-37	46	50	X	50+	>>
		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, moist, black, fine grained, CLAYEY SAND (SC)		1.5	SS-2	0	0	0	0
		Very loose, moist, black, fine grained, CLAYEY SAND (SC, A-7-5(31)), LL=128 PL=40 PI=88 NMC=192.2 %#200=45.7		3.0	SS-3	0	0	0	0
5.0	-10.0	Very loose, black and dark gray		4.5	SS-4	0	0	0	0
		Very loose, moist, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=37.2 %#200=27.3		6.0	SS-5	0	0	0	0
		Very loose		8.5	SS-6	0	0	0	0
10.0	-15.0								
		Very loose, moist, dark gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=33.8 %#200=47.8		13.5	SS-7	0	0	0	0
15.0	-20.0								
		Very soft, moist, dark gray, SANDY LEAN CLAY (CL)		18.5	SS-8	0	0	0	0
20.0	-25.0								
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Gray		23.0	T-1				
25.0	-30.0								
		Very loose, moist, dark gray, fine grained, CLAYEY SAND (SC)		28.5	SS-9	0	0	0	0
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
35.0	-40.0	Undisturbed sample attempted from 33.0 to 35.0 feet. Tube initially pushed approximately 18 inches with refusal and crushed tube. Wood was encountered in the bottom of the tube which may have caused refusal. Sample collected from the top of the tube and bagged for classification. Moist, gray, fine grained, with trace gravel and wood, CLAYEY SAND (SC, A-6(5)) Note: Large piece of wood encountered which bent the bottom of the tube., LL=35 PL=12 PI=23 NMC=31.5 %#200=43.4		33.0	T-2					
40.0	-45.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Light gray, moist, fine grained, with trace wood, POORLY GRADED SAND (SP)		38.0	T-3					
45.0	-50.0	Medium dense, light pale brown		43.5	SS-10	1	6	11	17	
50.0	-55.0	Medium dense		48.5	SS-11	8	13	12	25	
55.0	-60.0	Medium dense, moist, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=26.1 %#200=3.1		53.5	SS-12	8	9	14	23	
60.0		Medium dense		58.5	SS-13	3	5	7	12	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0	-65.0									
65.0	-70.0	Medium dense		63.5	SS-14	4	8	10	18	
70.0	-75.0	Medium dense, moist, pale brown, medium to fine grained, with trace gravel and trace clay, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.9 %#200=7.3		68.5	SS-15	9	10	13	23	
75.0	-80.0	Medium dense, gray		73.5	SS-16	5	5	9	14	
80.0	-85.0	Medium dense, light gray		78.5	SS-17	8	12	14	26	
85.0	-90.0	Medium dense		83.5	SS-18	8	14	13	27	
90.0		Undisturbed sample obtained from 88.0 to 90.0 feet. Approximately 24 inches of recovery. Moist, olive, with few sand, FAT CLAY with GRAVEL		88.0	T-4					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-95.0	(CH, A-7-6(35)), LL=61 PL=16 PI=45 NMC=21.2 %#200=77.8						
		Very stiff, green	93.5	SS-19	4	7	17	24
95.0	-100.0							
		Undisturbed sample obtained from 98.0 to 100.0 feet. Approximately 19 inches of recovery. Moist, olive gray, LEAN CLAY with SAND (CL, A-7-6(16)), LL=44 PL=19 PI=25 NMC=34.4 %#200=70.9	98.0	T-5				
100.0	-105.0							
		Stiff, green	103.5	SS-20	4	5	9	14
105.0	-110.0	Undisturbed sample obtained from 105.0 to 107.0 feet. Approximately 24 inches of recovery. Very stiff, moist, olive gray, with few sand, LEAN CLAY (CL, A-7-6(33)), LL=49 PL=14 PI=35 NMC=25.0 %#200=91.8	105.0	T-6				
		Stiff, green	108.5	SS-21	1	7	9	16
110.0	-115.0							
		Undisturbed sample obtained from 113.0 to 115.0 feet. Approximately 24 inches of recovery. Hard, moist, olive gray, SANDY LEAN CLAY (CL, A-6(9)), LL=33 PL=12 PI=21 NMC=22.8 %#200=58.6	113.0	T-7				
115.0	-120.0							
		Hard, greenish gray	118.5	SS-22	9	14	19	33
120.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-125.0									
125.0	-130.0	Undisturbed sample obtained from 123.0 to 125.0 feet. Approximately 24 inches of recovery. Moist, olive gray, LEAN CLAY with SAND (CL, A-6(19)), LL=39 PL=13 PI=26 NMC=37.3 %#200=78.7		123.0	T-8					
130.0	-135.0	Very dense, moist, light gray, fine grained, SILTY SAND (SM)		128.5	SS-23	29	50	X	50+	>>
135.0	-140.0	Medium dense, moist, light gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=36.6		133.5	SS-24	7	13	16	29	
140.0	-145.0	Very stiff, moist, greenish gray, FAT CLAY with SAND (CH) Undisturbed sample obtained from 140.0 to 142.0 feet. Approximately 24 inches of recovery. Hard, moist, olive, FAT CLAY with SAND (CH, A-7-6(29)), LL=55 PL=19 PI=36 NMC=21.6 %#200=79.3		138.5	SS-25	7	9	10	19	
				140.0	T-9					
145.0	-150.0	Very stiff, greenish gray		143.5	SS-26	6	11	13	24	
150.0		Undisturbed sample obtained from 148.0 to 150.0 feet. Approximately 18 inches of recovery. Moist, olive gray, SANDY SILT (ML, A-4(0)), LL=NP		148.0	T-10					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-12	**Boring Location:**	598+48.9	**Offset:**	RT 13.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-4.5 ft.	**Northing:**	250805.731	**Easting:**	1807040.097	**Date Started:**	4/12/2017
Total Depth:	175.0 ft.	**Soil Depth:**	175.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/21/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0	-155.0	PL=NP PI=NP NMC=19.2 %#200=66.0								
		Dense, moist, greenish gray, fine grained, CLAYEY SAND (SC)		153.5	SS-27	11	15	20	35	●
155.0	-160.0									
		Undisturbed sample obtained from 158.0 to 160.0 feet. Approximately 24 inches of recovery. Moist, olive gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=34 PL=13 PI=21 NMC=17.8 %#200=45.4		158.0	T-11					×○—×— ▲
160.0	-165.0									
		Medium dense, greenish gray		163.5	SS-28	7	8	11	19	●
165.0	-170.0									
		Medium dense, moist, gray, fine grained, POORLY GRADED SAND with CLAY (SP-SC, A-2-6(0)), LL=30 PL=15 PI=15 NMC=21.2 %#200=7.4		168.5	SS-29	6	8	12	20	▲ ×—●—×
170.0	-175.0									
		Medium dense, greenish gray		173.5	SS-30	8	12	13	25	●
175.0		Boring Terminated at 175.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0	-5.0	Very soft, wet, black, FAT CLAY with SAND (CH)		0.0	SS-1	0	0	0	0	
		Very soft		1.5	SS-2	0	0	0	0	
		Very soft, wet, black, FAT CLAY with SAND (CH), NMC=199.5 %#200=74.4		3.0	SS-3	0	0	0	0	▲
5.0	-10.0	Very soft		4.5	SS-4	0	0	0	0	
		Very soft		6.0	SS-5	0	0	0	0	
				8.5	SS-6	0	0	0	0	
10.0	-15.0	Very soft, wet, black, FAT CLAY with SAND (CH, A-7-6(27)), LL=57 PL=27 PI=30 NMC=81.0 %#200=81.6								
15.0	-20.0	Undisturbed sample obtained from approximately 13.5 to 15.5 feet. Approximately 20 inches of recovery. Moist, dark gray		13.5	T-1					
		Very soft		18.5	SS-7	0	0	0	0	
20.0	-25.0									
25.0	-30.0	Undisturbed sample obtained from approximately 23.5 to 25.5 feet. Approximately 24 inches of recovery. Wet, dark gray, fine grained, CLAYEY SAND (SC)		23.5	T-2					
		Very loose, wet, brown, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=29 PL=12 PI=17 NMC=32.4		28.5	SS-8	0	0	0	0	
30.0	-35.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0	%#200=29.1								
35.0	-40.0	Undisturbed sample obtained from approximately 33.5 to 35.5 feet. Approximately 24 inches of recovery. Dark gray		33.5	T-3					
40.0	-45.0	Loose, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)		38.5	SS-9	2	4	5	9	●
45.0	-50.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		43.5	SS-10	5	8	12	20	●
50.0	-55.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=2.7		48.5	SS-11	6	6	10	16	▲ ● ○
55.0	-60.0	Medium dense		53.5	SS-12	8	9	11	20	●
60.0	-65.0	Dense		58.5	SS-13	12	17	20	37	●

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-65.0								
		Medium dense, with trace gravel		63.5	SS-14	6	8	10	18
65.0	-70.0								
		Medium dense, wet, brown, fine to medium grained, CLAYEY SAND (SC, A-2-7(7)), LL=75 PL=25 PI=50 NMC=46.7 %#200=32.4		68.5	SS-15	8	13	14	27
70.0	-75.0								
		Undisturbed sample obtained from approximately 73.5 to 75.5 feet. Approximately 12 inches of recovery. Light brown		73.5	T-4				
75.0	-80.0								
		Dense, with trace gravel		78.5	SS-16	23	22	16	38
80.0	-85.0								
		Hard, moist, bluish green, LEAN CLAY with SAND (CL)		83.5	SS-17	10	19	23	42
85.0	-90.0								
		Very stiff		88.5	SS-18	5	9	9	18
90.0	-95.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0	-100.0	Dense, moist, bluish green, fine grained, POORLY GRADED SAND (SP)		93.5	SS-19	20	29	33	62	
100.0	-105.0	Very stiff, moist, bluish green, with trace sand, FAT CLAY (CH, A-7-6(54)), LL=71 PL=20 PI=51 NMC=28.5 %#200=95.3		98.5	SS-20	5	9	11	20	
105.0	-110.0	Dense, moist, bluish green, fine grained, CLAYEY SAND (SC, A-6(5)), LL=33 PL=12 PI=21 NMC=21.0 %#200=45.6		103.5	SS-21	19	19	16	35	
110.0	-115.0	Very stiff, moist, gray, LEAN CLAY with SAND (CL)		108.5	SS-22	8	10	12	22	
115.0	-120.0	Hard		113.5	SS-23	11	17	23	40	
120.0	-125.0	Hard		118.5	SS-24	14	16	18	34	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-125.0									
125.0	-130.0	Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-7-6(18)), LL=41 PL=14 PI=27 NMC=21.5 %#200=72.8		123.5	SS-25	10	12	13	25	
130.0	-135.0	Dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		128.5	SS-26	14	22	25	47	
135.0	-140.0	Very stiff, moist, gray, SANDY LEAN CLAY (CL)		133.5	SS-27	9	12	15	27	
140.0	-145.0	Hard		138.5	SS-28	13	16	22	38	
145.0	-150.0	Hard		143.5	SS-29	16	21	23	44	
150.0	-155.0	Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=33 PL=11 PI=22 NMC=13.3 %#200=64.0		148.5	SS-30	24	32	34	66	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0	-155.0							
			153.5	SS-31	12	12	14	26
155.0	-160.0	Medium dense, moist, gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=28 PL=13 PI=15 NMC=22.8 %#200=49.3						
			158.5	SS-32	5	8	11	19
160.0	-165.0	Medium dense						
			163.5	SS-33	13	9	12	21
165.0	-170.0	Medium dense						
			168.5	SS-34	6	8	11	19
170.0	-175.0	Very stiff, moist, gray, with little sand, LEAN CLAY (CL, A-6(16)), LL=34 PL=14 PI=20 NMC=17.8 %#200=86.6						
			173.5	SS-35	8	8	11	19
175.0	-180.0	Very stiff						
			178.5	SS-36	9	12	18	30
180.0	-185.0	Very stiff						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
180.0	-185.0								
185.0	-190.0	Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=38 PL=16 PI=22 NMC=22.9 %#200=51.2		183.5	SS-37	19	25	27	52
190.0	-195.0	Hard		188.5	SS-38	22	25	29	54
195.0	-200.0	Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=34 PL=12 PI=22 NMC=16.4 %#200=64.1		193.5	SS-39	14	15	18	33
200.0	-205.0	Very stiff		198.5	SS-40	8	8	12	20
205.0	-210.0								
210.0	-215.0	Stiff		208.5	SS-41	7	6	8	14

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%)
210.0	-215.0									
215.0	-220.0									
		Medium dense, moist, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=20.6 %#200=40.9		218.5	SS-42	16	13	14	27	
220.0	-225.0									
225.0	-230.0									
		Medium dense, wet		228.5	SS-43	6	7	8	15	
230.0	-235.0									
235.0	-240.0									
		Hard, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=20.1 %#200=56.7		238.5	SS-44	14	20	36	56	
240.0	-245.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-13	**Boring Location:**	602+29.3	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-5.0 ft.	**Northing:**	250701.812	**Easting:**	1807406.351	**Date Started:**	12/13/2016
Total Depth:	250.0 ft.	**Soil Depth:**	250.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
240.0	-245.0									
245.0	-250.0									
250.0	-255.0	Very dense, moist, gray, fine grained, POORLY GRADED SAND (SP)		248.5	SS-45	42	50/4	X	50+	>>
		Boring Terminated at 250.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, SANDY FAT CLAY (CH)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Very soft, wet, black, with trace organics, SANDY FAT CLAY (CH, A-7-6(36)), LL=91 PL=21 PI=70 NMC=124.7 %#200=58.4	3.0	SS-3	0	0	0	0
5.0	-10.0	Very soft	4.5	SS-4	0	0	0	0
		Top of spoon: Very soft	6.0	SS-5	0	0	0	0
		Bottom of spoon: Very loose, wet, gray, fine grained, SILTY SAND (SM)						
		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=30.6 %#200=35.6	8.5	SS-6	0	1	2	3
10.0	-15.0							
		Very loose	13.5	SS-7	0	0	0	0
15.0	-20.0							
		Very soft, wet, gray, SANDY LEAN CLAY (CL, A-7-6(14)), LL=46 PL=14 PI=32 NMC=40.2 %#200=56.7	18.5	SS-8	0	0	0	0
20.0	-25.0							
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Very loose, wet, brown and gray, fine grained, CLAYEY SAND (SC, A-6(2)), LL=30 PL=14 PI=16 NMC=30.8 %#200=38.4	23.0	T-1				
25.0	-30.0							
		Very loose	28.5	SS-9	0	0	0	0
30.0	-35.0							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0									
35.0	-40.0	Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.1 %#200=16.1		33.0	T-2					
40.0	-45.0	Medium dense, wet, pale brown, fine grained, POORLY GRADED SAND (SP)		38.5	SS-10	5	9	12	21	
45.0	-50.0	Medium dense, wet, white, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=26.2 %#200=2.8		43.5	SS-11	7	7	8	15	
50.0	-55.0	Medium dense, light gray		48.5	SS-12	9	11	12	23	
55.0	-60.0	Medium dense, medium to coarse grained, with trace clay		53.5	SS-13	7	9	10	19	
60.0	-65.0	Dense, pale brown, fine to medium grained		58.5	SS-14	13	17	17	34	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-65.0									
				63.5						
65.0	-70.0	Medium dense, wet, pale brown, medium grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.4 %#200=3.0			SS-15	8	9	10	19	
				68.5						
70.0	-75.0	Firm, wet, gray, FAT CLAY with SAND (CH)			SS-16	2	3	4	7	
				73.0						
75.0	-80.0	Undisturbed sample obtained from 73.0 to 75.0 feet. Approximately 24 inches of recovery. Firm, wet, gray, FAT CLAY with SAND (CH, A-7-6(26)), LL=55 PL=16 PI=39 NMC=44.1 %#200=71.5			T-3					
				78.5						
80.0	-85.0	Dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP)			SS-17	14	14	18	32	
				83.5						
85.0	-90.0	Medium dense, light grayish brown, with trace clay			SS-18	10	8	12	20	
				88.5						
90.0	-95.0	Dense, wet, light brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)),			SS-19	16	20	24	44	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0	LL=NP PL=NP PI=NP NMC=21.6 %#200=4.3								
		Dense		93.5	SS-20	10	14	17	31	
95.0	-100.0									
		Medium dense		98.5	SS-21	10	12	12	24	
100.0	-105.0									
		Dense, gray, medium to coarse grained		103.5	SS-22	17	16	17	33	
105.0	-110.0									
		Dense, wet, gray, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.0 %#200=3.7		108.5	SS-23	9	17	18	35	
110.0	-115.0									
		Hard, moist, gray, FAT CLAY (CH)		113.5	SS-24	10	15	18	33	
115.0	-120.0									
		Hard, with trace sand		118.5	SS-25	12	16	21	37	
120.0	-125.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-125.0									
125.0	-130.0	Hard, moist, gray, with little sand, FAT CLAY (CH, A-7-6(33)), LL=54 PL=17 PI=37 NMC=18.3 %#200=86.6		123.5	SS-26	14	18	23	41	
130.0	-135.0	Very stiff		128.5	SS-27	8	11	14	25	
135.0	-140.0	Hard, with trace sand		133.5	SS-28	8	13	31	44	
140.0	-145.0	Very stiff		138.5	SS-29	8	12	17	29	
145.0	-150.0	Hard, moist, gray, with little sand, LEAN CLAY (CL, A-7-6(31)), LL=49 PL=13 PI=36 NMC=18.1 %#200=85.7		143.5	SS-30	15	20	27	47	
150.0	-155.0	Hard		148.5	SS-31	16	22	28	50	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-14	**Boring Location:**	604+61.5	**Offset:**	RT 04.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher/C. Lafroscia
Elev.:	-5.0 ft.	**Northing:**	250621.204	**Easting:**	1807624.275	**Date Started:**	12/7/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-15	**Boring Location:**	607+59.4	**Offset:**	LT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250569.256	**Easting:**	1807920.95	**Date Started:**	12/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, SILT with SAND (ML)	0.0	SS-1	0	0	0	0
		Very soft, wet, black, with trace organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=170.8 %#200=82.3	1.5	SS-2	0	0	0	0
		Very soft, brown and black	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, brown and black, fine grained, CLAYEY SAND (SC)	4.5	SS-4	0	0	0	0
	-10.0	Very loose, wet, brown and black, fine grained, CLAYEY SAND (SC, A-7-6(6)), LL=46 PL=19 PI=27 NMC=84.7 %#200=41.5	6.0	SS-5	0	0	0	0
		Loose, wet, brown and black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.0 %#200=30.3	8.5	SS-6	4	5	5	10
10.0	-15.0							
		Very soft, wet, brown, SANDY FAT CLAY (CH)	13.5	SS-7	0	0	0	0
15.0	-20.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC, A-7-6(10)), LL=44 PL=13 PI=31 NMC=37.8 %#200=48.2	18.5	T-1				
20.0	-25.0							
		Very loose	23.5	SS-8	0	0	0	0
25.0	-30.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.	28.5	T-2				
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-15	**Boring Location:**	607+59.4	**Offset:**	LT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250569.256	**Easting:**	1807920.95	**Date Started:**	12/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Very loose, wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.6 %#200=26.4								
35.0		Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.5 %#200=13.5		33.5	SS-9	0	0	0	0	
	-40.0									
40.0		Dense, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		38.5	SS-10	10	14	19	33	
	-45.0									
45.0		Medium dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.9 %#200=10.9		43.5	SS-11	5	5	8	13	
	-50.0									
50.0		Medium dense, fine to medium grained		48.5	SS-12	11	11	17	28	
	-55.0									
55.0		Medium dense		53.5	SS-13	4	7	7	14	
	-60.0									
60.0		Medium dense, wet, brown, fine to medium grained, with few gravel, POORLY GRADED SAND with SILT		58.5	SS-14	7	10	9	19	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-15	**Boring Location:**	607+59.4	**Offset:**	LT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250569.256	**Easting:**	1807920.95	**Date Started:**	12/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	(SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.8 %#200=7.8								
65.0		Firm, wet, gray, with trace sand, FAT CLAY (CH, A-7-6(47)), LL=63 PL=19 PI=44 NMC=36.1 %#200=96.1		63.5	SS-15	0	3	3	6	
	-70.0									
70.0		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 24 inches of recovery. Wet, dark gray and brown, with trace gravel, SANDY FAT CLAY (CH)		68.5	T-3					
	-75.0									
75.0		Medium dense, wet, brown, fine grained, with trace clay, POORLY GRADED SAND (SP)		73.5	SS-16	0	7	13	20	
	-80.0									
80.0		Stiff, moist, brown and gray, LEAN CLAY with SAND (CL, A-6(17)), LL=37 PL=14 PI=23 NMC=38.1 %#200=80.6		78.5	SS-17	1	4	8	12	
	-85.0									
85.0		Medium dense, wet, yellowish brown and brown, fine to medium grained, POORLY GRADED SAND (SP)		83.5	SS-18	9	10	11	21	
	-90.0									
90.0		Medium dense, brown		88.5	SS-19	14	13	11	24	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-15	**Boring Location:**	607+59.4	**Offset:**	LT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250569.256	**Easting:**	1807920.95	**Date Started:**	12/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Dense, moist, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.0 %#200=4.0		93.5	SS-20	13	18	23	41	
100.0	-100.0	Medium dense		98.5	SS-21	12	12	15	27	
105.0	-105.0	Dense		103.5	SS-22	12	16	16	32	
110.0	-110.0	Very stiff, moist, gray, FAT CLAY (CH)		108.5	SS-23	8	11	13	24	
115.0	-115.0	Hard, moist, gray, with little sand, FAT CLAY (CH, A-7-6(28)), LL=50 PL=18 PI=32 NMC=18.0 %#200=85.6		113.5	SS-24	11	17	21	38	
120.0	-120.0	Hard		118.5	SS-25	9	16	20	36	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-15	**Boring Location:**	607+59.4	**Offset:**	LT 39.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250569.256	**Easting:**	1807920.95	**Date Started:**	12/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Dense, moist, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=13.0		123.5	SS-26	13	20	27	47	
125.0	-130.0									
		Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-6(11)), LL=35 PL=18 PI=17 NMC=26.2 %#200=74.3		128.5	SS-27	7	11	19	30	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-16	**Boring Location:**	611+38.5	**Offset:**	LT 04.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250416.365	**Easting:**	1808269.489	**Date Started:**	11/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, No Recovery		0.0	SS-1	0	0	0	0
		Very soft, wet, black, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=99.6 %#200=77.7		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-10.0	Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=36.7 %#200=24.5		6.0	SS-5	0	0	2	2
		Loose		8.5	SS-6	2	3	3	6
10.0	-15.0								
		Very soft, wet, brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=36.6 %#200=60.6		13.5	SS-7	0	0	0	0
15.0	-20.0								
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, SANDY FAT CLAY (CH, A-7-6(18)), LL=50 PL=16 PI=34 NMC=40.9 %#200=60.6		18.5	T-1				
20.0	-25.0								
		Very soft, wet, brown		23.5	SS-8	0	0	0	0
25.0	-30.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-16	**Boring Location:**	611+38.5	**Offset:**	LT 04.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250416.365	**Easting:**	1808269.489	**Date Started:**	11/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%)
30.0										10 20 30 40 50 60 70 80 90
	-35.0	Wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.6 %#200=13.0								
		Soft, wet, brown, FAT CLAY (CH)		33.5	SS-9	0	1	3	4	
35.0	-40.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Stiff, wet, brown, with trace sand, FAT CLAY (CH, A-7-6(95)), LL=105 PL=20 PI=85 NMC=32.9 %#200=98.4		38.5	T-3					
40.0	-45.0									
		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 20 inches of recovery. Wet, greenish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.5 %#200=6.7		43.5	T-4					
45.0	-50.0									
		Dense, wet, brown, fine grained, SILTY SAND (SM)		48.5	SS-10	10	17	18	35	
50.0	-55.0									
		Medium dense, wet, brown, medium to fine grained, SILTY SAND (SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=19.4		53.5	SS-11	6	10	10	20	
55.0	-60.0									
		Medium dense, brown and gray, with trace clay		58.5	SS-12	4	6	5	11	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-16	**Boring Location:**	611+38.5	**Offset:**	LT 04.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250416.365	**Easting:**	1808269.489	**Date Started:**	11/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Medium dense, wet, brown, fine to medium grained, with trace gravel, CLAYEY SAND (SC)		63.5	SS-13	4	6	5	11	
70.0	-70.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)		68.5	SS-14	9	12	13	25	
75.0	-75.0	Medium dense		73.5	SS-15	7	6	8	14	
80.0	-80.0	Dense, wet, brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.5 %#200=3.9		78.5	SS-16	9	15	16	31	
85.0	-85.0	Medium dense, fine grained		83.5	SS-17	5	8	10	18	
90.0	-90.0	Medium dense, yellowish brown and brown, fine to medium grained		88.5	SS-18	9	9	10	19	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-16	**Boring Location:**	611+38.5	**Offset:**	LT 04.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250416.365	**Easting:**	1808269.489	**Date Started:**	11/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0									
	-95.0								
		Dense		93.5	SS-19	13	18	16	34
95.0									
	-100.0								
		Dense, brown		98.5	SS-20	14	23	25	48
100.0									
	-105.0								
		Very dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=18.7 %#200=4.3		103.5	SS-21	17	26	25	51
105.0									
	-110.0								
		Top of spoon: Medium dense, brown and yellowish brown		108.5	SS-22	14	10	11	21
110.0		Bottom of spoon: Very stiff, moist, gray, LEAN CLAY (CL)							
	-115.0								
		Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-6(20)), LL=39 PL=12 PI=27 NMC=18.2 %#200=80.4		113.5	SS-23	7	13	16	29
115.0									
	-120.0								
		Very stiff		118.5	SS-24	7	12	14	26
120.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-16	**Boring Location:**	611+38.5	**Offset:**	LT 04.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.5 ft.	**Northing:**	250416.365	**Easting:**	1808269.489	**Date Started:**	11/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Very stiff, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(27)), LL=47 PL=17 PI=30 NMC=20.9 %#200=88.3		123.5	SS-25	7	11	14	25	
125.0										
	-130.0									
		Very stiff		128.5	SS-26	10	12	14	26	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-17	**Boring Location:**	613+39.8	**Offset:**	RT 21.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-10.5 ft.	**Northing:**	250328.485	**Easting:**	1808452.457	**Date Started:**	6/6/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/8/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)	1.5	SS-2	0	0	0	0
		Very loose	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, wet, gray, fine grained, SILTY SAND (SM)	4.5	SS-4	0	0	0	0
		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.1 %#200=31.8	6.0	SS-5	0	1	1	2
		Very loose	8.5	SS-6	0	0	0	0
10.0	-20.0							
			13.5	SS-7	0	0	0	0
15.0	-25.0	Very loose, wet, gray, fine grained, CLAYEY SAND (SC)						
			18.0	T-1				
20.0	-30.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Very loose, wet, brown, fine grained, CLAYEY SAND (SC, A-6(7)), LL=39 PL=15 PI=24 NMC=36.9 %#200=47.9						
		Very loose	23.5	SS-8	0	0	1	1
25.0	-35.0							
			28.0	T-2				
30.0	-40.0	Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery. Very soft, brown, with trace sand, LEAN CLAY (CL,						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-17	**Boring Location:**	613+39.8	**Offset:**	RT 21.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-10.5 ft.	**Northing:**	250328.485	**Easting:**	1808452.457	**Date Started:**	6/6/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/8/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0		A-6(21)), LL=37 PL=15 PI=22 NMC=26.5 %#200=95.7								
35.0	-45.0	Stiff		33.5	SS-9	3	6	4	10	
40.0	-50.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 20 inches of recovery. Wet, brown, fine grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=2.8		38.0	T-3					
45.0	-55.0	Medium dense, fine grained		43.5	SS-10	5	10	10	20	
50.0	-60.0	Medium dense, moist, brown, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP)		48.5	SS-11	9	10	17	27	
55.0	-65.0	Dense		53.5	SS-12	10	16	20	36	
60.0	-70.0	Medium dense		58.5	SS-13	7	10	7	17	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-17	**Boring Location:**	613+39.8	**Offset:**	RT 21.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-10.5 ft.	**Northing:**	250328.485	**Easting:**	1808452.457	**Date Started:**	6/6/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/8/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
65.0	-75.0	Dense, moist, brown, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=3.3		63.5	SS-14	8	13	18	31	
70.0	-80.0	Dense		68.5	SS-15	10	14	19	33	
75.0	-85.0	Loose, wet, gray, medium to fine grained		73.5	SS-16	5	2	7	9	
80.0	-90.0	Medium dense, fine to medium grained		78.5	SS-17	4	7	10	17	
85.0	-95.0	Dense, pale brown		83.5	SS-18	14	21	26	47	
90.0	-100.0	Medium dense		88.5	SS-19	7	11	13	24	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-17	**Boring Location:**	613+39.8	**Offset:**	RT 21.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-10.5 ft.	**Northing:**	250328.485	**Easting:**	1808452.457	**Date Started:**	6/6/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/8/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Medium dense, wet, reddish brown, medium to fine grained, with trace clay, WELL-GRADED SAND with SILT and GRAVEL (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.5 %#200=7.5		93.5	SS-20	2	6	8	14	
100.0	-110.0	Dense, pale brown		98.5	SS-21	8	19	26	45	
105.0	-115.0	Dense, fine to medium grained		103.5	SS-22	13	16	20	36	
110.0	-120.0	Very stiff, wet, green, LEAN CLAY with SAND (CL, A-7-6(23)), LL=41 PL=13 PI=28 NMC=16.2 %#200=84.8		108.5	SS-23	7	10	13	23	
115.0	-125.0	Very stiff		113.5	SS-24	7	11	13	24	
120.0	-130.0	Very stiff		118.5	SS-25	6	9	14	23	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-17	**Boring Location:**	613+39.8	**Offset:**	RT 21.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris L\Charles T
Elev.:	-10.5 ft.	**Northing:**	250328.485	**Easting:**	1808452.457	**Date Started:**	6/6/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/8/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Very stiff		123.5	SS-26	9	8	11	19	●
130.0	-140.0	Very dense, wet, green, fine grained, CLAYEY SAND (SC, A-6(3)), LL=27 PL=11 PI=16 NMC=35.5 %#200=42.1		128.5	SS-27	7	18	44	62	× — × ○ ▲ ●
		Boring Terminated at 130.0 feet.								

LEGEND

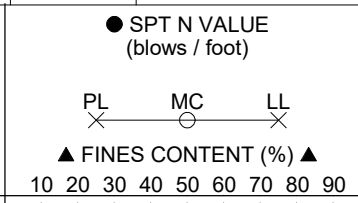
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-20.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
5.0	-25.0	Very loose, wet, dark gray, fine grained, with organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.3 %#200=29.1	3.5	SS-2	0	0	0	0
10.0	-30.0	Very soft, wet, dark gray, with organics, SANDY LEAN CLAY (CL)	8.5	SS-3	0	0	0	0
15.0	-35.0	Very soft, wet, dark gray, with organics, SANDY LEAN CLAY (CL, A-7-6(10)), LL=44 PL=20 PI=24 NMC=40.3 %#200=54.0	13.5	SS-4	0	0	0	0
20.0	-40.0	Very soft, wet, dark gray, FAT CLAY with SAND (CH)	18.5	SS-5	0	0	0	0
25.0	-45.0	Undisturbed sample attempted from 23.5 to 25.5 feet. No Recovery. Very soft, gray	23.5	T-0				
			25.0	SS-6	0	0	0	0
30.0		Very soft, wet, gray, with little sand, FAT CLAY (CH, A-7-6(49)), LL=76 PL=25 PI=51 NMC=30.2	28.5	SS-7	0	0	0	0



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-50.0	%#200=87.3								
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Moist, dark gray, with trace sand, FAT CLAY (CH, A-7-5(66)), LL=91 PL=35 PI=56 NMC=75.6 %#200=97.4		33.5	T-1					
	-55.0									
40.0		Very soft, wet, gray		38.5	SS-8	0	0	0	0	
	-60.0									
45.0		Undisturbed sample obtained from 43.0 to 45.0 feet. Approximately 24 inches of recovery. Moist, gray		43.0	T-2					
	-65.0	Note: Barge shifted 3 feet to the south as a result of the current. Mud Rotary drilled to 45 feet at new location and resumed boring.								
50.0		Very soft, moist, dark gray, with few sand, FAT CLAY (CH, A-7-6(30)), LL=51 PL=22 PI=29 NMC=54.0 %#200=94.0		48.5	SS-9	0	0	0	0	
	-70.0									
55.0		Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Moist, dark gray, fine grained, CLAYEY SAND (SC, A-6(8)), LL=40 PL=14 PI=26 NMC=25.2 %#200=47.1		53.5	T-3					
	-75.0									
60.0		Very loose		58.5	SS-10	0	0	0	0	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-80.0									
65.0		Very loose, moist, dark gray, fine to medium grained, CLAYEY SAND (SC, A-6(4)), LL=30 PL=13 PI=17 NMC=29.7 %#200=45.4		63.5	SS-11	0	0	0	0	● ⊗ ▲
	-85.0									
70.0		Very loose		68.5	SS-12	0	0	0	0	●
	-90.0									
75.0		Loose, moist, light gray, fine to medium grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=20.5 %#200=14.8		73.5	SS-13	1	3	5	8	× ● ▲ ○
	-95.0									
80.0		Medium dense, moist, light gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.7 %#200=7.0		78.5	SS-14	7	9	13	22	× ▲ ●
	-100.0									
85.0		Dense		83.5	SS-15	15	18	26	44	●
	-105.0									
90.0		Dense, tan		88.5	SS-16	18	26	21	47	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%)
90.0	-110.0									
95.0	-115.0	Dense		93.5	SS-17	14	27	42	69	
100.0	-120.0	Very dense, moist, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=19.4 %#200=7.7		98.5	SS-18	14	22	34	56	
105.0	-125.0	Very stiff, wet, bluish gray, LEAN CLAY with SAND (CL)		103.5	SS-19	6	9	13	22	
110.0	-130.0	Undisturbed sample obtained from 108.0 to 110.0 feet. Approximately 24 inches of recovery. Moist, bluish gray, brown and white, with few sand, LEAN CLAY (CL, A-7-6(30)), LL=48 PL=18 PI=30 NMC=19.8 %#200=94.7		108.0	T-4					
115.0	-135.0	Very stiff		113.5	SS-20	7	10	16	26	
120.0		Dense, wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=21.8		118.5	SS-21	21	24	22	46	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-140.0	%#200=47.8								
125.0		Hard, wet, gray, SANDY LEAN CLAY (CL), NMC=23.0 %#200=67.9		123.5	SS-22	24	23	31	54	
	-145.0									
130.0		Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		128.5	SS-23	29	34	34	68	
	-150.0									
135.0		Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.2 %#200=9.3		133.5	SS-24	9	22	38	60	
	-155.0									
140.0		Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.0 %#200=10.9		138.5	SS-25	20	25	50	75	
	-160.0									
145.0		Medium dense, tan		143.5	SS-26	7	7	9	16	
	-165.0									
150.0		Very stiff, moist, green, FAT CLAY with SAND (CH)		148.5	SS-27	5	7	11	18	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0	-170.0									
155.0	-175.0									
160.0	-180.0	Hard, moist, green, FAT CLAY with SAND (CH, A-7-6(26)), LL=51 PL=16 PI=35 NMC=23.1 %#200=76.4		158.5	SS-28	15	22	24	46	
165.0	-185.0									
170.0	-190.0	Very stiff		168.5	SS-29	9	12	18	30	
175.0	-195.0									
180.0		Very stiff		178.5	SS-30	14	13	17	30	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-18	**Boring Location:**	616+38.2	**Offset:**	RT 06.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-18.5 ft.	**Northing:**	250248.376	**Easting:**	1808740.241	**Date Started:**	11/5/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-19	**Boring Location:**	619+42.0	**Offset:**	LT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-22.5 ft.	**Northing:**	250163.4	**Easting:**	1809032.197	**Date Started:**	11/10/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0	-25.0	Very soft, moist, black, SANDY SILT (ML)		0.0	SS-1	0	0	0	0	
5.0	-30.0	Very loose, moist, black, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=39 PL=16 PI=23 NMC=34.3 %#200=19.1		3.5	SS-2	0	0	0	0	
10.0	-35.0	Very soft, moist, black, LEAN CLAY (CL)		8.5	SS-3	0	0	0	0	
15.0	-40.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Dark gray		13.0	T-1					
20.0	-45.0	Very soft		18.5	SS-4	0	0	0	0	
25.0	-50.0	Very soft		23.5	SS-5	0	0	0	0	
30.0		Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery.		28.0	T-2					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-19	**Boring Location:**	619+42.0	**Offset:**	LT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-22.5 ft.	**Northing:**	250163.4	**Easting:**	1809032.197	**Date Started:**	11/10/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-55.0									
35.0		Very soft, gray		33.5	SS-6	0	0	0	0	●
	-60.0									
40.0		Very soft		38.5	SS-7	0	0	0	0	●
	-65.0			43.0						
45.0		Undisturbed sample obtained from 43.0 to 45.0 feet. Approximately 24 inches of recovery.			T-3					
	-70.0									
50.0		Very loose, moist, gray, medium to fine grained, with few gravel, CLAYEY SAND (SC, A-2-6(0)), LL=26 PL=13 PI=13 NMC=24.5 %#200=20.2		48.5	SS-8	0	0	0	0	● ▲
	-75.0									
55.0		Very loose		53.5	SS-9	0	0	0	0	●
	-80.0									
60.0		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 24 inches of recovery.		58.5	T-4					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-19	**Boring Location:**	619+42.0	**Offset:**	LT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-22.5 ft.	**Northing:**	250163.4	**Easting:**	1809032.197	**Date Started:**	11/10/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-85.0									
65.0		Medium dense, moist, gray, medium to fine grained, with little gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.1 %#200=8.1		63.5	SS-10	5	5	7	12	
	-90.0									
70.0		Medium dense, with trace gravel		68.5	SS-11	6	6	7	13	
	-95.0									
75.0		Medium dense, with trace gravel		73.5	SS-12	6	6	7	13	
	-100.0									
80.0		Medium dense, moist, gray, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.0 %#200=2.7		78.5	SS-13	6	6	8	14	
	-105.0									
85.0		Medium dense		83.5	SS-14	9	7	8	15	
	-110.0									
90.0		Medium dense, moist, gray, fine to coarse grained, POORLY GRADED GRAVEL with SILT and SAND		88.5	SS-15	12	8	6	14	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-19	**Boring Location:**	619+42.0	**Offset:**	LT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-22.5 ft.	**Northing:**	250163.4	**Easting:**	1809032.197	**Date Started:**	11/10/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
		(GP-GM, A-1-a(0)), LL=NP PL=NP PI=NP NMC=13.0 %#200=5.5								
	-115.0									
95.0		Very stiff, moist, light greenish gray, with few sand, LEAN CLAY (CL, A-6(22)), LL=37 PL=11 PI=26 NMC=20.6 %#200=89.6		93.5	SS-16	8	10	13	23	
	-120.0									
100.0		Very stiff		98.5	SS-17	7	12	17	29	
	-125.0									
105.0		Undisturbed sample obtained from 103.5 to 105.5 feet. Approximately 24 inches of recovery. Moist, green, coarse to medium grained, POORLY GRADED SAND with CLAY and GRAVEL (SP-SC, A-2-7(0)), LL=58 PL=17 PI=41 NMC=12.4 %#200=10.2		103.5	T-5					
	-130.0									
110.0		Very dense, moist, light greenish gray, fine grained, SILTY SAND (SM)		108.5	SS-18	21	40	37	77	
	-135.0									
115.0		Dense, moist, light greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.3 %#200=33.3		113.5	SS-19	15	16	24	40	
	-140.0									
120.0		Dense		118.5	SS-20	13	15	26	41	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-19	**Boring Location:**	619+42.0	**Offset:**	LT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-22.5 ft.	**Northing:**	250163.4	**Easting:**	1809032.197	**Date Started:**	11/10/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-145.0									
		Undisturbed sample obtained from 123.5 to 125.5 feet. Approximately 24 inches of recovery. Top of tube: Dark gray		123.5	T-6					
125.0		Bottom of tube: Moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)								
	-150.0									
		Dense, moist, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=7.8		128.5	SS-21	16	25	25	50	▲ ○ ●
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-20	**Boring Location:**	622+55.5	**Offset:**	LT 26.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-29.5 ft.	**Northing:**	250085.645	**Easting:**	1809336.76	**Date Started:**	11/11/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-30.0	Very loose, moist, black, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
5.0	-35.0	Very soft, moist, dark gray, SILT with SAND (ML, A-5(0)), LL=48 PL=17 PI=31 NMC=44.0 %#200=75.0	3.5	SS-2	0	0	0	0
10.0	-40.0	Very soft	8.5	SS-3	0	0	0	0
15.0	-45.0	Very soft	13.5	SS-4	0	0	0	0
20.0	-50.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Very soft, moist, dark gray, SANDY FAT CLAY (CH, A-7-6(36)), LL=83 PL=26 PI=57 NMC=42.4 %#200=65.0	18.0	T-1				
25.0	-55.0	Very soft	23.5	SS-5	0	0	0	0
30.0		Very soft	28.5	SS-6	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-20	**Boring Location:**	622+55.5	**Offset:**	LT 26.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-29.5 ft.	**Northing:**	250085.645	**Easting:**	1809336.76	**Date Started:**	11/11/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-60.0									
		Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		33.0	T-2					
35.0	-65.0									
		Top of spoon: Firm, moist, gray, LEAN CLAY (CL)		38.5	SS-7	2	2	4	6	●
40.0	-70.0	Bottom of spoon: Loose, moist, light gray, fine grained, SILTY SAND (SM)								
		Medium dense, moist, light gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.2 %#200=23.8		43.5	SS-8	4	5	6	11	● ◐
45.0	-75.0									
		Medium dense, moist, light gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=4.3		48.5	SS-9	5	11	12	23	▲ ●
50.0	-80.0									
		Dense		53.5	SS-10	12	16	21	37	●
55.0	-85.0									
		Medium dense, moist, light gray, medium to fine grained, POORLY GRADED SAND with GRAVEL		58.5	SS-11	9	8	6	14	▲ ◐
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-20	**Boring Location:**	622+55.5	**Offset:**	LT 26.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-29.5 ft.	**Northing:**	250085.645	**Easting:**	1809336.76	**Date Started:**	11/11/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-90.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=11.4 %#200=2.8							
		Medium dense		63.5	SS-12	11	9	7	16
65.0	-95.0								
		Medium dense		68.5	SS-13	16	11	9	20
70.0	-100.0								
		Medium dense, tan		73.5	SS-14	9	9	9	18
75.0	-105.0								
		Medium dense, moist, tan, fine to medium grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.9 %#200=4.9		78.5	SS-15	14	9	4	13
80.0	-110.0								
		Very stiff, moist, light greenish gray, LEAN CLAY (CL)		83.5	SS-16	5	9	13	22
85.0	-115.0								
		Undisturbed sample obtained from 88.5 to 90.5 feet. Approximately 24 inches of recovery.		88.5	T-3				
90.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-20	**Boring Location:**	622+55.5	**Offset:**	LT 26.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-29.5 ft.	**Northing:**	250085.645	**Easting:**	1809336.76	**Date Started:**	11/11/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-120.0	Moist, greenish gray, with few sand and trace organics, LEAN CLAY (CL, A-6(20)), LL=36 PL=12 PI=24 NMC=17.6 %#200=89.1								
		Very stiff		93.5	SS-17	8	10	14	24	
95.0	-125.0									
		Very stiff, moist, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(44)), LL=60 PL=18 PI=42 NMC=21.4 %#200=95.4		98.5	SS-18	10	12	16	28	
100.0	-130.0									
		Very dense, moist, greenish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		103.5	SS-19	5	14	19	33	
105.0	-135.0									
		Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.7 %#200=10.4		108.5	SS-20	35	50	X	50+	>>
110.0	-140.0									
		Very dense		113.5	SS-21	14	18	35	53	
115.0	-145.0									
		Dense, dark gray		118.5	SS-22	17	25	25	50	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-20	**Boring Location:**	622+55.5	**Offset:**	LT 26.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-29.5 ft.	**Northing:**	250085.645	**Easting:**	1809336.76	**Date Started:**	11/11/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0	-150.0									
		Very dense, gray		123.5	SS-23	26	45	50/5	100+	>>
125.0	-155.0									
		Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=11.4		128.5	SS-24	25	43	50/5	100+	>>
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-21	**Boring Location:**	625+46.4	**Offset:**	LT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-24.0 ft.	**Northing:**	249975.314	**Easting:**	1809606.6	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-25.0	Very soft, moist, black, SANDY SILT (ML)		0.0	SS-1	0	0	0	0
5.0	-30.0	Very loose, moist, dark gray, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=39 PL=20 PI=19 NMC=39.6 %#200=24.3		3.5	SS-2	0	0	0	0
10.0	-35.0	Very loose, dark and gray		8.5	SS-3	0	0	0	0
15.0	-40.0	Very soft, moist, black, FAT CLAY (CH)		13.5	SS-4	0	0	0	0
20.0	-45.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Moist, dark gray, with trace sand, FAT CLAY (CH, A-7-6(66)), LL=86 PL=27 PI=59 NMC=54.0 %#200=96.1		18.0	T-1				
25.0	-50.0	Loose, moist, light gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=28.5 %#200=4.1		23.5	SS-5	3	3	3	6
30.0		Loose		28.5	SS-6	0	4	3	7

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-21	**Boring Location:**	625+46.4	**Offset:**	LT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-24.0 ft.	**Northing:**	249975.314	**Easting:**	1809606.6	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-55.0									
35.0	-60.0	Loose, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=27.5 %#200=8.7		33.5	SS-7	3	2	5	7	
40.0	-65.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 12 inches of recovery. Tan, fine to medium grained		38.0	T-2					
45.0	-70.0	Medium dense		43.5	SS-8	5	7	14	21	
50.0	-75.0	Medium dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.6 %#200=10.4		48.5	SS-9	3	10	11	21	
55.0	-80.0	Medium dense, moist, light gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=27.8 %#200=4.5		53.5	SS-10	6	6	12	18	
60.0		Medium dense		58.5	SS-11	6	9	15	24	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-21	**Boring Location:**	625+46.4	**Offset:**	LT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-24.0 ft.	**Northing:**	249975.314	**Easting:**	1809606.6	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-85.0									
		Medium dense		63.5	SS-12	10	11	13	24	
65.0										
	-90.0									
		Medium dense, tan and greenish gray		68.5	SS-13	11	8	8	16	
70.0										
	-95.0									
		Dense, moist, tan, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=18.2 %#200=4.0		73.5	SS-14	13	16	20	36	
75.0										
	-100.0									
		Medium dense, tan		78.5	SS-15	12	8	10	18	
80.0										
	-105.0									
		Medium dense		83.5	SS-16	11	12	14	26	
85.0										
	-110.0									
		Undisturbed sample obtained from 88.0 to 90.0 feet. Approximately 18 inches of recovery. Moist, brown and bluish gray, SILT with SAND (ML,		88.0	T-3					
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-21	**Boring Location:**	625+46.4	**Offset:**	LT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-24.0 ft.	**Northing:**	249975.314	**Easting:**	1809606.6	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-115.0	A-4(0)), LL=NP PL=NP PI=NP NMC=24.8 %#200=81.7								
95.0	-120.0	Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(6)), LL=33 PL=14 PI=19 NMC=19.6 %#200=50.6		93.5	SS-17	9	12	22	34	
100.0	-125.0	Very dense, moist, light gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.1 %#200=27.6		98.5	SS-18	23	38	38	76	
105.0	-130.0	Very dense		103.5	SS-19	30	47	50/5	100+	
110.0	-135.0	Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.0 %#200=9.4		108.5	SS-20	27	38	50/5	100+	
115.0	-140.0	Very dense		113.5	SS-21	30	41	50/4	100+	
120.0		Dense, moist, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP		118.5	SS-22	13	15	27	42	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-21	**Boring Location:**	625+46.4	**Offset:**	LT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-24.0 ft.	**Northing:**	249975.314	**Easting:**	1809606.6	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-145.0	PL=NP PI=NP NMC=25.4 %#200=8.6								
				123.5						
125.0		Very dense, gray			SS-23	21	35	33	68	●
	-150.0									
				128.5						
130.0		Very dense			SS-24	33	40	40	80	●
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-22	**Boring Location:**	628+37.3	**Offset:**	RT 12.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	249864.985	**Easting:**	1809876.441	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
5.0	-15.0	Loose, moist, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.9 %#200=12.0		3.5	SS-2	2	2	3	5
10.0	-20.0	Very loose		8.5	SS-3	0	0	0	0
15.0	-25.0	Very loose, moist, dark gray, fine grained, CLAYEY SAND (SC, A-6(3)), LL=32 PL=13 PI=19 NMC=62.9 %#200=38.6		13.5	SS-4	0	0	0	0
20.0	-30.0	Very loose		18.5	SS-5	0	0	0	0
25.0	-35.0	Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery.		23.0	T-1				
30.0	-40.0	Loose, moist, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.3		28.5	SS-6	1	3	2	5

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-22	**Boring Location:**	628+37.3	**Offset:**	RT 12.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	249864.985	**Easting:**	1809876.441	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0		%#200=34.0								
35.0	-45.0	Loose, gray, with trace clay		33.5	SS-7	6	3	4	7	●
40.0	-50.0	Loose, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=14.6 %#200=10.5		38.5	SS-8	5	5	4	9	× ●▲○
45.0	-55.0	Soft, moist, dark gray, LEAN CLAY with SAND (CL)		43.5	SS-9	0	2	2	4	●
50.0	-60.0	Undisturbed sample obtained from 48.0 to 50.0 feet. Approximately 24 inches of recovery. Light gray		48.0	T-2					
55.0	-65.0	Very soft		53.5	SS-10	0	0	0	0	●
60.0	-70.0	Medium dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)),		58.5	SS-11	6	5	10	15	× ▲● ○

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-22	**Boring Location:**	628+37.3	**Offset:**	RT 12.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	249864.985	**Easting:**	1809876.441	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		LL=NP PL=NP PI=NP NMC=33.1 %#200=9.1								
65.0	-75.0	Firm, moist, dark gray, SANDY LEAN CLAY (CL)		63.5	SS-12	3	4	2	6	●
70.0	-80.0	Medium dense, moist, light gray, fine to medium grained, POORLY GRADED SAND (SP)		68.5	SS-13	8	11	15	26	●
75.0	-85.0	Medium dense		73.5	SS-14	5	9	9	18	●
80.0	-90.0	Medium dense		78.5	SS-15	10	8	10	18	●
85.0	-95.0	Dense, moist, light grained, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=20.7 %#200=4.7		83.5	SS-16	18	16	23	39	▲ ○ ●
90.0	-100.0	Dense		88.5	SS-17	19	22	25	47	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-22	**Boring Location:**	628+37.3	**Offset:**	RT 12.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	249864.985	**Easting:**	1809876.441	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Medium dense		93.5	SS-18	7	10	17	27	
100.0	-110.0	Dense, moist, white, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.0 %#200=4.3		98.5	SS-19	19	20	22	42	
105.0	-115.0	Hard, moist, green, with few sand, FAT CLAY (CH, A-7-6(31)), LL=50 PL=17 PI=33 NMC=20.7 %#200=89.5		103.5	SS-20	13	14	17	31	
110.0	-120.0	Very stiff		108.5	SS-21	10	12	18	30	
115.0	-125.0	Very stiff, moist, green, with trace sand, FAT CLAY (CH, A-7-6(47)), LL=60 PL=14 PI=46 NMC=23.1 %#200=96.1		113.5	SS-22	8	9	13	22	
120.0	-130.0	Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		118.5	SS-23	29	34	37	71	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-22	**Boring Location:**	628+37.3	**Offset:**	RT 12.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	249864.985	**Easting:**	1809876.441	**Date Started:**	11/12/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Hard, moist, gray, SANDY LEAN CLAY (CL, A-4(2)), LL=23 PL=13 PI=10 NMC=38.5 %#200=55.0		123.5	SS-24	7	8	23	31	
130.0	-140.0	Very dense, moist, light gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		128.5	SS-25	12	30	50/4	100+	>>
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.8 %#200=14.3	1.5	SS-2	0	0	0	0
		Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0		Very loose	4.5	SS-4	0	0	0	0
	-10.0	Very loose	6.0	SS-5	0	0	0	0
		Very loose, wet, brown and black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=51.4 %#200=29.8	8.5	SS-6	0	0	0	0
10.0	-15.0							
		Very loose, wet, brown, fine grained, POORLY GRADED SAND (SP)	13.5	SS-7	0	0	0	0
15.0	-20.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Wet, dark gray, with trace organics and shells, SANDY FAT CLAY (CH)	18.5	T-1				
20.0	-25.0							
		Very soft, wet, brown, SANDY FAT CLAY (CH, A-7-6(28)), LL=67 PL=14 PI=53 NMC=41.4 %#200=60.3	23.5	SS-8	0	0	0	0
25.0	-30.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 21 inches of recovery.	28.5	T-2				
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Dark gray, with shells								
35.0		Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.4 %#200=31.3		33.5	SS-9	0	0	0	0	
	-40.0									
40.0		Very loose, wet, brown, fine grained, with trace organics and gravel, CLAYEY SAND (SC, A-6(4)), LL=40 PL=17 PI=23 NMC=34.1 %#200=37.8		38.5	SS-10	0	0	3	3	
	-45.0									
45.0		Very soft, wet, brown, with trace sand, FAT CLAY (CH)		43.5	SS-11	0	0	0	0	
	-50.0									
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Wet, gray, fine grained, with trace organics and trace clay, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.7 %#200=2.0		48.5	T-3					
	-55.0									
55.0		Soft, wet, brown, SANDY LEAN CLAY (CL, A-6(11)), LL=34 PL=14 PI=20 NMC=30.9 %#200=67.4		53.5	SS-12	0	0	3	3	
	-60.0									
60.0		Medium dense, wet, brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		58.5	SS-13	8	6	5	11	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0	-65.0	NMC=31.1 %#200=23.0								
		Medium dense		63.5	SS-14	7	11	13	24	
65.0	-70.0									
		Medium dense		68.5	SS-15	6	9	9	18	
70.0	-75.0									
		Medium dense		73.5	SS-16	9	9	11	20	
75.0	-80.0									
		Medium dense, wet, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.3 %#200=9.7		78.5	SS-17	14	15	10	25	
80.0	-85.0									
		Medium dense		83.5	SS-18	11	12	12	24	
85.0	-90.0									
		Dense, fine to coarse grained, with trace gravel		88.5	SS-19	20	22	21	43	
90.0										

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-95.0								
95.0		Very dense		93.5	SS-20	19	25	29	54
	-100.0								
100.0		Very dense, wet, brown, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=11.6 %#200=4.4		98.5	SS-21	19	26	31	57
	-105.0								
105.0		Dense		103.5	SS-22	18	18	16	34
	-110.0								
110.0		Hard, moist, brown and gray, LEAN CLAY (CL)		108.5	SS-23	13	16	21	37
	-115.0								
115.0		Hard, moist, brown and gray, with few sand, LEAN CLAY (CL, A-7-6(30)), LL=47 PL=14 PI=33 NMC=16.8 %#200=88.9		113.5	SS-24	14	15	19	34
	-120.0								
120.0		Hard		118.5	SS-25	14	17	22	39

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-125.0									
125.0	-130.0	Very stiff, moist, brown and gray, with few sand, FAT CLAY (CH, A-7-6(34)), LL=50 PL=14 PI=36 NMC=21.2 %#200=91.9		123.5	SS-26	8	11	13	24	
130.0	-135.0	Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		128.5	SS-27	20	28	42	70	
135.0	-140.0	Very dense, fine to medium grained		133.5	SS-28	25	36	44	80	
140.0	-145.0	Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.2 %#200=8.7		138.5	SS-29	22	33	31	64	
145.0	-150.0	Very dense		143.5	SS-30	21	27	40	67	
150.0		Very dense		148.5	SS-31	11	26	34	60	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0										
	-155.0									
155.0		Dense, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=31.0		153.5	SS-32	15	17	21	38	
	-160.0									
160.0		Medium dense		158.5	SS-33	6	9	12	21	
	-165.0									
165.0		Very stiff, moist, brown and black, SANDY LEAN CLAY (CL)		163.5	SS-34	5	9	13	22	
	-170.0									
170.0		Hard, moist, brown, SANDY LEAN CLAY (CL, A-6(5)), LL=28 PL=15 PI=13 NMC=15.5 %#200=62.1		168.5	SS-35	11	15	19	34	
	-175.0									
175.0		Hard		173.5	SS-36	12	15	17	32	
	-180.0									
180.0		Very stiff, moist, brown, SANDY LEAN CLAY (CL, A-6(8)), LL=33 PL=13 PI=20 NMC=18.2 %#200=59.4		178.5	SS-37	10	12	15	27	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-23	**Boring Location:**	632+20.2	**Offset:**	LT 15.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-4.0 ft.	**Northing:**	249770.929	**Easting:**	1810248.834	**Date Started:**	11/18/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-24	**Boring Location:**	634+59.1	**Offset:**	RT 12.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.0 ft.	**Northing:**	249668.841	**Easting:**	1810466.534	**Date Started:**	11/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, black, fine grained, SILTY SAND (SM)	1.5	SS-2	0	0	0	0
	-5.0	Very loose	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.6 %#200=20.3	4.5	SS-4	0	0	0	0
		Very loose, No Recovery	6.0	SS-5	0	0	0	0
	-10.0	Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.9 %#200=13.0	8.5	SS-6	1	2	2	4
10.0								
	-15.0	Very loose	13.5	SS-7	0	1	1	2
15.0								
	-20.0	Very soft, No Recovery	18.5	SS-8	0	0	0	0
20.0								
	-25.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, wet, brown, with few sand, FAT CLAY (CH, A-7-6(43)), LL=67 PL=23 PI=44 NMC=42.6 %#200=87.8	23.5	T-1				
25.0								
	-30.0	Very soft, gray	28.5	SS-9	0	0	0	0
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-24	**Boring Location:**	634+59.1	**Offset:**	RT 12.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.0 ft.	**Northing:**	249668.841	**Easting:**	1810466.534	**Date Started:**	11/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Gray		33.5	T-2					
40.0	-40.0	Very loose, wet, gray, fine to medium grained, CLAYEY SAND (SC, A-2-6(1)), LL=31 PL=14 PI=17 NMC=29.5 %#200=28.7		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Very loose, wet, brown, fine to medium grained, with trace gravel and trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=37.3 %#200=30.0		43.5	T-3					
50.0	-50.0	Medium dense		48.5	SS-11	6	8	12	20	
55.0	-55.0	Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(31)), LL=68 PL=26 PI=42 NMC=39.6 %#200=71.8		53.5	SS-12	2	1	1	2	
60.0	-60.0	Firm		58.5	SS-13	5	3	2	5	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-24	**Boring Location:**	634+59.1	**Offset:**	RT 12.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.0 ft.	**Northing:**	249668.841	**Easting:**	1810466.534	**Date Started:**	11/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Very soft		63.5	SS-14	0	0	0	0	●
70.0	-70.0	Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 24 inches of recovery. Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(31)), LL=58 PL=23 PI=35 NMC=33.4 %#200=83.0		68.5	T-4					× ○ × ▲
75.0	-75.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		73.5	SS-15	7	11	15	26	●
80.0	-80.0	Dense, wet, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=17.9 %#200=5.0		78.5	SS-16	11	17	16	33	× ▲ ○ ●
85.0	-85.0	Medium dense		83.5	SS-17	13	13	14	27	●
90.0	-90.0	Medium dense, with trace gravel		88.5	SS-18	8	11	12	23	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-24	**Boring Location:**	634+59.1	**Offset:**	RT 12.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.0 ft.	**Northing:**	249668.841	**Easting:**	1810466.534	**Date Started:**	11/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense, fine to coarse grained		93.5	SS-19	12	15	13	28	
100.0	-100.0	Dense, wet, brown, medium to fine grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.8 %#200=5.3		98.5	SS-20	17	23	22	45	
105.0	-105.0	Medium dense		103.5	SS-21	15	15	15	30	
110.0	-110.0	Hard, moist, gray and brown, FAT CLAY (CH)		108.5	SS-22	9	14	19	33	
115.0	-115.0	Hard, moist, gray and brown, with trace sand, FAT CLAY (CH, A-7-6(46)), LL=62 PL=19 PI=43 NMC=22.3 %#200=96.3		113.5	SS-23	10	17	20	37	
120.0	-120.0	Very stiff		118.5	SS-24	10	14	16	30	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-24	**Boring Location:**	634+59.1	**Offset:**	RT 12.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.0 ft.	**Northing:**	249668.841	**Easting:**	1810466.534	**Date Started:**	11/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 feet.								

LEGEND

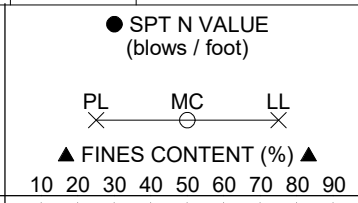
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-25	**Boring Location:**	637+65.3	**Offset:**	RT 50.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.5 ft.	**Northing:**	249536.291	**Easting:**	1810745.397	**Date Started:**	11/8/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-1.5	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, dark brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.1 %#200=10.6	1.5	SS-2	0	0	0	0
	-5.0	Very soft, wet, dark brown and brown, SANDY SILT (ML)	3.0	SS-3	0	0	0	0
5.0		Very soft, No Recovery	4.5	SS-4	0	0	0	0
		Very soft, wet, dark brown and brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=56.1 %#200=58.9	6.0	SS-5	0	0	0	0
	-10.0	Very soft	8.5	SS-6	0	0	0	0
10.0								
	-15.0	Very loose, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=27.9 %#200=10.0	13.5	SS-7	0	1	1	2
15.0								
	-20.0	Very loose, wet, brown and gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.8 %#200=32.4	18.5	SS-8	0	0	0	0
20.0								
	-25.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, wet, gray, SANDY LEAN CLAY (CL, A-7-6(14)), LL=43 PL=20 PI=23 NMC=43.9 %#200=67.5	23.5	T-1				
25.0								
	-30.0	Very soft	28.5	SS-9	0	0	0	0
30.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-25	**Boring Location:**	637+65.3	**Offset:**	RT 50.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.5 ft.	**Northing:**	249536.291	**Easting:**	1810745.397	**Date Started:**	11/8/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Very loose, wet, gray, fine grained, CLAYEY SAND (SC, A-2-6(2)), LL=33 PL=14 PI=19 NMC=32.9 %#200=34.2		33.5	T-2					
40.0	-40.0	Very loose, wet, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.0 %#200=28.8		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Soft, wet, gray, LEAN CLAY with SAND (CL, A-6(9)), LL=34 PL=18 PI=16 NMC=25.8 %#200=70.9		43.5	T-3					
50.0	-50.0	Very loose, wet, light brown and gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.5 %#200=20.2		48.5	SS-11	2	2	1	3	
55.0	-55.0	Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=4.5		53.5	SS-12	6	9	14	23	
60.0	-60.0	Very soft, wet, gray, with trace wood and few sand, ELASTIC SILT (MH, A-7-5(19)), LL=53 PL=36 PI=17		58.5	SS-13	0	0	0	0	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-25	**Boring Location:**	637+65.3	**Offset:**	RT 50.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.5 ft.	**Northing:**	249536.291	**Easting:**	1810745.397	**Date Started:**	11/8/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	NMC=44.2 %#200=88.4								
		Top of spoon: Firm		63.5	SS-14	0	0	6	6	●
65.0		Bottom of spoon: Loose, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP)								
	-70.0	Very loose, gray		68.5	SS-15	1	1	1	2	●
70.0										
	-75.0	Medium dense, wet, pale brown, fine to medium grained, with trace clay, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=18.1 %#200=4.7		73.5	SS-16	13	12	13	25	×▲ ○ ●
75.0										
	-80.0	Medium dense		78.5	SS-17	5	8	13	21	●
80.0										
	-85.0	Dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=3.9		83.5	SS-18	10	19	30	49	×▲ ○ ●
85.0										
	-90.0	Dense		88.5	SS-19	12	17	17	34	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-25	**Boring Location:**	637+65.3	**Offset:**	RT 50.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.5 ft.	**Northing:**	249536.291	**Easting:**	1810745.397	**Date Started:**	11/8/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense, wet, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.1 %#200=4.6		93.5	SS-20	16	16	13	29	
100.0	-100.0	Dense, wet, gray, fine to medium grained, with little gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=14.7 %#200=3.9		98.5	SS-21	15	23	21	44	
105.0	-105.0	Dense		103.5	SS-22	18	24	18	42	
110.0	-110.0	Stiff, wet, greenish gray, SANDY LEAN CLAY (CL, A-6(11)), LL=37 PL=13 PI=24 NMC=19.9 %#200=60.4		108.5	SS-23	3	6	8	14	
115.0	-115.0	Hard, wet, green, FAT CLAY (CH)		113.5	SS-24	14	18	21	39	
120.0	-120.0	Hard, wet, green, with few sand, FAT CLAY (CH, A-7-6(31)), LL=50 PL=17 PI=33 NMC=21.5		118.5	SS-25	14	17	20	37	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-25	**Boring Location:**	637+65.3	**Offset:**	RT 50.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-1.5 ft.	**Northing:**	249536.291	**Easting:**	1810745.397	**Date Started:**	11/8/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0		%#200=91.2								
	-125.0	Hard		123.5	SS-26	11	15	21	36	●
125.0										
	-130.0	Very stiff		128.5	SS-27	9	12	13	25	●
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-26	**Boring Location:**	641+13.2	**Offset:**	LT 09.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-8.5 ft.	**Northing:**	249484.176	**Easting:**	1811094.407	**Date Started:**	11/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0	
	-10.0	Very loose, wet, black, fine grained, SILTY SAND (SM)		1.5	SS-2	0	0	0	0	
		Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=40.4 %#200=26.2		3.0	SS-3	0	0	0	0	
5.0		Very loose		4.5	SS-4	0	1	1	2	
	-15.0	Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.0 %#200=13.9		6.0	SS-5	0	1	1	2	
		Very loose, brown		8.5	SS-6	1	2	2	4	
10.0	-20.0									
		Very loose, wet, brown, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=35.2 %#200=48.9		13.5	SS-7	0	0	0	0	
15.0	-25.0									
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Wet, brown, FAT CLAY with SAND (CH)		18.5	T-1					
20.0	-30.0									
		Very soft, wet, brown, FAT CLAY with SAND (CH, A-7-6(46)), LL=82 PL=21 PI=61 NMC=59.8 %#200=74.3		23.5	SS-8	0	0	0	0	
25.0	-35.0									
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2					
30.0										

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-26	**Boring Location:**	641+13.2	**Offset:**	LT 09.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-8.5 ft.	**Northing:**	249484.176	**Easting:**	1811094.407	**Date Started:**	11/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Very loose, wet, brown, fine grained, CLAYEY SAND (SC, A-6(2)), LL=31 PL=14 PI=17 NMC=30.0 %#200=36.6								
35.0		Very soft, wet, brown, with trace sand, FAT CLAY (CH, A-7-6(49)), LL=67 PL=22 PI=45 NMC=46.6 %#200=96.7		33.5	SS-9	0	0	0	0	
	-45.0									
40.0		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)		38.5	SS-10	5	9	8	17	
	-50.0									
45.0		Medium dense, wet, brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.6 %#200=3.4		43.5	SS-11	9	8	9	17	
	-55.0									
50.0		Medium dense		48.5	SS-12	6	11	10	21	
	-60.0									
55.0		Medium dense		53.5	SS-13	8	7	10	17	
	-65.0									
60.0		Medium dense, wet, brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		58.5	SS-14	1	2	10	12	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-26	**Boring Location:**	641+13.2	**Offset:**	LT 09.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-8.5 ft.	**Northing:**	249484.176	**Easting:**	1811094.407	**Date Started:**	11/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		NMC=28.0 %#200=17.9								
	-70.0			63.5	SS-15	4	6	13	19	
65.0		Medium dense, wet, brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.5 %#200=14.6								
	-75.0			68.5	SS-16	8	6	9	15	
70.0		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)								
	-80.0			73.5	SS-17	11	11	13	24	
75.0		Medium dense								
	-85.0			78.5	SS-18	10	12	15	27	
80.0		Medium dense								
	-90.0			83.5	SS-19	12	16	19	35	
85.0		Dense, wet, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.5 %#200=3.2								
	-95.0			88.5	SS-20	14	15	12	27	
90.0		Medium dense, light gray, fine to coarse grained								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-26	**Boring Location:**	641+13.2	**Offset:**	LT 09.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-8.5 ft.	**Northing:**	249484.176	**Easting:**	1811094.407	**Date Started:**	11/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-100.0	Dense, wet, light brown, medium to fine grained, with little gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=16.4 %#200=6.6		93.5	SS-21	11	13	27	40	
100.0	-105.0	Very dense, light gray, fine to medium grained, with trace gravel		98.5	SS-22	15	28	33	61	
105.0	-110.0	Dense, wet, light gray, fine to medium grained, with trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.3 %#200=4.9		103.5	SS-23	15	22	23	45	
110.0	-115.0	Very stiff, moist, greenish gray, with trace sand, LEAN CLAY (CL)		108.5	SS-24	10	13	16	29	
115.0	-120.0	Very stiff, moist, greenish gray, with few sand, LEAN CLAY (CL, A-7-6(31)), LL=46 PL=13 PI=33 NMC=21.7 %#200=92.1		113.5	SS-25	7	10	13	23	
120.0	-125.0	Very stiff, greenish gray and brown		118.5	SS-26	10	12	15	27	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-26	**Boring Location:**	641+13.2	**Offset:**	LT 09.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-8.5 ft.	**Northing:**	249484.176	**Easting:**	1811094.407	**Date Started:**	11/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
		Very stiff, greenish gray		123.5						
125.0					SS-27	10	13	16	29	●
	-135.0									
		Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=11.0		128.5						
130.0					SS-28	14	38	37	75	▲ ○ ●
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-27	**Boring Location:**	644+08.7	**Offset:**	RT 16.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-10.0 ft.	**Northing:**	249361.491	**Easting:**	1811364.516	**Date Started:**	11/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, wet, brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
		Very loose	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose	4.5	SS-4	0	0	0	0
		Very loose, No Recovery	6.0	SS-5	0	0	0	0
			8.5	SS-6	0	0	0	0
10.0	-20.0	Very loose, No Recovery						
			13.5	SS-7	0	0	0	0
15.0	-25.0	Very soft, wet, brown, FAT CLAY with SAND (CH, A-7-6(30)), LL=56 PL=16 PI=40 NMC=44.1 %#200=76.5						
			18.5	T-1				
20.0	-30.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very loose, wet, brown, fine grained, CLAYEY SAND (SC, A-6(6)), LL=37 PL=15 PI=22 NMC=47.3 %#200=46.9						
		Very loose	23.5	SS-8	0	0	0	0
25.0	-35.0							
			28.5	T-2				
30.0	-40.0	Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.						

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-27	**Boring Location:**	644+08.7	**Offset:**	RT 16.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-10.0 ft.	**Northing:**	249361.491	**Easting:**	1811364.516	**Date Started:**	11/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0	Very loose, wet, brown, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=28 PL=14 PI=14 NMC=29.2 %#200=31.2								
		Very soft, wet, brown and gray, FAT CLAY with SAND (CH, A-7-5(70)), LL=109 PL=35 PI=74 NMC=78.2 %#200=83.4		33.5	SS-9	0	0	0	0	
35.0	-45.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		38.5	T-3					
40.0	-50.0									
		Medium dense		43.5	SS-10	8	8	8	16	
45.0	-55.0									
		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.6 %#200=9.3		48.5	SS-11	12	9	4	13	
50.0	-60.0									
		Medium dense		53.5	SS-12	8	9	9	18	
55.0	-65.0									
		Medium dense, wet, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP,		58.5	SS-13	3	5	6	11	
60.0	-70.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-27	**Boring Location:**	644+08.7	**Offset:**	RT 16.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-10.0 ft.	**Northing:**	249361.491	**Easting:**	1811364.516	**Date Started:**	11/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-70.0	A-3(0)), LL=NP PL=NP PI=NP NMC=23.9 %#200=3.5								
		Medium dense		63.5	SS-14	8	10	10	20	
65.0	-75.0									
		Loose		68.5	SS-15	5	1	6	7	
70.0	-80.0									
		Dense		73.5	SS-16	13	18	15	33	
75.0	-85.0									
		Medium dense		78.5	SS-17	13	13	16	29	
80.0	-90.0									
		Dense, wet, brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.1 %#200=4.1		83.5	SS-18	8	18	16	34	
85.0	-95.0									
		Medium dense, with trace gravel		88.5	SS-19	8	5	9	14	
90.0	-100.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-27	**Boring Location:**	644+08.7	**Offset:**	RT 16.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-10.0 ft.	**Northing:**	249361.491	**Easting:**	1811364.516	**Date Started:**	11/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Dense, with trace gravel		93.5	SS-20	21	18	14	32	
100.0	-110.0	Medium dense		98.5	SS-21	20	14	15	29	
105.0	-115.0	Very stiff, wet, gray, LEAN CLAY with SAND (CL, A-6(17)), LL=37 PL=14 PI=23 NMC=17.8 %#200=79.9		103.5	SS-22	7	9	11	20	
110.0	-120.0	Hard, brown and gray		108.5	SS-23	10	14	17	31	
115.0	-125.0	Very dense, wet, brown, fine grained, POORLY GRADED SAND (SP)		113.5	SS-24	25	30	41	71	
120.0	-130.0	Very stiff, wet, brown, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=27.2 %#200=71.3		118.5	SS-25	7	5	11	16	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-27	**Boring Location:**	644+08.7	**Offset:**	RT 16.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-10.0 ft.	**Northing:**	249361.491	**Easting:**	1811364.516	**Date Started:**	11/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-130.0									
				123.5						
125.0	-135.0	Very stiff, wet, gray, with few sand, LEAN CLAY (CL, A-6(14)), LL=33 PL=16 PI=17 NMC=23.2 %#200=87.8			SS-26	6	8	14	22	
				128.5						
130.0	-140.0	Hard, with few sand			SS-27	6	9	23	32	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
		Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, wet, dark brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=31.2 %#200=9.3 Very loose	4.5	SS-4	0	0	0	0
			6.0	SS-5	0	1	2	3
10.0	-20.0	Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC)	8.5	SS-6	0	0	0	0
15.0	-25.0	Very soft, wet, dark gray, FAT CLAY with SAND (CH, A-7-6(31)), LL=57 PL=19 PI=38 NMC=47.8 %#200=79.9	13.5	SS-7	0	0	0	0
20.0	-30.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very soft, moist, dark gray, FAT CLAY with SAND (CH, A-7-6(30)), LL=60 PL=26 PI=34 NMC=52.6 %#200=80.8	18.5	T-1				
25.0	-35.0	Very soft, wet	23.5	SS-8	0	0	0	0
30.0		Very soft, gray, with trace organics	28.5	SS-9	0	0	0	0

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-40.0									
35.0	-45.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Dark gray, with trace organics		33.5	T-2					
40.0	-50.0	Very loose, wet, gray, fine to medium grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=28.4		38.5	SS-10	4	1	2	3	
45.0	-55.0	Medium dense, wet, light brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.1 %#200=3.1		43.5	SS-11	7	10	13	23	
50.0	-60.0	Medium dense, gray, with trace silt		48.5	SS-12	5	6	13	19	
55.0	-65.0	Medium dense, light brownish gray		53.5	SS-13	4	5	6	11	
60.0		Medium dense, fine to medium grained		58.5	SS-14	7	9	11	20	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-70.0									
65.0	-75.0	Very loose, brownish gray, with trace organics and trace silt		63.5	SS-15	3	1	3	4	●
70.0	-80.0	Medium dense, brown, with trace silt and trace clay		68.5	SS-16	10	14	10	24	●
75.0	-85.0	Medium dense, brownish gray		73.5	SS-17	4	6	15	21	●
80.0	-90.0	Very dense, brown		78.5	SS-18	19	32	34	66	●
85.0	-95.0	Medium dense, wet, brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.0 %#200=4.7		83.5	SS-19	14	12	12	24	▲ ○ ●
90.0		Dense		88.5	SS-20	18	23	22	45	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Medium dense, with trace gravel		93.5	SS-21	13	11	15	26	
100.0	-110.0	Dense, wet, brown, fine to medium grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=14.6 %#200=5.7		98.5	SS-22	24	30	17	47	
105.0	-115.0	Very stiff, wet, gray, LEAN CLAY with SAND (CL, A-7-6(20)), LL=41 PL=13 PI=28 NMC=21.1 %#200=77.8		103.5	SS-23	7	9	11	20	
110.0	-120.0	Hard, moist, gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=21.7 %#200=78.5		108.5	SS-24	11	15	18	33	
115.0	-125.0	Very dense, moist, brown, fine grained, SILTY SAND (SM)		113.5	SS-25	19	24	34	58	
120.0		Very dense, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.3		118.5	SS-26	20	29	35	64	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0	-130.0	%#200=12.4							
		Very dense		123.5	SS-27	19	22	32	54
125.0	-135.0								
		Very dense, fine to medium grained		128.5	SS-28	20	26	25	51
130.0	-140.0								
		Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=27.6 %#200=9.4		133.5	SS-29	19	30	32	62
135.0	-145.0								
		Very dense		138.5	SS-30	24	30	40	70
140.0	-150.0								
		Dense		143.5	SS-31	12	17	20	37
145.0	-155.0								
		Hard, wet, gray, LEAN CLAY with SAND (CL, A-6(16)), LL=36 PL=13 PI=23 NMC=19.4 %#200=77.7		148.5	SS-32	12	18	19	37
150.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

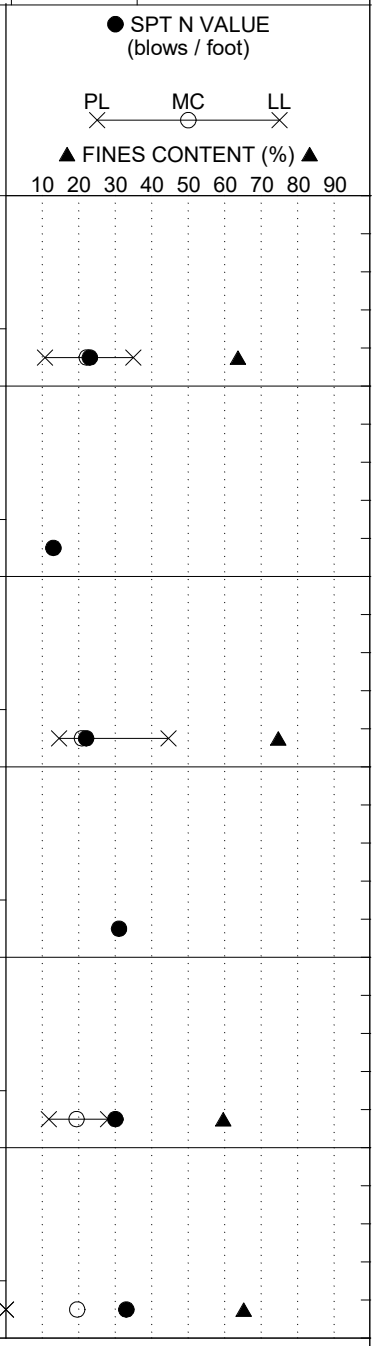
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0	-160.0								
155.0	-165.0	Very stiff, wet, gray, SANDY LEAN CLAY (CL, A-6(12)), LL=35 PL=11 PI=24 NMC=22.1 %#200=63.6		153.5	SS-33	12	9	14	23
160.0	-170.0	Stiff		158.5	SS-334	3	5	8	13
165.0	-175.0	Very stiff, wet, brown, LEAN CLAY with SAND (CL, A-7-6(21)), LL=45 PL=15 PI=30 NMC=20.8 %#200=74.7		163.5	SS-35	7	11	11	22
170.0	-180.0	Dense, wet, brown, fine grained, POORLY GRADED SAND (SP)		168.5	SS-36	15	16	15	31
175.0	-185.0	Very stiff, wet, brown, SANDY LEAN CLAY (CL, A-6(6)), LL=28 PL=12 PI=16 NMC=19.4 %#200=59.6		173.5	SS-37	9	18	12	30
180.0		Hard, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=19.5 %#200=65.2		178.5	SS-38	15	15	18	33



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-28	**Boring Location:**	647+11.3	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	B.Ellis/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	249267.828	**Easting:**	1811652.29	**Date Started:**	10/29/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-29	**Boring Location:**	650+11.6	**Offset:**	LT 22.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-10.5 ft.	**Northing:**	249177.237	**Easting:**	1811940.043	**Date Started:**	10/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
		Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, wet, dark gray and brown, fine grained, SILTY SAND (SM)	4.5	SS-4	0	1	2	3
		Very loose	6.0	SS-5	0	0	0	0
			8.5	SS-6	0	0	0	0
10.0	-20.0	Very soft, wet, gray and brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=40.8 %#200=51.4						
			13.5	T-1				
15.0	-25.0	Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 24 inches of recovery. Very soft, wet, dark gray and brown, LEAN CLAY with SAND (CL, A-7-6(19)), LL=44 PL=16 PI=28 NMC=48.7 %#200=74.2						
			18.5	SS-7	0	0	0	0
20.0	-30.0	Very soft						
			23.5	T-2				
25.0	-35.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft, wet, brown and gray, with little sand, FAT CLAY (CH, A-7-6(59)), LL=82 PL=21 PI=61 NMC=67.8 %#200=87.7						
			28.5	SS-8	0	0	0	0
30.0	-40.0	Very soft, gray						

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-29	**Boring Location:**	650+11.6	**Offset:**	LT 22.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-10.5 ft.	**Northing:**	249177.237	**Easting:**	1811940.043	**Date Started:**	10/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-45.0	Undisturbed sample attempted from 33.5 to 35.5 feet. No Recovery		33.5	T-3					
40.0	-50.0	Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(29)), LL=51 PL=17 PI=34 NMC=32.8 %#200=83.6		38.5	SS-9	0	0	0	0	● × ○ × ▲
45.0	-55.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 21 inches of recovery. Wet, light brown, medium to fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=15.5 %#200=20.2		43.5	T-4					× ○▲
50.0	-60.0	Medium dense, wet, brown and light brown, fine grained, POORLY GRADED SAND (SP)		48.5	SS-10	7	10	10	20	●
55.0	-65.0	Medium dense		53.5	SS-11	10	11	13	24	●
60.0	-70.0	Medium dense, wet, brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP,		58.5	SS-12	4	6	7	13	×▲ ● ○

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-29	**Boring Location:**	650+11.6	**Offset:**	LT 22.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-10.5 ft.	**Northing:**	249177.237	**Easting:**	1811940.043	**Date Started:**	10/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=1.5								
65.0	-75.0	Medium dense		63.5	SS-13	11	16	14	30	
70.0	-80.0	Dense		68.5	SS-14	13	16	16	32	
75.0	-85.0	Medium dense, light brown, with trace clay		73.5	SS-15	9	12	12	24	
80.0	-90.0	Medium dense, wet, brown, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.6 %#200=7.5		78.5	SS-16	6	7	11	18	
85.0	-95.0	Dense		83.5	SS-17	12	15	20	35	
90.0	-100.0	Medium dense, with trace clay		88.5	SS-18	9	14	13	27	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-29	**Boring Location:**	650+11.6	**Offset:**	LT 22.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-10.5 ft.	**Northing:**	249177.237	**Easting:**	1811940.043	**Date Started:**	10/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Medium dense, light brown and gray		93.5	SS-19	11	11	11	22	●
100.0	-110.0	Very dense, wet, light brown, medium to fine grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.3 %#200=5.2		98.5	SS-20	17	29	31	60	×▲ ○ ●
105.0	-115.0	Dense, light brown and white		103.5	SS-21	13	19	20	39	●
110.0	-120.0	Dense, brown and light brown		108.5	SS-22	12	16	16	32	●
115.0	-125.0	Very stiff, moist, gray and brown, with trace sand, LEAN CLAY (CL, A-7-6(25)), LL=46 PL=23 PI=23 NMC=24.2 %#200=96.9		113.5	SS-23	5	9	14	23	●—× ▲
120.0	-130.0	Very stiff, gray		118.5	SS-24	7	9	9	18	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-29	**Boring Location:**	650+11.6	**Offset:**	LT 22.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-10.5 ft.	**Northing:**	249177.237	**Easting:**	1811940.043	**Date Started:**	10/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Hard, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=28.7 %#200=51.3		123.5	SS-25	7	15	31	46	
130.0	-140.0	Hard		128.5	SS-26	20	29	31	60	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-30	**Boring Location:**	653+20.5	**Offset:**	RT 30.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher
Elev.:	-11.5 ft.	**Northing:**	249004.244	**Easting:**	1812201.307	**Date Started:**	10/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)	1.5	SS-2	0	0	0	0
	-15.0	Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.5 %#200=11.1	4.5	SS-4	0	0	0	0
		Very loose	6.0	SS-5	0	0	0	0
	-20.0		8.5	SS-6	0	0	0	0
10.0		Very soft, wet, brown, with few sand, FAT CLAY (CH)						
	-25.0	Undisturbed sample obtained from 13.0 to 15.0 feet. Approximately 24 inches of recovery.	13.0	ST-1				
15.0		Soft, wet, gray, with few sand, FAT CLAY (CH, A-7-6(48)), LL=65 PL=19 PI=46 NMC=58.5 %#200=93.8						
	-30.0		18.5	SS-7	0	0	0	0
20.0		Very soft						
	-35.0	Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery.	23.0	ST-2				
25.0		Soft, wet, dark gray, FAT CLAY with SAND (CH, A-7-6(76)), LL=104 PL=22 PI=82 NMC=62.1 %#200=84.7						
	-40.0		28.5	SS-8	0	0	0	0
30.0		Very soft						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-30	**Boring Location:**	653+20.5	**Offset:**	RT 30.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher
Elev.:	-11.5 ft.	**Northing:**	249004.244	**Easting:**	1812201.307	**Date Started:**	10/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-45.0	Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Firm, wet, dark gray, with trace wood, FAT CLAY with SAND (CH, A-7-6(26)), LL=63 PL=26 PI=37 NMC=54.5 %#200=71.5		33.0	ST-3					
40.0	-50.0	Very soft, light gray, with trace wood and few sand, FAT CLAY (CH, A-7-6(41)), LL=64 PL=26 PI=38 NMC=49.7 %#200=93.9		38.5	SS-9	1	1	1	2	
45.0	-55.0	Undisturbed sample obtained from 43.0 to 45.0 feet. Approximately 20 inches of recovery. Wet, tan, fine grained, POORLY GRADED SAND with SILT (SP-SM)		43.0	ST-4					
50.0	-60.0	Medium dense, wet, tan, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.6 %#200=2.2		48.5	SS-10	6	7	10	17	
55.0	-65.0	Medium dense		53.5	SS-11	8	9	9	18	
60.0	-70.0	Medium dense, medium to coarse grained		58.5	SS-12	9	9	5	14	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-30	**Boring Location:**	653+20.5	**Offset:**	RT 30.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher
Elev.:	-11.5 ft.	**Northing:**	249004.244	**Easting:**	1812201.307	**Date Started:**	10/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-75.0	Medium dense, brown, with trace clay and trace gravel		63.5	SS-13	6	6	12	18	●
65.0										
	-80.0	Loose, wet, brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=2.6		68.5	SS-14	8	7	3	10	▲ ● ○
70.0										
	-85.0	Sample not obtained.		73.5	-					
75.0										
	-90.0	Medium dense, fine to medium grained		78.5	SS-15	9	3	9	12	●
80.0										
	-95.0	Dense, tan		83.5	SS-16	14	17	15	32	●
85.0										
	-100.0	Medium dense, wet, tan, medium to coarse and fine grained, POORLY GRADED SAND with GRAVEL		88.5	SS-17	11	6	8	14	▲ ●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-30	**Boring Location:**	653+20.5	**Offset:**	RT 30.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher
Elev.:	-11.5 ft.	**Northing:**	249004.244	**Easting:**	1812201.307	**Date Started:**	10/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-105.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.7 %#200=3.8								
95.0		Medium dense		93.5	SS-18	12	13	9	22	
	-110.0			98.5						
100.0		Dense, light tan, fine to medium grained			SS-19	17	20	17	37	
	-115.0			103.5						
105.0		Medium dense, medium to coarse grained, with trace silt			SS-20	20	15	10	25	
	-120.0			108.5						
110.0		Very dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.8 %#200=17.4			SS-21	26	30	37	67	
	-125.0			113.5						
115.0		Very dense, wet, light gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=13.1			SS-22	23	32	37	69	
	-130.0			118.5						
120.0		Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP			SS-23	19	26	30	56	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-30	**Boring Location:**	653+20.5	**Offset:**	RT 30.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C. Tisher
Elev.:	-11.5 ft.	**Northing:**	249004.244	**Easting:**	1812201.307	**Date Started:**	10/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0										
	-135.0	PL=NP PI=NP NMC=23.4 %#200=11.4								
125.0		Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.2 %#200=9.3		123.5	SS-24	25	33	39	72	
	-140.0			128.5						
130.0		Very dense			SS-25	20	24	34	58	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-31	**Boring Location:**	655+95.5	**Offset:**	RT 60.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-10.0 ft.	**Northing:**	248860.627	**Easting:**	1812436.368	**Date Started:**	10/22/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
		Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0	-15.0	Loose, wet, brown, fine grained, POORLY GRADED SAND (SP)	4.5	SS-4	2	2	4	6
		Very loose	6.0	SS-5	2	2	2	4
			8.5	SS-6	0	0	0	0
10.0	-20.0	Very soft, wet, dark brown and gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=38.2 %#200=56.7						
			13.5	T-1				
15.0	-25.0	Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 24 inches of recovery. Soft, wet, gray, with few sand, FAT CLAY (CH, A-7-6(32)), LL=50 PL=17 PI=33 NMC=45.2 %#200=91.7						
		Very soft	18.5	SS-7	0	0	0	0
20.0	-30.0							
			23.5	T-2				
25.0	-35.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery.						
		Very soft	28.5	SS-8	0	0	0	0
30.0	-40.0							

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-31	**Boring Location:**	655+95.5	**Offset:**	RT 60.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-10.0 ft.	**Northing:**	248860.627	**Easting:**	1812436.368	**Date Started:**	10/22/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0									
				33.5						
35.0	-45.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Firm, moist to wet, gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=153.3 %#200=71.4			T-3					
				38.5						
40.0	-50.0	Very soft, moist, light gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=26.7 %#200=67.3			SS-9	0	0	0	0	
				43.5						
45.0	-55.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 6 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.1 %#200=35.1			T-4					
				48.5						
50.0	-60.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=4.5			SS-10	9	11	12	23	
				53.5						
55.0	-65.0	Medium dense			SS-11	5	7	7	14	
				58.5						
60.0	-70.0	Medium dense			SS-12	8	3	10	13	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-31	**Boring Location:**	655+95.5	**Offset:**	RT 60.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-10.0 ft.	**Northing:**	248860.627	**Easting:**	1812436.368	**Date Started:**	10/22/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-70.0								
		Loose		63.5	SS-13	8	6	4	10
65.0	-75.0								
		Loose, fine to medium grained, with trace gravel		68.5	SS-14	8	2	4	6
70.0	-80.0								
		Dense, with trace gravel		73.5	SS-15	14	14	17	31
75.0	-85.0								
		Medium dense		78.5	SS-16	12	8	10	18
80.0	-90.0								
		Medium dense, wet, gray, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=16.9 %#200=4.3		83.5	SS-17	5	11	12	23
85.0	-95.0								
		Very dense		88.5	SS-18	24	29	22	51
90.0	-100.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-31	**Boring Location:**	655+95.5	**Offset:**	RT 60.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-10.0 ft.	**Northing:**	248860.627	**Easting:**	1812436.368	**Date Started:**	10/22/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Dense, wet, gray, medium to fine and coarse grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=11.9 %#200=4.8		93.5	SS-19	12	15	21	36	
100.0	-110.0	Medium dense		98.5	SS-20	16	16	14	30	
105.0	-115.0	Medium dense, wet, greenish gray, medium to fine and coarse grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.1 %#200=4.6		103.5	SS-21	17	12	11	23	
110.0	-120.0	Dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.5 %#200=19.6		108.5	SS-22	11	16	18	34	
115.0	-125.0	Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-23	11	23	35	58	
120.0	-130.0	Dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP		118.5	SS-24	14	19	22	41	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-31	**Boring Location:**	655+95.5	**Offset:**	RT 60.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-10.0 ft.	**Northing:**	248860.627	**Easting:**	1812436.368	**Date Started:**	10/22/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-130.0	PL=NP PI=NP NMC=26.9 %#200=10.3								
				123.5						
125.0	-135.0	Very dense			SS-25	25	35	36	71	●
				128.5						
130.0	-140.0	Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.7 %#200=8.7			SS-26	26	27	28	55	▲ ○ ●
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-32	**Boring Location:**	658+90.6	**Offset:**	RT 23.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	248761.191	**Easting:**	1812715.357	**Date Started:**	10/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, gray, fine grained, SILTY SAND (SM)	1.5	SS-2	0	0	0	0
		Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, with trace shell	4.5	SS-4	0	2	2	4
		Very loose, wet, gray, fine grained, with trace organics and trace mica, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=34.1 %#200=43.6	6.0	SS-5	0	1	1	2
			8.5	SS-6	0	0	0	0
10.0	-20.0	Very soft, moist, gray, with trace shell and trace mica, LEAN CLAY with SAND (CL, A-6(11)), LL=38 PL=21 PI=17 NMC=39.4 %#200=71.6						
			13.5	SS-7	0	0	0	0
15.0	-25.0	Very soft, moist, gray, with few sand and trace wood, FAT CLAY (CH, A-7-6(43)), LL=63 PL=19 PI=44 NMC=55.0 %#200=90.3						
			18.5	T-1				
20.0	-30.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(67)), LL=85 PL=27 PI=58 NMC=54.5 %#200=97.8						
			23.5	SS-8	0	0	0	0
25.0	-35.0	Very soft, with trace shell						
			28.5	T-2				
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 22 inches of recovery.						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-32	**Boring Location:**	658+90.6	**Offset:**	RT 23.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	248761.191	**Easting:**	1812715.357	**Date Started:**	10/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0	Moist, gray, SANDY FAT CLAY (CH, A-7-6(21)), LL=55 PL=20 PI=35 NMC=52.4 %#200=65.4								
35.0	-45.0	Very soft, moist, brown, with little sand and trace organics, ELASTIC SILT (MH, A-5(10)), LL=64 PL=63 PI=1 NMC=127.5 %#200=85.9		33.5	SS-9	0	0	0	0	
40.0	-50.0	Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 18 inches of recovery. Very soft, moist, gray, with wood, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=148.1 %#200=83.2		38.5	T-3					
45.0	-55.0	Very soft, with trace sand and wood		43.5	SS-10	0	0	0	0	
50.0	-60.0	Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 14 inches of recovery. Wet, gray, fine to medium grained, POORLY GRADED SAND (SP)		48.5	T-4					
55.0	-65.0	Medium dense, with trace silt		53.5	SS-11	6	8	12	20	
60.0		Medium dense, wet, gray, medium to fine grained, with trace silt, POORLY GRADED SAND (SP,		58.5	SS-12	9	10	12	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-32	**Boring Location:**	658+90.6	**Offset:**	RT 23.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	248761.191	**Easting:**	1812715.357	**Date Started:**	10/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-70.0	A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.6 %#200=2.9								
		Medium dense, with trace silt and trace clay		63.5	SS-13	4	4	10	14	
65.0	-75.0									
		Medium dense, wet, gray, medium to fine grained, with trace silt and trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.9 %#200=3.6		68.5	SS-14	7	7	9	16	
70.0	-80.0									
		Medium dense, with trace silt		73.5	SS-15	9	9	8	17	
75.0	-85.0									
		Medium dense		78.5	SS-16	8	5	6	11	
80.0	-90.0									
		Medium dense, wet, light brown, medium to fine grained, with trace silt and trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.9 %#200=4.4		83.5	SS-17	11	12	16	28	
85.0	-95.0									
		Dense, fine to medium grained, with trace gravel		88.5	SS-18	10	17	18	35	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-32	**Boring Location:**	658+90.6	**Offset:**	RT 23.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	248761.191	**Easting:**	1812715.357	**Date Started:**	10/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-100.0								
		Very stiff, wet, gray, LEAN CLAY with SAND (CL, A-7-6(23)), LL=46 PL=17 PI=29 NMC=26.1 %#200=81.5		93.5	SS-19	6	7	9	16
95.0	-105.0								
		Very stiff, with trace gravel		98.5	SS-20	5	8	12	20
100.0	-110.0								
		Very stiff, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=21.0 %#200=51.2		103.5	SS-21	11	11	15	26
105.0	-115.0								
		Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		108.5	SS-22	24	30	30	60
110.0	-120.0								
		Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.2 %#200=10.0		113.5	SS-23	29	34	38	72
115.0	-125.0								
		Very dense		118.5	SS-24	23	26	28	54
120.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-32	**Boring Location:**	658+90.6	**Offset:**	RT 23.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.LaFroscia
Elev.:	-9.5 ft.	**Northing:**	248761.191	**Easting:**	1812715.357	**Date Started:**	10/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0	-130.0									
		Very dense		123.5	SS-25	25	29	37	66	
125.0	-135.0									
		Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.6 %#200=8.2		128.5	SS-26	26	35	43	78	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
	-10.0	Very loose, No Recovery		1.5	SS-2	0	0	0	0
		Very loose, wet, dark gray, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=31.5 %#200=22.8		3.0	SS-3	0	2	2	4
5.0		Very loose, with trace organics		4.5	SS-4	1	1	1	2
	-15.0	Very loose, with trace organics		6.0	SS-5	1	1	2	3
				8.5	SS-6	0	0	0	0
10.0		Very soft, moist, dark gray, with trace organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=38.3 %#200=70.7							
	-20.0	Undisturbed sample obtained from 11.5 to 13.5 feet. Approximately 24 inches of recovery. Moist, gray, with trace organics, LEAN CLAY (CL)		11.5	T-1				
15.0									
	-25.0	Very soft, moist, gray, with trace wood, FAT CLAY (CH)		16.5	SS-7	0	0	0	0
20.0									
	-30.0	Undisturbed sample obtained from 21.5 to 23.5 feet. Approximately 20 inches of recovery. Firm, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(73)), LL=88 PL=23 PI=65 NMC=69.5 %#200=98.0		21.5	T-2				
25.0									
	-35.0	Very soft, with trace wood		26.5	SS-8	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0									
	-40.0	Undisturbed sample obtained from 31.5 to 33.5 feet. Approximately 24 inches of recovery. Moist, gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=35 PL=14 PI=21 NMC=36.8 %#200=45.9		31.5	T-3				
35.0									
	-45.0	Very soft, moist, brown, with trace wood, LEAN CLAY (CL)		36.5	SS-9	0	0	0	0
40.0									
	-50.0	Undisturbed sample obtained from 41.5 to 43.5 feet. Approximately 24 inches of recovery. Moist, gray, FAT CLAY (CH)		41.5	T-4				
45.0									
	-55.0	Very soft, with trace wood		46.5	SS-10	0	0	1	1
50.0									
	-60.0	Undisturbed sample obtained from 51.5 to 53.5 feet. Approximately 20 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.8 %#200=24.2		51.5	T-5				
55.0									
	-65.0	Medium dense, wet, gray, medium to fine grained, WELL-GRADED SAND with SILT (SW-SM)		56.5	SS-11	6	9	12	21
60.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0	Medium dense		61.5	SS-12	8	10	10	20	
65.0										
	-75.0	Medium dense, wet, gray, medium to fine grained, with few clay, WELL-GRADED SAND with SILT (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=28.2 %#200=10.3		66.5	SS-13	8	3	8	11	
70.0										
	-80.0	Medium dense, with trace clay		71.5	SS-14	6	5	7	12	
75.0										
	-85.0	Medium dense		76.5	SS-15	7	7	7	14	
80.0										
	-90.0	Medium dense		81.5	SS-16	11	11	11	22	
85.0										
	-95.0	Dense, wet, gray, fine to medium grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=5.2		86.5	SS-17	18	18	14	32	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0	Medium dense, with trace gravel		91.5	SS-18	16	14	10	24	
95.0										
	-105.0	Stiff, moist, gray, SANDY LEAN CLAY (CL)		96.5	SS-19	8	5	7	12	
100.0										
	-110.0	Very stiff, moist, gray, with trace organics, SANDY LEAN CLAY (CL, A-6(8)), LL=33 PL=14 PI=19 NMC=18.3 %#200=60.9		101.5	SS-20	6	9	16	25	
105.0										
	-115.0	Hard, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(12)), LL=35 PL=15 PI=20 NMC=20.1 %#200=69.7		106.5	SS-21	12	16	19	35	
110.0										
	-120.0	Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		111.5	SS-22	23	31	35	66	
115.0										
	-125.0	Very dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=28.6 %#200=7.0		116.5	SS-23	20	27	25	52	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0									
	-130.0	Dense, gray		121.5	SS-24	18	19	19	38
125.0									
	-135.0	Very dense		126.5	SS-25	21	30	34	64
130.0									
	-140.0	Very dense		131.5	SS-26	25	34	38	72
135.0									
	-145.0	Dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=19.7 %#200=8.7		136.5	SS-27	21	22	26	48
140.0									
	-150.0	Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL)		141.5	SS-28	5	8	14	22
145.0									
	-155.0	Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-6(10)), LL=28 PL=12 PI=16 NMC=18.0 %#200=78.3		146.5	SS-29	6	11	16	27
150.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

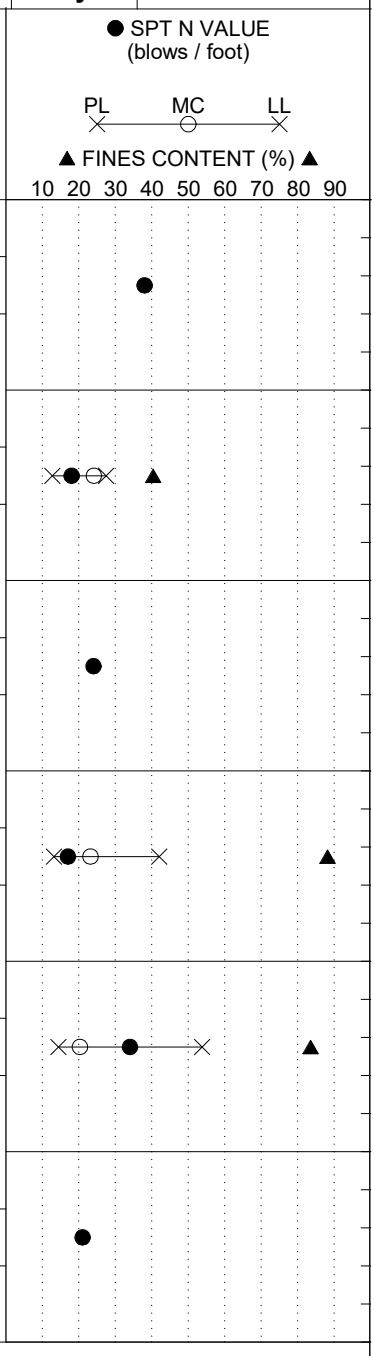
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0									
	-160.0	Hard		151.5	SS-30	13	15	23	38
155.0									
	-165.0	Medium dense, moist, greenish gray, fine grained, CLAYEY SAND (SC, A-6(2)), LL=27 PL=13 PI=14 NMC=24.1 %#200=40.4		156.5	SS-31	4	7	11	18
160.0									
	-170.0	Medium dense, wet, with trace organics		161.5	SS-32	5	10	14	24
165.0									
	-175.0	Very stiff, moist, greenish gray and light brown, with few sand and trace wood, LEAN CLAY (CL, A-7-6(25)), LL=42 PL=13 PI=29 NMC=23.2 %#200=88.2		166.5	SS-33	5	6	11	17
170.0									
	-180.0	Hard, moist, greenish gray, FAT CLAY with SAND (CH, A-7-6(33)), LL=54 PL=14 PI=40 NMC=20.3 %#200=83.5		171.5	SS-34	12	14	20	34
175.0									
	-185.0	Very stiff		176.5	SS-35	7	9	12	21
180.0									



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-33	**Boring Location:**	660+93.0	**Offset:**	RT 32.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	248658.582	**Easting:**	1812889.544	**Date Started:**	10/17/2016
Total Depth:	183.0 ft.	**Soil Depth:**	183.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
180.0										
	-190.0	Very stiff, moist, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(43)), LL=58 PL=16 PI=42 NMC=22.7 %#200=95.3		181.5	SS-36	8	12	15	27	
		Boring Terminated at 183.0 feet.								

LEGEND

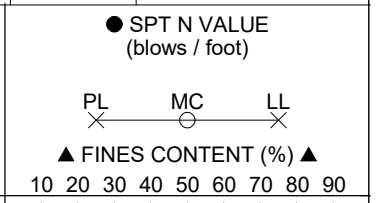
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-34	**Boring Location:**	664+60.2	**Offset:**	RT 61.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	248453.559	**Easting:**	1813194.266	**Date Started:**	4/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, wet, brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose	1.5	SS-2	0	0	0	0
	-15.0	Very loose, wet, brown, fine grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.0 %#200=15.6	3.0	SS-3	0	0	0	0
5.0		Very loose	4.5	SS-4	0	0	0	0
		Very loose, wet, brown, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=35.0 %#200=20.6	6.0	SS-5	0	0	0	0
	-20.0	Very loose	8.5	SS-6	0	0	0	0
10.0								
	-25.0	Very soft, moist, gray, FAT CLAY (CH)	13.5	SS-7	0	0	0	0
15.0								
	-30.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Moist, gray, with trace sand, FAT CLAY (CH, A-7-6(62)), LL=77 PL=22 PI=55 NMC=62.8 %#200=98.6	18.0	T-1				
20.0								
	-35.0	Very soft	23.5	SS-8	0	0	0	0
25.0								
	-40.0	Very soft, dark gray	28.5	SS-9	0	0	0	0
30.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-34	**Boring Location:**	664+60.2	**Offset:**	RT 61.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	248453.559	**Easting:**	1813194.266	**Date Started:**	4/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0		Disturbed sample obtained from 30.0 to 32.0 feet. Approximately 24 inches of recovery. Moist, gray, with trace sand, FAT CLAY (CH, A-7-6(74)), LL=92 PL=27 PI=65 NMC=77.0 %#200=96.5	30.0	T-2				
35.0	-45.0	Very soft, dark gray	33.5	SS-10	0	0	0	0
40.0	-50.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery. Stiff, brown, with trace organics	38.0	T-3				
45.0	-55.0	Very soft, dark gray	43.5	SS-11	0	0	0	0
50.0	-60.0	Undisturbed sample obtained from 48.0 to 50.0 feet. Approximately 24 inches of recovery. Top of tube: Soft, moist, gray, LEAN CLAY with SAND (CL, A-7-6(22)), LL=48 PL=19 PI=29 NMC=42.8 %#200=77.6 Bottom of tube: Gray, fine grained, POORLY GRADED SAND (SP)	48.0	T-4				
55.0	-65.0	Medium dense, moist, pale brown, fine to medium grained, POORLY GRADED SAND (SP)	53.5	SS-12	10	10	8	18
60.0	-70.0	Medium dense, moist, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND	58.5	SS-13	5	6	7	13

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-34	**Boring Location:**	664+60.2	**Offset:**	RT 61.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	248453.559	**Easting:**	1813194.266	**Date Started:**	4/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0		(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.8 %#200=2.8								
	-75.0	Medium dense		63.5	SS-14	5	10	10	20	
65.0										
	-80.0	Medium dense		68.5	SS-15	13	9	13	22	
70.0										
	-85.0	Medium dense		73.5	SS-16	10	10	16	26	
75.0										
	-90.0	Medium dense		78.5	SS-17	16	10	10	20	
80.0										
	-95.0	Dense, moist, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.9 %#200=2.9		83.5	SS-18	12	17	18	35	
85.0										
	-100.0	Medium dense		88.5	SS-19	13	13	11	24	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-34	**Boring Location:**	664+60.2	**Offset:**	RT 61.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	248453.559	**Easting:**	1813194.266	**Date Started:**	4/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0								
	-105.0	Undisturbed sample obtained from 93.0 to 95.0 feet. Approximately 12 inches of recovery. Moist, olive, SANDY LEAN CLAY (CL)	93.0	T-5				
95.0								
	-110.0	Stiff, moist, light gray, SANDY LEAN CLAY (CL, A-6(11)), LL=37 PL=13 PI=24 NMC=16.5 %#200=58.6	98.5	SS-20	4	7	8	15
100.0								
	-115.0	Undisturbed sample obtained from 103.0 to 105.0 feet. Approximately 10 inches of recovery. Moist, light gray, fine to medium grained, with few gravel, CLAYEY SAND (SC, A-6(3)), LL=27 PL=10 PI=17 NMC=26.0 %#200=43.4	103.0	T-6				
105.0								
	-120.0	Dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)	108.5	SS-21	8	15	22	37
110.0								
	-125.0	Very dense	113.5	SS-22	16	24	33	57
115.0								
	-130.0	Dense	118.5	SS-23	14	16	24	40
120.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-34	**Boring Location:**	664+60.2	**Offset:**	RT 61.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	248453.559	**Easting:**	1813194.266	**Date Started:**	4/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/24/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.7 %#200=7.1		123.5	SS-24	15	22	25	47	
130.0	-140.0	Dense		128.5	SS-25	16	20	15	35	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-35	**Boring Location:**	667+81.5	**Offset:**	RT 35.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-9.0 ft.	**Northing:**	248252.253	**Easting:**	1813481.545	**Date Started:**	10/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
		Very loose, wet, brown, fine grained, POORLY GRADED SAND (SP)	3.0	SS-3	0	0	0	0
5.0		Loose	4.5	SS-4	1	2	3	5
	-15.0	Loose	6.0	SS-5	3	3	3	6
			8.5	SS-6	0	0	0	0
10.0		Very loose, No Recovery						
	-20.0							
		Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(26)), LL=51 PL=19 PI=32 NMC=46.7 %#200=80.0	13.5	SS-7	0	0	0	0
15.0	-25.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace sand, LEAN CLAY (CL, A-7-6(31)), LL=49 PL=19 PI=30 NMC=52.0 %#200=96.4	18.5	T-1				
20.0	-30.0							
		Very soft	23.5	SS-8	0	0	0	0
25.0	-35.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.	28.5	T-2				
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-35	**Boring Location:**	667+81.5	**Offset:**	RT 35.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-9.0 ft.	**Northing:**	248252.253	**Easting:**	1813481.545	**Date Started:**	10/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Firm, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(63)), LL=83 PL=28 PI=55 NMC=71.5 %#200=98.1								
		Very soft		33.5	SS-9	0	0	0	0	
35.0	-45.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 10 inches of recovery. Loose, moist, gray and brown, medium to fine grained, CLAYEY SAND (SC, A-7-5(18)), LL=93 PL=39 PI=54 NMC=90.7 %#200=44.6		38.5	T-3					
40.0	-50.0									
		Loose, wet, brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.5 %#200=2.0		43.5	SS-10	3	4	3	7	
45.0	-55.0									
		Medium dense		48.5	SS-11	4	5	7	12	
50.0	-60.0									
		Loose, wet, brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.7 %#200=13.7		53.5	SS-12	5	4	4	8	
55.0	-65.0									
		Medium dense		58.5	SS-13	5	6	6	12	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-35	**Boring Location:**	667+81.5	**Offset:**	RT 35.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-9.0 ft.	**Northing:**	248252.253	**Easting:**	1813481.545	**Date Started:**	10/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
		Medium dense, wet, brown, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.2 %#200=5.3		63.5	SS-14	5	6	8	14	
65.0	-75.0									
		Medium dense		68.5	SS-15	8	9	11	20	
70.0	-80.0									
		Medium dense		73.5	SS-16	7	12	10	22	
75.0	-85.0									
		Dense, wet, light brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.3 %#200=3.0		78.5	SS-17	13	20	20	40	
80.0	-90.0									
		Loose, with trace gravel		83.5	SS-18	9	4	5	9	
85.0	-95.0									
		Loose, with trace gravel		88.5	SS-19	7	5	4	9	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-35	**Boring Location:**	667+81.5	**Offset:**	RT 35.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-9.0 ft.	**Northing:**	248252.253	**Easting:**	1813481.545	**Date Started:**	10/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0									
95.0		Medium dense, wet, brown, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.9 %#200=3.3		93.5	SS-20	16	8	5	13	
	-105.0									
100.0		Medium dense, light brown, fine to medium grained, with trace silt		98.5	SS-21	8	6	5	11	
	-110.0									
105.0		Medium dense, moist, greenish gray, fine grained, CLAYEY SAND (SC, A-6(6)), LL=33 PL=9 PI=24 NMC=21.4 %#200=44.9		103.5	SS-22	6	9	13	22	
	-115.0									
110.0		Hard, moist, greenish gray, with trace organics, LEAN CLAY (CL)		108.5	SS-23	10	13	20	33	
	-120.0									
115.0		Dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=16.3		113.5	SS-24	17	20	19	39	
	-125.0									
120.0		Dense		118.5	SS-25	16	23	24	47	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-35	**Boring Location:**	667+81.5	**Offset:**	RT 35.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-9.0 ft.	**Northing:**	248252.253	**Easting:**	1813481.545	**Date Started:**	10/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
		Dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		123.5	SS-26	15	21	25	46	
125.0										
	-135.0									
		Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=29.2 %#200=7.5		128.5	SS-27	16	23	22	45	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
	-10.0	Very loose, wet, black, fine grained, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
		Very loose		3.0	SS-3	0	0	0	0
5.0		Loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.6 %#200=12.3		4.5	SS-4	1	2	3	5
	-15.0	Loose		6.0	SS-5	2	2	3	5
10.0		Very soft, wet, black, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=37.0 %#200=65.7		8.5	SS-6	0	0	0	0
	-20.0								
15.0		Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(26)), LL=53 PL=19 PI=34 NMC=44.7 %#200=77.1		13.5	SS-7	0	0	0	0
	-25.0								
20.0		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, wet, brown, with trace sand, LEAN CLAY (CL, A-6(17)), LL=36 PL=19 PI=17 NMC=48.7 %#200=97.9		18.5	T-1				
	-30.0								
25.0		Very soft		23.5	SS-8	0	0	0	0
	-35.0								
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Soft, wet, brown, with trace sand, FAT CLAY (CH, A-7-6(67)), LL=87 PL=29 PI=58 NMC=74.6 %#200=98.3								
35.0		Very soft, with trace sand		33.5	SS-9	0	0	0	0	
	-45.0									
40.0		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Loose, wet, brown, medium to fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=192.6 %#200=30.1		38.5	T-3					
	-50.0									
45.0		Very loose		43.5	SS-10	0	0	0	0	
	-55.0									
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.3 %#200=16.8		48.5	T-4					
	-60.0									
55.0		Medium dense, moist, light brown, fine to medium grained, POORLY GRADED SAND (SP)		53.5	SS-11	6	8	11	19	
	-65.0									
60.0		Medium dense, moist, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)),		58.5	SS-12	7	8	9	17	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		LL=NP PL=NP PI=NP NMC=19.2 %#200=3.3								
	-70.0									
		Medium dense		63.5	SS-13	5	9	8	17	●
65.0										
	-75.0									
		Medium dense		68.5	SS-14	8	5	11	16	●
70.0										
	-80.0									
		Medium dense, moist, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=3.2		73.5	SS-15	8	9	9	18	▲ ● ○
75.0										
	-85.0									
		Medium dense		78.5	SS-16	6	6	7	13	●
80.0										
	-90.0									
		Medium dense, with trace gravel		83.5	SS-17	7	8	10	18	●
85.0										
	-95.0									
		Medium dense		88.5	SS-18	9	5	6	11	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-100.0	Loose		93.5	SS-19	7	5	5	10	●
100.0	-105.0	Very dense, light brown and brown		98.5	SS-20	19	42	50	92	●
105.0	-110.0	Medium dense, moist, brown, fine grained, CLAYEY SAND (SC, A-6(7)), LL=35 PL=11 PI=24 NMC=16.8 %#200=47.4		103.5	SS-21	10	13	17	30	⊗ ▲
110.0	-115.0	Medium dense, moist, brown, fine grained, CLAYEY SAND (SC, A-6(3)), LL=26 PL=10 PI=16 NMC=20.3 %#200=46.9		108.5	SS-22	17	13	17	30	⊗ ▲
115.0	-120.0	Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-23	28	37	37	74	●
120.0	-125.0	Very dense, light brown		118.5	SS-24	33	39	45	84	●

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0									
	-130.0	Dense		123.5	SS-25	18	26	24	50
125.0									
	-135.0	Medium dense		128.5	SS-26	11	6	20	26
130.0									
	-140.0	Dense, wet, light brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=6.9		133.5	SS-27	16	17	22	39
135.0									
	-145.0	Dense		138.5	SS-28	13	19	31	50
140.0									
	-150.0	Very dense		143.5	SS-29	26	24	28	52
145.0									
	-155.0	Hard, wet, brown, LEAN CLAY with SAND (CL, A-6(19)), LL=38 PL=11 PI=27 NMC=14.9 %#200=78.3		148.5	SS-30	12	18	20	38
150.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0									
	-160.0								
		Hard		153.5	SS-31	20	30	40	70
155.0									
	-165.0								
		Very stiff, gray		158.5	SS-32	10	13	17	30
160.0									
	-170.0								
		Very stiff, wet, gray, SANDY LEAN CLAY (CL, A-6(5)), LL=28 PL=14 PI=14 NMC=21.7 %#200=58.6		163.5	SS-33	4	7	15	22
165.0									
	-175.0								
		Very stiff		168.5	SS-34	1	13	14	27
170.0									
	-180.0								
		Hard, wet, gray, SANDY LEAN CLAY (CL, A-6(9)), LL=33 PL=14 PI=19 NMC=15.8 %#200=64.6		173.5	SS-35	11	15	21	36
175.0									
	-185.0								
		Top of spoon: Hard		178.5	SS-36	16	35	42	77
180.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-36	**Boring Location:**	671+12.0	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	248149.15	**Easting:**	1813769.258	**Date Started:**	10/5/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Bottom of spoon: Very dense, wet, gray, fine grained, POORLY GRADED SAND (SP) Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-37	**Boring Location:**	674+29.6	**Offset:**	RT 48.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	247944.402	**Easting:**	1814012.866	**Date Started:**	10/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/5/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery	0.0	SS-1	0	0	0	0
	-10.0	Very loose, wet, black, fine grained, SILTY SAND (SM)	1.5	SS-2	0	0	0	0
		Very loose	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.8 %#200=19.6	4.5	SS-4	0	2	2	4
	-15.0	Very loose	6.0	SS-5	2	2	2	4
10.0		Very loose, wet, black, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=34.4 %#200=38.6	8.5	SS-6	2	2	1	3
	-20.0		13.5	SS-7	0	0	0	0
15.0		Very soft, wet, black, FAT CLAY (CH)						
	-25.0		18.0	T-1				
20.0		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Soft, wet, dark gray, with trace sand, FAT CLAY (CH, A-7-6(35)), LL=56 PL=24 PI=32 NMC=55.6 %#200=97.0						
	-30.0		23.5	SS-8	0	0	0	0
25.0		Very soft						
	-35.0		28.0	T-2				
30.0		Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery. Soft, wet, gray, with trace sand, FAT CLAY (CH,						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-37	**Boring Location:**	674+29.6	**Offset:**	RT 48.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	247944.402	**Easting:**	1814012.866	**Date Started:**	10/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/5/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
		A-7-5(86)), LL=110 PL=38 PI=72 NMC=79.9 %#200=98.1								
	-40.0									
		Very soft		33.5	SS-9	0	0	0	0	
35.0										
	-45.0									
		Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery. Loose, wet, gray and brown, medium to fine grained, with trace wood, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=167.4 %#200=30.6		38.0	T-3					16
40.0										
	-50.0									
		Very loose, with trace shell and wood		43.5	SS-10	0	0	2	2	
45.0										
	-55.0									
		Undisturbed sample obtained from 48.0 to 50.0 feet. Approximately 23 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=36.2		48.0	T-4					
50.0										
	-60.0									
		Medium dense, wet, tan, fine to medium grained, POORLY GRADED SAND (SP)		53.5	SS-11	5	4	7	11	
55.0										
	-65.0									
		Medium dense, wet, tan, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP		58.5	SS-12	5	7	9	16	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-37	**Boring Location:**	674+29.6	**Offset:**	RT 48.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	247944.402	**Easting:**	1814012.866	**Date Started:**	10/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/5/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		PL=NP PI=NP NMC=20.0 %#200=3.2								
	-70.0									
		Medium dense		63.5	SS-13	7	10	13	23	
65.0										
	-75.0									
		Dense, wet, tan, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=3.0		68.5	SS-14	10	14	17	31	
70.0										
	-80.0									
		Medium dense, wet, tan, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=19.0 %#200=2.9		73.5	SS-15	7	11	15	26	
75.0										
	-85.0									
		Medium dense		78.5	SS-16	10	11	10	21	
80.0										
	-90.0									
		Medium dense		83.5	SS-17	16	13	11	24	
85.0										
	-95.0									
		Medium dense, wet, tan, medium to coarse and fine grained, POORLY GRADED SAND with GRAVEL		88.5	SS-18	9	7	6	13	
90.0										

LEGEND

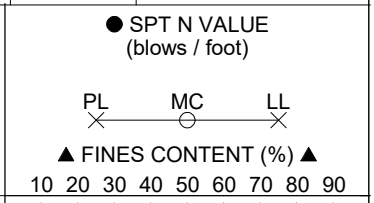
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-37	**Boring Location:**	674+29.6	**Offset:**	RT 48.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	247944.402	**Easting:**	1814012.866	**Date Started:**	10/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/5/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0									
	-100.0	(SP, A-1-a(0)), LL=NP PL=NP PI=NP NMC=15.4 %#200=3.4							
95.0		Medium dense		93.5	SS-19	9	10	10	20
	-105.0								
100.0		Medium dense, wet, tan, medium to coarse and fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.3 %#200=2.1		98.5	SS-20	7	10	11	21
	-110.0								
105.0		Very stiff, wet, greenish gray, SANDY LEAN CLAY (CL)		103.5	SS-21	5	8	10	18
	-115.0								
110.0		Hard, moist, brown, with trace gravel, SANDY LEAN CLAY (CL, A-6(6)), LL=31 PL=15 PI=16 NMC=21.4 %#200=58.6		108.5	SS-22	17	19	26	45
	-120.0								
115.0		Very dense, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-23	24	44	42	86
	-125.0								
120.0		Very dense		118.5	SS-24	15	29	32	61



LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-37	**Boring Location:**	674+29.6	**Offset:**	RT 48.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-7.5 ft.	**Northing:**	247944.402	**Easting:**	1814012.866	**Date Started:**	10/3/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/5/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
125.0		Very dense, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.0 %#200=7.1		123.5	SS-25	25	30	33	63	
	-135.0									
130.0		Very dense		128.5	SS-26	19	23	28	51	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-38	**Boring Location:**	676+16.1	**Offset:**	RT 39.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/B.Ellis
Elev.:	-8.0 ft.	**Northing:**	247845.513	**Easting:**	1814169.627	**Date Started:**	5/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/31/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-8.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
	-10.0	Very soft, wet, black, FAT CLAY (CH)	1.5	SS-2	0	0	0	0
		Very loose, wet, brown and black, fine grained, SILTY SAND (SM)	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=34.0 %#200=18.8	4.5	SS-4	0	0	0	0
	-15.0	Very loose	6.0	SS-5	0	0	0	0
		Undisturbed sample obtained from 8.0 to 10.0 feet. Approximately 24 inches of recovery.	8.0	T-1				
10.0		Very loose, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=32.5 %#200=49.6						
	-20.0							
		Very soft, wet, brown, FAT CLAY (CH)	13.5	SS-6	0	0	0	0
15.0								
	-25.0							
		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery.	18.0	T-2				
20.0		Soft, wet, brown, with trace sand, FAT CLAY (CH, A-7-6(56)), LL=74 PL=25 PI=49 NMC=56.3 %#200=98.9						
	-30.0							
		Very soft, brown and gray	23.5	SS-7	0	0	0	0
25.0								
	-35.0							
		Undisturbed sample obtained from 28.0 to 30.0 feet. Approximately 24 inches of recovery.	28.0	T-3				
30.0		Very soft, wet, gray, FAT CLAY (CH, A-7-6(79)),						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-38	**Boring Location:**	676+16.1	**Offset:**	RT 39.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/B.Ellis
Elev.:	-8.0 ft.	**Northing:**	247845.513	**Easting:**	1814169.627	**Date Started:**	5/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/31/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0		LL=93 PL=24 PI=69 NMC=76.2 %#200=99.3								
	-40.0									
		Very soft		33.5	SS-8	0	0	0	0	●
35.0										
	-45.0									
		Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery. Firm, wet, gray, with few sand, FAT CLAY (CH, A-7-5(82)), LL=109 PL=31 PI=78 NMC=82.7 %#200=90.9		38.0	T-4					× ○ ▲ ×
40.0										
	-50.0									
		Very soft, with trace organics		43.5	SS-9	0	0	0	0	●
45.0										
	-55.0									
		Undisturbed sample obtained from 48.0 to 50.0 feet. Approximately 24 inches of recovery. Firm, wet, gray, with trace sand, FAT CLAY (CH, A-7-6(50)), LL=69 PL=23 PI=46 NMC=61.1 %#200=96.5		48.0	T-5					× ○ × ▲
50.0										
	-60.0									
		Top of spoon: Very soft		53.5	SS-10	0	0	5	5	●
55.0		Bottom of spoon: Very loose, wet, brown, fine grained, POORLY GRADED SAND (SP)								
	-65.0									
		Medium dense		58.5	SS-11	3	5	6	11	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-38	**Boring Location:**	676+16.1	**Offset:**	RT 39.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/B.Ellis
Elev.:	-8.0 ft.	**Northing:**	247845.513	**Easting:**	1814169.627	**Date Started:**	5/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/31/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
65.0		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.6 %#200=4.8		63.5	SS-12	4	6	8	14	
	-75.0									
70.0		Loose, brownish gray, fine to medium grained		68.5	SS-13	4	4	6	10	
	-80.0									
75.0		Medium dense		73.5	SS-14	6	9	11	20	
	-85.0									
80.0		Medium dense, medium to fine grained		78.5	SS-15	11	11	14	25	
	-90.0									
85.0		Medium dense, with trace gravel		83.5	SS-16	9	8	10	18	
	-95.0									
90.0		Medium dense, wet, brownish gray, fine grained, POORLY GRADED GRAVEL with SAND (GP,		88.5	SS-17	10	8	9	17	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-38	**Boring Location:**	676+16.1	**Offset:**	RT 39.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/B.Ellis
Elev.:	-8.0 ft.	**Northing:**	247845.513	**Easting:**	1814169.627	**Date Started:**	5/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/31/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0	A-1-a(0)), LL=NP PL=NP PI=NP NMC=14.7 %#200=0.8								
95.0		Medium dense		93.5	SS-18	7	12	11	23	●
	-105.0									
100.0		Medium dense, wet, brownish gray, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP)		98.5	SS-19	-	8	11	19	●
	-110.0									
105.0		Very stiff, wet, gray, LEAN CLAY with SAND (CL)		103.5	SS-20	6	8	10	18	●
	-115.0									
110.0		Very stiff, wet, gray, LEAN CLAY with SAND (CL, A-7-6(19)), LL=42 PL=15 PI=27 NMC=19.2 %#200=77.4		108.5	SS-21	6	9	11	20	● ▲
	-120.0									
115.0		Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-22	20	30	38	68	●
	-125.0									
120.0		Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)),		118.5	SS-23	21	31	33	64	▲ ○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-38	**Boring Location:**	676+16.1	**Offset:**	RT 39.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/B.Ellis
Elev.:	-8.0 ft.	**Northing:**	247845.513	**Easting:**	1814169.627	**Date Started:**	5/22/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/31/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0	LL=NP PL=NP PI=NP NMC=20.8 %#200=7.2								
125.0		Very dense, fine grained		123.5	SS-24	11	21	31	52	●
	-135.0									
130.0		Very dense, fine to medium grained		128.5	SS-25	14	24	32	56	●
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-39	**Boring Location:**	679+62.2	**Offset:**	RT 34.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/S.Howard
Elev.:	-8.0 ft.	**Northing:**	247640.616	**Easting:**	1814448.152	**Date Started:**	5/17/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/19/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black and brown, CLAY (CH)		0.0	SS-1	0	0	0	0
	-10.0	Very soft		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-15.0	Very soft, wet, black and brown, FAT CLAY with SAND (CH, A-7-6(33)), LL=63 PL=27 PI=36 NMC=135.9 %#200=82.7		6.0	SS-5	0	0	0	0
		Very soft		8.5	SS-6	0	0	0	0
10.0	-20.0								
15.0		Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 24 inches of recovery. Wet, gray, with few sand, FAT CLAY (CH, A-7-6(92)), LL=116 PL=29 PI=87 NMC=58.0 %#200=91.9		13.5	T-1				
	-25.0								
20.0		Top of spoon: Firm, brown		18.5	SS-7	1	3	2	5
		Bottom of spoon: Firm, wet, brown, SILT with SAND (ML)							
	-30.0								
25.0		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Very soft, wet, gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=35.0 %#200=80.4		23.0	T-2				
	-35.0								
30.0		Very soft		28.5	SS-8	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-39	**Boring Location:**	679+62.2	**Offset:**	RT 34.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/S.Howard
Elev.:	-8.0 ft.	**Northing:**	247640.616	**Easting:**	1814448.152	**Date Started:**	5/17/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/19/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
	-40.0									
		Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Soft, wet, gray, with trace sand, FAT CLAY (CH, A-7-6(79)), LL=96 PL=27 PI=69 NMC=71.5 %#200=98.4		33.0	T-3					
35.0	-45.0									
		Very soft		38.5	SS-9	0	0	0	0	
40.0	-50.0									
		Undisturbed sample obtained from 43.0 to 45.0 feet. Approximately 24 inches of recovery. Firm, wet, gray, FAT CLAY (CH, A-7-6(50)), LL=66 PL=22 PI=44 NMC=42.5 %#200=99.5		43.0	T-4					
45.0	-55.0									
		Loose, moist, brown, fine grained, POORLY GRADED SAND (SP)		48.5	SS-10	1	3	3	6	
50.0	-60.0									
		Very soft, wet, gray, SANDY LEAN CLAY (CL)		53.5	SS-11	0	0	0	0	
55.0	-65.0									
		Undisturbed sample obtained from 58.0 to 60.0 feet. Approximately 24 inches of recovery. Wet, gray, SANDY LEAN CLAY (CL, A-6(13)), LL=39		58.0	T-5					
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-39	**Boring Location:**	679+62.2	**Offset:**	RT 34.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/S.Howard
Elev.:	-8.0 ft.	**Northing:**	247640.616	**Easting:**	1814448.152	**Date Started:**	5/17/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/19/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		PL=14 PI=25 NMC=37.2 %#200=64.8								
	-70.0									
65.0		Loose, wet, brown, fine grained, POORLY GRADED SAND (SP)		63.5	SS-12	4	5	5	10	
	-75.0									
70.0		Medium dense, moist, fine to medium grained		68.5	SS-13	3	6	6	12	
	-80.0									
75.0		Medium dense		73.5	SS-14	7	10	9	19	
	-85.0									
80.0		Medium dense, with trace gravel		78.5	SS-15	9	10	10	20	
	-90.0									
85.0		Medium dense		83.5	SS-16	8	7	10	17	
	-95.0									
90.0		Medium dense, moist, brown, medium to coarse and fine grained, POORLY GRADED SAND with GRAVEL		88.5	SS-17	6	9	13	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-39	**Boring Location:**	679+62.2	**Offset:**	RT 34.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/S.Howard
Elev.:	-8.0 ft.	**Northing:**	247640.616	**Easting:**	1814448.152	**Date Started:**	5/17/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/19/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0									
	-100.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.8 %#200=2.8							
95.0		Dense, fine to medium grained		93.5	SS-18	15	21	22	43
	-105.0								
100.0		Dense		98.5	SS-19	13	18	24	42
	-110.0								
105.0		Very stiff, moist, gray, FAT CLAY with SAND (CH, A-7-6(33)), LL=54 PL=16 PI=38 NMC=20.8 %#200=84.2		103.5	SS-20	4	9	11	20
	-115.0								
110.0		Very stiff		108.5	SS-21	3	11	12	23
	-120.0								
115.0		Very stiff		113.5	SS-22	8	14	16	30
	-125.0								
120.0		Hard, moist, gray, SILT (ML)		118.5	SS-23	15	25	28	53

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-39	**Boring Location:**	679+62.2	**Offset:**	RT 34.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.LaFroscia/S.Howard
Elev.:	-8.0 ft.	**Northing:**	247640.616	**Easting:**	1814448.152	**Date Started:**	5/17/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/19/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
		Very stiff		123.5	SS-24	12	16	14	30	●
125.0										
	-135.0									
		Very dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.8 %#200=18.6		128.5	SS-25	19	27	37	64	▲ ○ ●
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-40	**Boring Location:**	683+01.9	**Offset:**	LT 14.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	247467.651	**Easting:**	1814744.301	**Date Started:**	10/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/3/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, SILT (ML)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Very soft	3.0	SS-3	0	0	0	0
5.0		Soft, with trace sand	4.5	SS-4	0	0	3	3
	-10.0	Soft, wet, gray, SANDY SILT (ML)	6.0	SS-5	0	2	2	4
		Soft, No Recovery	8.5	SS-6	0	2	1	3
10.0	-15.0							
15.0		Very soft, wet, gray, with trace clay, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=36.7 %#200=50.3	13.5	SS-7	0	0	0	0
	-20.0							
20.0		Very soft, wet, gray, with trace sand, LEAN CLAY (CL)	18.5	SS-8	0	0	0	0
	-25.0							
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft, wet, gray, with few sand, LEAN CLAY (CL, A-7-6(23)), LL=43 PL=17 PI=26 NMC=62.3 %#200=88.8	23.5	T-1				
	-30.0							
30.0		Very soft	28.5	SS-9	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-40	**Boring Location:**	683+01.9	**Offset:**	LT 14.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	247467.651	**Easting:**	1814744.301	**Date Started:**	10/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/3/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Moist, dark gray		33.5	T-2					
40.0	-40.0	Very soft		38.5	SS-10	0	0	0	0	●
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Loose, wet, gray, medium to fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=162.3 %#200=40.6		43.5	T-3					× ▲
50.0	-50.0	Very soft, with trace wood		48.5	SS-11	0	0	0	0	●
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with few sand, FAT CLAY (CH, A-7-6(38)), LL=56 PL=19 PI=37 NMC=38.5 %#200=93.8		53.5	T-4					× ○ × ▲
60.0	-60.0	Very loose, gray, fine grained, with trace clay, POORLY GRADED SAND (SP)		58.5	SS-12	0	0	2	2	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-40	**Boring Location:**	683+01.9	**Offset:**	LT 14.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	247467.651	**Easting:**	1814744.301	**Date Started:**	10/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/3/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
		Medium dense		63.5	SS-13	4	4	7	11	●
65.0										
	-70.0									
		Medium dense, wet, gray, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.4 %#200=4.0		68.5	SS-14	7	11	12	23	▲ ●
70.0										
	-75.0									
		Medium dense		73.5	SS-15	9	14	14	28	●
75.0										
	-80.0									
		Dense, with trace gravel		78.5	SS-16	12	15	20	35	●
80.0										
	-85.0									
		Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=20.8 %#200=4.7		83.5	SS-17	15	22	29	51	▲ ○ ●
85.0										
	-90.0									
		Dense, tan		88.5	SS-18	15	18	24	42	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-40	**Boring Location:**	683+01.9	**Offset:**	LT 14.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	247467.651	**Easting:**	1814744.301	**Date Started:**	10/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/3/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Dense, wet, tan, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.0 %#200=4.2		93.5	SS-19	14	18	19	37	
	-100.0									
100.0		Medium dense, wet, tan, medium to fine grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.0 %#200=6.4		98.5	SS-20	6	4	8	12	
	-105.0									
105.0		Medium dense, wet, gray, fine grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=3.5		103.5	SS-21	16	15	13	28	
	-110.0									
110.0		Medium dense, No Recovery		108.5	SS-22	9	11	13	24	
	-115.0									
115.0		Very stiff, green, LEAN CLAY with SAND (CL, A-7-6(26)), LL=47 PL=12 PI=35 NMC=17.2 %#200=79.2		113.5	SS-23	10	14	15	29	
	-120.0									
120.0		Very dense, wet, greenish gray, fine grained, SILTY SAND (SM)		118.5	SS-24	19	29	35	64	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-40	**Boring Location:**	683+01.9	**Offset:**	LT 14.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	247467.651	**Easting:**	1814744.301	**Date Started:**	10/1/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	10/3/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Very dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=25.6		123.5	SS-25	20	26	29	55	
125.0	-130.0									
		Very dense		128.5	SS-26	22	29	39	68	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-41	**Boring Location:**	686+24.9	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	247234.617	**Easting:**	1814970.33	**Date Started:**	9/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-3.0	Very soft, No Recovery	0.0	SS-1	0	0	0	0
	-5.0	Very soft, wet, black, SILT (ML)	1.5	SS-2	0	0	0	0
		Very soft, wet, black, with few sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=198.1 %#200=92.0	3.0	SS-3	0	0	0	0
5.0		Very soft	4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, black, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=136.1 %#200=72.6	6.0	SS-5	0	0	0	0
		Very soft, dark gray	8.5	SS-6	0	0	1	1
10.0								
	-15.0							
		Very soft, wet, dark gray, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=42.2 %#200=54.2	13.5	SS-7	0	0	0	0
15.0								
	-20.0							
		Very soft, wet, dark gray, FAT CLAY (CH)	18.5	SS-8	0	0	0	0
20.0								
	-25.0							
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Very soft, wet, gray, with few sand, FAT CLAY (CH, A-7-6(38)), LL=59 PL=22 PI=37 NMC=53.5 %#200=91.5	23.0	T-1				
25.0								
	-30.0							
		Very soft	28.5	SS-9	0	0	0	0
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-41	**Boring Location:**	686+24.9	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	247234.617	**Easting:**	1814970.33	**Date Started:**	9/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
		Undisturbed sample was attempted from 33.0 to 35.0 feet. No recovery. Disturbed Split Spoon sample taken at 33.5 feet for visual classification only. Dark gray		33.0	T-2					
35.0				33.5	SS-10					
	-40.0									
		Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery. Firm, wet, gray, with trace sand, FAT CLAY (CH, A-7-5(83)), LL=101 PL=31 PI=70 NMC=76.1 %#200=99.0		38.0	T-3					
40.0										
	-45.0									
		Very soft, brown, with wood		43.5	SS-11	0	0	0	0	
45.0										
	-50.0									
		Undisturbed sample obtained from 48.0 to 50.0 feet. Approximately 24 inches of recovery. Very soft, wet, gray, FAT CLAY with SAND (CH, A-7-6(36)), LL=61 PL=20 PI=41 NMC=39.8 %#200=84.2		48.0	T-4					
50.0										
	-55.0									
		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.9 %#200=26.7		53.5	SS-12	0	0	2	2	
55.0										
	-60.0									
		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=28.6		58.5	SS-13	0	0	2	2	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-41	**Boring Location:**	686+24.9	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	247234.617	**Easting:**	1814970.33	**Date Started:**	9/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲
60.0										10 20 30 40 50 60 70 80 90
	-65.0	%#200=40.2								
65.0		Very loose, wet, tan, fine to medium grained, POORLY GRADED SAND (SP)		63.5	SS-14	1	2	2	4	●
	-70.0									
70.0		Medium dense, reddish brown and gray, medium to coarse grained		68.5	SS-15	7	8	8	16	●
	-75.0									
75.0		Medium dense, wet, tan, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.4 %#200=4.3		73.5	SS-16	12	13	15	28	▲ ○ ●
	-80.0									
80.0		Medium dense		78.5	SS-17	9	10	15	25	●
	-85.0									
85.0		Very dense		83.5	SS-18	18	25	29	54	●
	-90.0									
90.0		Dense, fine grained		88.5	SS-19	12	16	17	33	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-41	**Boring Location:**	686+24.9	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	247234.617	**Easting:**	1814970.33	**Date Started:**	9/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense, fine to medium grained		93.5	SS-20	16	13	12	25	
100.0	-100.0	Medium dense, wet, dark gray and tan, fine to medium grained, WELL-GRADED SAND with SILT and GRAVEL (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.2 %#200=7.9		98.5	SS-21	10	12	14	26	
105.0	-105.0	Very stiff, wet, greenish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=56.1		103.5	SS-22	10	12	12	24	
110.0	-110.0	Hard		108.5	SS-23	10	27	27	54	
115.0	-115.0	Stiff, wet, gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=18.5 %#200=83.0		113.5	SS-24	5	6	8	14	
120.0	-120.0	Very stiff, wet, green, with few sand, LEAN CLAY (CL, A-7-6(25)), LL=43 PL=16 PI=27 NMC=19.9		118.5	SS-25	7	11	14	25	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-41	**Boring Location:**	686+24.9	**Offset:**	RT 17.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-3.0 ft.	**Northing:**	247234.617	**Easting:**	1814970.33	**Date Started:**	9/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0		%#200=90.9								
	-125.0									
		Very dense, wet, green, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=23.8 %#200=44.0		123.5	SS-26	15	24	27	51	
125.0										
	-130.0									
		Dense		128.5	SS-27	15	23	17	40	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-42	**Boring Location:**	687+64.2	**Offset:**	RT 31.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.0 ft.	**Northing:**	247132.361	**Easting:**	1815065.944	**Date Started:**	9/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black and dark brown, with trace organics, SANDY SILT (ML)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Very soft	3.0	SS-3	0	0	0	0
5.0		Soft, wet, black and dark brown, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=85.8 %#200=50.2	4.5	SS-4	0	0	3	3
	-10.0	Very loose, wet, dark gray, fine to medium grained, with trace organics, SILTY SAND (SM)	6.0	SS-5	2	2	1	3
10.0		Very soft, moist, gray, with organics, LEAN CLAY with SAND (CL, A-7-6(18)), LL=46 PL=24 PI=22 NMC=80.0 %#200=80.1	8.5	SS-6	0	0	0	0
	-15.0							
15.0		Very loose, wet, dark gray, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.1 %#200=25.5	13.5	SS-7	0	0	0	0
	-20.0							
20.0		Very soft, moist, dark gray, with trace shells, FAT CLAY (CH)	18.5	SS-8	0	0	0	0
	-25.0							
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace organics and trace sand, FAT CLAY (CH, A-7-6(49)), LL=65 PL=20 PI=45 NMC=53.3 %#200=96.6	23.5	T-1				
	-30.0							
30.0		Very soft, dark gray, with trace organics	28.5	SS-9	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-42	**Boring Location:**	687+64.2	**Offset:**	RT 31.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.0 ft.	**Northing:**	247132.361	**Easting:**	1815065.944	**Date Started:**	9/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, with trace organics and trace sand, FAT CLAY (CH, A-7-5(64)), LL=86 PL=33 PI=53 NMC=74.2 %#200=99.0		33.5	T-2					
	-40.0									
		Very soft		38.5	SS-10	0	0	0	0	
40.0										
	-45.0									
45.0		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 8 inches of recovery. Very soft, moist, gray, with organics and trace sand, FAT CLAY (CH, A-7-5(62)), LL=91 PL=39 PI=52 NMC=108.7 %#200=96.2		43.5	T-3					
	-50.0									
		Very soft, gray and light gray, with trace organics		48.5	SS-11	0	0	0	0	
50.0										
	-55.0									
55.0		Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, moist, light gray, with trace organics and trace sand, FAT CLAY (CH, A-7-6(38)), LL=55 PL=20 PI=35 NMC=36.1 %#200=97.2		53.5	T-4					
	-60.0									
		Very soft, dark gray		58.5	SS-12	0	0	0	0	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-42	**Boring Location:**	687+64.2	**Offset:**	RT 31.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.0 ft.	**Northing:**	247132.361	**Easting:**	1815065.944	**Date Started:**	9/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Undisturbed sample attempted from 63.5 to 65.5 feet. Difficult pushing tube last few inches. No recovery.		63.5	T-5					
	-70.0									
70.0		Medium dense, wet, brownish gray, medium to fine grained, POORLY GRADED SAND with SILT (SP-SM)		68.5	SS-13	5	6	10	16	●
	-75.0									
75.0		Medium dense, wet, brownish gray, medium to fine grained, with trace clay and few gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.3 %#200=5.6		73.5	SS-14	7	11	14	25	▲ ●
	-80.0									
80.0		Dense, light brown and gray		78.5	SS-15	9	18	18	36	●
	-85.0									
85.0		Dense, light brown, medium to fine grained		83.5	SS-16	11	14	18	32	●
	-90.0									
90.0		Medium dense, wet, brownish gray, medium to fine grained, with few gravel, POORLY GRADED SAND		88.5	SS-17	11	12	17	29	▲ ○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-42	**Boring Location:**	687+64.2	**Offset:**	RT 31.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.0 ft.	**Northing:**	247132.361	**Easting:**	1815065.944	**Date Started:**	9/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0									
	-95.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.1 %#200=2.6							
95.0		Dense, light brown		93.5	SS-18	12	13	20	33
	-100.0								
100.0		Medium dense, wet, light gray, medium to fine grained, with trace clay, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.2 %#200=4.4		98.5	SS-19	12	12	8	20
	-105.0								
105.0		Hard, moist, gray and dark brown, with few sand, LEAN CLAY (CL, A-6(18)), LL=39 PL=18 PI=21 NMC=24.7 %#200=85.8		103.5	SS-20	10	19	20	39
	-110.0								
110.0		Medium dense, wet, gray and dark brown, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=35.6 %#200=25.2		108.5	SS-21	3	8	11	19
	-115.0								
115.0		Very stiff, moist, gray and greenish gray, LEAN CLAY (CL)		113.5	SS-22	2	5	15	20
	-120.0								
120.0		Dense, wet, greenish gray, fine grained, SILTY SAND (SM)		118.5	SS-23	14	19	17	36

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-42	**Boring Location:**	687+64.2	**Offset:**	RT 31.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.0 ft.	**Northing:**	247132.361	**Easting:**	1815065.944	**Date Started:**	9/27/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/28/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Dense, moist, greenish gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=36 PL=9 PI=27 NMC=26.4 %#200=37.0		123.5	SS-24	19	16	17	33	
125.0										
	-130.0									
		Very dense, wet, light gray, fine grained, SILTY SAND (SM)		128.5	SS-25	26	30	30	60	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Organics (wood)	0.0	SS-1	0	0	0	0
	-5.0	Organics (wood and grass)	1.5	SS-2	0	0	0	0
		Very loose, wet, black, fine grained, with organics, SILTY SAND (SM)	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, black, fine grained, with trace organics, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=83.0 %#200=49.4	4.5	SS-4	0	0	1	1
	-10.0	Very loose, wet, black, fine grained, with trace organics and trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=34.0 %#200=15.1	6.0	SS-5	1	1	3	4
10.0		Very loose, gray, with trace shells	8.5	SS-6	2	1	2	3
	-15.0							
15.0		Very loose, wet, black, fine grained, with trace organics and trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.8 %#200=21.4	13.5	SS-7	1	2	2	4
	-20.0							
20.0		Very soft, moist, gray, with trace organics and few sand, FAT CLAY (CH, A-7-6(42)), LL=62 PL=19 PI=43 NMC=50.4 %#200=91.0	18.5	SS-8	0	0	0	0
	-25.0							
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace shell, FAT CLAY (CH)	23.5	T-1				
	-30.0							
30.0		Very soft, moist, gray, with trace shell	28.5	SS-9	0	0	0	0

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 20 inches of recovery. Soft, moist, gray, FAT CLAY (CH, A-7-6(76)), LL=92 PL=26 PI=66 NMC=68.2 %#200=99.1		33.5	T-2					
40.0	-40.0	Very soft		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, brown, with little sand and trace organics, ELASTIC SILT (MH, A-7-5(52)), LL=89 PL=39 PI=50 NMC=112.0 %#200=86.9		43.5	T-3					
50.0	-50.0	Very soft, moist, gray, with trace organics, LEAN CLAY (CL)		48.5	SS-11	0	0	0	0	
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with trace sand, LEAN CLAY (CL, A-7-6(30)), LL=47 PL=17 PI=30 NMC=37.0 %#200=94.1		53.5	T-4					
60.0	-60.0	Very loose, wet, gray, fine grained, with trace clay and trace gravel, SILTY SAND (SM, A-4(0)), LL=NP		58.5	SS-12	0	0	1	1	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	PL=NP PI=NP NMC=26.8 %#200=49.6								
65.0		Medium dense, wet, light gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=15.9		63.5	SS-13	1	4	7	11	
	-70.0									
70.0		Medium dense, wet, light gray, fine to medium grained, with trace silt, POORLY GRADED SAND (SP)		68.5	SS-14	7	12	13	25	
	-75.0									
75.0		Dense, with trace gravel		73.5	SS-15	12	18	16	34	
	-80.0									
80.0		Dense, wet, light gray, fine to medium grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.3 %#200=4.5		78.5	SS-16	17	22	24	46	
	-85.0									
85.0		Medium dense, pale brown		83.5	SS-17	14	13	14	27	
	-90.0									
90.0		Medium dense		88.5	SS-18	11	12	15	27	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Dense		93.5	SS-19	13	16	16	32	
	-100.0									
100.0		Medium dense, fine to coarse grained, with trace gravel		98.5	SS-20	8	8	10	18	
	-105.0									
105.0		Medium dense, wet, pale brown, medium to fine and coarse grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.1 %#200=1.8		103.5	SS-21	15	15	12	27	
	-110.0									
110.0		Top of spoon: Medium dense, fine to coarse grained Bottom of spoon: Very stiff, wet, greenish gray, with trace organics, LEAN CLAY (CL)		108.5	SS-22	5	5	11	16	
	-115.0									
115.0		Very dense, wet, gray, fine to medium grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.8 %#200=14.2		113.5	SS-23	10	20	35	55	
	-120.0									
120.0		Top of spoon: Hard, wet, gray, LEAN CLAY (CL)		118.5	SS-24	12	13	23	36	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0	Bottom of spoon: Dense, wet, gray, fine grained, CLAYEY SAND (SC)								
125.0		Dense, wet, green, fine grained, CLAYEY SAND (SC, A-2-6(2)), LL=39 PL=15 PI=24 NMC=22.8 %#200=31.7		123.5	SS-25	11	17	26	43	
	-130.0									
130.0		Dense		128.5	SS-26	9	14	17	31	
	-135.0									
135.0		Hard, green, wet, SANDY LEAN CLAY (CL, A-6(10)), LL=35 PL=14 PI=21 NMC=16.7 %#200=64.4		133.5	SS-27	11	14	18	32	
	-140.0									
140.0		Very dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		138.5	SS-28	25	33	37	70	
	-145.0									
145.0		Very dense		143.5	SS-29	38	43	47	90	
	-150.0									
150.0		Very dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)),		148.5	SS-30	28	33	38	71	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
150.0		LL=NP PL=NP PI=NP NMC=21.0 %#200=6.4							
	-155.0								
		Very dense, gray		153.5	SS-31	23	36	50/0	100+
155.0									
	-160.0								
		Very dense		158.5	SS-32	20	29	27	56
160.0									
	-165.0								
		Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.2 %#200=5.1		163.5	SS-33	17	28	28	56
165.0									
	-170.0								
		Medium dense, wet, green, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=37.8		168.5	SS-34	7	8	12	20
170.0									
	-175.0								
		Very stiff, wet, green, with trace sand, FAT CLAY (CH, A-7-5(44)), LL=71 PL=33 PI=38 NMC=31.4 %#200=95.9		173.5	SS-35	8	10	16	26
175.0									
	-180.0								
		Very stiff, wet, gray, with few sand, FAT CLAY (CH, A-7-6(50)), LL=67 PL=14 PI=53 NMC=27.0		178.5	SS-36	6	10	13	23
180.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-43	**Boring Location:**	692+72.7	**Offset:**	LT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	246827.893	**Easting:**	1815475.05	**Date Started:**	8/31/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		%#200=88.8 Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-44	**Boring Location:**	696+22.8	**Offset:**	RT 12.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.5 ft.	**Northing:**	246507.5386	**Easting:**	1815727.607	**Date Started:**	8/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, black, SANDY FAT CLAY (CH)		0.0	SS-1	0	0	0	0
		Very soft		1.5	SS-2	0	0	0	0
		Very soft, wet, black, SANDY FAT CLAY (CH, A-7-5(57)), LL=131 PL=37 PI=94 NMC=199.3 %#200=61.8		3.0	SS-3	0	0	0	0
5.0				4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, gray, with trace organics, SANDY SILT (ML)		6.0	SS-5	0	2	0	2
		Very soft, moist, gray, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=77.9 %#200=59.9							
		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=40.6 %#200=31.1		8.5	SS-6	0	0	0	0
10.0	-15.0								
		Very soft, moist, gray, with trace shell, SANDY LEAN CLAY (CL)		13.5	SS-7	0	0	0	0
15.0	-20.0								
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(44)), LL=62 PL=23 PI=39 NMC=57.2 %#200=98.9		18.5	T-1				
20.0	-25.0								
		Very soft, with trace wood		23.5	SS-8	0	0	0	0
25.0	-30.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-44	**Boring Location:**	696+22.8	**Offset:**	RT 12.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.5 ft.	**Northing:**	246507.5386	**Easting:**	1815727.607	**Date Started:**	8/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0									
	-35.0	Soft, moist, gray, FAT CLAY with SAND (CH, A-7-6(45)), LL=78 PL=27 PI=51 NMC=64.5 %#200=81.1							
				33.5	SS-9	0	0	0	0
35.0		Very soft, with trace shell							
	-40.0								
				38.5	T-3				
40.0		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, FAT CLAY with SAND (A-7-6(39)), LL=71 PL=24 PI=47 NMC=58.6 %#200=78.9							
	-45.0								
				43.5	SS-10	0	1	1	2
45.0		Very soft, with trace wood							
	-50.0								
				48.5	T-4				
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with trace organics and few sand, FAT CLAY (CH, A-7-6(37)), LL=57 PL=18 PI=39 NMC=26.7 %#200=89.1							
	-55.0								
				53.5	SS-11	3	3	3	6
55.0		Loose, wet, gray, fine grained, SILTY SAND (SM)							
	-60.0								
				58.5	SS-12	3	1	2	3
60.0		Very loose, wet, gray, fine grained, with trace clay lenses, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-44	**Boring Location:**	696+22.8	**Offset:**	RT 12.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.5 ft.	**Northing:**	246507.5386	**Easting:**	1815727.607	**Date Started:**	8/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	PI=NP NMC=30.4 %#200=29.1								
65.0		Medium dense, wet, pale brown, medium to fine grained, with trace gravel and trace clay, POORLY GRADED SAND (SP)		63.5	SS-13	7	9	9	18	
	-70.0									
70.0		Medium dense, wet, pale brown, medium to fine grained, with trace clay, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.6 %#200=3.8		68.5	SS-14	5	6	6	12	
	-75.0									
75.0		Dense		73.5	SS-15	11	16	16	32	
	-80.0									
80.0		Medium dense, wet, pale brown, medium to fine grained, with trace gravel and trace clay, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.8 %#200=4.1		78.5	SS-16	9	9	8	17	
	-85.0									
85.0		Medium dense		83.5	SS-17	13	10	11	21	
	-90.0									
90.0		Medium dense		88.5	SS-18	11	14	12	26	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-44	**Boring Location:**	696+22.8	**Offset:**	RT 12.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.5 ft.	**Northing:**	246507.5386	**Easting:**	1815727.607	**Date Started:**	8/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense		93.5	SS-19	13	7	8	15	●
100.0	-100.0	Medium dense, wet, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.8 %#200=0.8		98.5	SS-20	7	12	11	23	▲ ○ ●
105.0	-105.0	Dense		103.5	SS-21	8	16	31	47	●
110.0	-110.0	Undisturbed sample obtained from 108.5 to 110.5 feet. Approximately 24 inches of recovery. Hard, moist, greenish gray, with few sand, FAT CLAY (CH, A-7-6(34)), LL=54 PL=16 PI=38 NMC=24.6 %#200=86.5		108.5	T-5					× ○ × ▲
115.0	-115.0	Very dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.1 %#200=22.0		113.5	SS-22	25	30	38	68	× ▲ ○ ●
120.0	-120.0	Hard, moist, greenish gray, LEAN CLAY (CL)		118.5	SS-23	12	18	15	33	●

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-44	**Boring Location:**	696+22.8	**Offset:**	RT 12.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.5 ft.	**Northing:**	246507.5386	**Easting:**	1815727.607	**Date Started:**	8/29/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Very stiff, moist, greenish gray, with few sand, LEAN CLAY (CL, A-6(19)), LL=39 PL=17 PI=22 NMC=22.8 %#200=89.0		123.5	SS-24	11	13	15	28	
125.0										
	-130.0									
		Hard		128.5	SS-25	16	18	21	39	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-45	**Boring Location:**	700+34.3	**Offset:**	RT 01.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	246389.0101	**Easting:**	1815970.108	**Date Started:**	9/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black, SANDY SILT (ML)		0.0	SS-1	0	0	0	0
	-5.0	Very soft, with trace organics		1.5	SS-2	0	0	0	0
		Very soft, wet, black, with few sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=159.7 %#200=91.2		3.0	SS-3	0	0	0	0
5.0		Very soft, with trace organics		4.5	SS-4	0	0	0	0
	-10.0	Firm, wet, black, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=170.0 %#200=56.9		6.0	SS-5	1	3	3	6
				8.5	SS-6	1	2	1	3
10.0		Very loose, wet, brown, fine grained, SILTY SAND (SM)							
	-15.0								
		Very soft, wet, brown, LEAN CLAY (CL)		13.5	SS-7	0	0	0	0
15.0									
	-20.0								
		Very soft, wet, brown, FAT CLAY (CH)		18.5	SS-8	0	0	0	0
20.0									
	-25.0								
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft, moist, brown, with trace sand, FAT CLAY (CH, A-7-6(57)), LL=72 PL=21 PI=51 NMC=70.8 %#200=98.9		23.5	T-1				
25.0									
	-30.0								
		Very soft		28.5	SS-9	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-45	**Boring Location:**	700+34.3	**Offset:**	RT 01.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	246389.0101	**Easting:**	1815970.108	**Date Started:**	9/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, with trace sand, FAT CLAY (CH, A-7-5(82)), LL=100 PL=31 PI=69 NMC=77.9 %#200=98.9		33.5	T-2					
40.0	-40.0	Very soft		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, gray and brown, with trace organics and trace gravel, SANDY FAT CLAY (CH, A-7-6(51)), LL=98 PL=27 PI=71 NMC=91.0 %#200=69.7		43.5	T-3					
50.0	-50.0	Very loose, moist, brown, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=33.2 %#200=38.9		48.5	SS-11	0	0	3	3	
55.0	-55.0	Loose, moist, brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.6 %#200=23.0		53.5	SS-12	3	2	4	6	
60.0	-60.0	Medium dense, moist, brown to light brown, fine grained, POORLY GRADED SAND with SILT		58.5	SS-13	6	7	15	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-45	**Boring Location:**	700+34.3	**Offset:**	RT 01.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	246389.0101	**Easting:**	1815970.108	**Date Started:**	9/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	(SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.0 %#200=11.7								
65.0		Medium dense, fine to medium grained, with trace gravel		63.5	SS-14	9	9	11	20	●
	-70.0									
70.0		Medium dense		68.5	SS-15	9	10	10	20	●
	-75.0									
75.0		Medium dense, with trace gravel		73.5	SS-16	13	13	13	26	●
	-80.0									
80.0		Dense		78.5	SS-17	14	19	22	41	●
	-85.0									
85.0		Dense, with trace gravel		83.5	SS-18	15	18	17	35	●
	-90.0									
90.0		Very dense, moist, light brown, fine to medium grained, with trace gravel, POORLY GRADED SAND		88.5	SS-19	23	38	29	67	×▲ ○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-45	**Boring Location:**	700+34.3	**Offset:**	RT 01.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	246389.0101	**Easting:**	1815970.108	**Date Started:**	9/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0	with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.6 %#200=5.6								
95.0		Dense		93.5	SS-20	16	23	27	50	
	-100.0									
100.0		Medium dense		98.5	SS-21	8	11	10	21	
	-105.0									
105.0		Dense		103.5	SS-22	12	21	26	47	
	-110.0									
110.0		Very stiff, moist, brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=30.8 %#200=58.7		108.5	SS-23	7	5	11	16	
	-115.0									
115.0		Very stiff, moist, gray, with little sand, LEAN CLAY (CL, A-7-6(26)), LL=42 PL=10 PI=32 NMC=18.9 %#200=85.7		113.5	SS-24	4	7	9	16	
	-120.0									
120.0		Hard		118.5	SS-25	13	15	18	33	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-45	**Boring Location:**	700+34.3	**Offset:**	RT 01.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	-3.0 ft.	**Northing:**	246389.0101	**Easting:**	1815970.108	**Date Started:**	9/2/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Hard, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(46)), LL=60 PL=17 PI=43 NMC=24.4 %#200=97.1		123.5	SS-26	12	15	19	34	
125.0										
	-130.0									
		Hard		128.5	SS-27	14	18	23	41	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-46	**Boring Location:**	701+77.8	**Offset:**	RT 15.7	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	246218.8046	**Easting:**	1816144.83	**Date Started:**	9/6/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black, with organics, SILT (ML)	0.0	SS-1	0	0	0	0
	-5.0	Very soft, wet, black, with little sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=174.2 %#200=86.7 Very soft	1.5	SS-2	0	0	0	0
			3.0	SS-3	0	0	0	0
5.0		Very soft, wet, black, with few and some organics, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=148.8 %#200=92.5 Very soft, gray, with trace organics	4.5	SS-4	0	0	0	0
	-10.0		6.0	SS-5	0	0	0	0
		Very soft, No Recovery	8.5	SS-6	0	0	0	0
10.0								
	-15.0							
15.0		Very soft, moist, black, with few sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=73.7 %#200=88.0	13.5	SS-7	0	0	0	0
	-20.0							
20.0		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 18 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.5 %#200=24.8	18.5	T-1				
	-25.0							
25.0		Top of spoon: Very loose, wet, gray, fine grained, with trace shell and trace organics	23.5	SS-8	1	1	1	2
		Bottom of spoon: Very soft, wet, gray, FAT CLAY (CH)						
	-30.0							
30.0		Very soft, moist, with trace organics and trace shell	28.5	SS-9	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-46	**Boring Location:**	701+77.8	**Offset:**	RT 15.7	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	246218.8046	**Easting:**	1816144.83	**Date Started:**	9/6/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(71)), LL=87 PL=25 PI=62 NMC=65.0 %#200=97.9		33.5	T-2					
40.0	-40.0	Very soft, with trace organics		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with some organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=149.0 %#200=73.6		43.5	T-3					
50.0	-50.0	Very soft, with trace organics		48.5	SS-11	0	0	0	0	
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Wet, gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.5 %#200=43.5		53.5	T-4					
60.0	-60.0	Medium dense, wet, light gray, medium to fine grained, with trace silt and trace gravel, POORLY		58.5	SS-12	9	8	12	20	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-46	**Boring Location:**	701+77.8	**Offset:**	RT 15.7	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	246218.8046	**Easting:**	1816144.83	**Date Started:**	9/6/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0		GRADED SAND (SP)								
	-65.0									
		Medium dense, wet, light gray, medium to fine grained, with trace silt and trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.6 %#200=4.0		63.5	SS-13	8	11	13	24	
65.0										
	-70.0									
		Medium dense, with trace silt		68.5	SS-14	10	12	15	27	
70.0										
	-75.0									
		Medium dense, light brown		73.5	SS-15	7	11	13	24	
75.0										
	-80.0									
		Medium dense, light gray		78.5	SS-16	7	13	14	27	
80.0										
	-85.0									
		Dense		83.5	SS-17	11	16	15	31	
85.0										
	-90.0									
		Medium dense, wet, light brown, fine to medium grained, with trace gravel, POORLY GRADED SAND		88.5	SS-18	11	9	8	17	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-46	**Boring Location:**	701+77.8	**Offset:**	RT 15.7	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	246218.8046	**Easting:**	1816144.83	**Date Started:**	9/6/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.2 %#200=2.8								
95.0		Medium dense		93.5	SS-19	8	14	16	30	
	-100.0									
100.0		Medium dense, light brown and brown		98.5	SS-20	13	16	14	30	
	-105.0									
105.0		Hard, moist, gray, SANDY LEAN CLAY (CL, A-6(8)), LL=34 PL=12 PI=22 NMC=19.8 %#200=55.2		103.5	SS-21	20	21	18	39	
	-110.0									
110.0		Very stiff		108.5	SS-22	7	8	11	19	
	-115.0									
115.0		Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.0 %#200=9.8		113.5	SS-23	19	16	24	40	
	-120.0									
120.0		Hard, moist, gray, LEAN CLAY (CL)		118.5	SS-24	11	16	17	33	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-46	**Boring Location:**	701+77.8	**Offset:**	RT 15.7	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	246218.8046	**Easting:**	1816144.83	**Date Started:**	9/6/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Very stiff, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(31)), LL=45 PL=12 PI=33 NMC=22.2 %#200=91.5		123.5	SS-25	11	12	14	26	
125.0										
	-130.0									
		Hard, gray and brown		128.5	SS-26	11	15	19	34	
130.0										
		Boring Terminated at 130.0								

LEGEND

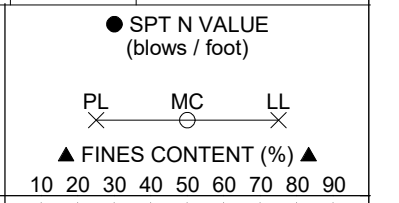
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-47	**Boring Location:**	704+81.5	**Offset:**	RT 21.5	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-2.5 ft.	**Northing:**	246015.7675	**Easting:**	1816371.005	**Date Started:**	9/7/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/8/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery	0.0	SS-1	0	0	0	0
	-5.0	Very soft, wet, black, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=144.6 %#200=79.8	1.5	SS-2	0	0	0	0
		Very soft	3.0	SS-3	0	0	0	0
5.0		Very soft, wet, black, with little sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=155.3 %#200=85.7	4.5	SS-4	0	0	0	0
	-10.0	Very soft, wet, black and brown, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=119.0 %#200=84.0	6.0	SS-5	0	0	0	0
		Soft, moist, gray	8.5	SS-6	4	2	1	3
10.0								
	-15.0							
		Very soft, No Recovery	13.5	SS-7	0	0	0	0
15.0								
	-20.0							
		Very soft, wet, gray, with few sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=47.4 %#200=88.7	18.5	SS-8	0	0	0	0
20.0								
	-25.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 18 inches of recovery.	23.5	T-1				
25.0		Very soft, wet, gray, with few sand, FAT CLAY (CH, A-7-6(39)), LL=62 PL=21 PI=41 NMC=53.2 %#200=88.1						
	-30.0							
		Very soft, gray and brown	28.5	SS-9	0	0	0	0
30.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-47	**Boring Location:**	704+81.5	**Offset:**	RT 21.5	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-2.5 ft.	**Northing:**	246015.7675	**Easting:**	1816371.005	**Date Started:**	9/7/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/8/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Soft, wet to moist, gray, with trace sand, FAT CLAY (CH, A-7-6(71)), LL=89 PL=27 PI=62 NMC=67.3 %#200=97.6		33.5	T-2					
40.0	-40.0	Very soft, moist		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, gray, wet to moist, with organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=117.0 %#200=74.0		43.5	T-3					
50.0	-50.0	Very soft, moist to wet, gray and brown, LEAN CLAY with SAND (CL)		48.5	SS-11	0	0	0	0	
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, wet to moist, gray, LEAN CLAY with SAND (CL, A-7-6(22)), LL=44 PL=17 PI=27 NMC=29.7 %#200=82.5		53.5	T-4					
60.0	-60.0	Very loose, wet, gray, fine grained, SILTY SAND (SM)		58.5	SS-12	1	1	1	2	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-47	**Boring Location:**	704+81.5	**Offset:**	RT 21.5	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-2.5 ft.	**Northing:**	246015.7675	**Easting:**	1816371.005	**Date Started:**	9/7/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/8/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Undisturbed sample obtained from 63.5 to 65.5 feet. Approximately 24 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=29.1 %#200=49.9		63.5	T-5					
70.0	-70.0	Loose		68.5	SS-13	1	2	4	6	
75.0	-75.0	Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP)		73.5	SS-14	4	4	8	12	
80.0	-80.0	Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=4.9		78.5	SS-15	6	9	12	21	
85.0	-85.0	Medium dense, wet, pale brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		83.5	SS-16	7	7	10	17	
90.0	-90.0	Dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP)		88.5	SS-17	13	16	16	32	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-47	**Boring Location:**	704+81.5	**Offset:**	RT 21.5	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-2.5 ft.	**Northing:**	246015.7675	**Easting:**	1816371.005	**Date Started:**	9/7/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/8/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Dense, wet, pale brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.1 %#200=4.0		93.5	SS-18	13	14	17	31	
100.0	-100.0	Medium dense, with trace gravel		98.5	SS-19	10	7	9	16	
105.0	-105.0	Medium dense		103.5	SS-20	12	12	13	25	
110.0	-110.0	Very stiff, moist to wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=54.1		108.5	SS-21	8	10	10	20	
115.0	-115.0	Dense, wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=38.9		113.5	SS-22	9	19	25	44	
120.0	-120.0	Hard, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(30)), LL=48 PL=18 PI=30 NMC=21.5		118.5	SS-23	10	14	17	31	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-47	**Boring Location:**	704+81.5	**Offset:**	RT 21.5	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-2.5 ft.	**Northing:**	246015.7675	**Easting:**	1816371.005	**Date Started:**	9/7/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/8/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0		%#200=93.5								
	-125.0									
		Hard, gray and brown		123.5	SS-24	10	19	19	38	●
125.0										
	-130.0									
		Very stiff		128.5	SS-25	11	13	14	27	●
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black and brown, FAT CLAY (CH)		0.0	SS-1	0	0	0	0
		Very soft		1.5	SS-2	0	0	0	0
	-5.0			3.0	SS-3	0	0	0	0
		Very soft, with organics							
5.0		Very soft, wet, brown and gray, FAT CLAY with SAND (CH, A-7-6(56)), LL=93 PL=27 PI=66 NMC=129.6 %#200=79.2		4.5	SS-4	0	0	0	0
		Very soft		6.0	SS-5	0	0	2	2
	-10.0								
		Very soft, No Recovery		8.5	SS-6	0	0	0	0
10.0									
	-15.0								
		Very soft, wet, gray and light brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=48.0 %#200=67.0		13.5	SS-7	0	0	0	0
15.0									
	-20.0								
		Very soft, wet, brownish gray, with few sand, LEAN CLAY (CL, A-6(17)), LL=38 PL=20 PI=18 NMC=51.2 %#200=93.4		18.5	SS-8	0	0	0	0
20.0									
	-25.0								
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, with few sand and trace shell, FAT CLAY (CH, A-7-6(42)), LL=65 PL=24 PI=41 NMC=55.2 %#200=91.5		23.5	T-1				
25.0									
	-30.0								
		Soft, with trace shells		28.5	SS-9	1	2	1	3
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Very soft		33.5	SS-10	0	0	0	0	
40.0	-40.0	Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Firm, moist, dark gray, with few sand, FAT CLAY (CH, A-7-6(56)), LL=80 PL=29 PI=51 NMC=62.5 %#200=93.9		38.5	T-2					
45.0	-45.0	Soft, dark gray and brown, with organics		43.5	SS-11	0	1	2	3	
50.0	-50.0	Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Soft, moist, gray and brown, with few sand, LEAN CLAY (CL, A-6(20)), LL=40 PL=19 PI=21 NMC=38.1 %#200=90.9		48.5	T-3					
55.0	-55.0	Very soft, wet, light gray, SANDY SILT (ML)		53.5	SS-12	0	0	0	0	
60.0	-60.0	Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 24 inches of recovery.		58.5	T-4					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
		Wet, light gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=31.8 %#200=57.5								
	-65.0									
65.0		Medium dense, wet, light brown, medium to fine grained, with trace clay, WELL GRADED SAND with SILT (SW-SM)		63.5	SS-13	10	10	11	21	●
	-70.0									
70.0		Dense, wet, gray, medium to fine grained, with few gravel, WELL GRADED SAND with SILT (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.2 %#200=9.6		68.5	SS-14	10	16	15	31	▲ ○ ●
	-75.0									
75.0		Dense, wet, gray, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.5 %#200=5.5		73.5	SS-15	15	16	17	33	▲ ○ ●
	-80.0									
80.0		Medium dense, wet, gray, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP)		78.5	SS-16	6	6	11	17	●
	-85.0									
85.0		Medium dense		83.5	SS-17	13	14	15	29	●
	-90.0									
90.0		Dense, wet, gray, medium to fine and coarse grained, POORLY GRADED SAND with GRAVEL (SP,		88.5	SS-18	11	19	20	39	▲ ○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0		A-1-a(0)), LL=NP PL=NP PI=NP NMC=11.8 %#200=4.0							
	-95.0								
		Medium dense		93.5	SS-19	8	12	10	22
95.0									
	-100.0								
		Medium dense		98.5	SS-20	15	14	14	28
100.0									
	-105.0								
		Dense, wet, gray, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.2 %#200=2.3		103.5	SS-21	11	14	17	31
105.0									
	-110.0								
		Loose, black and brown, with trace silt		108.5	SS-22	8	4	4	8
110.0									
	-115.0								
		Loose, gray and brown		113.5	SS-23	8	4	3	7
115.0									
	-120.0								
		Medium dense, wet, light brown, medium to fine grained, with few gravel, POORLY GRADED SAND		118.5	SS-24	8	14	15	29
120.0									

● SPT N VALUE (blows / foot)

PL ✕ MC ○ LL ✕

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0									
	-125.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=23.0 %#200=3.6							
125.0		Very dense, gray, fine grained		123.5	SS-25	22	32	33	65
	-130.0								
130.0		Very dense		128.5	SS-26	16	31	34	65
	-135.0								
135.0		Dense, moist, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.4 %#200=21.2		133.5	SS-27	9	22	26	48
	-140.0								
140.0		Medium dense		138.5	SS-28	11	14	14	28
	-145.0								
145.0		Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		143.5	SS-29	19	22	33	55
	-150.0								
150.0		Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP		148.5	SS-30	34	43	47	90

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-48	**Boring Location:**	708+11.3	**Offset:**	RT 35.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	245711.6223	**Easting:**	1816614.215	**Date Started:**	9/9/2016
Total Depth:	165.0 ft.	**Soil Depth:**	165.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/11/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
150.0		PL=NP PI=NP NMC=22.1 %#200=10.6								
	-155.0									
		Very dense		153.5	SS-31	29	46	48	94	●
155.0										
	-160.0									
		Very dense		158.5	SS-32	29	50/6	X	50/6	>>●
160.0										
	-165.0									
		Very dense		163.5	SS-33	37	50/5	X	50/5	>>●
165.0										
		Boring Terminated at 165.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-49	**Boring Location:**	711+23.2	**Offset:**	RT 18.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	245607.888	**Easting:**	1816867.023	**Date Started:**	9/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0		Very soft, No Recovery		0.0	SS-1	0	0	0	0	
	-5.0	Very soft, wet, black, with organics, SILT with SAND (ML)		1.5	SS-2	0	0	0	0	
		Very soft		3.0	SS-3	0	0	0	0	
5.0		Very soft, wet, black and gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=127.5 %#200=77.5		4.5	SS-4	0	0	0	0	12
	-10.0	Very soft, gray		6.0	SS-5	0	1	0	1	
10.0		Very loose, wet, gray, fine grained, with trace gravel and trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.7 %#200=35.2		8.5	SS-6	1	1	0	1	
	-15.0									
15.0		Very soft, moist, gray, with trace shell and trace organics, SANDY LEAN CLAY (CL, A-6(9)), LL=34 PL=17 PI=17 NMC=45.6 %#200=64.8		13.5	SS-7	0	0	0	0	
	-20.0									
20.0		Very soft, moist, gray, with trace organics, FAT CLAY (CH)		18.5	SS-8	0	0	0	0	
	-25.0									
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 18 inches of recovery. Soft, moist, gray, with trace shells and trace sand, FAT CLAY (CH, A-7-6(43)), LL=63 PL=24 PI=39 NMC=56.8 %#200=97.3		23.5	T-1					
	-30.0									
30.0		Very loose, wet, gray, fine to medium grained, with trace shell, CLAYEY SAND (SC)		28.5	SS-9	0	2	2	4	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-49	**Boring Location:**	711+23.2	**Offset:**	RT 18.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	245607.888	**Easting:**	1816867.023	**Date Started:**	9/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0									
	-35.0								
35.0		Very soft, moist, gray, with trace shell and trace sand, FAT CLAY (CH, A-7-5(79)), LL=100 PL=31 PI=69 NMC=70.5 %#200=96.5		33.5	SS-10	0	0	0	0
	-40.0			38.5	T-2				
40.0		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with few sand, FAT CLAY (CH, A-7-6(59)), LL=83 PL=22 PI=61 NMC=60.4 %#200=88.4							
	-45.0			43.5	SS-11	0	0	0	0
45.0		Very soft, with trace shell							
	-50.0			48.5	T-3				
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with few sand, FAT CLAY (CH, A-7-6(52)), LL=73 PL=23 PI=50 NMC=61.3 %#200=92.8							
	-55.0			53.5	SS-12	0	0	0	0
55.0		Very soft, with trace wood							
	-60.0			58.5	T-4				
60.0		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 20 inches of recovery.							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-49	**Boring Location:**	711+23.2	**Offset:**	RT 18.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	245607.888	**Easting:**	1816867.023	**Date Started:**	9/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.4 %#200=24.8								
65.0		Loose, wet, gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.3 %#200=34.7		63.5	SS-13	2	2	7	9	
	-70.0									
70.0		Medium dense, wet, light gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		68.5	SS-14	7	9	11	20	
	-75.0									
75.0		Medium dense, light brown		73.5	SS-15	5	8	9	17	
	-80.0									
80.0		Dense, wet, pale brown, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.6 %#200=6.1		78.5	SS-16	13	17	19	36	
	-85.0									
85.0		Very dense		83.5	SS-17	20	24	27	51	
	-90.0									
90.0		Medium dense, light brown		88.5	SS-18	9	12	12	24	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-49	**Boring Location:**	711+23.2	**Offset:**	RT 18.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	245607.888	**Easting:**	1816867.023	**Date Started:**	9/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Medium dense, wet, pale brown, medium to fine and coarse grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.5 %#200=4.7		93.5	SS-19	11	11	12	23	
	-100.0									
100.0		Medium dense, fine to medium grained, with trace silt		98.5	SS-20	10	10	9	19	
	-105.0									
105.0		Dense		103.5	SS-21	10	18	17	35	
	-110.0									
110.0		Dense, light gray		108.5	SS-22	7	18	18	36	
	-115.0									
115.0		Very stiff, moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=27.6 %#200=54.7		113.5	SS-23	10	10	11	21	
	-120.0									
120.0		Hard, moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=28.6 %#200=62.0		118.5	SS-24	19	27	30	57	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-49	**Boring Location:**	711+23.2	**Offset:**	RT 18.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-2.5 ft.	**Northing:**	245607.888	**Easting:**	1816867.023	**Date Started:**	9/12/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/13/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-125.0	Hard, wet, gray and light brown		123.5	SS-25	32	37	37	74	
130.0	-130.0	Hard, moist, gray, with few sand, LEAN CLAY (CL, A-6(20)), LL=38 PL=16 PI=22 NMC=22.2 %#200=92.7		128.5	SS-26	16	16	19	35	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-50	**Boring Location:**	714+04.4	**Offset:**	RT 50.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.0 ft.	**Northing:**	245406.987	**Easting:**	1817067.017	**Date Started:**	9/15/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery		0.0	SS-1	0	0	0	0
		Very soft, wet, black, with organics, SANDY SILT (ML)		1.5	SS-2	0	0	0	0
	-5.0			3.0	SS-3	0	0	0	0
5.0		Very soft, wet, black, with organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=79.8 %#200=64.7		4.5	SS-4	0	0	0	0
		Very soft, with organics							
		Firm, with some organics		6.0	SS-5	0	2	4	6
	-10.0								
				8.5	SS-6	2	1	1	2
10.0		Very soft, wet, black, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=39.0 %#200=51.5							
	-15.0								
				13.5	T-1				
15.0		Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, with trace shell, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=44.3 %#200=72.7							
	-20.0								
		Very soft, moist, gray, with trace organics, FAT CLAY (CH)		18.5	SS-7	0	0	0	0
20.0									
	-25.0								
				23.5	T-2				
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, with trace shell and trace sand, FAT CLAY (CH, A-7-6(44)), LL=63 PL=24 PI=39 NMC=56.7 %#200=98.0							
	-30.0								
		Very soft, with trace shell		28.5	SS-8	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-50	**Boring Location:**	714+04.4	**Offset:**	RT 50.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.0 ft.	**Northing:**	245406.987	**Easting:**	1817067.017	**Date Started:**	9/15/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 8 inches of recovery. Wet, dark gray, with trace shell		33.5	T-3					
40.0	-40.0	Very soft		38.5	SS-9	0	0	0	0	●
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, LEAN CLAY with SAND (CL, A-7-6(20)), LL=41 PL=17 PI=24 NMC=38.7 %#200=84.8		43.5	T-4					▲
50.0	-50.0	Very soft, with trace organics		48.5	SS-10	0	0	0	0	●
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with trace sand and trace gravel, FAT CLAY (CH, A-7-5(54)), LL=81 PL=36 PI=45 NMC=81.7 %#200=97.3		53.5	T-5					▲
60.0	-60.0	Loose, wet, gray, fine to medium grained, SILTY SAND (SM)		58.5	SS-11	3	3	3	6	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-50	**Boring Location:**	714+04.4	**Offset:**	RT 50.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.0 ft.	**Northing:**	245406.987	**Easting:**	1817067.017	**Date Started:**	9/15/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Medium dense, wet, gray, fine to medium grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.8 %#200=15.4		63.5	SS-12	7	7	7	14	
	-70.0									
70.0		Medium dense, wet, light brown, fine to medium grained, with trace silt, POORLY GRADED SAND (SP)		68.5	SS-13	7	10	11	21	
	-75.0									
75.0		Medium dense, pale brown		73.5	SS-14	9	8	12	20	
	-80.0									
80.0		Medium dense, wet, light gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=18.3 %#200=3.4		78.5	SS-15	13	13	15	28	
	-85.0									
85.0		Medium dense, gray		83.5	SS-16	9	9	13	22	
	-90.0									
90.0		Medium dense, wet, light brown, medium to fine and coarse grained, POORLY GRADED SAND with		88.5	SS-17	8	8	14	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-50	**Boring Location:**	714+04.4	**Offset:**	RT 50.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.0 ft.	**Northing:**	245406.987	**Easting:**	1817067.017	**Date Started:**	9/15/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0	GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=11.3 %#200=3.9								
95.0		Medium dense, moist, medium grained		93.5	SS-18	12	16	13	29	
	-100.0									
100.0		Medium dense, wet, gray, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.8 %#200=3.3		98.5	SS-19	8	12	14	26	
	-105.0									
105.0		Very stiff, moist, bluish gray and gray, LEAN CLAY with SAND (CL, A-7-6(28)), LL=44 PL=9 PI=35 NMC=21.9 %#200=84.2		103.5	SS-20	4	6	10	16	
	-110.0									
110.0		Hard		108.5	SS-21	13	16	22	38	
	-115.0									
115.0		Medium dense, moist, gray, fine grained, with trace organics, CLAYEY SAND (SC, A-6(3)), LL=27 PL=13 PI=14 NMC=23.4 %#200=46.1		113.5	SS-22	6	14	14	28	
	-120.0									
120.0		Dense, moist, gray and dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		118.5	SS-23	8	13	21	34	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-50	**Boring Location:**	714+04.4	**Offset:**	RT 50.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.0 ft.	**Northing:**	245406.987	**Easting:**	1817067.017	**Date Started:**	9/15/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0	NMC=24.4 %#200=23.0								
125.0		Medium dense, moist, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=17.5 %#200=44.1		123.5	SS-24	11	15	15	30	
	-130.0									
130.0		Hard, moist, gray, with few sand, FAT CLAY (CH, A-7-6(37)), LL=53 PL=14 PI=39 NMC=21.8 %#200=91.0		128.5	SS-25	8	15	17	32	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-51	**Boring Location:**	717+70.2	**Offset:**	RT 25.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.0 ft.	**Northing:**	245202.001	**Easting:**	1817371.791	**Date Started:**	9/18/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0 ▼		Very soft, wet, dark brown and black, with trace organics, SILT with SAND (ML)		0.0	SS-1	0	0	0	0
		Very soft, with trace organics		1.5	SS-2	0	0	0	0
	-5.0	Very soft, with organics		3.0	SS-3	0	0	0	0
5.0		Very soft, wet, dark gray and brown, with organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=136.9 %#200=71.3		4.5	SS-4	0	0	0	0
		Soft, with organics		6.0	SS-5	0	0	3	3
	-10.0	Very loose, wet, dark brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=34.8 %#200=31.3		8.5	SS-6	0	2	2	4
10.0									
	-15.0	Very loose, dark gray		13.5	SS-7	0	0	0	0
15.0									
	-20.0	Very soft, wet, dark gray, with trace organics, FAT CLAY (CH)		18.5	SS-8	0	0	0	0
20.0									
	-25.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(46)), LL=63 PL=21 PI=42 NMC=51.8 %#200=98.5		23.5	T-1				
25.0									
	-30.0	Very soft, dark gray		28.5	SS-9	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-51	**Boring Location:**	717+70.2	**Offset:**	RT 25.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.0 ft.	**Northing:**	245202.001	**Easting:**	1817371.791	**Date Started:**	9/18/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with trace sand, FAT CLAY (CH, A-7-5(71)), LL=94 PL=34 PI=60 NMC=74.3 %#200=98.1		33.5	T-2					
40.0	-40.0	Very soft, dark grayish brown		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with few sand, FAT CLAY (CH, A-7-6(32)), LL=53 PL=19 PI=34 NMC=53.5 %#200=88.9		43.5	T-3					
50.0	-50.0	Very soft, dark grayish brown, with trace organics and trace shells		48.5	SS-11	0	0	1	1	
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray, with few sand, FAT CLAY (CH, A-7-6(39)), LL=60 PL=19 PI=41 NMC=31.4 %#200=89.5		53.5	T-4					
60.0	-60.0	Very soft, moist, gray, LEAN CLAY with SAND (CL)		58.5	SS-12	0	0	0	0	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-51	**Boring Location:**	717+70.2	**Offset:**	RT 25.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.0 ft.	**Northing:**	245202.001	**Easting:**	1817371.791	**Date Started:**	9/18/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Undisturbed sample obtained from 63.5 to 65.5 feet. Approximately 24 inches of recovery. Moist, gray, LEAN CLAY with SAND (CL, A-6(10)), LL=32 PL=18 PI=14 NMC=27.4 %#200=79.0		63.5	T-5					
70.0	-70.0	Loose, wet, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=34.4 %#200=43.3		68.5	SS-13	3	3	4	7	
75.0	-75.0	Medium dense, brownish gray		73.5	SS-14	9	11	12	23	
80.0	-80.0	Loose, wet, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.6 %#200=26.0		78.5	SS-15	3	3	7	10	
85.0	-85.0	Medium dense, light brown		83.5	SS-16	9	13	14	27	
90.0	-90.0	Medium dense, wet, gray and brownish gray, fine to medium grained, with few gravel, POORLY GRADED		88.5	SS-17	13	15	14	29	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

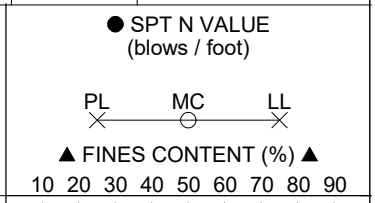
HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-51	**Boring Location:**	717+70.2	**Offset:**	RT 25.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.0 ft.	**Northing:**	245202.001	**Easting:**	1817371.791	**Date Started:**	9/18/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0		SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=14.3 %#200=7.8							
95.0	-95.0	Dense, light gray		93.5	SS-18	20	20	12	32
100.0	-100.0	Medium dense, with trace gravel		98.5	SS-19	9	10	11	21
105.0	-105.0	Very stiff, moist, gray and bluish gray, LEAN CLAY with SAND (CL, A-6(16)), LL=40 PL=14 PI=26 NMC=20.2 %#200=70.6		103.5	SS-20	4	6	11	17
110.0	-110.0	Medium dense, moist, bluish gray and gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=21.5 %#200=45.5		108.5	SS-21	5	6	8	14
115.0	-115.0	Medium dense, wet, gray and bluish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.0 %#200=24.7		113.5	SS-22	7	10	15	25
120.0	-120.0	Dense, gray and dark brown, with organics		118.5	SS-23	11	14	22	36



LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-51	**Boring Location:**	717+70.2	**Offset:**	RT 25.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.0 ft.	**Northing:**	245202.001	**Easting:**	1817371.791	**Date Started:**	9/18/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0	Hard, moist, greenish gray, with trace sand, LEAN CLAY (CL, A-7-6(31)), LL=45 PL=14 PI=31 NMC=20.1 %#200=95.7		123.5	SS-24	15	19	20	39	
125.0										
	-130.0	Very stiff, gray		128.5	SS-25	10	10	12	22	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-52	**Boring Location:**	720+52.3	**Offset:**	RT 19.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	245037.348	**Easting:**	1817601.288	**Date Started:**	9/21/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery	0.0	SS-1	0	0	0	0
		Very soft, No Recovery	1.5	SS-2	0	0	0	0
	-5.0	Very soft, wet, black, with organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=107.2 %#200=78.7	3.0	SS-3	0	0	0	0
5.0		Very soft, wet, black and dark gray, with trace organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=82.3 %#200=52.4	4.5	SS-4	0	0	0	0
		Soft, wet, dark gray and black, with organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=124.6 %#200=77.9	6.0	SS-5	0	1	3	4
	-10.0		8.5					
10.0		Loose, wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=32.4 %#200=24.0		SS-6	7	3	2	5
	-15.0		13.5	SS-7	0	0	0	0
15.0		Very soft, moist to wet, dark gray, with trace sand, FAT CLAY (CH)						
	-20.0		18.5	SS-8				
20.0		Undisturbed sample attempted from 18.5 to 20.5 feet. Sample fell out of tube. No Recovery. Split Spoon sample taken for classification only and not obtained in accordance with AASHTO T206. Wet, dark gray, with trace sand, FAT CLAY (CH, A-7-6(44)), LL=63 PL=22 PI=41 NMC=53.5 %#200=95.3						
	-25.0		23.5	T-1				
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, with trace sand, FAT CLAY (CH, A-7-6(63)), LL=78 PL=23 PI=55 NMC=62.2 %#200=98.9						
	-30.0		28.5	SS-9	0	0	0	0
30.0		Very soft, wet, dark gray, with trace sand, FAT CLAY (CH, A-7-6(69)), LL=84 PL=23 PI=61 NMC=67.4						

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-52	**Boring Location:**	720+52.3	**Offset:**	RT 19.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	245037.348	**Easting:**	1817601.288	**Date Started:**	9/21/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0		%#200=98.2								
	-35.0			33.5						
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Soft, wet, dark gray, with trace organics, FAT CLAY with SAND (CH, A-7-6(46)), LL=71 PL=19 PI=52 NMC=60.8 %#200=83.0			T-2					
	-40.0			38.5						
40.0		Very loose, moist, dark gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=34.7 %#200=40.2			SS-10	0	0	0	0	
	-45.0			43.5						
45.0		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Moist, dark gray, with organics, LEAN CLAY (CL)			T-3					
	-50.0			48.5						
50.0		Very soft, gray and dark gray, with organics			SS-11	0	0	0	0	
	-55.0			53.5						
55.0		Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Soft, moist, light gray, with wood and few sand, LEAN CLAY (CL, A-7-6(28)), LL=47 PL=18 PI=29 NMC=34.7 %#200=93.1			T-4					
	-60.0			58.5						
60.0		Firm			SS-12	0	3	3	6	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-52	**Boring Location:**	720+52.3	**Offset:**	RT 19.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	245037.348	**Easting:**	1817601.288	**Date Started:**	9/21/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=33 PL=17 PI=16 NMC=31.0 %#200=59.6		63.5	SS-13	1	1	1	2	
70.0	-70.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=10.9		68.5	SS-14	5	9	17	26	
75.0	-75.0	Dense, wet, gray, fine grained, POORLY GRADED SAND (SP)		73.5	SS-15	9	13	21	34	
80.0	-80.0	Dense, wet, gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=4.7		78.5	SS-16	8	14	23	37	
85.0	-85.0	Dense		83.5	SS-17	17	21	22	43	
90.0	-90.0	Medium dense, with trace gravel		88.5	SS-18	12	17	13	30	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-52	**Boring Location:**	720+52.3	**Offset:**	RT 19.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	245037.348	**Easting:**	1817601.288	**Date Started:**	9/21/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense, with trace gravel		93.5	SS-19	9	13	13	26	●
100.0	-100.0	Dense, with trace gravel		98.5	SS-20	24	20	13	33	●
105.0	-105.0	Dense, fine to medium grained		103.5	SS-21	17	24	25	49	●
110.0	-110.0	Very dense, wet, gray, fine grained, SILTY SAND (SM)		108.5	SS-22	20	41	28	69	●
115.0	-115.0	Very dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.8 %#200=13.6		113.5	SS-23	29	24	38	62	▲ ○ ●
120.0	-120.0	Dense, wet to moist, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		118.5	SS-24	16	22	23	45	○ ▲ ●

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-52	**Boring Location:**	720+52.3	**Offset:**	RT 19.3	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	245037.348	**Easting:**	1817601.288	**Date Started:**	9/21/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	9/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
		NMC=26.0 %#200=34.4								
	-125.0			123.5						
125.0		Dense, moist, gray and dark gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=44.1			SS-25	9	12	28	40	
	-130.0			128.5						
130.0		Dense, wet			SS-26	14	15	21	36	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	0.0	Very soft, wet, black, with some organics, SANDY LEAN CLAY (CL)		0.0	SS-1	0	0	0	0
		Very loose, wet, black, fine to medium grained, with some organics, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
		Very loose, very dark gray, with organics		3.0	SS-3	0	0	0	0
5.0	-5.0	Very loose, wet, dark gray, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=41.2 %#200=17.6		4.5	SS-4	0	0	2	2
		Very loose		6.0	SS-5	2	1	1	2
				8.5	SS-6	3	3	3	6
10.0	-10.0	Loose, gray							
				13.5	SS-7	0	0	0	0
15.0	-15.0	Very soft, moist, gray, with trace organics, SILT with SAND (ML, A-4(5)), LL=35 PL=27 PI=8 NMC=51.3 %#200=72.2							
				18.5	T-1				
20.0	-20.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 18 inches of recovery. Very soft, moist, gray, with few sand, LEAN CLAY (CL, A-7-6(20)), LL=44 PL=22 PI=22 NMC=42.6 %#200=87.6							
				23.5	SS-8	0	0	0	0
25.0	-25.0	Very soft, moist, gray, with trace wood, FAT CLAY (CH)							
				28.5	T-2				
30.0	-30.0	Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0	-30.0	Very soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(65)), LL=84 PL=27 PI=57 NMC=60.9 %#200=98.0							
				33.5	SS-9	0	0	0	0
35.0	-35.0	Very soft, with trace wood							
				38.5	SS-10	0	0	0	0
40.0	-40.0	Very soft							
				43.5	T-3				
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with some organics and few sand, FAT CLAY (CH, A-7-5(96)), LL=128 PL=43 PI=85 NMC=106.1 %#200=93.1							
				48.5	SS-11	0	0	0	0
50.0	-50.0	Very soft, with wood							
				53.5	T-4				
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 20 inches of recovery. Firm, moist, gray, with trace wood and trace sand, FAT CLAY (CH, A-7-6(32)), LL=50 PL=19 PI=31 NMC=66.6 %#200=95.5							
				58.5	SS-12	0	2	3	5
60.0	-60.0	Firm, with trace wood							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-60.0									
65.0	-65.0	Undisturbed sample obtained from 63.5 to 65.5 feet. Approximately 18 inches of recovery. Moist, gray, fine to medium grained, SILTY SAND (SM)		63.5	T-5					
70.0	-70.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.7 %#200=11.1		68.5	SS-13	6	9	7	16	
75.0	-75.0	Medium dense, light brown		73.5	SS-14	13	12	12	24	
80.0	-80.0	Medium dense, wet, light brown, fine to medium grained, with trace gravel and trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=4.4		78.5	SS-15	11	14	15	29	
85.0	-85.0	Dense		83.5	SS-16	11	14	17	31	
90.0	-90.0	Medium dense, light gray		88.5	SS-17	9	12	14	26	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-90.0									
95.0	-95.0	Medium dense, with trace silt and trace gravel		93.5	SS-18	14	13	13	26	
100.0	-100.0	Medium dense, wet, light gray, medium to fine and coarse grained, with few gravel and trace silt, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.4 %#200=4.7		98.5	SS-19	9	11	15	26	
105.0	-105.0	Medium dense, wet, light gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM)		103.5	SS-20	9	8	11	19	
110.0	-110.0	Medium dense, wet, light gray, fine to medium grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=13.1 %#200=9.4		108.5	SS-21	11	17	12	29	
115.0	-115.0	Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-22	13	19	26	45	
120.0	-120.0	Undisturbed sample obtained from 118.5 to 120.5 feet. Approximately 14 inches of recovery.		118.5	T-6					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-120.0	Hard, wet, greenish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=18.7 %#200=53.0								
125.0	-125.0	Hard, moist, greenish gray and brown, LEAN CLAY (CL)		123.5	SS-23	11	18	19	37	
130.0	-130.0	Hard, No Recovery		128.5	SS-24	11	14	17	31	
135.0	-135.0	Hard, moist, gray, LEAN CLAY with SAND (CL, A-6(16)), LL=36 PL=10 PI=26 NMC=12.2 %#200=73.9		133.5	SS-25	12	16	18	34	
140.0	-140.0	Very stiff, gray and brown		138.5	SS-26	11	14	16	30	
145.0	-145.0	Very stiff, moist, gray and dark bluish gray, LEAN CLAY with SAND (CL, A-6(17)), LL=37 PL=11 PI=26 NMC=13.7 %#200=74.5		143.5	SS-27	8	11	17	28	
150.0	-150.0	Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		148.5	SS-28	31	27	46	73	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0	-150.0									
		Very dense		153.5						
155.0	-155.0				SS-29	24	39	35	74	
		Very dense, wet, brownish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.8 %#200=7.9		158.5						
160.0	-160.0				SS-30	16	25	30	55	
		Medium dense, moist, dark grayish brown, fine grained, with trace clay, SILTY SAND (SM)		163.5						
165.0	-165.0				SS-31	13	10	19	29	
		Dense, wet, dark grayish brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=25.5		168.5						
170.0	-170.0				SS-32	6	13	30	43	
		Very dense, wet, gray, medium to fine grained, POORLY GRADED SAND with SILT (SP-SM)		173.5						
175.0	-175.0				SS-33	23	42	48	90	
		Very dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)),		178.5						
180.0	-180.0				SS-34	23	35	24	59	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-58	**Boring Location:**	737+77.0	**Offset:**	LT 22.6	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	0.0 ft.	**Northing:**	244096.455	**Easting:**	1819046.634	**Date Started:**	8/16/2016
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		LL=NP PL=NP PI=NP NMC=21.9 %#200=6.6 Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-59	**Boring Location:**	740+35.8	**Offset:**	RT 01.2	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	243939.1832	**Easting:**	1819253.471	**Date Started:**	8/9/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, wet, dark brown, fine grained, with trace organics, CLAYEY SAND (SC)		0.0	SS-1	0	0	0	0
	-5.0	Very loose, wet, dark gray, fine grained, with trace organics, SILTY SAND (SM)		1.5	SS-2	0	0	1	1
5.0		Very loose, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=54.6 %#200=9.3 Loose		3.0	SS-3	0	2	2	4
				4.5	SS-4	2	3	3	6
	-10.0	Loose		6.0	SS-5	3	4	4	8
10.0		Very loose, wet, gray, fine grained, with trace shell and wood, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.7 %#200=34.1		8.5	SS-6	2	2	1	3
	-15.0								
15.0		Very soft, moist, gray, with trace shell and wood, ELASTIC SILT with SAND (MH, A-7-6(21)), LL=52 PL=29 PI=23 NMC=45.4 %#200=80.9		13.5	SS-7	0	0	0	0
	-20.0								
20.0		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, with few sand, FAT CLAY (CH, A-7-6(34)), LL=52 PL=18 PI=34 NMC=39.3 %#200=92.5		18.5	T-1				
	-25.0								
25.0		Very soft, with trace organics		23.5	SS-8	0	0	0	0
	-30.0								
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-59	**Boring Location:**	740+35.8	**Offset:**	RT 01.2	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	243939.1832	**Easting:**	1819253.471	**Date Started:**	8/9/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(65)), LL=81 PL=25 PI=56 NMC=58.9 %#200=98.6								
35.0		Very soft, with trace organics		33.5	SS-9	0	0	0	0	
	-40.0									
40.0		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 20 inches of recovery. Soft, moist, gray, with trace organics and trace sand, FAT CLAY (CH, A-7-6(55)), LL=73 PL=24 PI=49 NMC=55.5 %#200=96.7		38.5	T-3					
	-45.0									
45.0		Very soft, moist, gray, with organics, ELASTIC SILT (MH)		43.5	SS-10	0	0	0	0	
	-50.0									
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Firm, moist, gray and brown, with organics and trace gravel, ELASTIC SILT with SAND (MH, A-7-5(83)), LL=160 PL=75 PI=85 NMC=113.7 %#200=78.9		48.5	T-4					16
	-55.0									
55.0		Firm, moist, light gray, with trace organics, FAT CLAY (CH)		53.5	SS-11	0	3	3	6	
	-60.0									
60.0		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 18 inches of recovery.		58.5	T-5					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-59	**Boring Location:**	740+35.8	**Offset:**	RT 01.2	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	243939.1832	**Easting:**	1819253.471	**Date Started:**	8/9/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	Stiff, moist, light gray, with trace sand, FAT CLAY (CH, A-7-6(44)), LL=61 PL=20 PI=41 NMC=29.3 %#200=96.8								
65.0		Very soft, gray		63.5	SS-12	0	0	0	0	●
	-70.0									
70.0		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, FAT CLAY (CH, A-7-6(41)), LL=57 PL=20 PI=37 NMC=30.0 %#200=99.3		68.5	T-6					× ○ × ▲
	-75.0									
75.0		Firm		73.5	SS-13	1	3	4	7	●
	-80.0									
80.0		Dense, wet, light gray, fine to medium grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.0 %#200=6.8		78.5	SS-14	13	16	16	32	× ▲ ○ ●
	-85.0									
85.0		Medium dense		83.5	SS-15	14	13	15	28	●
	-90.0									
90.0		Medium dense, pale brown, fine to medium grained		88.5	SS-16	13	13	16	29	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-59	**Boring Location:**	740+35.8	**Offset:**	RT 01.2	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	243939.1832	**Easting:**	1819253.471	**Date Started:**	8/9/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Medium dense, wet, light gray, medium to fine grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.8 %#200=6.2		93.5	SS-17	10	11	17	28	
	-100.0									
100.0		Dense		98.5	SS-18	20	19	26	45	
	-105.0									
105.0		Medium dense, wet, white, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.8 %#200=1.3		103.5	SS-19	4	1	11	12	
	-110.0									
110.0		Medium dense		108.5	SS-20	14	14	11	25	
	-115.0									
115.0		Dense, pale brown		113.5	SS-21	11	15	20	35	
	-120.0									
120.0		Dense, gray, fine grained, with trace silt		118.5	SS-22	19	22	23	45	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-59	**Boring Location:**	740+35.8	**Offset:**	RT 01.2	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-2.5 ft.	**Northing:**	243939.1832	**Easting:**	1819253.471	**Date Started:**	8/9/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-6(19)), LL=39 PL=12 PI=27 NMC=16.0 %#200=77.6		123.5	SS-23	8	11	13	24	
125.0										
	-130.0									
		Hard, moist, greenish gray, LEAN CLAY with SAND (CL, A-6(16)), LL=36 PL=13 PI=23 NMC=18.5 %#200=77.8		128.5	SS-24	10	14	17	31	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-60	**Boring Location:**	744+80.4	**Offset:**	LT 64.9	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.0 ft.	**Northing:**	243766.4892	**Easting:**	1819667.748	**Date Started:**	7/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, wet, dark gray, fine grained, with trace organics, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose	1.5	SS-2	0	0	0	0
		Very loose, dark grayish brown	3.0	SS-3	0	0	1	1
5.0			4.5	SS-4	0	1	1	2
	-15.0	Very loose, wet, dark grayish brown, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.8 %#200=29.5	6.0	SS-5	1	1	1	2
		Very loose, with trace shells and organics						
		Very loose, with trace shells and organics	8.5	SS-6	0	0	0	0
10.0	-20.0							
		Very soft, wet, dark grayish brown, with trace organics and few sand, LEAN CLAY (CL, A-7-6(25)), LL=48 PL=21 PI=27 NMC=47.3 %#200=87.8	13.5	SS-7	0	0	0	0
15.0	-25.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Soft, wet, dark gray, with trace sand, FAT CLAY (CH, A-7-6(42)), LL=59 PL=21 PI=38 NMC=54.4 %#200=98.1	18.5	T-1				
20.0	-30.0							
		Very soft, moist, with trace organics	23.5	SS-8	0	0	0	0
25.0	-35.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 18 inches of recovery.	28.5	T-2				
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-60	**Boring Location:**	744+80.4	**Offset:**	LT 64.9	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.0 ft.	**Northing:**	243766.4892	**Easting:**	1819667.748	**Date Started:**	7/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0	Soft, moist, dark gray, with trace sand, FAT CLAY (CH, A-7-6(68)), LL=86 PL=27 PI=59 NMC=66.6 %#200=98.2								
35.0	-45.0	Very soft, with trace organics		33.5	SS-9	0	0	0	0	●
40.0	-50.0	Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Brown and gray, with trace organics		38.5	T-3					
45.0	-55.0	Very soft, gray, with wood		43.5	SS-10	0	0	0	0	●
50.0	-60.0	Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with little sand, LEAN CLAY (CL, A-7-6(23)), LL=41 PL=13 PI=28 NMC=31.8 %#200=86.0		48.5	T-4					× ○ × ▲
55.0	-65.0	Loose, wet, gray, fine grained, CLAYEY SAND (SC, A-6(3)), LL=32 PL=13 PI=19 NMC=26.1 %#200=40.7		53.5	SS-11	0	3	3	6	● × ○ × ▲
60.0		Soft, moist, olive and gray, with trace organics, FAT CLAY (CH)		58.5	SS-12	0	0	3	3	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-60	**Boring Location:**	744+80.4	**Offset:**	LT 64.9	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.0 ft.	**Northing:**	243766.4892	**Easting:**	1819667.748	**Date Started:**	7/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
65.0		Undisturbed sample obtained from 63.5 to 65.5 feet. Approximately 24 inches of recovery. Top of tube: Moist, gray		63.5	T-5					
	-75.0	Bottom of tube: Wet, gray, fine grained, POORLY GRADED SAND (SP)								
70.0		Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=17.5 %#200=4.0		68.5	SS-13	7	12	13	25	
	-80.0									
75.0		Medium dense, brownish gray, with trace silt		73.5	SS-14	11	13	15	28	
	-85.0									
80.0		Medium dense, wet, brownish gray, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.6 %#200=4.4		78.5	SS-15	13	10	11	21	
	-90.0									
85.0		Medium dense, with trace silt		83.5	SS-16	11	13	16	29	
	-95.0									
90.0		Medium dense, gray		88.5	SS-17	9	9	11	20	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-60	**Boring Location:**	744+80.4	**Offset:**	LT 64.9	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.0 ft.	**Northing:**	243766.4892	**Easting:**	1819667.748	**Date Started:**	7/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Dense, wet, gray and brown, medium to fine grained, SILTY SAND with GRAVEL (SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.5 %#200=17.3		93.5	SS-18	10	14	21	35	
100.0	-110.0	Dense, gray		98.5	SS-19	21	19	20	39	
105.0	-115.0	Dense, fine grained		103.5	SS-20	13	14	18	32	
110.0	-120.0	Dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=20.2 %#200=12.2		108.5	SS-21	17	21	22	43	
115.0	-125.0	Dense, gray and black, with trace organics		113.5	SS-22	18	18	22	40	
120.0		Dense, with trace clay		118.5	SS-23	21	20	19	39	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-60	**Boring Location:**	744+80.4	**Offset:**	LT 64.9	**Alignment:**	I-10 Main Span
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.0 ft.	**Northing:**	243766.4892	**Easting:**	1819667.748	**Date Started:**	7/25/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
		Hard, moist, gray, LEAN CLAY with SAND (CL, A-6(16)), LL=38 PL=17 PI=21 NMC=20.4 %#200=82.0		123.5	SS-24	14	18	21	39	
125.0										
	-135.0									
		Hard, moist to wet, gray, SANDY LEAN CLAY (CL, A-6(6)), LL=26 PL=11 PI=15 NMC=18.6 %#200=59.8		128.5	SS-25	28	34	34	68	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-61	**Boring Location:**	747+34.0	**Offset:**	RT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	243577.6779	**Easting:**	1819850.877	**Date Started:**	7/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, light gray and brown, LEAN CLAY (CL)	0.0	SS-1	0	0	0	0
	-5.0	Very loose, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)	1.5	SS-2	0	0	0	0
		Very loose, black and dark gray	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, dark gray, fine grained, with trace shell, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.7 %#200=11.2	4.5	SS-4	0	0	0	0
	-10.0	Very loose	6.0	SS-5	1	2	2	4
			8.5	SS-6	2	1	2	3
10.0		Very loose, wet, dark gray, fine grained, with trace organics, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=9.8						
	-15.0							
15.0		Very loose, with trace clay and trace organics	13.5	SS-7	0	0	0	0
	-20.0							
20.0		Very soft, moist, dark gray, with trace organics and trace clay, SANDY SILT (ML)	18.5	SS-8	0	0	0	0
	-25.0							
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Wet, dark gray, with trace shells, FAT CLAY (CH)	23.5	T-1				
	-30.0							
30.0		Very soft, wet, dark gray, with trace sand and trace organics, FAT CLAY (CH, A-7-6(67)), LL=85 PL=26	28.5	SS-9	1	1	0	1

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-61	**Boring Location:**	747+34.0	**Offset:**	RT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	243577.6779	**Easting:**	1819850.877	**Date Started:**	7/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0		PI=59 NMC=74.0 %#200=98.5								
	-35.0									
		Very soft		33.5	SS-10	0	0	0	0	●
35.0										
	-40.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Moist, with trace shell		38.5	T-2					
40.0										
	-45.0									
		Very soft, with wood		43.5	SS-11	1	1	1	2	●
45.0										
	-50.0									
		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 21 inches of recovery. Soft, moist, gray, with wood and few sand, FAT CLAY (CH, A-7-5(79)), LL=110 PL=37 PI=73 NMC=89.8 %#200=90.6		48.5	T-3					▲
50.0										
	-55.0									
		Firm, light gray, with trace sand		53.5	SS-12	0	2	3	5	●
55.0										
	-60.0									
		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 22 inches of recovery.		58.5	T-4					▲
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-61	**Boring Location:**	747+34.0	**Offset:**	RT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	243577.6779	**Easting:**	1819850.877	**Date Started:**	7/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	Firm, moist, light gray, with trace sand, FAT CLAY (CH, A-7-6(73)), LL=86 PL=19 PI=67 NMC=46.7 %#200=96.7								
65.0		Very soft		63.5	SS-13	0	0	0	0	●
	-70.0									
70.0		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 11 inches of recovery. Moist, gray, SANDY LEAN CLAY (CL)		68.5	T-5					
	-75.0									
75.0		Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.8 %#200=9.5		73.5	SS-14	11	11	8	19	▲ ●
	-80.0									
80.0		Medium dense, wet, brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.6 %#200=2.3		78.5	SS-15	6	7	7	14	▲ ●
	-85.0									
85.0		Medium dense, wet, light brown, fine to medium grained, with trace silt and little gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=17.3 %#200=2.6		83.5	SS-16	8	14	12	26	▲ ○ ●
	-90.0									
90.0		Dense		88.5	SS-17	15	17	17	34	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-61	**Boring Location:**	747+34.0	**Offset:**	RT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	243577.6779	**Easting:**	1819850.877	**Date Started:**	7/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
		Dense, with trace silt		93.5	SS-18	16	22	22	44	●
95.0										
	-100.0									
		Dense, light gray, with trace gravel		98.5	SS-19	20	19	16	35	●
100.0										
	-105.0									
		Medium dense, wet, light brown, fine grained, WELL GRADED GRAVEL with SAND (GW, A-1-a(0)), LL=NP PL=NP PI=NP NMC=7.5 %#200=3.0		103.5	SS-20	9	10	14	24	×▲○ ●
105.0										
	-110.0									
		Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND (SP)		108.5	SS-21	5	3	22	25	●
110.0										
	-115.0									
		Medium dense, with trace wood and trace silt		113.5	SS-22	7	11	12	23	●
115.0										
	-120.0									
		Dense, wet, gray, fine to medium grained, with trace clay and trace gravel, SILTY SAND (SM)		118.5	SS-23	13	18	26	44	●
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-61	**Boring Location:**	747+34.0	**Offset:**	RT 06.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	243577.6779	**Easting:**	1819850.877	**Date Started:**	7/20/2016
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0									
		Dense, wet, gray, fine to medium grained, with trace organics and few gravel, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.5 %#200=10.9		123.5	SS-24	16	17	21	38	
125.0										
	-130.0									
		Dense		128.5	SS-25	17	18	22	40	
130.0										
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-62	**Boring Location:**	750+42.3	**Offset:**	LT 19.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	243448.1058	**Easting:**	1820131.721	**Date Started:**	7/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, No Recovery		1.5	SS-2	0	0	0	0
	-5.0			3.0	SS-3	0	0	0	0
5.0		Very loose, wet, dark brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.0 %#200=15.4		4.5	SS-4	0	0	0	0
		Very loose		6.0	SS-5	0	0	0	0
		Very loose, with trace clay							
	-10.0			8.5	SS-6	0	0	0	0
10.0		Very loose, with shell							
	-15.0			13.5	SS-7	0	0	0	0
15.0		Very loose, with trace wood							
	-20.0			18.5	SS-8	0	0	0	0
20.0		Very soft, wet, brownish gray, with little sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=27.9 %#200=86.4							
	-25.0			23.5	SS-9	0	0	0	0
25.0		Very soft, wet, brownish gray, FAT CLAY (CH)							
	-30.0			28.5	T-1				
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-62	**Boring Location:**	750+42.3	**Offset:**	LT 19.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	243448.1058	**Easting:**	1820131.721	**Date Started:**	7/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
		Soft, moist, brownish gray, with trace sand, FAT CLAY (CH, A-7-6(68)), LL=85 PL=24 PI=61 NMC=63.9 %#200=97.3								
	-35.0									
		Very soft, with trace shell		33.5	SS-10	0	0	0	0	
35.0										
	-40.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Brownish gray		38.5	T-2					
40.0										
	-45.0									
		Very soft, wet, with trace wood		43.5	SS-11	0	0	0	0	
45.0										
	-50.0									
		Very soft, moist, brownish gray and brown, with few sand and trace wood, ELASTIC SILT (MH, A-7-5(48)), LL=84 PL=41 PI=43 NMC=166.7 %#200=89.6		48.5	SS-12	0	0	0	0	
50.0										
	-55.0									
		Very soft, moist, light gray, with trace organics, LEAN CLAY (CL)		53.5	SS-13	0	0	0	0	
55.0										
	-60.0									
		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 24 inches of recovery.		58.5	T-3					
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-62	**Boring Location:**	750+42.3	**Offset:**	LT 19.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	243448.1058	**Easting:**	1820131.721	**Date Started:**	7/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
		Firm, moist, light gray, with few sand and trace organics, LEAN CLAY (CL, A-7-6(31)), LL=47 PL=16 PI=31 NMC=31.8 %#200=94.5								
	-65.0									
		Soft		63.5						
65.0					SS-14	0	0	3	3	●
	-70.0									
		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 24 inches of recovery.		68.5						
70.0		Moist, gray			T-4					
	-75.0									
		Medium dense, wet, gray and light gray, fine to medium grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=6.1		73.5						
75.0					SS-15	8	8	9	17	×▲ ● ○
	-80.0									
		Medium dense, gray		78.5						
80.0					SS-16	10	11	14	25	●
	-85.0									
		Medium dense, wet, gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.8 %#200=7.1		83.5						
85.0					SS-17	8	13	14	27	×▲ ○●
	-90.0									
		Medium dense, with trace gravel		88.5						
90.0					SS-18	13	12	16	28	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-62	**Boring Location:**	750+42.3	**Offset:**	LT 19.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	243448.1058	**Easting:**	1820131.721	**Date Started:**	7/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Dense, fine to coarse grained		93.5	SS-19	22	16	18	34	
100.0	-100.0	Dense, wet, gray, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=14.3 %#200=4.8		98.5	SS-20	18	20	17	37	
105.0	-105.0	Medium dense, with trace silt		103.5	SS-21	12	9	9	18	
110.0	-110.0	Dense		108.5	SS-22	6	12	24	36	
115.0	-115.0	Loose, medium grained, with trace silt		113.5	SS-23	7	6	3	9	
120.0	-120.0	Medium dense, wet, gray, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP		118.5	SS-24	7	7	15	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-62	**Boring Location:**	750+42.3	**Offset:**	LT 19.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	243448.1058	**Easting:**	1820131.721	**Date Started:**	7/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/19/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		PI=NP NMC=16.9 %#200=21.1 Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
	-5.0	Very loose, wet, brown and dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.5 %#200=14.0		1.5	SS-2	0	0	0	0
		Very loose, No Recovery		3.0	SS-3	0	0	0	0
5.0		Very loose, No Recovery		4.5	SS-4	0	0	0	0
	-10.0	Very loose, wet, dark gray and dark brown, fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=31.3 %#200=10.7		6.0	SS-5	0	0	0	0
		Very loose, dark brown, with trace organics		8.5	SS-6	1	1	1	2
10.0									
	-15.0								
15.0		Very soft, wet, dark gray, with organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=49.9 %#200=63.5		13.5	SS-7	0	0	0	0
	-20.0								
20.0		Very soft, moist, dark gray, with little sand and trace organics, FAT CLAY (CH, A-7-6(27)), LL=52 PL=22 PI=30 NMC=44.3 %#200=85.4		18.5	SS-8	0	0	0	0
	-25.0								
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 23 inches of recovery. Gray		23.5	T-1				
	-30.0								
30.0		Very soft, dark gray, with trace organics		28.5	SS-9	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Very soft, moist, dark gray, with trace sand, FAT CLAY (CH, A-7-6(72)), LL=90 PL=25 PI=65 NMC=81.2 %#200=95.6		33.5	T-2					
	-40.0									
		Very soft		38.5	SS-10	0	0	0	0	
40.0										
	-45.0									
45.0		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Very soft, dark gray and gray, with trace wood		43.5	T-3					
	-50.0									
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 24 inches of recovery. Gray and brown		48.5	T-4					
	-55.0									
		Very soft, dark gray, with trace wood		53.5	SS-11	0	0	0	0	
55.0										
	-60.0									
		Soft, moist, grayish brown and gray, with trace sand, FAT CLAY (CH, A-7-6(46)), LL=65 PL=24 PI=41		58.5	SS-12	0	0	3	3	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	NMC=37.7 %#200=97.3								
65.0		Undisturbed sample obtained from 63.5 to 65.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(46)), LL=64 PL=23 PI=41 NMC=32.3 %#200=97.6		63.5	T-5					
	-70.0									
70.0		Firm, light brown and gray		68.5	SS-13	0	3	4	7	
	-75.0									
75.0		Undisturbed sample obtained from 73.5 to 75.5 feet. Approximately 19 inches of recovery. Top of tube: Wet, pale brown to yellowish brown		73.5	T-6					
	-80.0	Bottom of tube: Wet, gray and tan, fine grained, POORLY GRADED SAND (SP)								
80.0		Medium dense		78.5	SS-14	4	5	7	12	
	-85.0									
85.0		Medium dense, wet, light brown, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=4.4		83.5	SS-15	9	12	17	29	
	-90.0									
90.0		Medium dense, fine to medium grained, with trace gravel		88.5	SS-16	10	9	12	21	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
		Medium dense, wet, gray, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=27.6 %#200=11.8		93.5	SS-17	4	5	18	23	
95.0	-100.0									
		Hard, gray, with trace sand, FAT CLAY (CH, A-7-6(55)), LL=75 PL=24 PI=51 NMC=60.2 %#200=95.0		98.5	SS-18	15	21	23	44	
100.0	-105.0									
		Dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT and GRAVEL (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.4 %#200=6.7		103.5	SS-19	10	19	22	41	
105.0	-110.0									
		Dense, fine grained		108.5	SS-20	11	15	21	36	
110.0	-115.0									
		Very dense		113.5	SS-21	13	25	30	55	
115.0	-120.0									
		Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP		118.5	SS-22	18	17	21	38	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-125.0	PI=NP NMC=28.5 %#200=8.5								
125.0		Dense		123.5	SS-23	10	11	30	41	
	-130.0									
130.0		Hard, moist, bluish gray, LEAN CLAY with SAND (CL, A-6(18)), LL=38 PL=16 PI=22 NMC=21.7 %#200=83.5		128.5	SS-24	14	16	17	33	
	-135.0									
135.0		Hard, moist, gray, SILTY CLAY with SAND (CL-ML, A-4(2)), LL=25 PL=20 PI=5 NMC=26.1 %#200=77.9		133.5	SS-25	8	19	27	46	
	-140.0									
140.0		Very stiff		138.5	SS-26	15	14	16	30	
	-145.0									
145.0		Very stiff, wet, gray, with trace clay, SILT with SAND (ML, A-4(0)), LL=20 PL=17 PI=3 NMC=28.5 %#200=83.3		143.5	SS-27	6	8	17	25	
	-150.0									
150.0		Hard		148.5	SS-28	0	17	31	48	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-63	**Boring Location:**	753+26.8	**Offset:**	LT 16.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243107.564	**Easting:**	1820677.355	**Date Started:**	7/8/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/14/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-64	**Boring Location:**	756+84.2	**Offset:**	RT 21.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243308.8545	**Easting:**	1820379.515	**Date Started:**	7/15/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, black and brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose	1.5	SS-2	0	0	0	0
		Very loose, wet, brown and black, fine grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.1 %#200=18.3	3.0	SS-3	1	1	3	4
5.0		Medium dense, brown, gray and black	4.5	SS-4	3	8	10	18
	-10.0	Very loose, wet, gray, black and brown, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=39.3 %#200=38.9	6.0	SS-5	0	1	1	2
		Very soft, wet, gray and brown, LEAN CLAY (CL)	8.5	SS-6	0	0	0	0
10.0	-15.0							
		Very soft, wet, gray, with few sand, LEAN CLAY (CL, A-7-6(18)), LL=43 PL=23 PI=20 NMC=45.2 %#200=87.2	13.5	SS-7	0	0	0	0
15.0	-20.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 20 inches of recovery. Wet, gray, FAT CLAY (CH)	18.5	T-1				
20.0								
	-25.0							
		Very soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-5(72)), LL=91 PL=30 PI=61 NMC=65.7 %#200=98.8	23.5	SS-8	0	0	0	0
25.0	-30.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.	28.5	T-2				
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-64	**Boring Location:**	756+84.2	**Offset:**	RT 21.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243308.8545	**Easting:**	1820379.515	**Date Started:**	7/15/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Very soft, with trace shell		33.5	SS-9	0	0	0	0	
40.0	-40.0	Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Soft, moist, gray, with trace shell, FAT CLAY (CH, A-7-6(33)), LL=55 PL=20 PI=35 NMC=39.0 %#200=87.5		38.5	T-3					
45.0	-45.0	Very soft, moist, gray, with few sand and trace organics, ELASTIC SILT (MH, A-7-5(45)), LL=91 PL=54 PI=37 NMC=102.3 %#200=89.6		43.5	SS-10	0	0	2	2	
50.0	-50.0	Firm, moist, bluish gray, with trace organics, LEAN CLAY (CL)		48.5	SS-11	1	3	3	6	
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Firm, moist, gray, with few sand and trace organics, LEAN CLAY (CL, A-7-6(27)), LL=47 PL=17 PI=30 NMC=28.4 %#200=87.4		53.5	T-4					
60.0	-60.0	Firm, gray and brown		58.5	SS-12	1	3	3	6	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-64	**Boring Location:**	756+84.2	**Offset:**	RT 21.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243308.8545	**Easting:**	1820379.515	**Date Started:**	7/15/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
		Firm, gray, with trace organics, FAT CLAY (CH)		63.5	SS-13	0	2	3	5	●
65.0										
	-70.0			68.5						
		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 18 inches of recovery. Stiff, gray, with few sand, FAT CLAY (CH, A-7-6(35)), LL=53 PL=19 PI=34 NMC=30.1 %#200=94.6			T-5					▲
70.0										
	-75.0									
		Medium dense, wet, brownish gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		73.5	SS-14	5	3	12	15	●
75.0										
	-80.0									
		Medium dense		78.5	SS-15	5	6	6	12	●
80.0										
	-85.0									
		Medium dense, wet, gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.9 %#200=5.9		83.5	SS-16	5	7	12	19	▲ ● ○
85.0										
	-90.0									
		Medium dense, brownish gray and reddish brown		88.5	SS-17	10	7	7	14	●
90.0										

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-64	**Boring Location:**	756+84.2	**Offset:**	RT 21.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243308.8545	**Easting:**	1820379.515	**Date Started:**	7/15/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0		Dense, wet, brownish gray and reddish brown, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=19.8 %#200=4.6		93.5	SS-18	14	15	16	31	
	-100.0	Dense		98.5	SS-19	14	21	17	38	
100.0	-105.0									
105.0		Medium dense, fine to medium grained		103.5	SS-20	14	15	15	30	
	-110.0									
110.0		Medium dense, wet, gray and brownish gray, fine to medium grained, with few gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=5.2		108.5	SS-21	17	14	16	30	
	-115.0									
115.0		Very dense, dark gray		113.5	SS-22	14	22	37	59	
	-120.0									
120.0		Dense, wet, dark gray and brownish gray, fine to medium grained, with few gravel, POORLY GRADED		118.5	SS-23	10	17	20	37	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-64	**Boring Location:**	756+84.2	**Offset:**	RT 21.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Michael Davis
Elev.:	-3.5 ft.	**Northing:**	243308.8545	**Easting:**	1820379.515	**Date Started:**	7/15/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	7/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.5 %#200=4.9 Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-67	**Boring Location:**	766+91.9	**Offset:**	RT 30.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	242652.802	**Easting:**	1821577.804	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		1.5	SS-2	0	0	0	0
	-5.0	Very loose		3.0	SS-3	0	0	0	0
5.0		Very loose, moist, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=6.3		4.5	SS-4	0	0	0	0
		Very loose, wet, brown and black, fine grained, with trace organics, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=30.8 %#200=7.5		6.0	SS-5	0	0	0	0
	-10.0	Very loose		8.5	SS-6	0	0	0	0
10.0									
	-15.0	Very soft, moist, dark gray, with organics, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=40.2 %#200=64.9		13.5	SS-7	0	0	0	0
15.0									
	-20.0	Very soft		18.5	SS-8	0	0	0	0
20.0									
	-25.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Soft, wet, gray, with trace sand, FAT CLAY (CH, A-7-6(47)), LL=67 PL=26 PI=41 NMC=52.1 %#200=98.2		23.5	T-1				
25.0									
	-30.0	Very soft, moist, dark gray, with organics and trace sand, FAT CLAY (CH, A-7-5(62)), LL=85 PL=31 PI=54		28.5	SS-9	0	0	0	0
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-67	**Boring Location:**	766+91.9	**Offset:**	RT 30.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	242652.802	**Easting:**	1821577.804	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
		NMC=59.7 %#200=96.3								
	-35.0			33.5						
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Gray, with trace sand lenses			T-2					
	-40.0			38.5						
40.0		Very soft, dark gray and dark brown, with trace organics			SS-10	0	0	0	0	●
	-45.0			43.5						
45.0		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 22 inches of recovery. Firm, moist, gray, with few sand lenses, ELASTIC SILT (MH, A-7-5(49)), LL=81 PL=38 PI=43 NMC=85.6 %#200=93.4			T-3					▲
	-50.0			48.5						
50.0		Firm, dark brown, with organics			SS-11	0	2	3	5	●
	-55.0			53.5						
55.0		Very soft, moist, gray, FAT CLAY (CH)			SS-12	0	0	2	2	●
	-60.0			58.5						
60.0		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 22 inches of recovery.			T-4					▲

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-67	**Boring Location:**	766+91.9	**Offset:**	RT 30.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	242652.802	**Easting:**	1821577.804	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
		Firm, moist, light gray, with trace sand, FAT CLAY (CH, A-7-6(42)), LL=61 PL=22 PI=39 NMC=34.3 %#200=96.0								
	-65.0			63.5						
65.0		Very soft, wet, brown and gray			SS-13	0	0	2	2	●
				68.5						
	-70.0									
70.0		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 24 inches of recovery. Moist, light gray, with trace sand lenses			T-5					
		Moist, light gray, with trace wood, POORLY GRADED SAND with SILT (SP-SM)								
	-75.0			73.5						
75.0		Medium dense, wet, brownish gray and gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.6 %#200=9.7			SS-14	7	7	6	13	▲ ● ○
	-80.0			78.5						
80.0		Medium dense, grayish brown, with trace organics			SS-15	13	12	13	25	●
	-85.0			83.5						
85.0		Medium dense, moist, light brown			SS-16	9	14	13	27	●
	-90.0			88.5						
90.0		Medium dense, wet, brownish gray, medium to fine and coarse grained, POORLY GRADED SAND with			SS-17	10	7	16	23	▲ ○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-67	**Boring Location:**	766+91.9	**Offset:**	RT 30.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	242652.802	**Easting:**	1821577.804	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	GRAVEL (SP, A-1-a(0)), LL=NP PL=NP PI=NP NMC=13.6 %#200=3.4 Medium dense, with wood		93.5	SS-18	8	6	5	11	
100.0	-100.0	Very stiff, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=58.2		98.5	SS-19	7	9	10	19	
105.0	-105.0	Very dense, wet, brownish gray, fine to medium grained, POORLY GRADED SAND (SP)		103.5	SS-20	19	41	36	77	
110.0	-110.0	Loose, gray		108.5	SS-21	4	4	5	9	
115.0	-115.0	Medium dense, wet, brownish gray, fine grained, POORLY GRADED SAND with CLAY (SP-SC, A-2-6(0)), LL=28 PL=11 PI=17 NMC=26.3 %#200=7.4		113.5	SS-22	11	11	14	25	
120.0	-120.0	Dense, wet, brownish gray, fine grained, SILTY SAND (SM)		118.5	SS-23	9	11	21	32	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-67	**Boring Location:**	766+91.9	**Offset:**	RT 30.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-1.5 ft.	**Northing:**	242652.802	**Easting:**	1821577.804	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/30/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, dark brown and black, fine grained, with organics, SILTY SAND (SM)		0.0	SS-1	0	0	0	0
		Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=41.0 %#200=20.7		1.5	SS-2	0	0	0	0
		Very loose, grayish brown		3.0	SS-3	0	0	0	0
5.0				4.5	SS-4	0	0	0	0
	-10.0	Very loose, wet, grayish brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.6 %#200=12.2		6.0	SS-5	0	0	0	0
		Very loose							
10.0		Very loose, wet, brown and dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.8 %#200=9.2		8.5	SS-6	0	0	2	2
	-15.0								
15.0		Very loose, wet, brownish gray, fine grained, with organics, SILTY SAND (SM)		13.5	SS-7	0	0	0	0
	-20.0								
20.0		Very soft, wet, dark grayish brown, with organics and sand, SANDY CLAY (CL)		18.5	SS-8	0	0	0	0
	-25.0								
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 18 inches of recovery. Wet, dark brown, fine grained, with shells, SILTY GRAVEL with SAND (GM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=53.2 %#200=31.3		23.5	T-1				
	-30.0								
30.0		Very soft, wet, grayish brown, FAT CLAY (CH)		28.5	SS-9	0	1	0	1

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 12 inches of recovery. Very soft, moist, dark grayish brown, with few sand and trace wood, FAT CLAY (CH, A-7-6(52)), LL=77 PL=24 PI=53 NMC=64.3 %#200=87.6		33.5	T-2					
40.0	-40.0	Very soft, with trace shell		38.5	SS-10	0	0	0	0	
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 22 inches of recovery. Wet, with trace organics		43.5	T-3					
50.0	-50.0	Very soft, moist, dark gray and black, with organics, SANDY ELASTIC SILT (MH, A-7-5(23)), LL=81 PL=52 PI=29 NMC=127.2 %#200=67.4		48.5	SS-11	0	0	2	2	
55.0	-55.0	Soft		53.5	SS-12	1	1	2	3	
60.0	-60.0	Very soft, wet, with organics		58.5	SS-13	1	1	1	2	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-65.0									
65.0		Very soft, moist, dark gray, with trace sand and organics, FAT CLAY (CH, A-7-6(58)), LL=80 PL=28 PI=52 NMC=52.7 %#200=94.5		63.5	SS-14	0	0	0	0	
	-70.0									
70.0		Medium dense, wet, gray, fine grained, with trace silt, POORLY GRADED SAND (SP)		68.5	SS-15	4	7	14	21	
	-75.0									
75.0		Medium dense, wet, gray, fine to medium grained, with trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.3 %#200=4.7		73.5	SS-16	11	11	12	23	
	-80.0									
80.0		Loose, moist, gray, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP, A-1-a(0)), LL=NP PL=NP PI=NP NMC=8.4 %#200=2.5		78.5	SS-17	3	3	3	6	
	-85.0									
85.0		Medium dense		83.5	SS-18	7	8	9	17	
	-90.0									
90.0		Very stiff, moist, bluish gray and brown, with trace sand, FAT CLAY with GRAVEL (CH, A-7-6(34)),		88.5	SS-19	5	9	10	19	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0	LL=66 PL=25 PI=41 NMC=31.4 %#200=79.4								
95.0		Hard, moist, bluish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=23.2 %#200=58.4		93.5	SS-20	14	17	27	44	
	-100.0									
100.0		Very dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.5 %#200=9.4		98.5	SS-21	22	36	53	89	
	-105.0									
105.0		Very dense, grayish brown		103.5	SS-22	29	50/6	X	50/6	>>
	-110.0									
110.0		Dense		108.5	SS-23	12	16	22	38	
	-115.0									
115.0		Dense, wet, gray, fine grained, with wood, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=27.6 %#200=7.4		113.5	SS-24	18	24	18	42	
	-120.0									
120.0		Dense, with wood and trace clay		118.5	SS-25	25	22	19	41	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-125.0	Hard, dry, bluish gray, SANDY LEAN CLAY (CL)		123.5	SS-26	9	12	19	31	
130.0	-130.0	Hard		128.5	SS-27	11	14	17	31	
135.0	-135.0	Hard, moist, dark bluish gray, with few sand, FAT CLAY (CH, A-7-6(33)), LL=52 PL=20 PI=32 NMC=25.2 %#200=93.9		133.5	SS-28	12	16	21	37	
140.0	-140.0	Hard		138.5	SS-29	11	15	22	37	
145.0	-145.0	Hard, moist, gray, SANDY LEAN CLAY (CL)		143.5	SS-30	11	16	21	37	
150.0	-150.0	Hard, moist, bluish gray, SANDY LEAN CLAY (CL, A-6(7)), LL=36 PL=15 PI=21 NMC=17.2 %#200=52.6		148.5	SS-31	14	20	32	52	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-78	**Boring Location:**	798+32.8	**Offset:**	RT 05.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	241546.2835	**Easting:**	1824517.414	**Date Started:**	6/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/26/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-79	**Boring Location:**	801+32.7	**Offset:**	RT 03.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	241461.0945	**Easting:**	1824805.074	**Date Started:**	6/22/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, dark brown and black, fine grained, with trace roots, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=45.7 %#200=32.3 Very loose, with organics	0.0	SS-1	0	0	0	0
			1.5	SS-2	0	0	0	0
		Very loose, wet, dark brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)	3.0	SS-3	0	0	2	2
5.0		Loose, wet, dark brown, fine grained, with trace organics, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.1 %#200=10.0	4.5	SS-4	2	3	2	5
	-10.0	Very loose	6.0	SS-5	0	0	2	2
			8.5	SS-6	0	0	0	0
10.0		Very loose, brown, with trace organics						
	-15.0							
15.0		Very loose, wet, brownish gray, fine grained, with trace shells, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=10.7	13.5	SS-7	2	0	0	0
	-20.0							
20.0		Very soft, wet, dark gray, SANDY LEAN CLAY (CL, A-6(10)), LL=40 PL=21 PI=19 NMC=33.7 %#200=64.3	18.5	SS-8	0	0	0	0
	-25.0							
25.0		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Moist, dark gray	23.5	T-1				
	-30.0							
30.0		Very soft, wet, dark grayish brown, with trace sand, FAT CLAY (CH, A-7-6(67)), LL=85 PL=24 PI=61	28.5	SS-9	0	0	0	0

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-79	**Boring Location:**	801+32.7	**Offset:**	RT 03.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	241461.0945	**Easting:**	1824805.074	**Date Started:**	6/22/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	NMC=66.6 %#200=96.0 Wet, dark grayish brown, with trace wood		33.5	T-2					
40.0	-40.0	Very soft, dark grayish brown, SILT with SAND (ML)		38.5	SS-10	0	0	0	0	●
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Stiff, moist, dark gray, with trace organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=27.5 %#200=60.9		43.5	T-3					× ○ ▲
50.0	-50.0	Very soft, moist, dark gray, with organics, FAT CLAY (CH)		48.5	SS-11	0	0	2	2	●
55.0	-55.0	Soft, gray, with trace organics		53.5	SS-12	0	1	3	4	●
60.0	-60.0	Very soft		58.5	SS-13	0	0	0	0	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-79	**Boring Location:**	801+32.7	**Offset:**	RT 03.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	241461.0945	**Easting:**	1824805.074	**Date Started:**	6/22/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Hard, wet, gray, SANDY LEAN CLAY (CL, A-6(13)), LL=40 PL=15 PI=25 NMC=39.9 %#200=63.1		63.5	SS-14	15	20	17	37	
	-70.0									
70.0		Dense, wet, gray, fine grained, SILTY SAND (SM)		68.5	SS-15	11	15	20	35	
	-75.0									
75.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.1 %#200=13.8		73.5	SS-16	8	12	13	25	
	-80.0									
80.0		Medium dense, fine to coarse grained, with trace gravel		78.5	SS-17	8	10	14	24	
	-85.0									
85.0		Medium dense, light gray, fine to medium grained		83.5	SS-18	10	11	11	22	
	-90.0									
90.0		Very stiff, dry, gray, LEAN CLAY (CL)		88.5	SS-19	7	7	9	16	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-79	**Boring Location:**	801+32.7	**Offset:**	RT 03.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	241461.0945	**Easting:**	1824805.074	**Date Started:**	6/22/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Very stiff, moist, greenish gray		93.5	SS-20	5	7	10	17	
100.0	-100.0	Very stiff, dry, greenish gray, with few sand, LEAN CLAY (CL, A-6(17)), LL=33 PL=12 PI=21 NMC=21.5 %#200=87.9		98.5	SS-21	8	10	15	25	
105.0	-105.0	Very stiff, wet, gray, SILTY CLAY with SAND (CL-ML, A-4(3)), LL=25 PL=18 PI=7 NMC=21.6 %#200=72.0		103.5	SS-22	8	11	11	22	
110.0	-110.0	Dense, wet, gray and dark gray, fine grained, SILTY, CLAYEY SAND (SC-SM, A-2-4(0)), LL=18 PL=14 PI=4 NMC=24.7 %#200=28.9		108.5	SS-23	10	16	20	36	
115.0	-115.0	Dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		113.5	SS-24	26	24	25	49	
120.0	-120.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP		118.5	SS-25	22	31	25	56	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-79	**Boring Location:**	801+32.7	**Offset:**	RT 03.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	241461.0945	**Easting:**	1824805.074	**Date Started:**	6/22/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		PL=NP PI=NP NMC=25.8 %#200=7.6 Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-80	**Boring Location:**	804+32.5	**Offset:**	RT 03.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-5.0 ft.	**Northing:**	241377.7251	**Easting:**	1825093.058	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0	-5.0	Very loose, No Recovery		0.0	SS-1	0	0	0	0	
		Very loose		1.5	SS-2	0	0	0	0	
		Very loose, wet, brown, fine grained, SILTY SAND (SM)		3.0	SS-3	0	0	0	0	
5.0	-10.0	Very loose		4.5	SS-4	0	0	0	0	
		Very loose		6.0	SS-5	0	0	0	0	
		Very loose		8.5	SS-6	3	1	1	2	
10.0	-15.0									
		Very soft, wet, dark brown and brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=33.8 %#200=64.7		13.5	SS-7	0	0	0	0	
15.0	-20.0									
		Very soft, moist, dark gray, with trace sand and trace organics, FAT CLAY (CH, A-7-6(43)), LL=61 PL=21 PI=40 NMC=53.1 %#200=95.7		18.5	SS-8	0	0	0	0	
20.0	-25.0									
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 18 inches of recovery. Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(74)), LL=92 PL=28 PI=64 NMC=73.2 %#200=98.2		23.5	T-1					
25.0	-30.0									
		Very soft, wet, dark gray, with few sand, FAT CLAY (CH, A-7-6(54)), LL=79 PL=25 PI=54 NMC=61.7		28.5	SS-9	0	0	0	0	
30.0	-35.0									

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-80	**Boring Location:**	804+32.5	**Offset:**	RT 03.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-5.0 ft.	**Northing:**	241377.7251	**Easting:**	1825093.058	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-35.0	%#200=89.1								
				33.5						
35.0	-40.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Moist, gray			T-2					
				38.5						
40.0	-45.0	Very loose, moist, dark grayish brown, fine grained, CLAYEY SAND (SC, A-6(1)), LL=27 PL=15 PI=12 NMC=31.3 %#200=39.9			SS-10	0	0	0	0	
				43.5						
45.0	-50.0	Very soft, moist, dark grayish brown, with organics, FAT CLAY (CH)			SS-11	0	0	0	0	
				48.5						
50.0	-55.0	Very soft, with trace organics			SS-12	0	0	0	0	
				53.5						
55.0	-60.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Soft, moist, light gray, with trace sand, FAT CLAY (CH, A-7-6(49)), LL=67 PL=22 PI=45 NMC=39.9 %#200=96.7			T-3					
				58.5						
60.0	-65.0	Soft, dark grayish brown			SS-13	0	0	3	3	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-80	**Boring Location:**	804+32.5	**Offset:**	RT 03.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-5.0 ft.	**Northing:**	241377.7251	**Easting:**	1825093.058	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-65.0									
65.0	-70.0	Medium dense, wet, brownish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.0 %#200=11.1		63.5	SS-14	4	8	7	15	
70.0	-75.0	Medium dense, fine to medium grained, with trace clay		68.5	SS-15	8	13	14	27	
75.0	-80.0	Medium dense, moist, gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=20.5 %#200=3.3		73.5	SS-16	9	11	13	24	
80.0	-85.0	Medium dense		78.5	SS-17	10	10	11	21	
85.0	-90.0	Medium dense, moist, gray and light gray, medium to fine grained, with trace clay, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.8 %#200=2.7		83.5	SS-18	6	11	7	18	
90.0	-95.0	Medium dense, moist, light gray, medium to coarse grained, with trace gravel, POORLY GRADED SAND		88.5	SS-19	8	10	8	18	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-80	**Boring Location:**	804+32.5	**Offset:**	RT 03.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-5.0 ft.	**Northing:**	241377.7251	**Easting:**	1825093.058	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0	(SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=12.5 %#200=1.7								
95.0	-100.0	Very stiff, moist, brown and gray, with few sand, FAT CLAY (CH, A-7-6(38)), LL=56 PL=17 PI=39 NMC=22.0 %#200=92.1		93.5	SS-20	10	11	13	24	
100.0	-105.0	Dense, moist, greenish gray, fine grained, CLAYEY SAND (SC)		98.5	SS-21	7	17	30	47	
105.0	-110.0	Medium dense, moist, gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=37 PL=16 PI=21 NMC=18.3 %#200=43.2		103.5	SS-22	5	11	16	27	
110.0	-115.0	Dense, moist, bluish gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.3 %#200=26.2		108.5	SS-23	16	21	24	45	
115.0	-120.0	Hard, moist, greenish gray, LEAN CLAY (CL)		113.5	SS-24	19	20	24	44	
120.0	-125.0	Hard, moist, bluish gray, with little sand, LEAN CLAY (CL, A-7-6(29)), LL=49 PL=16 PI=33 NMC=12.8		118.5	SS-25	14	17	20	37	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-80	**Boring Location:**	804+32.5	**Offset:**	RT 03.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-5.0 ft.	**Northing:**	241377.7251	**Easting:**	1825093.058	**Date Started:**	5/27/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	6/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		%#200=87.1 Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-86	**Boring Location:**	822+32.4	**Offset:**	LT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	240886.9994	**Easting:**	1826824.797	**Date Started:**	5/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, wet, brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
	-5.0		3.0	SS-3	0	0	0	0
		Very loose, No Recovery	4.5	SS-4	0	0	0	0
5.0		Very loose, wet, brown and black, fine to medium grained, with trace organics, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=50.7 %#200=37.4	6.0	SS-5	0	0	0	0
	-10.0	Very loose						
		Very loose, brown	8.5	SS-6	0	0	0	0
10.0								
	-15.0							
		Very loose, wet, gray, fine grained, with trace gravel, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=59.2 %#200=35.9	13.5	SS-7	1	1	1	2
15.0								
	-20.0							
		Very loose, with trace shell	18.5	SS-8	0	0	0	0
20.0								
	-25.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 17 inches of recovery. Very soft, moist, gray, with few sand and trace gravel, LEAN CLAY (CL, A-6(16)), LL=38 PL=21 PI=17 NMC=43.9 %#200=90.0	23.5	T-1				
25.0								
	-30.0							
		Very soft, moist, gray, FAT CLAY (CH)	28.5	SS-9	0	0	0	0
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-86	**Boring Location:**	822+32.4	**Offset:**	LT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	240886.9994	**Easting:**	1826824.797	**Date Started:**	5/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 14 inches of recovery. Soft, moist, gray, with few sand, FAT CLAY (CH, A-7-6(46)), LL=68 PL=24 PI=44 NMC=57.5 %#200=93.5		33.5	T-2					
40.0	-40.0	Very soft, with trace organics		38.5	SS-10	0	0	0	0	
45.0	-45.0	Very soft		43.5	SS-11	0	0	0	0	
50.0	-50.0	Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 17 inches of recovery. Soft, moist, gray, with few sand, FAT CLAY (CH, A-7-6(39)), LL=61 PL=24 PI=37 NMC=54.5 %#200=94.1		48.5	T-4					
55.0	-55.0	Very soft		53.5	SS-12	0	0	0	0	
60.0	-60.0	Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 6 inches of recovery.		58.5	T-5					

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-86	**Boring Location:**	822+32.4	**Offset:**	LT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	240886.9994	**Easting:**	1826824.797	**Date Started:**	5/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
		Very soft, moist, gray, LEAN CLAY with SAND (CL, A-6(17)), LL=38 PL=18 PI=20 NMC=45.6 %#200=84.9								
	-65.0									
65.0		Very loose, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.9 %#200=26.1		63.5	SS-13	0	0	0	0	
	-70.0									
70.0		Undisturbed sample obtained from 68.5 to 70.5 feet. Approximately 18 inches of recovery. Moist, fine to medium grained		68.5	T-6					
	-75.0									
75.0		Loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		73.5	SS-14	1	4	5	9	
	-80.0									
80.0		Loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=7.2		78.5	SS-15	4	4	5	9	
	-85.0									
85.0		Medium dense		83.5	SS-16	3	6	6	12	
	-90.0									
90.0		Medium dense		88.5	SS-17	3	5	8	13	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-86	**Boring Location:**	822+32.4	**Offset:**	LT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	240886.9994	**Easting:**	1826824.797	**Date Started:**	5/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Medium dense, with trace gravel		93.5	SS-18	4	6	7	13	
100.0	-100.0	Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=20.6 %#200=7.0		98.5	SS-19	4	7	12	19	
105.0	-105.0	Stiff, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(13)), LL=36 PL=14 PI=22 NMC=11.4 %#200=69.4		103.5	SS-20	4	4	8	12	
110.0	-110.0	Very stiff, dry, gray, LEAN CLAY with SAND (CL, A-6(14)), LL=33 PL=13 PI=20 NMC=27.9 %#200=78.6		108.5	SS-21	6	8	10	18	
115.0	-115.0	Very stiff, greenish gray and brown		113.5	SS-22	4	8	8	16	
120.0	-120.0	Very stiff		118.5	SS-23	7	10	12	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-86	**Boring Location:**	822+32.4	**Offset:**	LT 01.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.0 ft.	**Northing:**	240886.9994	**Easting:**	1826824.797	**Date Started:**	5/17/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-87	**Boring Location:**	825+32.5	**Offset:**	LT 01.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240804.7352	**Easting:**	1827113.423	**Date Started:**	5/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/15/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0				0.0						
	-5.0	Very soft, No Recovery			SS-1	0	0	0	0	
		Very soft, wet, brown and dark gray, SILT with SAND (ML)		1.5	SS-2	0	0	0	0	
		Very soft, wet, brown and dark gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=77.9 %#200=79.1		3.0	SS-3	0	0	0	0	
5.0		Very soft		4.5	SS-4	0	0	0	0	
	-10.0	Very soft		6.0	SS-5	0	0	0	0	
				8.5	SS-6	1	1	1	2	
10.0		Very soft, dark grayish brown								
	-15.0									
		Very soft, No Recovery		13.5	SS-7	0	0	0	0	
15.0										
	-20.0									
		Very loose, wet, dark gray, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=37.0 %#200=79.4		18.5	SS-8	0	0	0	0	
20.0										
	-25.0									
		Very soft, moist, gray, with trace shell, FAT CLAY (CH)		23.5	SS-9	0	0	0	0	
25.0										
	-30.0									
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 19 inches of recovery.		28.5	T-1					
30.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-87	**Boring Location:**	825+32.5	**Offset:**	LT 01.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240804.7352	**Easting:**	1827113.423	**Date Started:**	5/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/15/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Soft, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(51)), LL=71 PL=26 PI=45 NMC=57.7 %#200=97.0								
35.0		Very soft, moist, dark grayish brown, with trace shell, LEAN CLAY (CL)		33.5	SS-10	0	0	0	0	
	-40.0									
40.0		Very soft		38.5	SS-11	0	0	0	0	
	-45.0									
45.0		Very soft, moist, dark gray, with few sand, LEAN CLAY (CL, A-7-6(26)), LL=45 PL=18 PI=27 NMC=46.8 %#200=93.0		43.5	SS-12	0	0	0	0	
	-50.0									
50.0		Undisturbed sample obtained from 48.5 to 50.5 feet. Approximately 18 inches of recovery. Moist, gray, FAT CLAY (CH)		48.5	T-3					
	-55.0									
55.0		Very soft, moist, bluish gray, with trace sand, FAT CLAY (CH, A-7-6(41)), LL=57 PL=18 PI=39 NMC=49.1 %#200=97.0		53.5	SS-13	0	0	0	0	
	-60.0									
60.0		Undisturbed sample obtained from 58.5 to 60.5 feet. Approximately 17 inches of recovery.		58.5	T-4					

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-87	**Boring Location:**	825+32.5	**Offset:**	LT 01.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240804.7352	**Easting:**	1827113.423	**Date Started:**	5/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/15/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	Moist, gray, with trace sand and trace silt lenses								
65.0		Very soft, dark gray, with trace sand		63.5	SS-14	0	0	0	0	●
	-70.0	Undisturbed sample obtained from 65.5 to 67.5 feet. Approximately 24 inches of recovery. With trace sand lenses		65.5	T-5					
70.0		Very loose, wet, dark gray, medium to fine grained, SILTY SAND (SM, A-2-4(0)) LL=NP PL=NP PI=NP NMC=22.1 %#200=34.6		68.5	SS-15	1	1	2	3	× ● ○ ▲
	-75.0									
75.0		Loose, wet, dark gray, fine to coarse grained		73.5	SS-16	2	2	3	5	●
	-80.0									
80.0		Medium dense, wet, gray, medium to fine grained, with little gravel, WELL GRADED SAND with SILT (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=18.7 %#200=10.2		78.5	SS-17	3	5	10	15	× ▲ ● ○
	-85.0									
85.0		Loose, with trace gravel		83.5	SS-18	5	4	4	8	●
	-90.0									
90.0		Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP		88.5	SS-19	4	6	6	12	× ▲ ● ○

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-87	**Boring Location:**	825+32.5	**Offset:**	LT 01.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240804.7352	**Easting:**	1827113.423	**Date Started:**	5/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/15/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0	PL=NP PI=NP NMC=14.2 %#200=3.8								
95.0		Stiff, moist, bluish gray, LEAN CLAY with SAND (CL)		93.5	SS-20	4	6	7	13	
	-100.0									
100.0		Stiff, moist, bluish gray, LEAN CLAY with SAND (CL, A-7-6(15)), LL=41 PL=17 PI=24 NMC=29.9 %#200=71.4		98.5	SS-21	6	5	7	12	
	-105.0									
105.0		Very stiff, dry to moist		103.5	SS-22	7	12	11	23	
	-110.0									
110.0		Very stiff, moist, bluish gray and light brown, with few sand, FAT CLAY (CH, A-7-6(37)), LL=57 PL=21 PI=36 NMC=22.3 %#200=93.7		108.5	SS-23	6	10	10	20	
	-115.0									
115.0		Very stiff		113.5	SS-24	6	8	21	29	
	-120.0									
120.0		Stiff, with trace sand lenses		118.5	SS-25	5	7	6	13	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-87	**Boring Location:**	825+32.5	**Offset:**	LT 01.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240804.7352	**Easting:**	1827113.423	**Date Started:**	5/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	5/15/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, dark grayish brown, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose	1.5	SS-2	0	0	0	0
		Very loose, with trace organics	3.0	SS-3	0	0	0	0
5.0		Very loose	4.5	SS-4	0	0	0	0
	-10.0	Very loose, wet to moist, gray and dark gray, fine grained, with trace clay and wood, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=38.9 %#200=30.7	6.0	SS-5	0	0	0	0
		Very loose	8.5	SS-6	0	0	0	0
10.0	-15.0							
		Very loose, with trace shells and trace organics	13.5	SS-7	0	0	0	0
15.0	-20.0							
		Very soft, wet, dark gray, with trace organics, LEAN CLAY with SAND (CL, A-4(7)), LL=32 PL=23 PI=9 NMC=44.1 %#200=82.6	18.5	SS-8	0	0	0	0
20.0	-25.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 18 inches of recovery. Soft, wet, dark grayish brown, with trace sand, FAT CLAY (CH, A-7-6(54)), LL=74 PL=27 PI=47 NMC=60.7 %#200=98.4	23.5	T-1				
25.0	-30.0							
		Very soft, dark gray, with trace organics	28.5	SS-9	0	0	0	0
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 24 inches of recovery. Very soft		33.5	T-2					
40.0	-40.0	Very soft		38.5	SS-10	0	0	0	0	●
45.0	-45.0	Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Firm, moist, dark gray, with little sand, FAT CLAY (CH, A-7-6(47)), LL=72 PL=21 PI=51 NMC=52.6 %#200=85.2		43.5	T-3					× ○ × ▲
50.0	-50.0	Very soft, with trace organics and trace sand		48.5	SS-11	0	0	0	0	●
55.0	-55.0	Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Top of tube: Gray Bottom of tube: Wet, dark gray, fine to medium grained, SILTY SAND (SM)		53.5	T-4					
60.0	-60.0	Very loose, with trace clay		58.5	SS-12	0	0	1	1	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL ⨯ MC ○ LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Loose, dark gray and gray, fine grained		63.5	SS-13	2	3	3	6	●
	-70.0									
70.0		Loose, with trace clay		68.5	SS-14	1	2	5	7	●
	-75.0									
75.0		Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		73.5	SS-15	3	6	7	13	●
	-80.0									
80.0		Medium dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.7 %#200=8.3		78.5	SS-16	8	9	10	19	⨯ ▲ ● ○
	-85.0									
85.0		Medium dense, with trace gravel		83.5	SS-17	5	8	8	16	●
	-90.0									
90.0		Medium dense, light gray and gray		88.5	SS-18	4	5	6	11	●

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Dense, moist, greenish gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.9 %#200=23.8		93.5	SS-19	10	18	22	40	
	-100.0									
100.0		Dense		98.5	SS-20	20	21	24	45	
	-105.0									
105.0		Dense, moist, bluish gray and gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.7 %#200=15.4		103.5	SS-21	8	21	17	38	
	-110.0									
110.0		Stiff, moist, bluish gray and gray, LEAN CLAY with SAND (CL)		108.5	SS-22	5	7	8	15	
	-115.0									
115.0		Stiff, bluish gray		113.5	SS-23	4	6	9	15	
	-120.0									
120.0		Stiff, moist, gray and light brown, LEAN CLAY with SAND (CL, A-7-6(20)), LL=43 PL=14 PI=29		118.5	SS-24	2	5	9	14	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
		NMC=20.3 %#200=75.7								
	-125.0									
		Hard, wet, reddish brown and gray, LEAN CLAY with SAND (CL, A-7-6(22)), LL=41 PL=13 PI=28 NMC=29.3 %#200=83.0		123.5	SS-25	16	28	38	66	
125.0		Very dense, moist, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)								
	-130.0									
		Very dense, light gray and gray		128.5	SS-26	12	26	33	59	
130.0										
	-135.0									
		Very dense		133.5	SS-27	18	25	27	52	
135.0										
	-140.0									
		Very dense, wet		138.5	SS-28	15	27	26	53	
140.0										
	-145.0									
		Dense		143.5	SS-29	12	23	17	40	
145.0										
	-150.0									
		Very dense, moist, light gray and gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)),		148.5	SS-30	16	24	28	52	
150.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-88	**Boring Location:**	828+36.7	**Offset:**	RT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-2.5 ft.	**Northing:**	240697.7526	**Easting:**	1827399.122	**Date Started:**	4/25/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		LL=NP PL=NP PI=NP NMC=24.6 %#200=7.8 Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-89	**Boring Location:**	831+34.9	**Offset:**	LT 08.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240645.6544	**Easting:**	1827694.474	**Date Started:**	4/20/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very loose, wet, dark gray, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very soft, moist, dark gray, FAT CLAY with SAND (CH, A-7-6(62)), LL=105 PL=27 PI=78 NMC=64.0 %#200=74.7	1.5	SS-2	0	0	0	0
			3.0	SS-3	0	2	2	4
5.0		Very loose, wet, dark gray, fine grained, SILTY SAND (SM) Loose	4.5	SS-4	2	2	3	5
	-10.0	Very loose	6.0	SS-5	2	2	2	4
			8.5	SS-6	0	0	0	0
10.0		Very loose, No Recovery						
	-15.0							
			13.5	SS-7	0	0	0	0
15.0		Very loose, wet, dark gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=41.1 %#200=38.1						
	-20.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 22 inches of recovery. Soft, moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=36.4 %#200=69.3	18.5	T-1				
20.0								
	-25.0							
		Very soft, dark gray	23.5	SS-8	0	0	0	0
25.0								
	-30.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 15 inches of recovery.	28.5	T-2				
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-89	**Boring Location:**	831+34.9	**Offset:**	LT 08.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240645.6544	**Easting:**	1827694.474	**Date Started:**	4/20/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0									
	-35.0	Soft, moist, gray, FAT CLAY (CH)							
				33.5	T-3				
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 13 inches of recovery. Soft, dark gray							
	-40.0								
		Very soft		38.5	SS-9	0	0	0	0
40.0									
	-45.0								
				43.5	T-4				
45.0		Undisturbed sample obtained from 43.5 to 45.5 feet. Approximately 24 inches of recovery. Soft, moist, dark gray, with little sand, FAT CLAY (CH, A-7-6(39)), LL=61 PL=20 PI=41 NMC=50.3 %#200=88.1							
	-50.0								
		Very soft, with trace wood		48.5	SS-10	0	0	0	0
50.0									
	-55.0								
				53.5	T-5				
55.0		Undisturbed sample obtained from 53.5 to 55.5 feet. Approximately 24 inches of recovery. Gray and very dark brown, with some organics							
	-60.0								
		Very loose, wet, tan and gray, fine to medium grained, CLAYEY SAND (SC, A-2-6(1)), LL=38 PL=18 PI=20		58.5	SS-11	0	0	0	0
60.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-89	**Boring Location:**	831+34.9	**Offset:**	LT 08.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240645.6544	**Easting:**	1827694.474	**Date Started:**	4/20/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	NMC=56.5 %#200=28.1								
65.0		Loose, wet, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		63.5	SS-12	6	4	4	8	●
	-70.0									
70.0		Medium dense, gray		68.5	SS-13	8	10	7	17	●
	-75.0									
75.0		Medium dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=19.3 %#200=6.9		73.5	SS-14	5	6	9	15	▲ ● ○
	-80.0									
80.0		Medium dense, fine to coarse grained, with trace gravel		78.5	SS-15	3	6	7	13	●
	-85.0									
85.0		Medium dense, fine to medium grained		83.5	SS-16	8	8	10	18	●
	-90.0									
90.0		Very stiff, moist, bluish gray, with trace sand, FAT CLAY (CH)		88.5	SS-17	4	7	10	17	●

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-89	**Boring Location:**	831+34.9	**Offset:**	LT 08.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240645.6544	**Easting:**	1827694.474	**Date Started:**	4/20/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Very stiff, moist, bluish gray, with trace sand, FAT CLAY (CH, A-7-6(41)), LL=56 PL=17 PI=39 NMC=23.4 %#200=96.3		93.5	SS-18	7	8	12	20	
100.0	-100.0	Very stiff		98.5	SS-19	6	8	11	19	
105.0	-105.0	Medium dense, moist, bluish gray, fine to medium grained, POORLY GRADED SAND (SP)		103.5	SS-20	10	14	14	28	
110.0	-110.0	Medium dense, moist, gray, fine grained, CLAYEY SAND (SC)		108.5	SS-21	5	6	6	12	
115.0	-115.0	Medium dense, moist, gray, fine grained, CLAYEY SAND (SC, A-6(1)), LL=24 PL=13 PI=11 NMC=26.8 %#200=42.8		113.5	SS-22	3	4	8	12	
120.0	-120.0	Medium dense		118.5	SS-23	3	4	7	11	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-89	**Boring Location:**	831+34.9	**Offset:**	LT 08.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-3.5 ft.	**Northing:**	240645.6544	**Easting:**	1827694.474	**Date Started:**	4/20/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-90	**Boring Location:**	834+30.9	**Offset:**	RT 09.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240546.3394	**Easting:**	1827973.917	**Date Started:**	4/12/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very soft, wet, brown and dark gray, with few sand, FAT CLAY (CH, A-7-5(71)), LL=102 PL=33 PI=69 NMC=112.8 %#200=88.9	0.0	SS-1	0	0	0	0
		Very soft, with trace organics and trace sand	1.5	SS-2	0	0	0	0
		Very loose, wet, dark gray and black, fine grained, SILTY SAND (SM)	3.0	SS-3	0	0	0	0
5.0		Very loose, dark gray	4.5	SS-4	0	0	0	0
	-15.0	Very loose	6.0	SS-5	1	1	1	2
		Very soft, wet, dark gray, with trace organics, SILT with SAND (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=44.6 %#200=77.7	8.5	SS-6	0	0	0	0
10.0	-20.0							
		Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 20 inches of recovery. Very soft, moist, gray, LEAN CLAY with SAND (CL)	13.5	T-1				
15.0	-25.0							
		Very soft	18.5	SS-7	0	0	0	0
20.0	-30.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 16 inches of recovery. Wet, dark grayish brown	23.5	T-2				
25.0	-35.0							
		Very loose, wet, dark gray, fine to medium grained CLAYEY SAND (SC, A-6(3)), LL=28 PL=13 PI=15	28.5	SS-8	0	0	0	0
30.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-90	**Boring Location:**	834+30.9	**Offset:**	RT 09.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240546.3394	**Easting:**	1827973.917	**Date Started:**	4/12/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0		NMC=30.3 %#200=43.2								
	-40.0									
		Very loose		33.5	SS-9	0	0	0	0	●
35.0										
	-45.0									
		Top of spoon: Loose, gray and brown		38.5	SS-10	1	3	4	7	●
40.0		Bottom of spoon: Loose, wet, gray, medium to fine grained, POORLY GRADED SAND (SP)								
	-50.0									
		Medium dense, wet, brownish gray, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=16.7 %#200=4.1		43.5	SS-11	4	8	9	17	▲ ●
45.0										
	-55.0									
		Medium dense, light gray		48.5	SS-12	7	10	13	23	●
50.0										
	-60.0									
		Loose		53.5	SS-13	5	6	3	9	●
55.0										
	-65.0									
		Medium dense		58.5	SS-14	5	7	13	20	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-90	**Boring Location:**	834+30.9	**Offset:**	RT 09.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240546.3394	**Easting:**	1827973.917	**Date Started:**	4/12/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
65.0		Medium dense		63.5	SS-15	10	13	12	25	
	-75.0									
70.0		Medium dense, wet, light gray, fine to coarse grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=19.6 %#200=3.4		68.5	SS-16	5	9	8	17	
	-80.0									
75.0		Dense, wet, gray and light gray, fine grained, SILTY SAND (SM)		73.5	SS-17	15	22	20	42	
	-85.0									
80.0		Medium dense, gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=25.4		78.5	SS-18	2	9	18	27	
	-90.0									
85.0		Very stiff, moist, greenish gray, FAT CLAY with SAND (CH, A-7-6(32)), LL=54 PL=17 PI=37 NMC=23.1 %#200=84.6		83.5	SS-19	7	8	13	21	
	-95.0									
90.0		Very stiff		88.5	SS-20	5	7	11	18	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-90	**Boring Location:**	834+30.9	**Offset:**	RT 09.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240546.3394	**Easting:**	1827973.917	**Date Started:**	4/12/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0									
95.0		Medium dense, moist, greenish gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=30 PL=14 PI=16 NMC=16.8 %#200=46.8		93.5	SS-21	6	8	15	23	
	-105.0									
100.0		Dense, wet, gray, fine grained, SILTY SAND (SM)		98.5	SS-22	16	23	25	48	
	-110.0									
105.0		Stiff, wet, gray and light brown, with trace sand, FAT CLAY (CH)		103.5	SS-23	3	5	8	13	
	-115.0									
110.0		Stiff, moist, gray, with few sand, FAT CLAY (CH, A-7-6(35)), LL=54 PL=17 PI=37 NMC=26.1 %#200=89.9		108.5	SS-24	3	7	8	15	
	-120.0									
115.0		Hard, wet to moist, gray and bluish gray, SANDY LEAN CLAY (CL)		113.5	SS-25	10	16	17	33	
	-125.0									
120.0		Very stiff, moist, dark gray, SANDY LEAN CLAY (CL, A-6(5)), LL=29 PL=15 PI=14 NMC=27.9 %#200=58.9		118.5	SS-26	1	5	17	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-90	**Boring Location:**	834+30.9	**Offset:**	RT 09.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240546.3394	**Easting:**	1827973.917	**Date Started:**	4/12/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-91	**Boring Location:**	837+17.1	**Offset:**	LT 06.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240483.3973	**Easting:**	1828253.507	**Date Started:**	4/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, wet, dark gray and brown, SILTY SAND (SM)		0.0	SS-1	0	0	0	0
	-10.0	Very loose, with trace organics		1.5	SS-2	0	0	0	0
		Very loose, wet, dark grayish brown, fine grained, with trace organics and shells, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=31.2 %#200=23.7		3.0	SS-3	0	0	0	0
5.0				4.5	SS-4	0	0	0	0
		Very loose, with trace organics		6.0	SS-5	0	0	0	0
	-15.0	Very loose							
				8.5	SS-6	1	1	1	2
10.0		Very loose							
	-20.0								
		Very soft, wet, dark grayish brown, FAT CLAY (CH)		13.5	SS-7	1	0	0	0
15.0									
	-25.0								
		Very soft, wet, dark grayish brown, with few sand, FAT CLAY (CH, A-7-6(51)), LL=73 PL=24 PI=49 NMC=63.1 %#200=92.1		18.5	SS-8	0	0	0	0
20.0									
	-30.0								
		Very soft, dark gray		23.5	SS-9	0	0	0	0
25.0									
	-35.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-1				
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-91	**Boring Location:**	837+17.1	**Offset:**	LT 06.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240483.3973	**Easting:**	1828253.507	**Date Started:**	4/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Very soft, moist, gray, with trace sand, FAT CLAY (CH)								
		Very soft, light gray and brown, with trace sand		33.5	SS-10	0	0	0	0	●
35.0	-45.0									
		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 18 inches of recovery. Very soft, moist, gray, with few sand, FAT CLAY (CH, A-7-6(36), LL=56 PL=19 PI=37 NMC=59.7 %#200=89.8		38.5	T-2					× ○ ▲
40.0	-50.0									
		Loose, wet, light gray, fine grained, SILTY SAND (SM)		43.5	SS-11	1	2	3	5	●
45.0	-55.0									
		Medium dense, moist, pale brown, fine to medium grained, POORLY GRADED SAND (SP)		48.5	SS-12	4	6	14	20	●
50.0	-60.0									
		Medium dense, wet, light brown		53.5	SS-13	6	11	15	26	●
55.0	-65.0									
		Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)),		58.5	SS-14	5	12	14	26	× ▲ ○ ●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-91	**Boring Location:**	837+17.1	**Offset:**	LT 06.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240483.3973	**Easting:**	1828253.507	**Date Started:**	4/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0		LL=NP PL=NP PI=NP NMC=23.8 %#200=4.1								
	-70.0									
		Medium dense		63.5	SS-15	6	9	12	21	●
65.0										
	-75.0									
		Dense, light gray		68.5	SS-16	5	14	18	32	●
70.0										
	-80.0									
		Medium dense, wet, gray and light gray, fine grained, SILTY SAND with GRAVEL (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=14.4		73.5	SS-17	1	7	15	22	▲ ● ○
75.0										
	-85.0									
		Dense, wet, gray, fine grained, POORLY GRADED SAND (SP)		78.5	SS-18	8	18	20	38	●
80.0										
	-90.0									
		Dense, gray and dark gray		83.5	SS-19	6	14	19	33	●
85.0										
	-95.0									
		Very dense, light gray		88.5	SS-20	9	22	34	56	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-91	**Boring Location:**	837+17.1	**Offset:**	LT 06.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240483.3973	**Easting:**	1828253.507	**Date Started:**	4/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0									
95.0		Very stiff, moist, bluish gray, SANDY LEAN CLAY (CL, A-6(5)), LL=35 PL=20 PI=15 NMC=20.4 %#200=52.1		93.5	SS-21	4	8	12	20	
	-105.0									
100.0		Dense, wet, bluish gray, fine grained, SILTY SAND (SM)		98.5	SS-22	13	21	26	47	
	-110.0									
105.0		Dense, light gray and gray		103.5	SS-23	16	17	16	33	
	-115.0									
110.0		Stiff, moist, light gray and gray, LEAN CLAY with SAND (CL)		108.5	SS-24	3	4	5	9	
	-120.0									
115.0		Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-6(13)), LL=37 PL=17 PI=20 NMC=18.3 %#200=74.3		113.5	SS-25	5	9	9	18	
	-125.0									
120.0		Medium dense, wet, gray, fine grained, SILTY SAND (SM)		118.5	SS-26	6	8	7	15	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-91	**Boring Location:**	837+17.1	**Offset:**	LT 06.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240483.3973	**Easting:**	1828253.507	**Date Started:**	4/10/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/12/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-92	**Boring Location:**	840+33.2	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	240387.6366	**Easting:**	1828554.977	**Date Started:**	4/7/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
				1.5	SS-2	0	0	0	0
	-10.0	Very loose, wet, gray and black, fine to medium grained, with trace organics, POORLY GRADED SAND with SILT (SP-SM) Very loose		3.0	SS-3	0	0	0	0
5.0		Very loose, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=30.1 %#200=6.0 Very loose		4.5	SS-4	0	0	0	0
				6.0	SS-5	0	0	0	0
	-15.0								
		Very loose, fine to medium grained		8.5	SS-6	0	0	0	0
10.0									
	-20.0								
		Very soft, wet, dark gray, LEAN CLAY with SAND (CL, A-6(9)), LL=32 PL=19 PI=13 NMC=45.2 %#200=81.5		13.5	SS-7	0	0	0	0
15.0		Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray		15.5	T-1				
	-25.0								
		Very soft, moist, gray, FAT CLAY (CH)		18.5	SS-8	0	0	0	0
20.0									
	-30.0								
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very soft		23.5	T-2				
25.0									
	-35.0								
		Very soft, moist, gray, FAT CLAY with SAND (CH, A-7-6(25)), LL=51 PL=23 PI=28 NMC=51.1		28.5	SS-9	0	0	0	0
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-92	**Boring Location:**	840+33.2	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	240387.6366	**Easting:**	1828554.977	**Date Started:**	4/7/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0		%#200=84.4								
	-40.0									
35.0		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 16 inches of recovery. Very soft, gray and brown		33.5	T-3					
	-45.0			38.5	SS-10	1	3	6	9	●
40.0		Loose, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)								
	-50.0			43.5	SS-11	2	4	4	8	● ○
45.0		Loose, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=8.3								
	-55.0			48.5	SS-12	4	6	10	16	●
50.0		Medium dense								
	-60.0			53.5	SS-13	6	9	16	25	●
55.0		Medium dense								
	-65.0			58.5	SS-14	7	8	11	19	●
60.0		Medium dense								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-92	**Boring Location:**	840+33.2	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	240387.6366	**Easting:**	1828554.977	**Date Started:**	4/7/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-70.0	Medium dense		63.5	SS-15	6	6	5	11	●
70.0	-75.0	Very loose, moist, gray, fine grained, CLAYEY SAND (SC)		68.5	SS-16	0	0	0	0	●
75.0	-80.0	Undisturbed sample obtained from 73.5 to 75.5 feet. Approximately 22 inches of recovery. Loose, moist, gray, fine grained, with few gravel, CLAYEY SAND (SC, A-2-7(1)), LL=61 PL=26 PI=35 NMC=31.4 %#200=17.5		73.5	T-4					▲ ×—○—×
80.0	-85.0	Soft, moist, gray, FAT CLAY (CH)		78.5	SS-17	0	0	3	3	●
85.0	-90.0	Undisturbed sample obtained from 80.5 to 82.5 feet. Approximately 10 inches of recovery. Soft Very soft		80.5 83.5	T-5 SS-18	0	0	1	1	●
90.0	-95.0	Very soft, with trace sand		88.5	SS-19	0	0	0	0	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-92	**Boring Location:**	840+33.2	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	240387.6366	**Easting:**	1828554.977	**Date Started:**	4/7/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
90.0										
		Undisturbed sample obtained from 90.5 to 92.5 feet. Approximately 24 inches of recovery. Very stiff, moist, gray, SANDY FAT CLAY (CH, A-7-6(21)), LL=59 PL=21 PI=38 NMC=26.1 %#200=61.6		90.5	T-6					
	-100.0	Very stiff, greenish gray		93.5	SS-20	4	7	9	16	
95.0										
	-105.0	Dense, moist, greenish gray, fine grained, SILTY, CLAYEY SAND (SC-SM, A-2-4(0)), LL=24 PL=17 PI=7 NMC=26.2 %#200=20.2		98.5	SS-21	14	24	23	47	
100.0										
	-110.0	Dense, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		103.5	SS-22	9	21	21	42	
105.0										
	-115.0	Stiff, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=28 PL=14 PI=14 NMC=22.7 %#200=69.3		108.5	SS-23	2	4	6	10	
110.0										
	-120.0	Very stiff, moist, brown and greenish gray, FAT CLAY (CH)		113.5	SS-24	5	11	14	25	
115.0										
	-125.0	Hard		118.5	SS-25	9	17	21	38	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-92	**Boring Location:**	840+33.2	**Offset:**	RT 02.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	240387.6366	**Easting:**	1828554.977	**Date Started:**	4/7/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/9/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, No Recovery		0.0	SS-1	0	0	0	0
	-10.0	Very soft, wet, black and brown, with trace organics, SANDY CLAY (CL)		1.5	SS-2	0	0	0	0
		Very loose, wet, light brown, fine grained, SILTY SAND (SM)		3.0	SS-3	0	0	0	0
5.0		Very loose, black and brown, with trace organics		4.5	SS-4	0	0	0	0
	-15.0	Very loose, wet, black and brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=48.6 %#200=23.7		6.0	SS-5	0	1	1	2
		Very loose, with wood		8.5	SS-6	0	0	0	0
10.0									
	-20.0								
		Very loose, dark gray and gray		13.5	SS-7	1	1	2	3
15.0									
	-25.0								
		Very loose, wet, dark grayish brown, medium to coarse grained, SILTY SAND with GRAVEL (SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=41.2 %#200=19.2		18.5	SS-8	1	1	1	2
20.0									
	-30.0								
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 10 inches of recovery. Moist, gray, with trace sand, FAT CLAY (CH)		23.5	T-1				
25.0									
	-35.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-2				
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Moist, gray, with trace shell, FAT CLAY (CH, A-7-5(46)), LL=76 PL=33 PI=43 NMC=44.9 %#200=90.9								
35.0		Loose, moist, light gray, fine grained, SILTY SAND (SM)		33.5	SS-9	2	4	2	6	●
	-45.0									
40.0		Medium dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		38.5	SS-10	5	6	9	15	●
	-50.0									
45.0		Medium dense, light grayish brown		43.5	SS-11	5	10	13	23	●
	-55.0									
50.0		Medium dense, moist, light grayish brown, fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.6 %#200=5.1		48.5	SS-12	3	6	7	13	×▲● ○
	-60.0									
55.0		Medium dense, gray and light gray, with trace gravel		53.5	SS-13	6	8	10	18	●
	-65.0									
60.0		Medium dense, wet, light gray, with trace gravel		58.5	SS-14	6	8	9	17	●

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
65.0		Medium dense		63.5	SS-15	8	5	8	13	●
	-75.0									
70.0		Medium dense, gray		68.5	SS-16	7	7	11	18	●
	-80.0									
75.0		Medium dense, wet, light gray and gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=4.4		73.5	SS-17	10	10	13	23	▲ ●
	-85.0									
80.0		Dense, light gray, fine to medium grained		78.5	SS-18	14	15	19	34	●
	-90.0									
85.0		Undisturbed sample obtained from 83.5 to 85.5 feet. Approximately 20 inches of recovery. Top of tube: Light brown		83.5	T-3					
	-95.0	Bottom of tube: Moist, gray and black, FAT CLAY (CH)								
90.0		Soft, wet, dark grayish brown, with few sand lenses, FAT CLAY (CH, A-7-6(30)), LL=53 PL=21 PI=32		88.5	SS-19	0	0	4	4	● ▲

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0	NMC=32.2 %#200=86.7 Undisturbed sample obtained from 90.5 to 92.5 feet. Approximately 14 inches of recovery. Moist, greenish gray		90.5	T-4					
95.0		Very stiff, bluish gray		93.5	SS-20	4	8	11	19	
	-105.0									
100.0		Dense, wet, greenish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		98.5	SS-21	7	12	23	35	
	-110.0									
105.0		Dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=27.4 %#200=9.4		103.5	SS-22	8	23	26	49	
	-115.0									
110.0		Very dense, greenish gray		108.5	SS-23	19	23	30	53	
	-120.0									
115.0		Very stiff, moist, greenish gray, SANDY LEAN CLAY (CL)		113.5	SS-24	8	13	13	26	
	-125.0									
120.0		Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		118.5	SS-25	16	27	30	57	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0								
	-130.0							
125.0		Very dense	123.5	SS-26	17	29	25	54
	-135.0							
130.0		Medium dense	128.5	SS-27	6	10	13	23
	-140.0							
135.0		Medium dense, gray and black, with trace organics	133.5	SS-28	3	4	7	11
	-145.0							
140.0		Medium dense	138.5	SS-29	7	11	18	29
	-150.0							
145.0		Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=7.6	143.5	SS-30	14	27	29	56
	-155.0							
150.0		Dense	148.5	SS-31	16	21	25	46

● SPT N VALUE (blows / foot)

PL ✕ MC ○ LL ✕

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-93	**Boring Location:**	843+28.3	**Offset:**	RT 06.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	240302.8643	**Easting:**	1828837.627	**Date Started:**	4/3/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-94	**Boring Location:**	846+35.5	**Offset:**	LT 04.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-10.5 ft.	**Northing:**	240228.9435	**Easting:**	1829136.042	**Date Started:**	3/29/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, wet, black and brown, fine to medium grained, with trace shells, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
		Very loose		3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, dark gray and black, fine grained		4.5	SS-4	0	0	0	0
		Very loose, wet, black and dark brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.9 %#200=11.8		6.0	SS-5	0	0	0	0
10.0	-20.0	Very loose, dark gray and brown, with trace wood		8.5	SS-6	1	2	1	3
15.0	-25.0	Very loose, dark gray, with trace wood		13.5	SS-7	1	1	1	2
		Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 24 inches of recovery. Moist, gray, FAT CLAY with SAND (CH)		15.5	ST-1				
20.0	-30.0	Very soft, wet, dark grayish brown, with trace shell, FAT CLAY with SAND (CH, A-7-6(34)), LL=62 PL=25 PI=37 NMC=58.7 %#200=84.5		18.5	SS-8	0	0	0	0
25.0	-35.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 15 inches of recovery. Moist, gray		23.5	ST-2				
30.0	-40.0	Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=35 PL=16 PI=19 NMC=31.7 %#200=53.5		28.5	SS-9	0	0	0	0

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-94	**Boring Location:**	846+35.5	**Offset:**	LT 04.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-10.5 ft.	**Northing:**	240228.9435	**Easting:**	1829136.042	**Date Started:**	3/29/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
				33.5						
35.0	-45.0	Very loose, wet, gray, fine grained, with trace silt, POORLY GRADED SAND (SP)			SS-10	1	2	2	4	●
				38.5						
40.0	-50.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=29.3 %#200=4.9			SS-11	3	6	8	14	×▲ ● ○
				43.5						
45.0	-55.0	Top of spoon: Very stiff, moist, gray, FAT CLAY (CH) Bottom of spoon: Medium dense, wet, gray, fine grained, with trace silt, POORLY GRADED SAND (SP)			SS-12	3	7	11	18	●
				48.5						
50.0	-60.0	Medium dense, light gray			SS-13	6	8	9	17	●
				53.5						
55.0	-65.0	Medium dense			SS-14	4	6	11	17	●
				58.5						
60.0	-70.0	Loose			SS-15	4	5	5	10	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-94	**Boring Location:**	846+35.5	**Offset:**	LT 04.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-10.5 ft.	**Northing:**	240228.9435	**Easting:**	1829136.042	**Date Started:**	3/29/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-75.0	Very soft, moist, gray, CLAYEY SAND (SC, A-6(3)), LL=36 PL=18 PI=18 NMC=30.6 %#200=41.6		63.5	SS-16	0	1	1	2	
70.0	-80.0	Very loose, wet, light gray, fine grained, with trace wood, POORLY GRADED SAND with SILT (SP-SM)		68.5	SS-17	2	1	2	3	
75.0	-85.0	Medium dense, gray		73.5	SS-18	5	9	14	23	
80.0	-90.0	Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.9 %#200=7.3		78.5	SS-19	6	14	18	32	
85.0	-95.0	Very dense		83.5	SS-20	14	26	37	63	
90.0	-100.0	Stiff, moist, greenish gray, FAT CLAY (CH)		88.5	SS-21	3	5	7	12	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-94	**Boring Location:**	846+35.5	**Offset:**	LT 04.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-10.5 ft.	**Northing:**	240228.9435	**Easting:**	1829136.042	**Date Started:**	3/29/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
		Undisturbed sample obtained from 90.5 to 92.5 feet. Approximately 24 inches of recovery. Hard, moist, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(44)), LL=67 PL=28 PI=39 NMC=31.0 %#200=96.5		90.5	ST-3					
95.0	-105.0	Medium dense, moist, bluish gray, CLAYEY SAND (SC, A-4(1)), LL=28 PL=19 PI=9 NMC=22.6 %#200=42.9		93.5	SS-22	7	8	15	23	
				98.5	SS-23	1	5	9	14	
100.0	-110.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND (SP)								
				103.5	SS-24	6	8	8	16	
105.0	-115.0	Very stiff, moist, bluish gray, FAT CLAY (CH)								
				108.5	SS-25	6	22	18	40	
110.0	-120.0	Hard								
				113.5	SS-26	5	5	12	17	
115.0	-125.0	Medium dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.8 %#200=18.2								
				118.5	SS-27	10	13	22	35	
120.0	-130.0	Dense								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-94	**Boring Location:**	846+35.5	**Offset:**	LT 04.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-10.5 ft.	**Northing:**	240228.9435	**Easting:**	1829136.042	**Date Started:**	3/29/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	4/2/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-95	**Boring Location:**	849+45.7	**Offset:**	RT 05.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240133.2151	**Easting:**	1829431.228	**Date Started:**	3/28/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/29/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, wet, black and dark gray, fine grained, CLAYEY SAND (SC)		0.0	SS-1	0	0	0	0
	-10.0	Very loose, wet, dark gray, gray, and black, fine grained, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
		Very loose, wet, brownish gray and dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.2 %#200=16.6		3.0	SS-3	0	0	0	0
5.0		Very loose, black and dark gray, with trace clay		4.5	SS-4	0	0	0	0
	-15.0	Very loose, black and dark grayish brown		6.0	SS-5	0	1	0	1
		Very loose, with wood		8.5	SS-6	0	1	1	2
10.0									
	-20.0								
		Very soft, wet, dark gray, with few sand, FAT CLAY (CH, A-7-6(28)), LL=52 PL=22 PI=30 NMC=48.1 %#200=88.1		13.5	SS-7	0	0	0	0
15.0		Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 18 inches of recovery.		15.5	T-1				
	-25.0	Very soft, moist, gray							
		Very soft, dark gray, with trace shells		18.5	SS-8	0	0	0	0
20.0									
		Undisturbed sample obtained from 20.5 to 22.5 feet. Approximately 22 inches of recovery.		20.5	T-2				
	-30.0	Very soft, dark brown and gray							
		Very soft, dark gray, with trace shells		23.5	SS-9	0	0	0	0
25.0									
	-35.0								
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-3				
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-95	**Boring Location:**	849+45.7	**Offset:**	RT 05.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240133.2151	**Easting:**	1829431.228	**Date Started:**	3/28/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/29/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Very loose, wet, dark grayish brown, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=26 PL=11 PI=15 NMC=40.9 %#200=29.5								
35.0		Very loose		33.5	SS-10	0	0	0	0	●
	-45.0									
40.0		Medium dense, light gray		38.5	SS-11	1	7	9	16	●
	-50.0									
45.0		Medium dense, moist, light gray and gray, fine grained, POORLY GRADED SAND (SP)		43.5	SS-12	5	6	5	11	●
	-55.0									
50.0		Medium dense, gray, fine to medium grained		48.5	SS-13	7	7	8	15	●
	-60.0									
55.0		Medium dense, moist, light gray, fine to medium grained, POORLY GRADED SAND with GRAVEL (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.9 %#200=4.0		53.5	SS-14	9	7	9	16	▲ ●
	-65.0									
60.0		Medium dense, light gray and gray		58.5	SS-15	8	10	17	27	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-95	**Boring Location:**	849+45.7	**Offset:**	RT 05.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240133.2151	**Easting:**	1829431.228	**Date Started:**	3/28/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/29/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0									
	-70.0								
		Medium dense		63.5	SS-16	9	14	16	30
65.0									
	-75.0								
		Medium dense, gray		68.5	SS-17	9	8	8	16
70.0									
	-80.0								
		Medium dense, light gray and gray		73.5	SS-18	10	8	10	18
75.0									
	-85.0								
		Medium dense, moist, light gray and gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.2 %#200=18.4		78.5	SS-19	11	13	16	29
80.0									
	-90.0								
		Dense, gray		83.5	SS-20	15	16	26	42
85.0									
	-95.0								
		Medium dense, moist, bluish gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=33 PL=16 PI=17		88.5	SS-21	9	9	10	19
90.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-95	**Boring Location:**	849+45.7	**Offset:**	RT 05.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240133.2151	**Easting:**	1829431.228	**Date Started:**	3/28/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/29/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0	NMC=20.8 %#200=44.9								
95.0		Medium dense		93.5	SS-22	6	10	9	19	
	-105.0									
100.0		Dense, moist, bluish gray, fine grained, CLAYEY SAND (SC, A-6(0)), LL=27 PL=16 PI=11 NMC=22.8 %#200=35.9		98.5	SS-23	9	17	31	48	
	-110.0									
105.0		Very stiff, moist, bluish gray, LEAN CLAY (CL)		103.5	SS-24	7	8	10	18	
	-115.0									
110.0		Very stiff, greenish gray		108.5	SS-25	6	9	13	22	
	-120.0									
115.0		Medium dense, moist, bluish gray, SANDY LEAN CLAY (CL, A-6(3)), LL=29 PL=18 PI=11 NMC=17.9 %#200=55.7		113.5	SS-26	6	8	20	28	
	-125.0									
120.0		Very dense, wet, bluish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		118.5	SS-27	21	22	31	53	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-95	**Boring Location:**	849+45.7	**Offset:**	RT 05.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-8.0 ft.	**Northing:**	240133.2151	**Easting:**	1829431.228	**Date Started:**	3/28/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/29/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-96	**Boring Location:**	850+93.6	**Offset:**	RT 36.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Dugger/B.Ellis
Elev.:	-8.5 ft.	**Northing:**	240063.023	**Easting:**	1829564.972	**Date Started:**	3/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	W	0	0	0
		Very loose, wet, black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=33.8 %#200=16.5 Very loose	1.5	SS-2	0	0	0	0
			3.0	SS-3	0	0	0	0
5.0		Very loose, dark gray	4.5	SS-4	0	0	0	0
	-15.0	Very loose, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=30.6 %#200=10.4	6.0	SS-5	0	0	0	0
		Very loose, with trace wood	8.5	SS-6	0	1	0	1
10.0	-20.0							
15.0		Very soft, moist, gray, SANDY LEAN CLAY (CL)	13.5	SS-7	0	0	0	0
	-25.0	Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 24 inches of recovery. Very soft	15.5	T-1				
20.0		Very soft, with trace shell	18.5	SS-8	0	0	0	0
	-30.0							
25.0		Very soft	23.5	SS-9	0	0	0	0
	-35.0							
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.	28.5	T-2				

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-96	**Boring Location:**	850+93.6	**Offset:**	RT 36.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Dugger/B.Ellis
Elev.:	-8.5 ft.	**Northing:**	240063.023	**Easting:**	1829564.972	**Date Started:**	3/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Firm, moist, gray, SANDY LEAN CLAY (CL, A-7-6(14)), LL=47 PL=21 PI=26 NMC=60.2 %#200=62.4								
		Medium dense, wet, pale brown, fine to medium grained, POORLY GRADED SAND (SP)		33.5	SS-10	3	5	10	15	
35.0	-45.0									
		Medium dense		38.5	SS-11	3	5	8	13	
40.0	-50.0									
		Medium dense, wet, light gray and light brown		43.5	SS-12	6	8	11	19	
45.0	-55.0									
		Medium dense, pale brown and light gray, fine to coarse grained		48.5	SS-13	7	11	14	25	
50.0	-60.0									
		Loose, pale brown		53.5	SS-14	4	4	5	9	
55.0	-65.0									
		Very loose, wet, light gray, medium to fine and coarse grained, with trace gravel and trace wood, POORLY		58.5	SS-15	2	1	2	3	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-96	**Boring Location:**	850+93.6	**Offset:**	RT 36.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Dugger/B.Ellis
Elev.:	-8.5 ft.	**Northing:**	240063.023	**Easting:**	1829564.972	**Date Started:**	3/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0	GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.6 %#200=2.6								
		Medium dense, light brown, with trace gravel		63.5	SS-16	10	8	9	17	●
65.0	-75.0									
		Medium dense, light brownish gray, with trace gravel		68.5	SS-17	3	6	11	17	●
70.0	-80.0									
		Medium dense, light gray, fine to medium grained		73.5	SS-18	5	10	11	21	●
75.0	-85.0									
		Medium dense, light gray and gray, fine to coarse grained		78.5	SS-19	6	7	6	13	●
80.0	-90.0									
		Dense, moist, light gray, fine to medium grained		83.5	SS-20	6	16	34	50	●
85.0	-95.0									
		Dense, light gray and gray, fine grained		88.5	SS-21	10	13	19	32	●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-96	**Boring Location:**	850+93.6	**Offset:**	RT 36.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Dugger/B.Ellis
Elev.:	-8.5 ft.	**Northing:**	240063.023	**Easting:**	1829564.972	**Date Started:**	3/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Very stiff, moist, gray, with few sand, FAT CLAY (CH, A-7-6(42)), LL=61 PL=20 PI=41 NMC=23.8 %#200=93.0		93.5	SS-22	6	7	11	18	
100.0	-110.0	Hard, wet, bluish gray, SANDY SILT (ML)		98.5	SS-23	8	15	26	41	
105.0	-115.0	Very stiff, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=23.2 %#200=55.1		103.5	SS-24	8	11	13	24	
110.0	-120.0	Very stiff, moist, bluish gray, SANDY LEAN CLAY (CL)		108.5	SS-25	7	10	13	23	
115.0	-125.0	Very stiff, moist, dark gray and gray, SANDY LEAN CLAY (CL, A-6(7)), LL=31 PL=12 PI=19 NMC=15.2 %#200=56.7		113.5	SS-26	5	6	11	17	
120.0		Medium dense, wet, gray, fine grained, POORLY GRADED SAND (SP)		118.5	SS-27	1	3	13	16	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-96	**Boring Location:**	850+93.6	**Offset:**	RT 36.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Dugger/B.Ellis
Elev.:	-8.5 ft.	**Northing:**	240063.023	**Easting:**	1829564.972	**Date Started:**	3/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/24/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-97	**Boring Location:**	855+28.8	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-10.5 ft.	**Northing:**	239978.2475	**Easting:**	1829993.45	**Date Started:**	3/4/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.5	Very loose, wet, black and dark gray, fine grained, with trace clay, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose, wet, black and dark gray, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=36.4 %#200=21.5	1.5	SS-2	0	0	0	0
		Very loose, dark gray, with trace wood	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, with trace organics and trace clay	4.5	SS-4	0	0	0	0
		Very loose, with trace shells	6.0	SS-5	0	0	0	0
			8.5	SS-6	0	0	1	1
10.0	-20.0	Very loose, moist, gray and brown, fine grained, with trace wood, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=28.3 %#200=4.1						
15.0	-25.0	Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 17 inches of recovery. Very soft, moist, gray, FAT CLAY with SAND (CH)	13.5	T-1				
20.0	-30.0	Very soft, wet, dark gray, SANDY FAT CLAY (CH, A-7-6(36)), LL=69 PL=20 PI=49 NMC=56.1 %#200=73.5	18.5	SS-7	0	0	0	0
25.0	-35.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 12 inches of recovery. Very soft, moist, gray	23.5	T-2				
30.0	-40.0	Very soft, reddish brown and gray	28.5	SS-8	0	0	0	0

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-97	**Boring Location:**	855+28.8	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-10.5 ft.	**Northing:**	239978.2475	**Easting:**	1829993.45	**Date Started:**	3/4/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
				33.5	SS-9	1	2	4	6	●
35.0	-45.0	Loose, moist, light gray, fine grained, POORLY GRADED SAND (SP)								
				38.5	SS-10	6	8	6	14	●
40.0	-50.0	Medium dense, light brown, fine to medium grained								
				43.5	SS-11	4	4	6	10	●
45.0	-55.0	Loose, wet, fine grained								
				48.5	SS-12	4	5	6	11	●
50.0	-60.0	Medium dense, fine to medium grained								
				53.5	SS-13	6	6	7	13	●
55.0	-65.0	Medium dense, with trace gravel								
				58.5	SS-14	3	4	5	9	×▲● ○
60.0	-70.0	Loose, wet, light brown, medium to fine grained, POORLY GRADED SAND with GRAVEL (SP,								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-97	**Boring Location:**	855+28.8	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-10.5 ft.	**Northing:**	239978.2475	**Easting:**	1829993.45	**Date Started:**	3/4/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
		A-1-b(0)), LL=NP PL=NP PI=NP NMC=23.2 %#200=3.5								
65.0	-75.0	Medium dense		63.5	SS-15	4	6	6	12	●
				68.5	SS-16	3	7	9	16	●
70.0	-80.0	Medium dense, moist, gray, fine grained, CLAYEY SAND (SC)								
				73.5	SS-17	2	2	5	7	●
75.0	-85.0	Firm, moist, gray, with trace sand, LEAN CLAY (CL)								
		Undisturbed sample obtained from 75.5 to 77.5 feet. Approximately 24 inches of recovery. Very stiff, moist, gray, with few sand, LEAN CLAY (CL, A-6(20)), LL=36 PL=13 PI=23 NMC=20.8 %#200=90.1		75.5	T-3					PL MC LL ▲
80.0	-90.0	Firm		78.5	SS-18	2	4	4	8	●
				83.5	SS-19	1	2	4	6	●
85.0	-95.0	Firm, gray and dark gray								
				88.5	SS-20	4	4	3	7	●
90.0	-100.0	Firm, gray								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-97	**Boring Location:**	855+28.8	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-10.5 ft.	**Northing:**	239978.2475	**Easting:**	1829993.45	**Date Started:**	3/4/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Firm, No Recovery		93.5	SS-21	2	2	4	6	●
100.0	-110.0	Firm, brownish gray, with trace sand		98.5	SS-22	4	4	3	7	●
105.0	-115.0	Medium dense, moist, brownish gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=35 PL=16 PI=19 NMC=29.7 %#200=45.8		103.5	SS-23	2	14	14	28	×●× ▲
110.0	-120.0	Dense, wet, gray and light gray, fine grained, SILTY SAND (SM)		108.5	SS-24	22	23	21	44	●
115.0	-125.0	Dense, gray, fine to medium grained		113.5	SS-25	21	22	23	45	●
120.0	-130.0	Very dense, wet, gray, fine grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		118.5	SS-26	30	33	37	70	×▲○ ●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-97	**Boring Location:**	855+28.8	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-10.5 ft.	**Northing:**	239978.2475	**Easting:**	1829993.45	**Date Started:**	3/4/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/16/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		NMC=24.7 %#200=17.6 Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, wet, dark brown and black, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=100.8 %#200=38.1 Very loose	0.0	SS-1	0	0	0	0
			1.5	SS-2	0	0	0	0
		Very loose, wet, brown and black, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=50.2 %#200=19.5	3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, dark brown	4.5	SS-4	0	0	0	0
		Very loose, wet, dark brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=31.0 %#200=10.2	6.0	SS-5	1	2	2	4
		Very loose	8.5	SS-6	0	1	1	2
10.0	-20.0							
		Very soft, wet, dark gray, FAT CLAY with SAND (CH)	13.5	SS-7	1	0	0	0
15.0	-25.0							
		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery.	18.5	T-1				
20.0	-30.0	Soft, wet, dark gray, FAT CLAY with SAND (CH, A-7-6(38)), LL=67 PL=21 PI=46 NMC=50.7 %#200=78.8						
		Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC, A-6(3)), LL=30 PL=13 PI=17 NMC=28.7 %#200=42.7	23.5	SS-8	0	0	0	0
25.0	-35.0							
		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 8 inches of recovery.	28.5	T-2				
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0	Gray, black and brown, with trace organics								
		Firm, moist, reddish brown and gray		33.5	SS-9	1	2	3	5	●
35.0	-45.0									
		Very soft, wet, light gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=32.4 %#200=69.2		38.5	SS-10	1	0	1	1	●○▲
40.0	-50.0									
		Medium dense, moist, light brown, fine to medium grained, POORLY GRADED SAND (SP)		43.5	SS-11	4	9	9	18	●
45.0	-55.0									
		Medium dense, wet, brownish gray, fine to medium grained, with trace gravel, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.1 %#200=4.8		48.5	SS-12	6	10	9	19	×▲●○
50.0	-60.0									
		Loose, moist, light brown and reddish brown		53.5	SS-13	3	5	5	10	●
55.0	-65.0									
		Medium dense, fine to coarse grained		58.5	SS-14	7	11	11	22	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-70.0									
65.0	-75.0	Very stiff, moist, light bluish gray, with few gravel, LEAN CLAY with SAND (CL, A-6(7)), LL=29 PL=18 PI=11 NMC=25.9 %#200=82.2		63.5	SS-15	4	8	9	17	
70.0	-80.0	Medium dense, wet, gray, fine grained, with trace wood, SILTY SAND (SM)		68.5	SS-16	4	5	6	11	
75.0	-85.0	Medium dense, brownish gray		73.5	SS-17	3	4	7	11	
80.0	-90.0	Medium dense, wet, brownish gray and gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=23.4 %#200=42.4		78.5	SS-18	4	5	7	12	
85.0	-95.0	Very dense, wet, brownish gray and gray, fine grained, POORLY GRADED SAND (SP)		83.5	SS-19	19	33	31	64	
90.0		Dense, brownish gray		88.5	SS-20	14	20	18	38	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-100.0								
		Stiff, wet, brownish gray, SANDY LEAN CLAY (CL)		93.5	SS-21	3	3	6	9
95.0	-105.0								
		Dense, moist, brownish gray, fine grained, SILTY SAND (SM)		98.5	SS-22	12	18	25	43
100.0	-110.0								
		Very stiff, moist, bluish gray, with few sand, LEAN CLAY (CL, A-7-6(24)), LL=44 PL=18 PI=26 NMC=23.1 %#200=89.3		103.5	SS-23	6	9	12	21
105.0	-115.0								
		Very stiff		108.5	SS-24	5	12	12	24
110.0	-120.0								
		Medium dense, moist, bluish gray, fine grained, CLAYEY SAND (SC)		113.5	SS-25	3	7	18	25
115.0	-125.0								
		Medium dense, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		118.5	SS-26	2	7	15	22
120.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0	-130.0							
125.0	-135.0	Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=29.3 %#200=8.1	123.5	SS-27	14	18	19	37
130.0	-140.0	Dense, dark gray and gray	128.5	SS-28	7	11	26	37
135.0	-145.0	Very dense, moist, gray	133.5	SS-29	27	35	42	77
140.0	-150.0	Very dense, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.7 %#200=7.7	138.5	SS-30	18	33	31	64
145.0	-155.0	Medium dense	143.5	SS-31	10	9	11	20
150.0		Dense, gray	148.5	SS-32	14	18	28	46

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-98	**Boring Location:**	858+31.0	**Offset:**	LT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-9.5 ft.	**Northing:**	239900.724	**Easting:**	1830285.567	**Date Started:**	2/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-99	**Boring Location:**	861+38.2	**Offset:**	LT 05.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-9.0 ft.	**Northing:**	239815.9166	**Easting:**	1830580.802	**Date Started:**	2/21/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, wet, brown and black, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=36.2 %#200=24.9		1.5	SS-2	0	0	0	0
		Very loose, dark gray, with trace organics		3.0	SS-3	0	0	0	0
5.0		Very loose, wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.3		4.5	SS-4	0	0	0	0
	-15.0	%#200=13.8		6.0	SS-5	0	0	0	0
		Very loose, wet, dark gray, fine grained, with trace organics, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.6 %#200=11.1		8.5	SS-6	1	1	1	2
10.0		Very loose, wet, dark gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.2 %#200=11.1							
	-20.0								
		Very loose, dark brown, fine to medium grained		13.5	SS-7	1	1	1	2
15.0	-25.0								
		Very loose, moist, gray, fine grained, CLAYEY SAND (SC)		18.5	SS-8	0	0	0	0
20.0	-30.0								
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery.		23.5	T-1				
25.0	-35.0	Very loose, moist, light gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=33 PL=14 PI=19 NMC=29.7 %#200=48.2							
		Soft, moist, light gray and brown, with few sand, FAT CLAY (CH, A-7-6(55)), LL=76 PL=21 PI=55		28.5	SS-9	0	2	2	4
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-99	**Boring Location:**	861+38.2	**Offset:**	LT 05.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-9.0 ft.	**Northing:**	239815.9166	**Easting:**	1830580.802	**Date Started:**	2/21/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-40.0	NMC=39.7 %#200=91.1								
		Undisturbed sample obtained from 33.5 to 35.5 feet. Approximately 22 inches of recovery. Wet, brown, fine to medium grained, SILTY SAND (SM)		33.5	T-2					
35.0	-45.0									
		Medium dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM)		38.5	SS-10	5	6	8	14	●
40.0	-50.0									
		Medium dense, wet, brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.5 %#200=5.3		43.5	SS-11	8	11	14	25	▲ ●
45.0	-55.0									
		Loose		48.5	SS-12	3	4	4	8	●
50.0	-60.0									
		Loose, fine to coarse grained		53.5	SS-13	3	3	3	6	●
55.0	-65.0									
		Medium dense, fine to medium grained		58.5	SS-14	4	5	7	12	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-99	**Boring Location:**	861+38.2	**Offset:**	LT 05.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-9.0 ft.	**Northing:**	239815.9166	**Easting:**	1830580.802	**Date Started:**	2/21/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-70.0									
65.0	-75.0	Medium dense, wet, gray, fine grained, CLAYEY SAND (SC, A-4(1)), LL=23 PL=13 PI=10 NMC=31.0 %#200=43.1		63.5	SS-15	3	2	9	11	
70.0	-80.0	Medium dense, wet, gray, fine grained, SILTY SAND (SM)		68.5	SS-16	5	6	5	11	
75.0	-85.0	Firm, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=26.9 %#200=50.6		73.5	SS-17	3	3	4	7	
80.0	-90.0	Stiff		78.5	SS-18	7	6	7	13	
85.0	-95.0	Dense, wet, gray, fine grained, POORLY GRADED SAND (SP)		83.5	SS-19	15	23	23	46	
90.0		Medium dense, moist, greenish gray, fine grained, SILTY SAND (SM)		88.5	SS-20	7	10	15	25	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-99	**Boring Location:**	861+38.2	**Offset:**	LT 05.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-9.0 ft.	**Northing:**	239815.9166	**Easting:**	1830580.802	**Date Started:**	2/21/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Very dense, moist, greenish gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.7 %#200=38.9		93.5	SS-21	7	20	35	55	
100.0	-110.0	Very stiff, moist, greenish gray, FAT CLAY (CH)		98.5	SS-22	5	7	12	19	
105.0	-115.0	Very stiff, moist, greenish gray, with few sand, FAT CLAY (CH, A-7-6(30)), LL=53 PL=22 PI=31 NMC=25.0 %#200=89.9		103.5	SS-23	6	9	14	23	
110.0	-120.0	Dense, wet, gray and greenish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		108.5	SS-24	11	19	25	44	
115.0	-125.0	Dense, gray		113.5	SS-25	12	21	23	44	
120.0		Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP		118.5	SS-26	13	20	30	50	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-99	**Boring Location:**	861+38.2	**Offset:**	LT 05.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J.Fancher/C.Tisher
Elev.:	-9.0 ft.	**Northing:**	239815.9166	**Easting:**	1830580.802	**Date Started:**	2/21/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		PI=NP NMC=27.0 %#200=7.7 Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-100	**Boring Location:**	864+33.2	**Offset:**	LT 01.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239731.1606	**Easting:**	1830863.461	**Date Started:**	2/18/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, wet, brown, fine to medium grained, with trace organics, POORLY GRADED SAND (SP)		0.0	SS-1	0	0	0	0
		Very loose		1.5	SS-2	0	0	0	0
		Very loose		3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, wet, brown and black, fine grained, with trace organics, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=40.5 %#200=13.5		4.5	SS-4	0	0	0	0
		Very loose, gray and black, with trace organics		6.0	SS-5	0	0	0	0
10.0	-20.0	Very soft, wet, gray, SANDY SILTY CLAY (CL-ML, A-4(1)), LL=25 PL=21 PI=4 NMC=35.7 %#200=66.9		8.5	SS-6	0	0	0	0
15.0	-25.0	Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 12 inches of recovery. Very soft, moist, gray, LEAN CLAY with SAND (CL, A-6(15)), LL=38 PL=20 PI=18 NMC=50.6 %#200=84.0		13.5	T-1				
20.0	-30.0	Very soft		18.5	SS-7	0	0	0	0
25.0	-35.0	Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 17 inches of recovery. Very loose, moist, gray, fine grained, CLAYEY SAND (SC, A-6(5)), LL=34 PL=15 PI=19 NMC=32.3 %#200=47.0		23.5	T-2				
30.0	-40.0	Soft, moist, brown and gray, FAT CLAY (CH)		28.5	SS-8	0	2	2	4

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-100	**Boring Location:**	864+33.2	**Offset:**	LT 01.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239731.1606	**Easting:**	1830863.461	**Date Started:**	2/18/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-40.0									
				33.5	SS-9	4	5	8	13	
35.0	-45.0	Medium dense, wet, light brown, fine to medium grained, with trace clay lenses, POORLY GRADED SAND (SP)								
				38.5	SS-10	4	6	8	14	
40.0	-50.0	Medium dense								
				43.5	SS-11	4	5	5	10	
45.0	-55.0	Loose								
				48.5	SS-12	4	9	11	20	
50.0	-60.0	Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.5 %#200=3.5								
				53.5	SS-13	7	13	12	25	
55.0	-65.0	Medium dense								
				58.5	SS-14	3	3	4	7	
60.0	-70.0	Loose								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-100	**Boring Location:**	864+33.2	**Offset:**	LT 01.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239731.1606	**Easting:**	1830863.461	**Date Started:**	2/18/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-70.0								
		Medium dense		63.5	SS-15	4	5	12	17
65.0	-75.0								
		Medium dense, white		68.5	SS-16	6	9	7	16
70.0	-80.0								
		Stiff, wet, gray, SANDY LEAN CLAY (CL, A-4(2)), LL=23 PL=13 PI=10 NMC=20.0 %#200=55.7		73.5	SS-17	3	5	5	10
75.0	-85.0								
		Medium dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.6 %#200=19.4		78.5	SS-18	13	17	13	30
80.0	-90.0								
		Dense, wet, gray, fine to medium grained, POORLY GRADED SAND (SP)		83.5	SS-19	11	16	20	36
85.0	-95.0								
		Dense, fine grained		88.5	SS-20	8	18	24	42
90.0	-100.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-100	**Boring Location:**	864+33.2	**Offset:**	LT 01.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239731.1606	**Easting:**	1830863.461	**Date Started:**	2/18/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
95.0	-105.0	Medium dense, wet, gray, fine grained, SILTY SAND (SM)		93.5	SS-21	5	6	12	18	
100.0	-110.0	Stiff, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(7)), LL=33 PL=18 PI=15 NMC=31.1 %#200=65.1		98.5	SS-22	4	4	10	14	
105.0	-115.0	Very stiff, moist, greenish gray, FAT CLAY (CH)		103.5	SS-23	7	10	17	27	
110.0	-120.0	Very stiff		108.5	SS-24	9	9	14	23	
115.0	-125.0	Very stiff, moist, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(35)), LL=52 PL=20 PI=32 NMC=23.3 %#200=98.2		113.5	SS-25	7	13	17	30	
120.0	-130.0	Very stiff		118.5	SS-26	8	8	10	18	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-100	**Boring Location:**	864+33.2	**Offset:**	LT 01.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239731.1606	**Easting:**	1830863.461	**Date Started:**	2/18/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/21/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101	**Boring Location:**	867+22.3	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.4313	**Easting:**	1831139.832	**Date Started:**	2/15/2016
Total Depth:	17.5 ft.	**Soil Depth:**	17.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, No Recovery		1.5	SS-2	0	0	0	0
	-15.0	Very loose, No Recovery		3.0	SS-3	0	0	0	0
5.0		Very loose, No Recovery		4.5	SS-4	0	0	0	0
		Very loose, No Recovery		6.0	SS-5	0	0	0	0
	-20.0			8.5					
10.0		Very loose, wet, dark gray, fine grained, with trace wood, SILTY SAND (SM)			SS-6	0	0	0	0
	-25.0			13.5					
15.0		Very soft, wet, dark gray, SANDY FAT CLAY (CH)			SS-7	0	0	0	0
		Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 24 inches of recovery. Very soft, wet, gray, with trace shell, SANDY FAT CLAY (CH, A-7-6(22)), LL=58 PL=21 PI=37 NMC=50.2 %#200=64.4		15.5	T-1				
		Boring Terminated at 17.5 feet due to weather. Offset and redrilled boring identified as BW-101A.							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101A	**Boring Location:**	867+34.4	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.3824	**Easting:**	1831152.41	**Date Started:**	2/15/2016
Total Depth:	125.0 ft.	**Soil Depth:**	125.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0 ▼		Mud rotary to 18.5 feet and began sampling.								
	-15.0									
5.0										
	-20.0									
10.0										
	-25.0									
15.0										
	-30.0									
20.0		Very soft, wet, dark gray, SANDY LEAN CLAY (CL, A-7-6(15)), LL=48 PL=14 PI=34 NMC=40.1 %#200=56.9		18.5	SS-8	0	0	0	0	
		Undisturbed sample obtained from 20.5 to 22.5 feet. Approximately 14 inches of recovery. Very soft, moist, gray, FAT CLAY with SAND (CH, A-7-6(23)), LL=51 PL=20 PI=31 NMC=34.7 %#200=75.6		20.5	T-2					
	-35.0			23.5	SS-9	0	0	0	0	
25.0		Very loose, wet, dark gray, fine grained, with trace gravel, CLAYEY SAND (SC, A-6(2)), LL=27 PL=12 PI=15 NMC=28.7 %#200=41.7								
	-40.0			28.5	T-3					
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.								

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101A	**Boring Location:**	867+34.4	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.3824	**Easting:**	1831152.41	**Date Started:**	2/15/2016
Total Depth:	125.0 ft.	**Soil Depth:**	125.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
		Soft, wet, gray and brown, FAT CLAY (CH)								
	-45.0									
35.0		Very soft, brown, reddish brown and gray, with trace sand at bottom		33.5	SS-10	1	1	1	2	●
	-50.0			38.5						
40.0		Medium dense, wet, pale brown and brown, fine grained, POORLY GRADED SAND (SP)			SS-11	6	6	7	13	●
	-55.0			43.5						
45.0		Medium dense, wet, light brown, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.3 %#200=5.0			SS-12	7	11	12	23	▲ ●
	-60.0			48.5						
50.0		Medium dense, wet, light brownish gray, fine grained, SILTY SAND (SM)			SS-13	5	7	6	13	●
	-65.0			53.5						
55.0		Medium dense, wet, pale brown, fine to coarse grained, POORLY GRADED SAND (SP)			SS-14	6	6	7	13	●
	-70.0			58.5						
60.0		Medium dense, moist, brown, light brown and reddish brown			SS-15	6	8	9	17	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101A	**Boring Location:**	867+34.4	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.3824	**Easting:**	1831152.41	**Date Started:**	2/15/2016
Total Depth:	125.0 ft.	**Soil Depth:**	125.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
65.0	-75.0	Loose, with trace gravel		63.5	SS-16	2	3	5	8	
70.0	-80.0	Medium dense, moist, dark gray, fine grained, SILTY SAND (SM)		68.5	SS-17	3	5	6	11	
75.0	-85.0	Loose, No Recovery		73.5	SS-18	1	5	5	10	
80.0	-90.0	Stiff, moist, dark gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=27.4 %#200=57.1		78.5	SS-19	4	6	4	10	
85.0	-95.0	Undisturbed sample obtained from 20.5 to 22.5 feet. Approximately 24 inches of recovery. Moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=47.6 %#200=67.8		83.5	T-4					
90.0	-100.0	Dense, moist to wet, gray, fine grained, POORLY GRADED SAND (SP)		88.5	SS-20	8	19	25	44	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101A	**Boring Location:**	867+34.4	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.3824	**Easting:**	1831152.41	**Date Started:**	2/15/2016
Total Depth:	125.0 ft.	**Soil Depth:**	125.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Medium dense, wet, gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=27.7 %#200=4.2		93.5	SS-21	5	10	11	21	
100.0	-110.0	Medium dense, dark gray and very dark brown, with trace organics and trace clay		98.5	SS-22	8	14	10	24	
105.0	-115.0	Stiff, moist, greenish gray and gray, LEAN CLAY (CL)		103.5	SS-23	4	6	8	14	
110.0	-120.0	Very stiff, greenish gray		108.5	SS-24	7	13	14	27	
115.0	-125.0	Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-7-6(28)), LL=48 PL=17 PI=31 NMC=17.0 %#200=87.3		113.5	SS-25	6	9	13	22	
120.0	-130.0	Very stiff, moist, greenish green, with trace sand, FAT CLAY (CH, A-7-6(32)), LL=54 PL=25 PI=29		118.5	SS-26	7	12	17	29	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-101A	**Boring Location:**	867+34.4	**Offset:**	CL	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Blake Ellis
Elev.:	-11.5 ft.	**Northing:**	239646.3824	**Easting:**	1831152.41	**Date Started:**	2/15/2016
Total Depth:	125.0 ft.	**Soil Depth:**	125.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/17/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
120.0		NMC=25.9 %#200=96.9								
	-135.0			123.5						
125.0		Very stiff, moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=21.9 %#200=70.0			SS-27	5	8	15	23	
		Boring Terminated at 125.0 ft.								

LEGEND

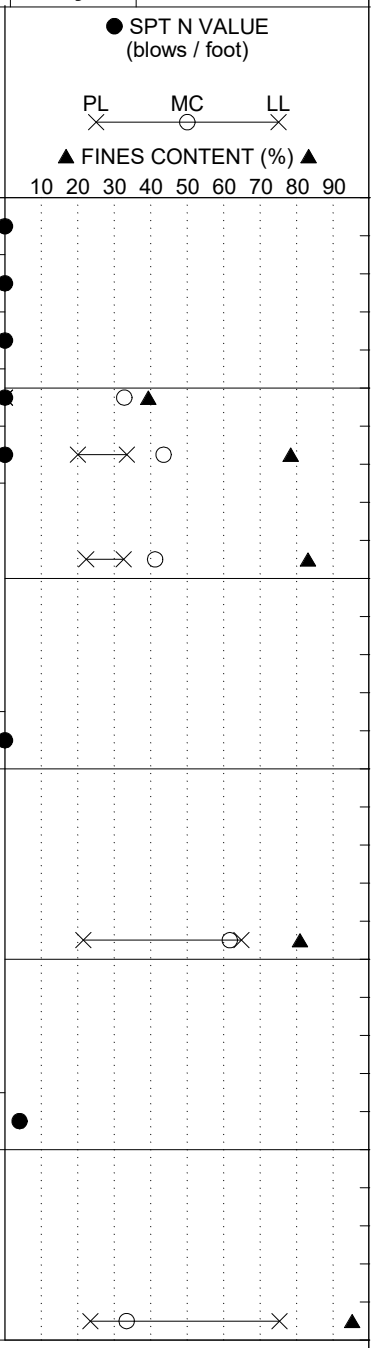
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-102	**Boring Location:**	870+26.4	**Offset:**	RT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-11.5 ft.	**Northing:**	239561.643	**Easting:**	1831431.927	**Date Started:**	2/2/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0 ▼		Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, No Recovery	1.5	SS-2	0	0	0	0
	-15.0	Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0		Very loose, wet, dark gray, fine to medium grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=32.7 %#200=39.3	4.5	SS-4	0	0	0	0
		Very soft, moist, gray, with trace wood, LEAN CLAY with SAND (CL, A-6(9)), LL=33 PL=20 PI=13 NMC=43.5 %#200=78.3	6.0	SS-5	0	0	0	0
	-20.0	Undisturbed sample obtained from 8.5 to 10.5 feet. Approximately 24 inches of recovery.	8.5	T-1				
10.0		Very soft, moist, gray, with trace wood, LEAN CLAY with SAND (CL, A-6(9)), LL=33 PL=22 PI=11 NMC=41.2 %#200=83.1						
	-25.0	Very soft, with trace shell	13.5	SS-6	0	0	0	0
15.0								
	-30.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery.	18.5	T-2				
20.0		Moist, gray, with trace wood, FAT CLAY with SAND (CH, A-7-6(37)), LL=65 PL=21 PI=44 NMC=61.6 %#200=80.9						
	-35.0	Soft, brown and light gray	23.5	SS-7	1	1	3	4
25.0								
	-40.0	Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.	28.5	T-3				
30.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-102	**Boring Location:**	870+26.4	**Offset:**	RT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-11.5 ft.	**Northing:**	239561.643	**Easting:**	1831431.927	**Date Started:**	2/2/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-45.0	Stiff, moist, brown and light gray, with trace sand, FAT CLAY (CH, A-7-6(56)), LL=75 PL=23 PI=52 NMC=33.4 %#200=95.2 Stiff, light gray, with trace sand lenses		33.5	SS-8	0	1	8	9	
40.0	-50.0	Loose, wet, light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		38.5	SS-9	1	2	4	6	
45.0	-55.0	Medium dense, wet, light gray and light brown, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.9 %#200=11.1		43.5	SS-10	3	4	7	11	
50.0	-60.0	Medium dense, light brown		48.5	SS-11	5	8	10	18	
55.0	-65.0	Medium dense		53.5	SS-12	9	11	13	24	
60.0	-70.0	Loose		58.5	SS-13	3	3	5	8	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-102	**Boring Location:**	870+26.4	**Offset:**	RT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-11.5 ft.	**Northing:**	239561.643	**Easting:**	1831431.927	**Date Started:**	2/2/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-75.0	Medium dense		63.5	SS-14	5	9	13	22	
65.0										
	-80.0	Very loose, moist, gray, fine grained, with trace gravel, CLAYEY SAND (SC, A-6(4)), LL=32 PL=14 PI=18 NMC=26.6 %#200=46.1		68.5	SS-15	2	1	3	4	
70.0										
	-85.0	Medium dense, wet, light gray and light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		73.5	SS-16	3	6	8	14	
75.0										
	-90.0	Medium dense		78.5	SS-17	4	6	9	15	
80.0										
	-95.0	Dense, wet, reddish brown and gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=31.9 %#200=9.2		83.5	SS-18	13	17	14	31	
85.0										
	-100.0	Very stiff, moist, bluish gray and gray, with trace sand, LEAN CLAY (CL)		88.5	SS-19	15	10	9	19	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-102	**Boring Location:**	870+26.4	**Offset:**	RT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-11.5 ft.	**Northing:**	239561.643	**Easting:**	1831431.927	**Date Started:**	2/2/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Hard, bluish gray, with trace sand		93.5	SS-20	12	15	19	34	
100.0	-110.0	Very stiff, moist, bluish gray, with few sand, LEAN CLAY (CL, A-6(22)), LL=40 PL=16 PI=24 NMC=23.0 %#200=92.3		98.5	SS-21	8	8	12	20	
105.0	-115.0	Very stiff		103.5	SS-22	5	12	14	26	
110.0	-120.0	Very stiff		108.5	SS-23	9	9	13	22	
115.0	-125.0	Very stiff, moist, gray and brown, with trace sand, FAT CLAY (CH, A-7-6(37)), LL=57 PL=24 PI=33 NMC=25.3 %#200=97.1		113.5	SS-24	5	9	13	22	
120.0	-130.0	Loose, moist, gray, fine grained, SILTY SAND (SM)		118.5	SS-25	2	3	4	7	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-102	**Boring Location:**	870+26.4	**Offset:**	RT 04.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-11.5 ft.	**Northing:**	239561.643	**Easting:**	1831431.927	**Date Started:**	2/2/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, black, with trace organics, SANDY LEAN CLAY (CL)		0.0	SS-1	0	0	0	0
		Very loose, wet, dark gray, fine grained, with trace shell, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
		Very loose, with trace organics		3.0	SS-3	0	0	0	0
5.0	-15.0	Very soft, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=31.4 %#200=68.8		4.5	SS-4	0	0	0	0
		Very soft, wet, gray, with trace wood, SILT with SAND (ML, A-6(11)), LL=40 PL=26 PI=14 NMC=48.6 %#200=78.9		6.0	SS-5	0	0	0	0
		Undisturbed sample obtained from 8.0 to 10.0 feet. Approximately 20 inches of recovery.		8.0	T-1				
10.0	-20.0	Soft, moist, gray, with few sand, LEAN CLAY (CL, A-6(11)), LL=33 PL=21 PI=12 NMC=42.5 %#200=90.7							
	-25.0	Very soft		13.5	SS-6	0	0	0	0
15.0									
	-30.0	Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery.		18.5	T-2				
20.0		Very loose, moist, very dark brown, fine grained, CLAYEY SAND (SC, A-6(6)), LL=33 PL=13 PI=20 NMC=35.7 %#200=49.3							
	-35.0	Very loose, grayish and reddish brown		23.5	SS-7	0	2	2	4
25.0									
	-40.0	Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.		28.5	T-3				
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0		Top of tube: Moist, light gray and brown, fine to medium grained								
		Bottom of tube: Moist, brownish gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)								
	-45.0	Medium dense, wet, light gray, fine grained		33.5	SS-8	3	5	8	13	●
35.0										
	-50.0	Medium dense, wet, white, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.1 %#200=7.1		38.5	SS-9	5	6	5	11	▲● ○
40.0										
	-55.0	Medium dense, light gray, fine to medium grained		43.5	SS-10	6	7	7	14	●
45.0										
	-60.0	Medium dense, light brown		48.5	SS-11	6	6	8	14	●
50.0										
	-65.0	Medium dense, light gray		53.5	SS-12	8	11	10	21	●
55.0										
	-70.0	Medium dense, light brown		58.5	SS-13	4	7	7	14	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
65.0	-75.0	Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.0 %#200=4.2		63.5	SS-14	5	10	14	24	
70.0	-80.0	Very loose, moist, gray, medium to fine grained, CLAYEY SAND (SC)		68.5	SS-15	0	0	0	0	
		Undisturbed sample obtained from 70.5 to 72.5 feet. Approximately 24 inches of recovery. Moist, gray, medium to fine grained, CLAYEY SAND (SC, A-7-6(13)), LL=58 PL=18 PI=40 NMC=23.2 %#200=46.8		70.5	T-4					
75.0	-85.0	Very loose		73.5	SS-16	0	0	0	0	
80.0	-90.0	Very loose, wet, light brown, fine to medium grained, SILTY SAND (SM)		78.5	SS-17	0	1	1	2	
85.0	-95.0	Medium dense, wet, light brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=23.7 %#200=3.2		83.5	SS-18	7	11	14	25	
90.0	-100.0	Loose, medium grained, with trace silt		88.5	SS-19	2	4	5	9	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Firm, moist, gray, SANDY LEAN CLAY (CL)		93.5	SS-20	1	2	4	6	●
		Undisturbed sample obtained from 95.5 to 97.5. Approximately 9 inches of recovery. Stiff, greenish gray		95.5	T-5					
100.0	-110.0	Stiff		98.5	SS-21	4	6	9	15	●
105.0	-115.0	Undisturbed sample obtained from 103.5 to 105.5. Approximately 6 inches of recovery. Stiff, gray		103.5	T-6					
110.0	-120.0	Very stiff, green		108.5	SS-22	6	11	12	23	●
115.0	-125.0	Stiff, moist, green, SANDY LEAN CLAY (CL, A-6(11)), LL=39 PL=17 PI=22 NMC=23.7 %#200=60.9		113.5	SS-23	3	6	8	14	● ▲
120.0	-130.0	Very stiff		118.5	SS-24	5	8	11	19	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Hard, moist, greenish gray and brown, LEAN CLAY with SAND (CL, A-7-6(17)), LL=44 PL=18 PI=26 NMC=17.5 %#200=71.5		123.5	SS-25	13	19	21	40	
130.0	-140.0	Very stiff, with trace shell		128.5	SS-26	4	9	8	17	
135.0	-145.0	Hard, wet, greenish gray, SANDY SILTY CLAY (CL-ML)		133.5	SS-27	13	27	28	55	
140.0	-150.0	Hard, moist, gray, SANDY, SILTY CLAY (CL-ML, A-4(2)), LL=26 PL=19 PI=7 NMC=21.4 %#200=59.9		138.5	SS-28	9	17	41	58	
145.0	-155.0	Very dense, wet, gray, fine grained, SILTY SAND (SM)		143.5	SS-29	16	22	38	60	
150.0	-160.0	Very dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.6		148.5	SS-30	32	43	34	77	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-103	**Boring Location:**	873+26.5	**Offset:**	RT 03.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.5 ft.	**Northing:**	239480.5069	**Easting:**	1831720.892	**Date Started:**	1/27/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	2/1/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		%#200=23.8 Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-104	**Boring Location:**	876+34.7	**Offset:**	RT 06.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239392.0745	**Easting:**	1832016.12	**Date Started:**	1/26/2016
Total Depth:	121.0 ft.	**Soil Depth:**	121.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, wet, gray, fine grained, with trace wood, SILTY SAND (SM)	1.5	SS-2	0	0	0	0
		Very soft, wet, gray, with trace wood, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=34.7	3.0	SS-3	0	0	0	0
5.0	-15.0	%#200=58.9 Very soft	4.5	SS-4	0	0	0	0
		Very soft, moist, with trace wood	6.0	SS-5	0	0	0	0
		Undisturbed sample obtained from 8.5 to 10.5 feet. Approximately 12 inches of recovery.	8.5	T-1				
10.0	-20.0	Very soft, moist, gray, with little sand, SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=44.7 %#200=85.9	10.5	SS-6	0	0	0	0
		Very soft, moist, gray, SANDY FAT CLAY (CH)						
15.0	-25.0	Undisturbed sample obtained from 14.5 to 16.5 feet. Approximately 18 inches of recovery.	14.5	T-2				
20.0	-30.0	Very loose, wet, gray, fine to medium grained, CLAYEY SAND (SC)	19.5	SS-7	0	0	0	0
25.0	-35.0	Soft, moist, gray and brown, FAT CLAY (CH)	24.5	SS-8	0	2	2	4
30.0	-40.0		29.5					

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-104	**Boring Location:**	876+34.7	**Offset:**	RT 06.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239392.0745	**Easting:**	1832016.12	**Date Started:**	1/26/2016
Total Depth:	121.0 ft.	**Soil Depth:**	121.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0	-40.0	Undisturbed sample obtained from 29.5 to 31.5 feet. Approximately 12 inches of recovery. Wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)			T-3				
35.0	-45.0	Soft, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=37 PL=18 PI=19 NMC=30.0 %#200=69.5		34.5	SS-9	1	1	2	3
40.0	-50.0	Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		39.5	SS-10	7	9	7	16
45.0	-55.0	Loose		44.5	SS-11	6	5	4	9
50.0	-60.0	Loose, fine to coarse grained		49.5	SS-12	2	2	6	8
55.0	-65.0	Medium dense, fine to medium grained		54.5	SS-13	4	6	6	12
60.0	-70.0			59.5					

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-104	**Boring Location:**	876+34.7	**Offset:**	RT 06.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239392.0745	**Easting:**	1832016.12	**Date Started:**	1/26/2016
Total Depth:	121.0 ft.	**Soil Depth:**	121.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-70.0	Loose, wet, light brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=18.3			SS-14	6	5	4	9
65.0	-75.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)		64.5	SS-15	6	8	6	14
70.0	-80.0	Medium dense, with trace silt		69.5	SS-16	8	12	11	23
75.0	-85.0	Medium dense		74.5	SS-17	7	9	10	19
80.0	-90.0	Medium dense, wet, light brown, fine to medium grained, with trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.7 %#200=3.4		79.5	SS-18	6	7	9	16
85.0	-95.0	Medium dense, with trace silt		84.5	SS-19	8	11	16	27
90.0	-100.0			89.5					

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-104	**Boring Location:**	876+34.7	**Offset:**	RT 06.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239392.0745	**Easting:**	1832016.12	**Date Started:**	1/26/2016
Total Depth:	121.0 ft.	**Soil Depth:**	121.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-100.0	Medium dense, with trace silt			SS-20	6	13	17	30
95.0	-105.0	Medium dense, with trace silt		94.5	SS-21	12	11	12	23
100.0	-110.0	Very soft, moist, gray, SANDY FAT CLAY (CH)		99.5	SS-22	1	1	1	2
		Undisturbed sample obtained from 101.5 to 102.0 feet due to tube refusal. Approximately 5 inches of recovery. Moist, gray, with trace gravel, SANDY FAT CLAY (CH, A-7-6(12)), LL=52 PL=21 PI=31 NMC=43.9 %#200=51.0		101.5	T-4				
105.0	-115.0	Very stiff, greenish gray		104.5	SS-23	4	7	9	16
110.0	-120.0	Undisturbed sample obtained from 109.5 to 111.5. Approximately 8 inches of recovery.		109.5	T-5				
115.0	-125.0	Very stiff, green		114.5	SS-24	4	8	11	19
120.0	-130.0			119.5					

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-104	**Boring Location:**	876+34.7	**Offset:**	RT 06.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-10.0 ft.	**Northing:**	239392.0745	**Easting:**	1832016.12	**Date Started:**	1/26/2016
Total Depth:	121.0 ft.	**Soil Depth:**	121.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/27/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-130.0									
		Hard			SS-25	7	12	19	31	●
		Boring Terminated at 121.0								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-105	**Boring Location:**	879+34.4	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	239312.7614	**Easting:**	1832305.095	**Date Started:**	1/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0	●
	-10.0	Very loose, No Recovery		1.5	SS-2	0	0	0	0	●
		Very loose, No Recovery		3.0	SS-3	0	0	0	0	●
5.0		Very loose, No Recovery		4.5	SS-4	0	0	0	0	●
	-15.0	Very loose, wet, dark gray and black, fine grained, with trace wood, SILTY SAND (SM)		6.0	SS-5	0	0	0	0	●
				8.5	SS-6	0	0	0	0	● ▲
10.0		Very soft, wet, black and dark gray, LEAN CLAY with SAND (CL, A-7-6(14)), LL=41 PL=21 PI=20 NMC=43.0 %#200=75.1								
	-20.0									
		Very soft, gray		13.5	SS-7	0	0	0	0	●
15.0										
	-25.0			18.0	T-1					▲
		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Very loose, gray, fine grained, CLAYEY SAND (SC, A-6(2)), LL=27 PL=12 PI=15 NMC=33.0 %#200=42.3								
20.0	-30.0									
		Very soft, moist, light gray, FAT CLAY with SAND (CH)		23.5	SS-8	0	0	0	0	●
25.0										
	-35.0									
		Soft		28.5	SS-9	0	1	3	4	●
30.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-105	**Boring Location:**	879+34.4	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	239312.7614	**Easting:**	1832305.095	**Date Started:**	1/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
	-40.0									
		Medium dense, wet, light gray, medium to fine grained, WELL GRADED SAND with SILT (SW-SM)		33.5	SS-10	4	9	12	21	●
35.0										
	-45.0									
		Medium dense, wet, light brown, fine to medium grained, WELL GRADED SAND with SILT (SW-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=10.3		38.5	SS-11	2	5	9	14	▲● ○
40.0										
	-50.0									
		Medium dense		43.5	SS-12	3	6	8	14	●
45.0										
	-55.0									
		Medium dense		48.5	SS-13	6	6	7	13	●
50.0										
	-60.0									
		Medium dense		53.5	SS-14	10	10	12	22	●
55.0										
	-65.0									
		Medium dense		58.5	SS-15	4	6	10	16	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-105	**Boring Location:**	879+34.4	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	239312.7614	**Easting:**	1832305.095	**Date Started:**	1/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-70.0									
65.0		Medium dense		63.5	SS-16	7	9	12	21	
	-75.0									
		Soft, moist, gray, LEAN CLAY with SAND (CL)		68.5	SS-17	1	1	2	3	
70.0				70.5	T-2					
	-80.0	Undisturbed sample obtained from 70.5 to 72.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray, LEAN CLAY with SAND (CL, A-6(13)), LL=38 PL=19 PI=19 NMC=31.8 %#200=75.3								
		Soft, moist, gray, FAT CLAY with SAND (CH)		73.5	SS-18	1	1	2	3	
75.0										
	-85.0									
		Undisturbed sample obtained from 78.5 to 80.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray, FAT CLAY with SAND (CH, A-7-6(38)), LL=73 PL=28 PI=45 NMC=48.6 %#200=79.2		78.5	T-3					
80.0										
	-90.0									
		Very soft		83.5	SS-19	0	0	0	0	
85.0										
	-95.0									
		Undisturbed sample obtained from 88.5 to 90.5. Approximately 14 inches of recovery.		88.5	T-4					
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-105	**Boring Location:**	879+34.4	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	239312.7614	**Easting:**	1832305.095	**Date Started:**	1/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0		Soft, wet							
	-100.0								
		Very soft, moist		93.5	SS-20	0	0	2	2
95.0									
	-105.0								
		Undisturbed sample obtained from 98.5 to 100.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray, with trace sand, FAT CLAY (CH, A-7-6(58)), LL=78 PL=28 PI=50 NMC=43.9 %#200=97.5		98.5	T-5				
100.0									
	-110.0								
		Firm, with trace sand lenses		103.5	SS-21	0	0	5	5
105.0									
	-115.0								
		Very stiff, greenish gray		108.5	SS-22	4	9	10	19
110.0									
	-120.0								
		Undisturbed sample obtained from 113.5 to 115.5. Approximately 14 inches of recovery. Hard		113.5	T-6				
115.0									
	-125.0								
		Very stiff, greenish gray and brown		118.5	SS-23	5	6	11	17
120.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-105	**Boring Location:**	879+34.4	**Offset:**	RT 03.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-8.0 ft.	**Northing:**	239312.7614	**Easting:**	1832305.095	**Date Started:**	1/23/2016
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/25/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-106	**Boring Location:**	882+31.1	**Offset:**	RT 01.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-9.5 ft.	**Northing:**	239233.4628	**Easting:**	1832590.927	**Date Started:**	1/18/2016
Total Depth:	121.5 ft.	**Soil Depth:**	121.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, wet, very dark gray, fine grained, with trace organics, SILTY SAND (SM)		0.0	SS-1	0	0	0	0
		Very loose, wet, very dark gray, fine grained, with trace organics, CLAYEY SAND (SC)		1.5	SS-2	0	0	0	0
		Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(6)), LL=35 PL=24 PI=11 NMC=39.6 %#200=65.3		3.0	SS-3	0	0	0	0
5.0	-15.0	Very soft		4.5	SS-4	0	0	0	0
		Undisturbed sample obtained from 6.0 to 8.0 feet. Approximately 19 inches of recovery.		6.0	T-1				
		Very soft, with trace wood		8.5	SS-5	0	0	0	0
10.0	-20.0	Very soft, with trace wood		10.0	SS-6	0	0	0	0
15.0	-25.0	Undisturbed sample obtained from 15.0 to 17.0 feet. Approximately 18 inches of recovery. Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(11)), LL=38 PL=15 PI=23 NMC=38.7 %#200=59.5		15.0	T-2				
20.0	-30.0	Very loose, wet, gray, fine to medium grained, SILTY SAND (SM)		20.0	SS-7	0	0	0	0
25.0	-35.0	Soft, moist, gray, with few sand lenses and trace organics, FAT CLAY (CH)		25.0	SS-8	1	1	2	3
		Undisturbed sample obtained from 27.0 to 29.0 feet. Approximately 24 inches of recovery. Firm, moist, gray, with few sand and trace wood, FAT CLAY (CH, A-7-6(34)), LL=60 PL=28 PI=32 NMC=50.6 %#200=91.3		27.0	T-3				
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-106	**Boring Location:**	882+31.1	**Offset:**	RT 01.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-9.5 ft.	**Northing:**	239233.4628	**Easting:**	1832590.927	**Date Started:**	1/18/2016
Total Depth:	121.5 ft.	**Soil Depth:**	121.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-40.0	Very soft, moist, gray, with trace wood, SANDY FAT CLAY (CH)		30.0	SS-9	0	0	0	0	
35.0	-45.0	Undisturbed sample obtained from 35.0 to 37.0 feet. Approximately 18 inches of recovery.		35.0	T-4					
40.0	-50.0	Medium dense, wet, gray, fine grained, with trace silt, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.1 %#200=4.3		40.0	SS-10	7	10	12	22	
45.0	-55.0	Medium dense, with trace silt		45.0	SS-11	8	8	10	18	
50.0	-60.0	Medium dense, brown, fine to medium grained		50.0	SS-12	7	10	9	19	
55.0	-65.0	Medium dense, light brown, with trace silt		55.0	SS-13	5	7	8	15	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-106	**Boring Location:**	882+31.1	**Offset:**	RT 01.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-9.5 ft.	**Northing:**	239233.4628	**Easting:**	1832590.927	**Date Started:**	1/18/2016
Total Depth:	121.5 ft.	**Soil Depth:**	121.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0	-70.0	Medium dense		60.0	SS-14	9	10	7	17	● at 17
65.0	-75.0	Loose, wet, gray and red, fine grained, CLAYEY SAND (SC)		65.0	SS-15	2	4	3	7	● at 7
70.0	-80.0	Loose, moist, gray, fine grained, CLAYEY SAND (SC, A-2-6(1)), LL=37 PL=19 PI=18 NMC=30.7 %#200=30.0		70.0	SS-16	2	2	4	6	● at 6; PL, MC, LL
75.0	-85.0	Medium dense, wet, fine to medium grained		75.0	SS-17	7	9	10	19	● at 19
80.0	-90.0	Undisturbed sample obtained from 80.0 to 81.5 feet. Approximately 17 inches of recovery. Loose, moist		80.0	T-5					
85.0	-95.0	Firm, moist, gray, with trace sand lenses, FAT CLAY (CH)		85.0	SS-18	2	2	3	5	● at 5
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-106	**Boring Location:**	882+31.1	**Offset:**	RT 01.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-9.5 ft.	**Northing:**	239233.4628	**Easting:**	1832590.927	**Date Started:**	1/18/2016
Total Depth:	121.5 ft.	**Soil Depth:**	121.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0	Loose, wet, gray, fine to medium grained, with trace clay lenses, SILTY SAND (SM)		90.0	SS-19	4	3	5	8	●
95.0	-105.0	Firm, moist, gray, SANDY FAT CLAY (CH)		95.0	SS-20	1	2	3	5	●
100.0	-110.0	Undisturbed sample obtained from 100.0 to 102.5 feet. Approximately 12 inches of recovery. Very soft, moist, greenish gray, SANDY FAT CLAY (CH, A-7-6(19)), LL=52 PL=21 PI=31 NMC=51.2 %#200=66.1		100.0	T-6					× ⊗ ▲
105.0	-115.0	Medium dense, wet, gray, fine grained, SILTY SAND with GRAVEL (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=20.0 %#200=17.5		105.0	SS-21	4	7	5	12	×●▲○
110.0	-120.0	Very stiff, moist, greenish gray and brown, FAT CLAY (CH)		110.0	SS-22	6	9	13	22	●
115.0	-125.0	Very stiff		115.0	SS-23	6	8	13	21	●
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-106	**Boring Location:**	882+31.1	**Offset:**	RT 01.0	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher\B. Ellis
Elev.:	-9.5 ft.	**Northing:**	239233.4628	**Easting:**	1832590.927	**Date Started:**	1/18/2016
Total Depth:	121.5 ft.	**Soil Depth:**	121.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/23/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0	Very stiff, moist, bluish gray, with few sand, FAT CLAY (CH, A-7-6(31)), LL=51 PL=19 PI=32 NMC=22.9 %#200=92.0		120.0	SS-24	7	8	10	18	
		Boring Terminated at 121.5 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-107	**Boring Location:**	885+35.1	**Offset:**	RT 13.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-9.5 ft.	**Northing:**	239137.7877	**Easting:**	1832879.842	**Date Started:**	1/7/2016
Total Depth:	118.0 ft.	**Soil Depth:**	118.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/7/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-10.0	Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, No Recovery		1.5	SS-2	0	0	0	0
		Very loose, wet, light brown, fine to medium grained, SILTY SAND (SM)		3.0	SS-3	0	0	0	0
5.0	-15.0	Very loose, No Recovery		4.5	SS-4	0	0	0	0
		Very loose, wet, dark gray, fine grained, SILTY SAND (SM)		6.0	SS-5	0	0	0	0
		Very soft, wet, gray, with trace sand, SANDY SILT (ML)		8.5	SS-6	0	0	0	0
10.0	-20.0	Undisturbed sample obtained from 10.5 to 12.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=36.4 %#200=66.8		10.5					
				11.5	T-1				
					SS-7	0	0	0	0
		Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(7)), LL=33 PL=21 PI=12 NMC=34.7 %#200=69.7							
15.0	-25.0			16.5	T-2				
		Undisturbed sample obtained from 16.5 to 18.5 feet. Approximately 16 inches of recovery. Very soft							
20.0	-30.0			21.5	SS-8	0	0	2	2
		Very loose, wet, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=31.3 %#200=14.0							
25.0	-35.0			26.5	SS-9	2	4	3	7
		Firm, moist, gray and brown, FAT CLAY (CH)		28.5	T-3				
30.0		Undisturbed sample obtained from 28.5 to 30.5 feet. Approximately 24 inches of recovery.							

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-107	**Boring Location:**	885+35.1	**Offset:**	RT 13.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-9.5 ft.	**Northing:**	239137.7877	**Easting:**	1832879.842	**Date Started:**	1/7/2016
Total Depth:	118.0 ft.	**Soil Depth:**	118.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/7/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0	-40.0	Stiff, moist, gray and brown, with few sand, FAT CLAY (CH, A-7-6(60)), LL=84 PL=23 PI=61 NMC=44.4 %#200=89.0 Firm		31.5	SS-10	3	4	3	7
35.0	-45.0	Undisturbed sample obtained from 36.0 to 38.0 feet. Approximately 24 inches of recovery. Soft, moist, gray, FAT CLAY with SAND (CH, A-7-6(43)), LL=71 PL=21 PI=50 NMC=44.3 %#200=81.4		36.0	T-4				
40.0	-50.0	Medium dense, wet, brown, fine to medium grained, with trace silt, POORLY GRADED SAND (SP)		41.5	SS-11	8	9	10	19
45.0	-55.0	Loose, fine grained, with trace clay		46.5	SS-12	5	2	5	7
50.0	-60.0	Medium dense, wet, brown and reddish brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.6 %#200=4.9		51.5	SS-13	7	9	12	21
55.0	-65.0	Medium dense, reddish brown		56.5	SS-14	7	9	10	19
60.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-107	**Boring Location:**	885+35.1	**Offset:**	RT 13.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-9.5 ft.	**Northing:**	239137.7877	**Easting:**	1832879.842	**Date Started:**	1/7/2016
Total Depth:	118.0 ft.	**Soil Depth:**	118.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/7/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-70.0	Medium dense, wet, reddish brown, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.8 %#200=4.0		61.5	SS-15	7	8	13	21
65.0	-75.0	Medium dense, moist, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.8 %#200=33.1		66.5	SS-16	10	15	12	27
70.0	-80.0	Medium dense, wet, gray		71.5	SS-17	9	8	15	23
75.0	-85.0	Dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=31.8 %#200=12.6		76.5	SS-18	32	17	21	38
80.0	-90.0	Dense		81.5	SS-19	13	19	24	43
85.0	-95.0	Dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=28.3 %#200=5.2		86.5	SS-20	19	24	26	50
90.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-107	**Boring Location:**	885+35.1	**Offset:**	RT 13.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-9.5 ft.	**Northing:**	239137.7877	**Easting:**	1832879.842	**Date Started:**	1/7/2016
Total Depth:	118.0 ft.	**Soil Depth:**	118.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/7/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-100.0									
		Very dense, wet, gray, fine to medium grained, with trace silt, POORLY GRADED SAND (SP)		91.5	SS-21	50/6	X	X	100+	>>
95.0	-105.0	Very dense		96.5	SS-22	50/5	X	X	100+	>>
100.0	-110.0	Very dense		101.5	SS-23	35	50/5	X	50/5	>>
105.0	-115.0	Very stiff, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(9)), LL=30 PL=12 PI=18 NMC=26.2 %#200=64.8		106.5	SS-24	7	9	15	24	
110.0	-120.0	Very stiff, greenish gray and brown		111.5	SS-25	12	10	16	26	
115.0	-125.0	Hard		116.5	SS-26	20	21	27	48	
		Boring Terminated at 118.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
0.0				0.0	SS-1	0	0	0	0	
	-10.0	Very soft, No Recovery								
5.0				4.5	SS-2	0	0	0	0	
	-15.0	Very soft, wet, gray, SANDY SILT (ML)		6.0	SS-3	0	0	0	0	
		Very soft, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=36.6 %#200=69.8								
10.0		Very soft		8.5	SS-4	0	0	0	0	
	-20.0									
15.0		Very soft		13.5	SS-5	0	0	0	0	
	-25.0									
20.0		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 9 inches of recovery. Very soft, moist gray, FAT CLAY (CH)		18.5	T-1					
	-30.0									
25.0		Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.1 %#200=10.7		23.5	SS-6	2	1	2	3	
	-35.0									
30.0		Soft, moist, light brown and gray, FAT CLAY (CH)		28.5	SS-7	2	2	2	4	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-40.0	Undisturbed sample obtained from 30.5 to 32.5 feet. Approximately 24 inches of recovery. Soft		30.5	T-2					
		Soft		33.5	SS-8	1	1	2	3	●
35.0	-45.0			38.5	T-3					
40.0		Undisturbed sample obtained from 38.5 to 40.5 feet. Approximately 24 inches of recovery. Top of tube: Moist, gray, with few sand, FAT CLAY (CH, A-7-6(45)), LL=72 PL=24 PI=48 NMC=50.6 %#200=86.9								
	-50.0	Bottom of tube: Wet, fine grained, POORLY GRADED SAND with SILT (SP-SM)								
		Medium dense, gray and light gray, fine to medium grained		43.5	SS-9	8	8	11	19	●
45.0	-55.0									
		Medium dense, wet, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.3 %#200=6.1		48.5	SS-10	10	7	10	17	▲ ● ○
50.0	-60.0									
		Loose, gray		53.5	SS-11	4	2	3	5	●
55.0	-65.0									
		Medium dense, wet, light gray and reddish brown, fine grained, POORLY GRADED SAND with SILT		58.5	SS-12	8	7	11	18	▲ ● ○
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-70.0	(SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=7.3								
65.0		Medium dense, light brown		63.5	SS-13	7	5	6	11	
	-75.0									
70.0		Medium dense, light brown and reddish brown		68.5	SS-14	8	7	9	16	
	-80.0									
75.0		Medium dense, light gray		73.5	SS-15	10	12	16	28	
	-85.0									
80.0		Medium dense, light brown		78.5	SS-16	11	10	16	26	
	-90.0									
85.0		Dense, light gray		83.5	SS-17	12	17	19	36	
	-95.0									
90.0		Very dense, light brown		88.5	SS-18	14	22	35	57	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-100.0									
95.0		Very dense, wet, light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=5.4		93.5	SS-19	23	31	38	69	
	-105.0									
100.0		Dense		98.5	SS-20	23	22	22	44	
	-110.0									
105.0		Very stiff, moist, greenish gray, SANDY LEAN CLAY (CL)		103.5	SS-21	7	8	10	18	
	-115.0									
110.0		Hard, moist, greenish gray, SANDY LEAN CLAY (CL, A-6(9)), LL=40 PL=20 PI=20 NMC=37.7 %#200=57.2		108.5	SS-22	10	20	18	38	
	-120.0									
115.0		Very stiff		113.5	SS-23	10	15	14	29	
	-125.0									
120.0		Hard, moist, greenish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=26.9 %#200=63.2		118.5	SS-24	12	23	26	49	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-130.0									
125.0		Very stiff, moist, greenish gray, LEAN CLAY (CL)		123.5	SS-25	8	13	15	28	
	-135.0									
130.0		Hard, moist, greenish gray, with few sand, LEAN CLAY (CL, A-7-6(24)), LL=45 PL=19 PI=26 NMC=36.5 %#200=88.1		128.5	SS-26	15	24	18	42	
	-140.0									
135.0		Very stiff, moist, greenish gray, with trace sand, FAT CLAY (CH)		133.5	SS-27	13	12	11	23	
	-145.0									
140.0		Hard		138.5	SS-28	13	17	16	33	
	-150.0									
145.0		Hard, with trace sand		143.5	SS-29	7	20	31	51	
	-155.0									
150.0		Very stiff, moist, brown, with trace sand, FAT CLAY (CH, A-7-6(32)), LL=51 PL=21 PI=30 NMC=24.9		148.5	SS-30	11	12	17	29	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-108	**Boring Location:**	888+31.2	**Offset:**	RT 09.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-8.0 ft.	**Northing:**	239060.3124	**Easting:**	1833165.684	**Date Started:**	1/4/2016
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	1/6/2016
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		%#200=96.2 Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-109	**Boring Location:**	891+31.3	**Offset:**	RT 07.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher
Elev.:	-6.5 ft.	**Northing:**	238979.1903	**Easting:**	1833454.657	**Date Started:**	12/17/2015
Total Depth:	101.0 ft.	**Soil Depth:**	101.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/20/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0 ▼	-6.5	Very loose, wet, gray, fine grained, SILTY SAND (SM)	0.0	SS-1	0	0	0	0
		Very loose, gray and brown	1.5	SS-2	0	0	0	0
	-10.0	Very loose, No Recovery	3.0	SS-3	0	0	0	0
5.0		Very loose, brown and black, fine to medium grained	4.5	SS-4	0	1	1	2
		Very loose, brown	6.0	SS-5	0	0	0	0
	-15.0		8.5	SS-6	0	0	0	0
10.0		Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(6)), LL=34 PL=22 PI=12 NMC=46.5 %#200=66.4						
	-20.0							
15.0		Undisturbed sample obtained from 14.5 to 16.5 feet. Approximately 24 inches of recovery. Firm	14.5	T-1				
	-25.0							
20.0		Undisturbed sample obtained from 19.5 to 21.5 feet. Approximately 24 inches of recovery. Wet, gray, with trace wood, CLAYEY SAND (SC)	19.5	T-2				
	-30.0							
25.0		Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.3 %#200=10.4	24.5	SS-7	2	1	2	3
	-35.0							
30.0			29.5					

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

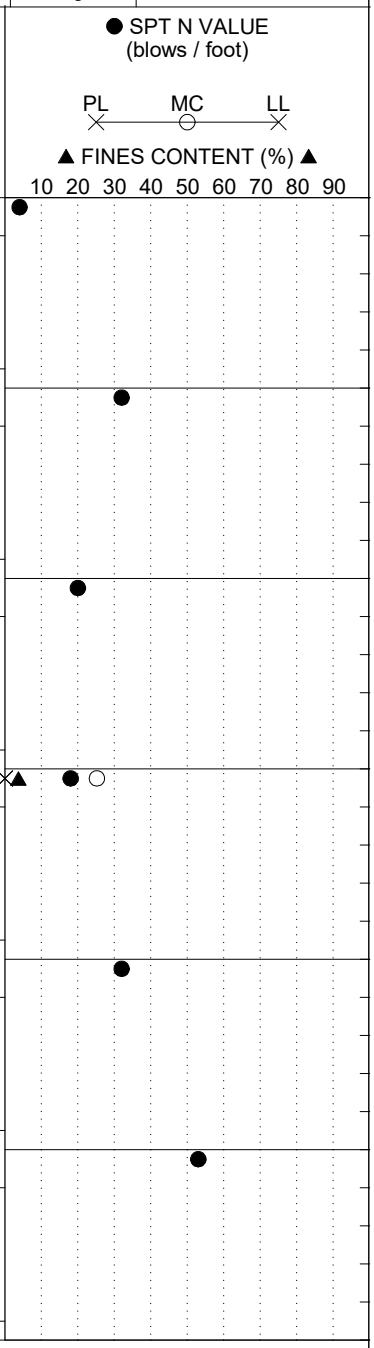
HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-109	**Boring Location:**	891+31.3	**Offset:**	RT 07.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher
Elev.:	-6.5 ft.	**Northing:**	238979.1903	**Easting:**	1833454.657	**Date Started:**	12/17/2015
Total Depth:	101.0 ft.	**Soil Depth:**	101.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/20/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0		Very loose			SS-8	3	2	2	4
	-40.0								
35.0		Dense, wet, gray and white, fine to medium grained, POORLY GRADED SAND (SP)		34.5	SS-9	7	16	16	32
	-45.0								
40.0		Medium dense, light brown		39.5	SS-10	6	9	11	20
	-50.0								
45.0		Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.2 %#200=3.7		44.5	SS-11	6	8	10	18
	-55.0								
50.0		Dense		49.5	SS-12	8	13	19	32
	-60.0								
55.0		Very dense, light brown and white		54.5	SS-13	11	26	27	53
	-65.0								
60.0				59.5					



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-109	**Boring Location:**	891+31.3	**Offset:**	RT 07.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher
Elev.:	-6.5 ft.	**Northing:**	238979.1903	**Easting:**	1833454.657	**Date Started:**	12/17/2015
Total Depth:	101.0 ft.	**Soil Depth:**	101.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/20/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0									
		Very dense, light brown			SS-14	14	40	46	86
	-70.0								
65.0		Very dense, light gray		64.5	SS-15	22	24	29	53
	-75.0								
70.0		Medium dense, light gray, with trace clay at bottom		69.5	SS-16	7	10	13	23
	-80.0								
75.0		Medium dense, moist, gray, fine to medium grained, with trace wood, SILTY SAND (SM)		74.5	SS-17	6	8	8	16
		Undisturbed sample obtained from 76.5 to 78.5 feet. Approximately 24 inches of recovery.		76.5	T-3				
	-85.0	Medium dense, moist, brown, medium to fine grained, SILTY SAND (SM, A-2-7(1)), LL=67 PL=43 PI=24 NMC=97.9 %#200=24.7							
80.0		Medium dense, with trace wood		79.5	SS-18	4	6	5	11
	-90.0								
85.0		Undisturbed sample obtained from 84.5 to 86.5 feet. Approximately 11 inches of recovery. Wet, gray, LEAN CLAY with SAND (CL, A-7-6(18)), LL=44 PL=18 PI=26 NMC=73.4 %#200=74.2		84.5	T-4				
	-95.0								
90.0				89.5					

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-109	**Boring Location:**	891+31.3	**Offset:**	RT 07.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	J. Fancher
Elev.:	-6.5 ft.	**Northing:**	238979.1903	**Easting:**	1833454.657	**Date Started:**	12/17/2015
Total Depth:	101.0 ft.	**Soil Depth:**	101.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/20/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0									
		Dense, wet, gray, fine to medium grained, POORLY GRADED SAND (SP)			SS-19	10	16	21	37
	-100.0								
95.0		Dense, wet, greenish gray, fine grained, CLAYEY SAND (SC, A-6(4)), LL=29 PL=15 PI=14 NMC=26.6 %#200=49.8		94.5	SS-20	10	18	24	42
	-105.0								
100.0		Very stiff, moist, greenish gray, with trace gravel, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=34.3 %#200=61.4		99.5	SS-21	8	9	15	24
		Boring Terminated at 101.0 ft.							

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-110	**Boring Location:**	894+44.3	**Offset:**	RT 18.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.5 ft.	**Northing:**	238883.4863	**Easting:**	1833753.01	**Date Started:**	12/14/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/15/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, dark gray, LEAN CLAY with SAND (CL)		0.0	SS-1	0	0	0	0
		Very soft		1.5	SS-2	0	0	0	0
	-5.0	Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft, wet, dark gray, LEAN CLAY with SAND (CL, A-7-6(16)), LL=49 PL=26 PI=23 NMC=26.5 %#200=72.3		4.5	SS-4	0	0	0	0
		Very soft, No Recovery		6.0	SS-5	0	0	1	1
	-10.0			8.5					
		Very soft			SS-6	0	0	0	0
10.0									
	-15.0			13.5					
15.0		Very loose, wet, gray, fine grained, POORLY GRADED SAND (SP)			SS-7	0	0	1	1
	-20.0			18.5					
20.0		Very loose, wet, gray, fine to medium grained, SILTY SAND (SM)			SS-8	0	0	0	0
	-25.0			23.5					
25.0		Very loose, wet, gray, fine to medium grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=27.9 %#200=39.1			SS-9	0	0	0	0
	-30.0			28.5					
30.0		Very loose			SS-10	0	0	0	0

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-110	**Boring Location:**	894+44.3	**Offset:**	RT 18.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.5 ft.	**Northing:**	238883.4863	**Easting:**	1833753.01	**Date Started:**	12/14/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/15/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0										
	-35.0	Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.3 %#200=11.7		33.5	SS-11	1	1	1	2	
35.0										
	-40.0	Loose		38.5	SS-12	2	3	2	5	
40.0										
	-45.0	Loose, light gray		43.5	SS-13	4	4	5	9	
45.0										
	-50.0	Medium dense		48.5	SS-14	7	9	13	22	
50.0										
	-55.0	Medium dense, wet, light gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=20.9 %#200=5.9		53.5	SS-15	10	11	10	21	
55.0										
	-60.0	Loose		58.5	SS-16	5	4	4	8	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-110	**Boring Location:**	894+44.3	**Offset:**	RT 18.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.5 ft.	**Northing:**	238883.4863	**Easting:**	1833753.01	**Date Started:**	12/14/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/15/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0	Medium dense, gray		63.5	SS-17	8	6	7	13	
65.0										
	-70.0	Medium dense		68.5	SS-18	9	9	9	18	
70.0										
	-75.0	Dense, light gray		73.5	SS-19	13	25	25	50	
75.0										
	-80.0	Dense		78.5	SS-20	10	14	23	37	
80.0										
	-85.0	Medium dense, with trace clay		83.5	SS-21	6	11	13	24	
85.0										
	-90.0	Medium dense		88.5	SS-22	7	8	9	17	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-110	**Boring Location:**	894+44.3	**Offset:**	RT 18.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.5 ft.	**Northing:**	238883.4863	**Easting:**	1833753.01	**Date Started:**	12/14/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/15/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL)		93.5	SS-23	9	9	9	18	
		Undisturbed sample obtained from 95.5 to 97.5 feet. Approximately 24 inches of recovery. Very soft, moist, greenish gray, with trace gravel, LEAN CLAY with SAND (CL, A-7-6(18)), LL=42 PL=14 PI=28 NMC=50.4 %#200=72.8		95.5	T-1					
	-100.0	Very stiff		98.5	SS-24	11	11	13	24	
100.0										
	-105.0	Very stiff		103.5	SS-25	10	11	15	26	
105.0										
	-110.0	Hard, gray		108.5	SS-26	14	17	31	48	
110.0										
	-115.0	Hard, greenish gray		113.5	SS-27	22	22	19	41	
115.0										
	-120.0	Hard, gray		118.5	SS-28	19	27	34	61	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-110	**Boring Location:**	894+44.3	**Offset:**	RT 18.5	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.5 ft.	**Northing:**	238883.4863	**Easting:**	1833753.01	**Date Started:**	12/14/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/15/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-111	**Boring Location:**	896+92.9	**Offset:**	RT 36.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	238803.659	**Easting:**	1833989.794	**Date Started:**	8/16/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/27/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No recovery		0.0	SS-1	0	0	0	0
	-15.0								
5.0		Very loose, moist, gray, fine grained, CLAYEY SAND (SC, A-6(2)), LL=29 PL=18 PI=11 NMC=34.1 %#200=45.9		5.0	SS-2	0	0	0	0
	-20.0								
10.0		Very loose, dark gray		10.0	SS-3	0	0	0	0
	-25.0	Undisturbed sample obtained from 13.0 to 15.0 feet. Approximately 24 inches of recovery. Very loose, moist, gray, fine to medium grained, CLAYEY SAND (SC, A-6(2)), LL=31 PL=13 PI=18 NMC=28.7 %#200=38.0		13.0	T-1				
15.0									
20.0	-30.0	Very loose, moist, gray, fine to medium grained, with trace clay, POORLY GRADED SAND with SILT (SP-SM)		18.5	SS-4	1	0	1	1
25.0	-35.0	Very loose, moist, pale brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.5 %#200=6.5		23.5	SS-5	1	1	1	2
30.0	-40.0	Very loose, moist, dark gray, fine to medium grained, POORLY GRADED SAND (SP)		28.5	SS-6	1	1	3	4

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-111	**Boring Location:**	896+92.9	**Offset:**	RT 36.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	238803.659	**Easting:**	1833989.794	**Date Started:**	8/16/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/27/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-45.0	Medium dense, brown		33.5	SS-7	4	10	14	24	
35.0										
	-50.0	Medium dense, pale brown, medium to fine grained		38.5	SS-8	6	11	12	23	
40.0										
	-55.0	Medium dense		43.5	SS-9	2	6	8	14	
45.0										
	-60.0	Loose, wet, pale brown, medium to fine grained, with few gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.7 %#200=1.5		48.5	SS-10	5	4	6	10	
50.0										
	-65.0	Medium dense, moist		53.5	SS-11	5	6	8	14	
55.0										
	-70.0	Dense, fine to medium grained		58.5	SS-12	12	16	19	35	
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-111	**Boring Location:**	896+92.9	**Offset:**	RT 36.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	238803.659	**Easting:**	1833989.794	**Date Started:**	8/16/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/27/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-75.0	Medium dense		63.5	SS-13	7	10	14	24	●
70.0	-80.0	Medium dense, medium to fine grained, with trace gravel		68.5	SS-14	4	8	10	18	●
75.0	-85.0	Medium dense, wet, fine to medium grained		73.5	SS-15	4	8	9	17	●
80.0	-90.0	Very stiff, moist, green, SANDY LEAN CLAY (CL, A-4(4)), LL=28 PL=20 PI=8 NMC=8.6 %#200=69.7		78.5	SS-16	10	9	8	17	○ ● ▲
85.0	-95.0	Undisturbed sample obtained from 83.0 to 85.0 feet. Approximately 19 inches of recovery. Hard, moist, green, with trace sand, LEAN CLAY (CL, A-7-6(34)), LL=49 PL=17 PI=32 NMC=21.0 %#200=98.0		83.0	T-2					▲
90.0	-100.0	Very stiff		88.5	SS-17	7	10	12	22	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-111	**Boring Location:**	896+92.9	**Offset:**	RT 36.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	238803.659	**Easting:**	1833989.794	**Date Started:**	8/16/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/27/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-105.0	Undisturbed sample obtained from 93.0 to 95.0 feet. Approximately 24 inches of recovery. Hard, moist, green, SANDY LEAN CLAY (CL, A-6(4)), LL=29 PL=17 PI=12 NMC=20.3 %#200=54.7		93.0	T-3					
100.0	-110.0	Hard		98.5	SS-18	10	17	15	32	
105.0	-115.0	Medium dense, moist, green, fine grained, CLAYEY SAND (SC, A-6(2)), LL=27 PL=14 PI=13 NMC=23.3 %#200=43.7		103.5	SS-19	7	13	15	28	
110.0	-120.0	Medium dense, wet, green, fine grained, SILTY SAND (SM)		108.5	SS-20	9	9	8	17	
115.0	-125.0	Hard, moist, green, LEAN CLAY (CL)		113.5	SS-21	9	16	16	32	
120.0	-130.0	Very stiff		118.5	SS-22	6	9	13	22	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-111	**Boring Location:**	896+92.9	**Offset:**	RT 36.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-11.0 ft.	**Northing:**	238803.659	**Easting:**	1833989.794	**Date Started:**	8/16/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/27/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	92%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-135.0	Undisturbed sample obtained from 123.0 to 125.0 feet. Approximately 14 inches of recovery. Dense, moist, green, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.5 %#200=43.2		123.0	T-4					
130.0	-140.0	Very stiff, moist, green, LEAN CLAY (CL)		128.5	SS-23	10	11	14	25	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-112	**Boring Location:**	900+04.5	**Offset:**	LT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-19.0 ft.	**Northing:**	238790.047	**Easting:**	1834306.767	**Date Started:**	10/31/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-20.0	Very loose, moist, gray, fine to medium grained, POORLY GRADED SAND (SP)		0.0	SS-1	0	0	0	0
5.0	-25.0	Very loose, moist, brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=22.2 %#200=2.8		3.5	SS-2	1	1	2	3
10.0	-30.0	Loose		8.5	SS-3	1	1	1	2
15.0	-35.0	Very loose, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.2 %#200=7.0		13.5	SS-4	0	0	0	0
20.0	-40.0	Very loose		18.5	SS-5	0	0	2	2
25.0	-45.0	Very loose, moist, white, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.5 %#200=7.4		23.5	SS-6	1	1	2	3
30.0		Very loose, moist, white, fine to medium grained, POORLY GRADED SAND (SP)		28.5	SS-7	0	0	2	2

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-112	**Boring Location:**	900+04.5	**Offset:**	LT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-19.0 ft.	**Northing:**	238790.047	**Easting:**	1834306.767	**Date Started:**	10/31/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-50.0									
35.0		Very loose, with trace gravel		33.5	SS-8	2	2	2	4	
	-55.0									
40.0		Loose, pale brown		38.5	SS-9	4	5	4	9	
	-60.0									
45.0		Medium dense, moist, white, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.0 %#200=2.1		43.5	SS-10	4	6	6	12	
	-65.0									
50.0		Medium dense		48.5	SS-11	6	11	15	26	
	-70.0									
55.0		Loose, moist, white, medium grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=1.6		53.5	SS-12	4	3	4	7	
	-75.0									
60.0		Medium dense		58.5	SS-13	5	7	7	14	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-112	**Boring Location:**	900+04.5	**Offset:**	LT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-19.0 ft.	**Northing:**	238790.047	**Easting:**	1834306.767	**Date Started:**	10/31/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-80.0									
65.0		Medium dense		63.5	SS-14	6	10	13	23	
	-85.0									
70.0		Dense, moist, light gray, fine grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.7 %#200=2.8		68.5	SS-15	14	22	22	44	
	-90.0									
75.0		Undisturbed sample obtained from 73.0 to 75.0 feet. Approximately 21 inches of recovery. Moist, blue, LEAN CLAY (CL)		73.0	T-1					
	-95.0									
80.0		Hard, moist, green, with few sand, LEAN CLAY (CL, A-7-6(33)), LL=49 PL=16 PI=33 NMC=30.0 %#200=93.6		78.5	SS-16	11	15	17	32	
	-100.0									
85.0		Hard, moist, green, with few sand, FAT CLAY (CH, A-7-6(40)), LL=59 PL=18 PI=41 NMC=58.6 %#200=91.2		83.5	SS-17	10	13	18	31	
	-105.0									
90.0		Very stiff, moist, green, LEAN CLAY with SAND (CL, A-6(8)), LL=28 PL=15 PI=13 NMC=68.4 %#200=79.1		88.5	SS-18	7	10	18	28	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-112	**Boring Location:**	900+04.5	**Offset:**	LT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-19.0 ft.	**Northing:**	238790.047	**Easting:**	1834306.767	**Date Started:**	10/31/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-110.0									
95.0		Hard, moist, green, LEAN CLAY with SAND (CL, A-6(12)), LL=34 PL=13 PI=21 NMC=19.8 %#200=71.4		93.5	SS-19	10	18	22	40	
	-115.0									
100.0		Hard		98.5	SS-20	15	16	21	37	
	-120.0									
105.0		Undisturbed sample obtained from 103.0 to 105.0 feet. Approximately 24 inches of recovery. Moist, green, FAT CLAY (CH, A-7-6(39)), LL=55 PL=19 PI=36 NMC=55.1 %#200=99.3		103.0	T-2					
	-125.0									
110.0		Hard		108.5	SS-21	10	17	19	36	
	-130.0									
115.0		Hard, moist, green, LEAN CLAY with SAND (CL, A-6(14)), LL=34 PL=13 PI=21 NMC=51.4 %#200=77.0		113.5	SS-22	13	23	20	43	
	-135.0									
120.0		Very stiff		118.5	SS-23	10	12	15	27	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-112	**Boring Location:**	900+04.5	**Offset:**	LT 22.6	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-19.0 ft.	**Northing:**	238790.047	**Easting:**	1834306.767	**Date Started:**	10/31/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/1/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-140.0									
125.0		Undisturbed sample obtained from 123.5 to 125.5 feet. Approximately 24 inches of recovery. Moist, green, LEAN CLAY with SAND (CL, A-7-6(19)), LL=44 PL=14 PI=30 NMC=29.6 %#200=71.5		123.5	T-3					
	-145.0									
130.0		Hard, moist, light gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=68.6		128.5	SS-24	28	47	50	97	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-20.0	Very loose, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)	0.0	SS-1	0	0	0	0
			3.5	SS-2	1	1	1	2
5.0	-25.0	Very loose, No Recovery						
			8.5	SS-3	2	2	3	5
10.0	-30.0	Loose, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.9 %#200=8.9						
			13.5	SS-4	0	0	1	1
15.0	-35.0	Very loose						
			18.5	SS-5	0	0	0	0
20.0	-40.0	Very loose, moist, brown, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.2 %#200=7.2						
			23.5	SS-6	2	2	1	3
25.0	-45.0	Very loose, pale brown						
			28.5	SS-7	2	4	3	7
30.0	-50.0	Loose, white						

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-50.0									
35.0	-55.0	Loose, moist, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=7.2		33.5	SS-8	3	3	4	7	
40.0	-60.0	Loose, with trace gravel		38.5	SS-9	4	4	4	8	
45.0	-65.0	Medium dense, white		43.5	SS-10	4	4	9	13	
50.0	-70.0	Medium dense, moist, white, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=25.7 %#200=2.0		48.5	SS-11	6	9	12	21	
55.0	-75.0	Medium dense		53.5	SS-12	10	12	14	26	
60.0	-80.0	Medium dense		58.5	SS-13	10	12	16	28	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0	-80.0								
		Medium dense, moist, white, medium to fine grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=21.4 %#200=4.3		63.5	SS-14	8	8	4	12
65.0	-85.0								
		Medium dense		68.5	SS-15	3	9	12	21
70.0	-90.0								
		Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-7-6(18)), LL=42 PL=18 PI=24 NMC=28.0 %#200=77.4		73.5	SS-16	7	14	15	29
75.0	-95.0								
		Hard, moist, green, with trace sand, LEAN CLAY (CL, A-7-6(30)), LL=48 PL=19 PI=29 NMC=21.6 %#200=95.2		78.5	SS-17	13	16	19	35
80.0	-100.0								
		Undisturbed sample obtained from 83.5 to 85.5 feet. Approximately 24 inches of recovery. Moist, greenish gray, with little sand, FAT CLAY (CH, A-7-6(31)), LL=52 PL=18 PI=34 NMC=26.8 %#200=86.8		83.5	T-1				
85.0	-105.0								
		Hard		88.5	SS-18	10	13	21	34
90.0	-110.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-110.0									
				93.5	T-2					
95.0	-115.0	Undisturbed sample obtained from 93.5 to 95.5 feet. Approximately 24 inches of recovery. Moist, greenish gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=20.1 %#200=37.0								
				98.5	SS-19	13	20	29	49	
100.0	-120.0	Hard, moist, green, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=28.7 %#200=63.1								
				103.5	SS-20	11	13	18	31	
105.0	-125.0	Hard, moist, greenish gray, FAT CLAY (CH)								
				108.5	T-3					
110.0	-130.0	Undisturbed sample obtained from 108.5 to 110.5 feet. Approximately 24 inches of recovery. Moist, blue, brown, red and white, FAT CLAY with SAND (CH, A-7-6(44)), LL=71 PL=16 PI=55 NMC=28.7 %#200=78.8								
				113.5	SS-21	10	18	23	41	
115.0	-135.0	Hard, greenish gray								
				118.5	SS-22	12	15	17	32	
120.0	-140.0	Very stiff								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-140.0									
125.0	-145.0	Very dense, moist, greenish gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.4 %#200=11.4		123.5	SS-23	33	35	40	75	
130.0	-150.0	Very dense, gray		128.5	SS-24	40	50/3	X	100+	>>
135.0	-155.0	Dense		133.5	SS-25	10	11	29	40	
140.0	-160.0	Hard, moist, gray, LEAN CLAY with SAND (CL, A-4(6)), LL=27 PL=17 PI=10 NMC=53.0 %#200=83.3		138.5	SS-26	10	18	50	68	
145.0	-165.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		143.5	SS-27	21	18	47	65	
150.0	-170.0	Very dense		148.5	SS-28	30	37	34	71	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
150.0	-170.0									
155.0	-175.0									
				158.5						
160.0	-180.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.7 %#200=9.3			SS-29	48	46	46	92	
165.0	-185.0									
				168.5						
170.0	-190.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.1 %#200=10.9			SS-30	24	24	38	62	
175.0	-195.0									
				178.5						
180.0	-200.0	Very dense			SS-31	19	30	48	78	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-113	**Boring Location:**	902+86.1	**Offset:**	RT 03.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-20.0 ft.	**Northing:**	238707.954	**Easting:**	1834577.121	**Date Started:**	11/2/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/3/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-114	**Boring Location:**	906+06.2	**Offset:**	RT 08.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-19.0 ft.	**Northing:**	239480.507	**Easting:**	1831720.892	**Date Started:**	11/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
0.0	-20.0	Very soft, wet, black, with organics, LEAN CLAY (CL)		0.0	SS-1	0	0	0	0	
5.0	-25.0	Very soft, No Recovery		3.5	SS-2	0	0	0	0	
10.0	-30.0	Very soft, No Recovery		8.5	SS-3	0	0	0	0	
15.0	-35.0	Very soft		13.5	SS-4	0	0	0	0	
20.0	-40.0	Very loose, wet, gray, fine grained, POORLY GRADED SAND (SP)		18.5	SS-5	0	0	0	0	
25.0	-45.0	Loose, wet, gray, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=2.9		23.5	SS-6	2	3	2	5	
30.0		Loose, pale brown		28.5	SS-7	5	3	2	5	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-114	**Boring Location:**	906+06.2	**Offset:**	RT 08.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-19.0 ft.	**Northing:**	239480.507	**Easting:**	1831720.892	**Date Started:**	11/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot); PL MC LL; ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0	-50.0									
35.0		Very loose		33.5	SS-8	2	2	1	3	●
	-55.0									
40.0		Medium dense, moist, pale brown, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=24.1 %#200=2.0		38.5	SS-9	4	6	7	13	▲ ● ○
	-60.0									
45.0		Medium dense, tan		43.5	SS-10	10	12	13	25	●
	-65.0									
50.0		Medium dense, moist, light gray, medium to fine and coarse grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=15.4 %#200=1.1		48.5	SS-11	4	5	7	12	▲ ● ○
	-70.0									
55.0		Loose, gray and tan		53.5	SS-12	3	2	3	5	●
	-75.0									
60.0		Medium dense, tan		58.5	SS-13	4	6	10	16	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-114	**Boring Location:**	906+06.2	**Offset:**	RT 08.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-19.0 ft.	**Northing:**	239480.507	**Easting:**	1831720.892	**Date Started:**	11/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-80.0									
65.0		Medium dense		63.5	SS-14	7	8	11	19	
	-85.0									
70.0		Medium dense, moist, pale brown, medium grained, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=23.2 %#200=1.7		68.5	SS-15	6	6	10	16	
	-90.0									
75.0		Medium dense, tan, fine to medium grained		73.5	SS-16	10	7	14	21	
	-95.0									
80.0		Very stiff, moist, gray, LEAN CLAY with SAND (CL, A-7-6(20)), LL=49 PL=19 PI=30 NMC=22.9 %#200=70.4		78.5	SS-17	11	12	16	28	
	-100.0									
85.0		Undisturbed sample obtained from 83.5 to 85.5 feet. Approximately 24 inches of recovery. Bluish gray and black, LEAN CLAY with SAND (CL, A-7-6(21)), LL=47 PL=23 PI=24 NMC=33.0 %#200=84.1		83.5	T-1					
	-105.0									
90.0		Stiff, wet, gray, SANDY LEAN CLAY (CL, A-6(6)), LL=31 PL=13 PI=18 NMC=19.9 %#200=52.3		88.5	SS-18	8	10	13	23	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-114	**Boring Location:**	906+06.2	**Offset:**	RT 08.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-19.0 ft.	**Northing:**	239480.507	**Easting:**	1831720.892	**Date Started:**	11/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-110.0									
95.0	-115.0	Undisturbed sample obtained from 93.5 to 95.5 feet. Approximately 17 inches of recovery. Moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.8 %#200=24.0		93.5	T-2					
100.0	-120.0	Very stiff, moist, gray, SANDY LEAN CLAY (CL, A-6(10)), LL=40 PL=23 PI=17 NMC=25.0 %#200=65.9		98.5	SS-19	10	12	16	28	
105.0	-125.0	Very stiff, wet, olive gray		103.5	SS-20	10	13	14	27	
110.0	-130.0	Undisturbed sample obtained from 108.5 to 110.5 feet. Approximately 20 inches of recovery. Moist, bluish gray and brown, with few sand, LEAN CLAY (CL, A-7-6(23)), LL=41 PL=16 PI=25 NMC=19.6 %#200=89.9		108.5	T-3					
115.0	-135.0	Very stiff, wet, olive gray, SANDY LEAN CLAY (CL, A-6(8)), LL=30 PL=12 PI=18 NMC=24.4 %#200=62.4		113.5	SS-21	6	7	13	20	
120.0		Dense, wet, olive gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.9		118.5	SS-22	12	19	30	49	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-114	**Boring Location:**	906+06.2	**Offset:**	RT 08.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	D.Sikdar
Elev.:	-19.0 ft.	**Northing:**	239480.507	**Easting:**	1831720.892	**Date Started:**	11/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/4/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
	-140.0	%#200=27.9								
		Hard, wet, gray, SANDY SILT (ML)		123.5	SS-23	18	26	32	58	
125.0										
	-145.0									
		Hard, wet, gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=51.3		128.5	SS-24	30	40	45	85	
130.0		Boring Terminated at 130.0 feet.								

LEGEND

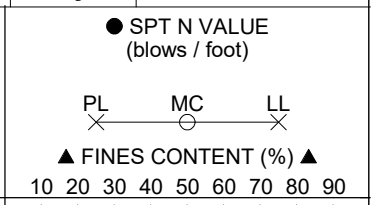
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-115	**Boring Location:**	909+27.2	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	0.5 ft.	**Northing:**	238612.4473	**Easting:**	1835210.989	**Date Started:**	12/4/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/7/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	0.0	Very soft, wet, black, LEAN CLAY (CL)	0.0	SS-1	0	0	0	0
		Very soft	1.5	SS-2	0	0	0	0
		Undisturbed sample could not be obtained from 3.0 to 5.0 feet. Split Spoon sample taken at 3.0 feet. Very soft, black and brown	3.0	SS-3	0	0	0	0
5.0	-5.0	Very soft, wet, black and brown, with few sand, LEAN CLAY (CL, A-7-6(24)), LL=48 PL=22 PI=26 NMC=82.9 %#200=86.2	5.0	SS-4	0	0	0	0
		Very soft	6.5	SS-5	0	0	0	0
		Very soft, with trace sand	8.5	SS-6	0	0	0	0
10.0	-10.0							
		Undisturbed sample obtained from 13.0 to 15.0 feet. Approximately 24 inches of recovery.	13.0	T-2				
15.0	-15.0	Very soft, wet, black and brown, SANDY LEAN CLAY (CL, A-6(4)), LL=29 PL=16 PI=13 NMC=32.8 %#200=56.5						
		Very soft	18.5	SS-7	0	0	0	0
20.0	-20.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 12 inches of recovery.	23.5	T-3				
25.0	-25.0	Soft, moist, gray						
		Very loose, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)	28.5	SS-8	2	1	1	2
30.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-115	**Boring Location:**	909+27.2	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	0.5 ft.	**Northing:**	238612.4473	**Easting:**	1835210.989	**Date Started:**	12/4/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/7/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0	-30.0							
		Loose, wet, light brown, medium to fine grained, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=22.3 %#200=5.4	33.5	SS-9	3	5	4	9
35.0	-35.0							
		Medium dense	38.5	SS-10	7	9	10	19
40.0	-40.0							
		Medium dense	43.5	SS-11	7	10	10	20
45.0	-45.0							
		Dense	48.5	SS-12	10	17	19	36
50.0	-50.0							
		Dense	53.5	SS-13	10	19	23	42
55.0	-55.0							
		Dense	58.5	SS-14	13	22	27	49
60.0								

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-115	**Boring Location:**	909+27.2	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	0.5 ft.	**Northing:**	238612.4473	**Easting:**	1835210.989	**Date Started:**	12/4/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/7/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-60.0									
65.0	-65.0	Medium dense, fine to coarse grained		63.5	SS-15	7	7	7	14	
70.0	-70.0	Medium dense, fine to medium grained		68.5	SS-16	9	13	10	23	
75.0	-75.0	Dense, wet, light brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.5 %#200=7.5		73.5	SS-17	24	21	18	39	
80.0	-80.0	Medium dense, fine to medium grained		78.5	SS-18	7	10	15	25	
85.0	-85.0	Medium dense		83.5	SS-19	9	10	11	21	
90.0		Medium dense, wet, gray, fine to medium grained, with trace gravel, POORLY GRADED SAND with SILT		88.5	SS-20	9	10	5	15	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-115	**Boring Location:**	909+27.2	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	0.5 ft.	**Northing:**	238612.4473	**Easting:**	1835210.989	**Date Started:**	12/4/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/7/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-90.0	(SP-SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=16.7 %#200=10.6								
		Very stiff, moist, greenish gray, FAT CLAY with SAND (CH)		93.5	SS-21	6	8	9	17	
95.0	-95.0									
		Very stiff, with trace gravel		98.5	SS-22	7	8	11	19	
100.0	-100.0	Undisturbed sample obtained from 100.0 to 102.5 feet. Approximately 24 inches of recovery. Very stiff, moist to wet, yellowish brown and pale brown, FAT CLAY with SAND (CH, A-7-6(30)), LL=55 PL=19 PI=36 NMC=31.6 %#200=80.9		100.0	T-4					
		Very stiff, greenish gray and brown		103.5	SS-23	8	9	10	19	
105.0	-105.0									
		Dense, moist, gray, fine grained, CLAYEY SAND (SC)		108.5	SS-24	14	22	24	46	
110.0	-110.0									
		Dense, moist, gray, fine grained, CLAYEY SAND (SC, A-2-4(0)), LL=26 PL=18 PI=8 NMC=38.8 %#200=32.3		113.5	SS-25	21	20	25	45	
115.0	-115.0									
		Very dense		118.5	SS-26	21	25	33	58	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-115	**Boring Location:**	909+27.2	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Chris LaFroscia
Elev.:	0.5 ft.	**Northing:**	238612.4473	**Easting:**	1835210.989	**Date Started:**	12/4/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/7/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-116	**Boring Location:**	912+34.5	**Offset:**	LT 03.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.5 ft.	**Northing:**	238574.9275	**Easting:**	1835515.857	**Date Started:**	11/30/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/3/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	0.0	Very loose, wet, brown and black, fine grained, CLAYEY SAND (SC)	0.0	SS-1	0	0	0	0
		Very loose	1.5	SS-2	0	0	0	0
		Very loose	3.0	SS-3	0	0	0	0
5.0	-5.0	Very loose	4.5	SS-4	0	0	0	0
		Undisturbed sample obtained from 6.0 to 8.0 feet. Approximately 24 inches of recovery. Very loose, wet to moist, brown and dark brown, fine grained, CLAYEY SAND (SC, A-6(1)), LL=32 PL=18 PI=14 NMC=80.0 %#200=35.8	6.0	T-1				
		Very loose, wet, brown and black	8.5	SS-5	0	0	0	0
10.0	-10.0							
		Very loose	13.5	SS-6	0	0	0	0
15.0	-15.0							
		Very loose	18.5	SS-7	0	0	0	0
20.0	-20.0							
		Undisturbed sample obtained from 23.5 to 25.5 feet. Approximately 24 inches of recovery. Very loose, wet, brown, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=29.0 %#200=38.7	23.5	T-2				
25.0	-25.0							
		Loose	28.5	SS-8	3	4	6	10
30.0								

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-116	**Boring Location:**	912+34.5	**Offset:**	LT 03.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.5 ft.	**Northing:**	238574.9275	**Easting:**	1835515.857	**Date Started:**	11/30/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/3/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-30.0									
35.0	-35.0	Medium dense, moist, brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.0 %#200=6.4		33.5	SS-9	7	9	11	20	
40.0	-40.0	Medium dense		38.5	SS-10	6	7	7	14	
45.0	-45.0	Medium dense		43.5	SS-11	13	12	17	29	
50.0	-50.0	Dense, brown, black and white		48.5	SS-12	16	16	19	35	
55.0	-55.0	Dense, brown and black		53.5	SS-13	18	16	21	37	
60.0		Dense, light brown and brown		58.5	SS-14	17	19	23	42	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-116	**Boring Location:**	912+34.5	**Offset:**	LT 03.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.5 ft.	**Northing:**	238574.9275	**Easting:**	1835515.857	**Date Started:**	11/30/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/3/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-60.0									
65.0	-65.0	Dense, moist, light brown, medium to fine grained, with trace gravel, WELL GRADED SAND with SILT (SW-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.5 %#200=8.5		63.5	SS-15	12	13	18	31	
70.0	-70.0	Medium dense		68.5	SS-16	8	11	14	25	
75.0	-75.0	Medium dense		73.5	SS-17	11	9	10	19	
80.0	-80.0	Medium dense		78.5	SS-18	3	8	14	22	
85.0	-85.0	Medium dense, with trace gravel		83.5	SS-19	8	10	18	28	
90.0		Top of spoon: Dense, with trace gravel		88.5	SS-20	16	16	17	33	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-116	**Boring Location:**	912+34.5	**Offset:**	LT 03.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.5 ft.	**Northing:**	238574.9275	**Easting:**	1835515.857	**Date Started:**	11/30/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/3/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-90.0	Bottom of spoon: Dense, moist, olive gray, fine grained, SILTY SAND (SM)								
		Dense, gray		93.5	SS-21	11	13	21	34	
95.0	-95.0									
		Very dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=23.7 %#200=23.3		98.5	SS-22	20	25	32	57	
100.0	-100.0									
		Very dense		103.5	SS-23	30	32	47	79	
105.0	-105.0									
		Very dense		108.5	SS-24	19	36	34	70	
110.0	-110.0									
		Very dense		113.5	SS-25	22	30	47	77	
115.0	-115.0									
		Hard, moist, gray, FAT CLAY (CH)		118.5	SS-26	13	14	20	34	
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-116	**Boring Location:**	912+34.5	**Offset:**	LT 03.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.5 ft.	**Northing:**	238574.9275	**Easting:**	1835515.857	**Date Started:**	11/30/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/3/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-117	**Boring Location:**	915+32.6	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-4.0 ft.	**Northing:**	238547.9885	**Easting:**	1835812.589	**Date Started:**	11/23/2015
Total Depth:	115.0 ft.	**Soil Depth:**	115.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/24/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, dark gray, FAT CLAY (CH)		0.0	SS-1	0	0	0	0
		Very soft, wet, dark gray, with few sand, FAT CLAY (CH, A-7-6(29)), LL=54 PL=23 PI=31 NMC=92.6 %#200=85.9		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
	-10.0	Very soft		6.0	SS-5	0	0	0	0
		Undisturbed sample obtained from 8.5 to 10.5 feet. Approximately 24 inches of recovery. Very soft, with trace sand		8.5	T-1				
10.0	-15.0								
		Very soft, wet, dark gray, SANDY LEAN CLAY (CL, A-6(7)), LL=28 PL=14 PI=14 NMC=30.2 %#200=67.1		13.5	SS-6	0	0	0	0
15.0	-20.0								
		Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 24 inches of recovery. Very soft, moist, with trace shell		18.0	T-2				
20.0	-25.0								
		Very soft, light gray		23.5	SS-7	1	1	1	2
25.0	-30.0								
		Loose, wet, light brown and tan, medium grained, POORLY GRADED SAND with SILT (SP-SM)		28.5	SS-8	2	1	3	4
30.0									

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-117	**Boring Location:**	915+32.6	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-4.0 ft.	**Northing:**	238547.9885	**Easting:**	1835812.589	**Date Started:**	11/23/2015
Total Depth:	115.0 ft.	**Soil Depth:**	115.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/24/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
	-35.0									
35.0		Medium dense, white, fine to medium grained		33.5	SS-9	6	7	6	13	
	-40.0									
40.0		Medium dense, wet, light gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.7 %#200=5.0		38.5	SS-10	7	8	11	19	
	-45.0									
45.0		Medium dense		43.5	SS-11	5	5	11	16	
	-50.0									
50.0		Dense		48.5	SS-12	10	11	20	31	
	-55.0									
55.0		Dense, fine grained		53.5	SS-13	16	15	20	35	
	-60.0									
60.0		Dense, fine to medium grained		58.5	SS-14	15	22	22	44	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-117	**Boring Location:**	915+32.6	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-4.0 ft.	**Northing:**	238547.9885	**Easting:**	1835812.589	**Date Started:**	11/23/2015
Total Depth:	115.0 ft.	**Soil Depth:**	115.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/24/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Medium dense		63.5	SS-15	15	12	13	25	
	-70.0									
70.0		Medium dense, with wood		68.5	SS-16	10	10	12	22	
	-75.0									
75.0		Dense, fine grained		73.5	SS-17	12	14	18	32	
	-80.0									
80.0		Top of spoon: Very stiff, wet, light gray, SANDY LEAN CLAY (CL)		78.5	SS-18	2	11	17	28	
	-85.0	Bottom of spoon: Medium dense, wet, light gray, fine to medium grained, SILTY SAND (SM)								
85.0		Dense, wet, light gray, fine to medium grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=18.4 %#200=21.5		83.5	SS-19	7	11	23	34	
	-90.0									
90.0		Dense, with trace clay		88.5	SS-20	28	23	26	49	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-117	**Boring Location:**	915+32.6	**Offset:**	LT 04.7	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-4.0 ft.	**Northing:**	238547.9885	**Easting:**	1835812.589	**Date Started:**	11/23/2015
Total Depth:	115.0 ft.	**Soil Depth:**	115.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/24/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0	-95.0									
95.0		Very stiff, wet, greenish gray, LEAN CLAY with SAND (CL, A-7-6(16)), LL=43 PL=23 PI=20 NMC=28.4 %#200=81.0		93.5	SS-21	12	12	17	29	
	-100.0									
100.0		Hard		98.5	SS-22	12	12	22	34	
	-105.0									
105.0		Very stiff		103.5	SS-23	10	11	16	27	
	-110.0									
110.0		Very stiff, wet, light brown, with few sand, LEAN CLAY (CL, A-4(5)), LL=23 PL=14 PI=9 NMC=22.2 %#200=88.1		108.5	SS-24	12	13	14	27	
	-115.0									
115.0		Very stiff, greenish gray		113.5	SS-25	11	14	14	28	
		Boring Terminated at 115.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-7.0	Very soft, wet, black, ELASTIC SILT with SAND (MH)	0.0	SS-1	0	0	0	0
		Very soft, wet, black, ELASTIC SILT with SAND (MH, A-7-5(42)), LL=86 PL=40 PI=46 NMC=97.2 %#200=79.4	1.5	SS-2	0	0	0	0
	-10.0	Very soft, wet, black, SANDY CLAY (CL)	3.0	SS-3	0	1	1	2
5.0			6.5	T-1				
	-15.0	Undisturbed sample could not be obtained from 6.5 to 8.5 feet. No Recovery.	8.5	SS-4	0	0	0	0
10.0		Very soft, wet, very dark gray						
	-20.0		13.5	SS-5	0	0	0	0
15.0		Very soft, dark gray						
	-25.0		18.5	SS-6	0	0	0	0
20.0		Very loose, wet, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.7 %#200=30.5						
	-30.0		23.5	SS-7	1	2	2	4
25.0		Loose						
	-35.0		28.5	SS-8	2	1	2	3
30.0		Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND (SP)						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-40.0	Medium dense, white		33.5	SS-9	6	6	7	13	
40.0	-45.0	Medium dense		38.5	SS-10	6	8	14	22	
45.0	-50.0	Medium dense, wet, white, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.5 %#200=4.3		43.5	SS-11	9	14	14	28	
50.0	-55.0	Dense		48.5	SS-12	11	14	20	34	
55.0	-60.0	Dense, wet, white, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM)		53.5	SS-13	11	17	20	37	
60.0	-65.0	Dense, wet, white, medium to fine grained, POORLY GRADED SAND with SILT (SP-SM, A-1-b(0)), LL=NP		58.5	SS-14	12	14	24	38	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0		PL=NP PI=NP NMC=19.2 %#200=5.2								
	-70.0									
		Dense, light gray		63.5	SS-15	11	17	18	35	
65.0										
	-75.0									
		Medium dense		68.5	SS-16	8	9	11	20	
70.0										
	-80.0									
		Soft, moist, gray, LEAN CLAY with SAND (CL)		73.5	SS-17	2	2	2	4	
75.0										
		Undisturbed sample obtained from 75.5 to 77.5 feet. Approximately 17 inches of recovery. Firm, moist, gray, LEAN CLAY with SAND (CL, A-6(7)), LL=32 PL=20 PI=12 NMC=32.6 %#200=70.7		75.5	T-2					
	-85.0									
		Firm		78.5	SS-18	1	3	2	5	
80.0										
	-90.0									
		Very dense, wet, gray, fine grained, with trace gravel, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=26.4 %#200=6.0		83.5	SS-19	17	24	28	52	
85.0										
	-95.0									
		Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-7-6(17)), LL=42 PL=20 PI=22		88.5	SS-20	9	12	16	28	
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0				90.5						
		NMC=22.4 %#200=78.5 Undisturbed sample could not be obtained from 90.5 to 92.5 feet. No Recovery.			T-3					
	-100.0									
		Very stiff		93.5	SS-21	12	14	16	30	●
95.0										
	-105.0									
		Hard, greenish gray and red		98.5	SS-22	12	16	20	36	●
100.0										
	-110.0									
		Hard, light gray		103.5	SS-23	11	22	32	54	●
105.0										
	-115.0									
		Hard, greenish gray		108.5	SS-24	10	31	24	55	●
110.0										
	-120.0									
		Very dense, moist, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=28.6 %#200=48.8		113.5	SS-25	15	28	28	56	○ ▲ ●
115.0										
	-125.0									
		Very dense, bluish gray and light brown, fine to medium grained, with trace organics		118.5	SS-26	28	36	37	73	●
120.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%)
120.0										10 20 30 40 50 60 70 80 90
125.0	-130.0	Very dense, wet, bluish gray, fine grained		123.5	SS-27	24	23	36	59	
130.0	-135.0	Very stiff, moist, light bluish gray, with trace gravel, LEAN CLAY with SAND (CL, A-6(12)), LL=35 PL=19 PI=16 NMC=20.7 %#200=81.6		128.5	SS-28	10	12	15	27	
135.0	-140.0	Hard		133.5	SS-29	12	12	25	37	
140.0	-145.0	Very dense, wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.1 %#200=31.1		138.5	SS-30	13	32	50	82	
145.0	-150.0	Very dense, gray		143.5	SS-31	50/5	X	X	100+	>>
150.0	-155.0	Very dense		148.5	SS-32	50/3	X	X	100+	>>

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-118	**Boring Location:**	918+31.1	**Offset:**	RT 07.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-7.0 ft.	**Northing:**	238521.777	**Easting:**	1836109.954	**Date Started:**	12/7/2015
Total Depth:	150.0 ft.	**Soil Depth:**	150.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	12/9/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 150.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-119	**Boring Location:**	921+42.3	**Offset:**	LT 09.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.0 ft.	**Northing:**	238520.612	**Easting:**	1836421.248	**Date Started:**	11/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very soft, wet, dark gray, FAT CLAY with SAND (CH)		0.0	SS-1	0	0	0	0
	-5.0	Very soft, No Recovery		1.5	SS-2	0	0	0	0
		Very soft		3.0	SS-3	0	0	0	0
5.0		Very soft, wet, dark gray, with trace gravel, FAT CLAY with SAND (CH, A-7-5(62)), LL=119 PL=39 PI=80 NMC=113.9 %#200=71.8		4.5	SS-4	0	0	0	0
	-10.0	Very soft, No Recovery		6.0	SS-5	0	0	0	0
		Very soft		8.5	SS-6	0	0	0	0
10.0									
	-15.0								
15.0		Undisturbed sample obtained from 13.5 to 15.5 feet. Approximately 22 inches of recovery. Very soft, moist, dark gray, with trace organics, SANDY CLAY (CL)		13.5	T-1				
	-20.0								
20.0		Undisturbed sample obtained from 18.5 to 20.5 feet. Approximately 24 inches of recovery. Very soft, moist, gray, SANDY LEAN CLAY (CL, A-6(12)), LL=37 PL=15 PI=22 NMC=54.3 %#200=66.5		18.5	T-2				
	-25.0								
		Very soft, wet, brown and gray		23.5	SS-7	0	0	1	1
25.0									
	-30.0								
30.0		Medium dense, wet, light brown, fine to medium grained, POORLY GRADED SAND with SILT		28.5	SS-8	6	7	10	17

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-119	**Boring Location:**	921+42.3	**Offset:**	LT 09.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.0 ft.	**Northing:**	238520.612	**Easting:**	1836421.248	**Date Started:**	11/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0		(SP-SM)							
	-35.0								
		Medium dense, white		33.5	SS-9	5	8	12	20
35.0									
	-40.0								
		Medium dense, wet, white, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=21.1 %#200=5.4		38.5	SS-10	9	9	15	24
40.0									
	-45.0								
		Medium dense		43.5	SS-11	6	11	12	23
45.0									
	-50.0								
		Dense, light brown		48.5	SS-12	12	13	18	31
50.0									
	-55.0								
		Dense		53.5	SS-13	19	20	22	42
55.0									
	-60.0								
		Dense, with trace gravel		58.5	SS-14	17	23	22	45
60.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-119	**Boring Location:**	921+42.3	**Offset:**	LT 09.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.0 ft.	**Northing:**	238520.612	**Easting:**	1836421.248	**Date Started:**	11/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
	-65.0									
65.0		Very dense, wet, white, fine to medium grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.0 %#200=18.8		63.5	SS-15	14	16	26	42	
	-70.0									
70.0		Medium dense		68.5	SS-16	9	10	10	20	
	-75.0									
75.0		Medium dense, gray, with trace gravel		73.5	SS-17	7	7	12	19	
	-80.0									
80.0		Medium dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=34.3 %#200=24.7		78.5	SS-18	4	13	16	29	
	-85.0									
85.0		Very dense, fine to medium grained		83.5	SS-19	20	31	45	76	
	-90.0									
90.0		Very dense		88.5	SS-20	27	50	50/5	100+	>>

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-119	**Boring Location:**	921+42.3	**Offset:**	LT 09.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.0 ft.	**Northing:**	238520.612	**Easting:**	1836421.248	**Date Started:**	11/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
	-95.0									
95.0		Hard, wet, greenish gray, with trace gravel, LEAN CLAY with SAND (CL, A-7-6(19)), LL=43 PL=17 PI=26 NMC=26.5 %#200=77.2		93.5	SS-21	13	17	21	38	
	-100.0									
100.0		Hard		98.5	SS-22	39	19	24	43	
	-105.0									
105.0		Hard, No Recovery		103.5	SS-23	6	14	17	31	
	-110.0									
110.0		Hard		108.5	SS-24	14	21	29	50	
	-115.0									
115.0		Hard, wet, greenish gray, LEAN CLAY with SAND (CL, A-6(14)), LL=34 PL=14 PI=20 NMC=22.3 %#200=79.0		113.5	SS-25	19	27	29	56	
	-120.0									
120.0		Hard		118.5	SS-26	15	15	16	31	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-119	**Boring Location:**	921+42.3	**Offset:**	LT 09.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-3.0 ft.	**Northing:**	238520.612	**Easting:**	1836421.248	**Date Started:**	11/13/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/17/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

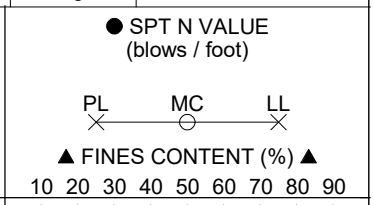
SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-120	**Boring Location:**	924+34.9	**Offset:**	LT 08.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.0 ft.	**Northing:**	238515.8831	**Easting:**	1836713.662	**Date Started:**	11/19/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/21/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
		Very loose, wet, brown, fine to medium grained, SILTY SAND (SM)		1.5	SS-2	0	0	0	0
	-5.0	Very soft, wet, brown, SANDY FAT CLAY (CH, A-7-5(30)), LL=79 PL=34 PI=45 NMC=88.5 %#200=65.8		3.0	SS-3	0	0	0	0
5.0		Very soft		4.5	SS-4	0	0	0	0
		Undisturbed sample obtained from 6.0 to 8.0 feet. Approximately 24 inches of recovery. Very soft, gray		6.0	T-1				
	-10.0	Very soft, dark gray		8.5	SS-5	0	0	0	0
10.0									
	-15.0	Very loose, wet, dark gray, fine to medium grained, SILTY SAND (SM)		13.5	SS-6	0	0	0	0
15.0									
	-20.0	Very loose, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=30.2		18.5	SS-7	0	0	0	0
20.0									
	-25.0	Very loose		23.5	SS-8	2	1	2	3
25.0									
	-30.0	Medium dense		28.5	SS-9	8	9	15	24
30.0									



LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-120	**Boring Location:**	924+34.9	**Offset:**	LT 08.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.0 ft.	**Northing:**	238515.8831	**Easting:**	1836713.662	**Date Started:**	11/19/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/21/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Dense, wet, light brown, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.7 %#200=23.1		33.5	SS-10	9	16	18	34	
40.0	-40.0	Medium dense		38.5	SS-11	9	7	8	15	
45.0	-45.0	Very soft, moist, gray, SANDY LEAN CLAY (CL)		43.5	SS-12	0	0	2	2	
		Undisturbed sample obtained from 45.5 to 47.5 feet. Approximately 24 inches of recovery. Wet, gray, pale brown and tan, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=27.4 %#200=1.3		45.5	T-2					
50.0	-50.0	Medium dense, wet, light brown, fine to medium grained		48.5	SS-13	11	7	5	12	
55.0	-55.0	Medium dense		53.5	SS-14	8	7	7	14	
60.0	-60.0	Loose, wet, light brown, medium to fine grained, with trace gravel, POORLY GRADED SAND with SILT		58.5	SS-15	5	4	6	10	

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-120	**Boring Location:**	924+34.9	**Offset:**	LT 08.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.0 ft.	**Northing:**	238515.8831	**Easting:**	1836713.662	**Date Started:**	11/19/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/21/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
60.0		(SP-SM, A-1-b(0)), LL=NP PL=NP PI=NP NMC=17.1 %#200=5.9							
65.0	-65.0	Medium dense, very dark gray, with trace organics		63.5	SS-16	7	6	8	14
70.0	-70.0	Medium dense, light gray		68.5	SS-17	14	10	18	28
75.0	-75.0	Dense, wet, gray, medium to fine grained, with trace gravel, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=21.6 %#200=18.7		73.5	SS-18	9	11	20	31
80.0	-80.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		78.5	SS-19	30	34	29	63
85.0	-85.0	Very dense, fine to medium grained		83.5	SS-20	31	50/5	X	50/5
90.0	-90.0	Very dense, wet, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP		88.5	SS-21	32	46	50/5	100+

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-120	**Boring Location:**	924+34.9	**Offset:**	LT 08.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.0 ft.	**Northing:**	238515.8831	**Easting:**	1836713.662	**Date Started:**	11/19/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/21/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0		PL=NP PI=NP NMC=21.2 %#200=10.0								
95.0	-95.0	Very dense		93.5	SS-22	50	X	X	100+	>>
100.0	-100.0	Very dense		98.5	SS-23	50/5	X	X	100+	>>
105.0	-105.0	Very stiff, moist, greenish gray, LEAN CLAY with SAND (CL, A-6(9)), LL=31 PL=17 PI=14 NMC=21.4 %#200=74.9		103.5	SS-24	9	10	12	22	
110.0	-110.0	Very stiff, moist, greenish gray, with little sand, LEAN CLAY (CL, A-6(18)), LL=39 PL=17 PI=22 NMC=19.9 %#200=86.5		108.5	SS-25	9	9	13	22	
115.0	-115.0	Hard, with trace mica		113.5	SS-26	12	14	20	34	
120.0	-120.0	Dense, moist, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		118.5	SS-27	14	14	24	38	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-120	**Boring Location:**	924+34.9	**Offset:**	LT 08.3	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-1.0 ft.	**Northing:**	238515.8831	**Easting:**	1836713.662	**Date Started:**	11/19/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/21/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		NMC=27.8 %#200=32.7 Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-121	**Boring Location:**	928+69.5	**Offset:**	RT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-0.5 ft.	**Northing:**	238456.443	**Easting:**	1837048.147	**Date Started:**	3/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/5/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery	0.0	SS-1	0	0	0	0
		Very loose, moist, dark gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=29.9 %#200=5.0	1.5	SS-2	0	1	1	2
		Very loose	3.0	SS-3	1	1	0	1
5.0	-5.0	Hammer strike from sample S-3 drove spoon an additional 1.5 feet. No sample obtained from 4.5 to 6.0 feet.	4.5	SS-4				
		Very loose	6.0	SS-5	0	0	0	0
			8.5	SS-6	0	0	0	0
10.0	-10.0	Very loose						
			13.5	SS-7	0	0	0	0
15.0	-15.0	Very loose						
			18.5	SS-8	0	0	0	0
20.0	-20.0	Very loose, wet, gray, fine grained, CLAYEY SAND (SC, A-4(0)), LL=23 PL=14 PI=9 NMC=34.5 %#200=36.6						
		Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery.	23.0	T-1				
25.0	-25.0	Moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.2 %#200=17.8						
			28.5	SS-9	3	5	4	9
30.0	-30.0	Loose, moist, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=22.7						

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-121	**Boring Location:**	928+69.5	**Offset:**	RT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-0.5 ft.	**Northing:**	238456.443	**Easting:**	1837048.147	**Date Started:**	3/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/5/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0		%#200=37.5								
35.0	-35.0	Very soft, moist, gray, LEAN CLAY (CL)		33.5	SS-10	3	1	1	2	●
40.0	-40.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery. Moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.9 %#200=21.2		38.0	T-2					× ▲ ○
45.0	-45.0	Medium dense, moist, tan, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=24.9 %#200=5.0		43.5	SS-11	5	7	5	12	× ▲ ● ○
50.0	-50.0	Medium dense		48.5	SS-12	4	5	9	14	●
55.0	-55.0	Medium dense		53.5	SS-13	4	6	7	13	●
60.0	-60.0	Very soft, moist, dark gray, FAT CLAY (CH)		58.5	SS-14	1	1	1	2	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-121	**Boring Location:**	928+69.5	**Offset:**	RT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-0.5 ft.	**Northing:**	238456.443	**Easting:**	1837048.147	**Date Started:**	3/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/5/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Undisturbed sample obtained from 63.0 to 65.0 feet. Approximately 24 inches of recovery. Firm, moist, dark gray, FAT CLAY (CH, A-7-6(53)), LL=72 PL=26 PI=46 NMC=52.0 %#200=99.2		63.0	T-3					
70.0	-70.0	Very soft, greenish gray		68.5	SS-15	0	0	0	0	
75.0	-75.0	Undisturbed sample obtained from 73.5 to 75.5 feet. Approximately 24 inches of recovery. Top of tube: Gray		73.5	T-4					
		Bottom of tube: Moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=22.1 %#200=26.1								
80.0	-80.0	Stiff, moist, light gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=65.1		78.5	SS-16	4	5	8	13	
85.0	-85.0	Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)		83.5	SS-17	26	50	X	50+	>>
90.0	-90.0	Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP		88.5	SS-18	12	27	40	67	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-121	**Boring Location:**	928+69.5	**Offset:**	RT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-0.5 ft.	**Northing:**	238456.443	**Easting:**	1837048.147	**Date Started:**	3/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/5/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
		PL=NP PI=NP NMC=23.4 %#200=9.9								
95.0	-95.0	Very dense, gray		93.5	SS-19	18	30	41	71	
100.0	-100.0	Very dense, light gray		98.5	SS-20	18	35	50/5	85+	>>
105.0	-105.0	Very dense, moist, light gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=22.5 %#200=6.4		103.5	SS-21	22	34	45	79	
110.0	-110.0	Very stiff, moist, greenish gray, LEAN CLAY (CH)		108.5	SS-22	8	12	15	27	
115.0	-115.0	Very stiff, moist, greenish gray, with few sand, LEAN CLAY (CH, A-7-6(29)), LL=46 PL=16 PI=30 NMC=18.0 %#200=92.2		113.5	SS-23	7	11	14	25	
120.0	-120.0	Very stiff, gray		118.5	SS-24	8	13	17	30	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-121	**Boring Location:**	928+69.5	**Offset:**	RT 05.8	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher
Elev.:	-0.5 ft.	**Northing:**	238456.443	**Easting:**	1837048.147	**Date Started:**	3/3/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	3/5/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	88%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-125.0	Hard		123.5	SS-25	8	12	20	32	●
130.0	-130.0	Very stiff		128.5	SS-26	7	10	13	23	●
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-122	**Boring Location:**	929+97.3	**Offset:**	LT 04.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.0 ft.	**Northing:**	238526.318	**Easting:**	1837275.507	**Date Started:**	7/26/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/7/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
5.0	-5.0	Very loose, wet, gray, fine to medium grained, POORLY GRADED SAND (SP)		5.0	SS-2	0	1	0	1
10.0	-10.0	Very soft, wet, dark gray, SANDY FAT CLAY (CH, A-7-6(19)), LL=54 PL=17 PI=37 NMC=56.8 %#200=60.7		10.0	SS-3	0	0	0	0
15.0	-15.0	Very soft		13.5	SS-4	0	0	0	0
20.0	-20.0	Undisturbed sample obtained from 18.0 to 20.0 feet. Approximately 12 inches of recovery. Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC, A-6(1)), LL=26 PL=14 PI=12 NMC=26.1 %#200=37.3		18.0	T-1				
25.0	-25.0	Very loose, gray, fine grained, SILTY SAND (SM)		23.5	SS-5	0	1	0	1
30.0	-30.0	Very loose, brown, fine to medium grained, with wood, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP		28.5	SS-6	1	1	1	2

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-122	**Boring Location:**	929+97.3	**Offset:**	LT 04.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.0 ft.	**Northing:**	238526.318	**Easting:**	1837275.507	**Date Started:**	7/26/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/7/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0		NMC=166.8 %#200=26.6								
	-35.0	Undisturbed sample could not be obtained from 33.0 to 35.0 feet. No Recovery.		33.0	T-2					
35.0		Very soft, moist, brown, with wood, LEAN CLAY (CL)		35.0	SS-7	0	0	0	0	●
	-40.0	Undisturbed sample obtained from 38.0 to 40.0 feet. Approximately 24 inches of recovery.		38.0	T-3					
40.0		Bottom of tube: Moist, light gray, fine to medium grained, POORLY GRADED SAND (SP)								
	-45.0	Medium dense, light gray and white		43.5	SS-8	9	9	6	15	●
45.0										
	-50.0	Loose, moist, light gray and white, fine to medium grained, POORLY GRADED SAND (SP, A-3(0)), LL=NP PL=NP PI=NP NMC=23.1 %#200=2.4		48.5	SS-9	4	4	5	9	▲ ● ○
50.0										
	-55.0	Dense		53.5	SS-10	16	22	20	42	●
55.0										
	-60.0	Medium dense, gray and white		58.5	SS-11	5	6	5	11	●
60.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-122	**Boring Location:**	929+97.3	**Offset:**	LT 04.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.0 ft.	**Northing:**	238526.318	**Easting:**	1837275.507	**Date Started:**	7/26/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/7/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0										
65.0	-65.0	Medium dense, gray		63.5	SS-12	6	9	13	22	
70.0	-70.0	Very soft, wet, gray, SANDY LEAN CLAY (CL, A-4(4)), LL=28 PL=18 PI=10 NMC=29.6 %#200=66.3		68.5	SS-13	0	0	0	0	
75.0	-75.0	Undisturbed sample obtained from 73.0 to 75.0 feet. Approximately 24 inches of recovery. Wet, dark gray, FAT CLAY (CH, A-7-6(50)), LL=69 PL=26 PI=43 NMC=51.0 %#200=99.8		73.0	T-4					
80.0	-80.0	Very soft, greenish gray		78.5	SS-14	0	0	0	0	
85.0	-85.0	Undisturbed sample obtained from 83.0 to 85.0 feet. Approximately 12 inches of recovery. Firm, wet, greenish gray, with trace sand, FAT CLAY (CH, A-7-6(50)), LL=71 PL=28 PI=43 NMC=59.4 %#200=97.5		83.0	T-5					
90.0	-90.0	Stiff, wet, gray, with few sand lenses, FAT CLAY (CH, A-7-6(33)), LL=54 PL=19 PI=35 NMC=33.9		88.5	SS-15	1	2	8	10	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-122	**Boring Location:**	929+97.3	**Offset:**	LT 04.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.0 ft.	**Northing:**	238526.318	**Easting:**	1837275.507	**Date Started:**	7/26/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/7/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0		%#200=87.6								
	-95.0	Undisturbed sample attempted at 93.0 feet and encountered refusal. No Recovery.		93.0	T-6					
95.0		Dense, moist, gray, fine to medium grained, with trace wood, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=24.0 %#200=36.1		95.0	SS-16	12	18	13	31	
	-100.0	Top of spoon: Hard, moist, gray, LEAN CLAY (CL)		98.5	SS-17	5	11	27	38	
100.0		Bottom of spoon: Dense, moist, gray, fine grained, POORLY GRADED SAND (SP)								
	-105.0	Undisturbed sample obtained from 83.0 to 85.0 feet. Approximately 12 inches of recovery. Moist, gray, LEAN CLAY (CL)		103.0	T-7					
105.0										
	-110.0	Very stiff, green		108.5	SS-18	8	10	12	22	
110.0										
	-115.0	Hard, moist, green, with little sand, LEAN CLAY (CL, A-7-6(21)), LL=43 PL=19 PI=24 NMC=22.3 %#200=85.3		113.5	SS-19	12	29	36	65	
115.0										
	-120.0	Very dense, moist, green, fine grained, SILTY SAND (SM)		118.5	SS-20	2	14	38	52	
120.0										

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-122	**Boring Location:**	929+97.3	**Offset:**	LT 04.4	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.0 ft.	**Northing:**	238526.318	**Easting:**	1837275.507	**Date Started:**	7/26/2017
Total Depth:	130.0 ft.	**Soil Depth:**	130.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/7/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0										
125.0	-125.0	Dense, moist, green, fine grained, with trace clay, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.0 %#200=26.0		123.5	SS-21	12	22	19	41	
130.0	-130.0	Top of spoon: Very dense Bottom of spoon: Hard, moist, green, FAT CLAY (CH)		128.5	SS-22	28	38	31	69	
		Boring Terminated at 130.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0		Very loose, No Recovery		0.0	SS-1	0	0	0	0
	-5.0								
5.0		Very loose, wet, pale brown, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=25.1 %#200=6.6		5.0	SS-2	1	1	1	2
	-10.0								
10.0		Very loose, wet, dark gray, fine grained, CLAYEY SAND (SC, A-2-4(0)), LL=22 PL=14 PI=8 NMC=28.5 %#200=33.8		10.0	SS-3	0	0	0	0
	-15.0	Undisturbed sample was attempted from 13.0 to 15.0 feet. No Recovery.		13.0	T-1				
15.0		Very loose, wet, pale brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.5 %#200=16.2		15.0	SS-4	0	0	0	0
	-20.0	Very loose, greenish gray		18.5	SS-5	0	2	1	3
20.0									
	-25.0	Undisturbed sample obtained from 23.0 to 25.0 feet. Approximately 24 inches of recovery. Loose, moist, light gray and yellowish brown, fine grained, CLAYEY SAND (SC, A-6(6)), LL=37 PL=15 PI=22 NMC=22.7 %#200=45.8		23.0	T-2				
25.0									
	-30.0	Firm, gray		28.5	SS-6	3	3	3	6
30.0									

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
30.0										
35.0	-35.0	Undisturbed sample obtained from 33.0 to 35.0 feet. Approximately 24 inches of recovery. Gray		33.0	T-3					
40.0	-40.0	Stiff, moist, green, fine grained, CLAYEY SAND (SC, A-6(1)), LL=27 PL=16 PI=11 NMC=21.9 %#200=40.6		38.5	SS-7	4	4	5	9	
45.0	-45.0	Undisturbed sample obtained from 43.0 to 45.0 feet. Approximately 24 inches of recovery. Moist, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=26.8 %#200=18.2		43.0	T-4					
50.0	-50.0	Stiff, moist, green, FAT CLAY (CH)		48.5	SS-8	5	6	6	12	
55.0	-55.0	Undisturbed sample was attempted from 53.0 to 55.0 feet. No Recovery.		53.0	T-5					
		Loose, moist, pale brown, fine grained, SILTY SAND (SM)		55.5	SS-9	4	3	3	6	
60.0	-60.0	Loose, moist, pale brown, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=28.7		58.5	SS-10	4	4	4	8	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0										
		%#200=34.0								
	-65.0									
		Loose		63.5	SS-11	4	3	3	6	●
65.0										
	-70.0			68.5						
		Stiff, moist, gray, SANDY LEAN CLAY (CL)			SS-12	6	6	9	15	●
70.0										
	-75.0			73.5						
		Medium dense, moist, dark gray, fine grained, SILTY SAND (SM)			SS-13	9	11	11	22	●
75.0										
	-80.0			78.5						
		Loose, moist, gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=25.7 %#200=38.4			SS-14	6	6	4	10	×●○▲
80.0										
	-85.0			83.5						
		Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM)			SS-15	24	26	30	56	●
85.0										
	-90.0			88.5						
		Very dense			SS-16	50/5	X	X	100+	>>●
90.0										

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
90.0										
95.0	-95.0	Very dense, moist, gray, fine grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.5 %#200=9.8		93.5	SS-17	21	49	50/5	100+	
100.0	-100.0	Very dense		98.5	SS-18	35	39	46	85	
105.0	-105.0	Very dense, moist, dark gray, fine to medium grained, POORLY GRADED SAND with SILT (SP-SM, A-3(0)), LL=NP PL=NP PI=NP NMC=23.6 %#200=5.4		103.5	SS-19	17	26	30	56	
110.0	-110.0	Very stiff, moist, green, SANDY LEAN CLAY (CL, A-6(9)), LL=34 PL=16 PI=18 NMC=22.1 %#200=66.4		108.5	SS-20	8	13	15	28	
115.0	-115.0	Undisturbed sample was attempted from 113.0 to 115.0 feet. No Recovery.		113.0	T-6					
		Very dense, moist, greenish gray, fine grained, SILTY SAND (SM)		115.0	SS-21	18	28	27	55	
120.0	-120.0	Dense		118.5	SS-22	12	18	19	37	

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

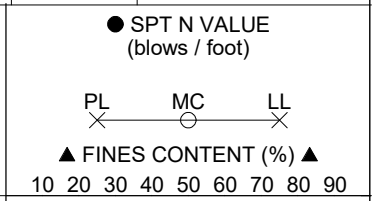
- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
120.0								
	-125.0	Hard, moist, green, with few sand, LEAN CLAY (CL, A-7-6(28)), LL=44 PL=15 PI=29 NMC=21.5 %#200=92.7	123.5	SS-23	45	32	44	76
125.0								
	-130.0	Undisturbed sample obtained from 128.0 to 130.0 feet. Approximately 24 inches of recovery. Hard, moist, green, with few sand, LEAN CLAY (CL, A-6(19)), LL=39 PL=18 PI=21 NMC=17.8 %#200=89.9	128.0	T-7				
130.0								
	-135.0	Very stiff, grayish blue	133.5	SS-24	9	8	9	17
135.0								
	-140.0	Hard, gray	138.5	SS-25	20	19	20	39
140.0								
	-145.0	Hard, wet, gray, with few sand, LEAN CLAY (CL, A-6(15)), LL=31 PL=13 PI=18 NMC=18.6 %#200=90.9	143.5	SS-26	8	15	16	31
145.0								
	-150.0	Hard	148.5	SS-27	23	25	33	58
150.0								



LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
150.0										
155.0	-155.0	Hard, moist, dark gray, trace wood		153.5	SS-28	11	14	19	33	
160.0	-160.0	Dense, moist, dark gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=29.0 %#200=35.7		158.5	SS-29	7	14	33	47	
165.0	-165.0	Medium dense		163.5	SS-30	10	10	18	28	
170.0	-170.0	Dense		168.5	SS-31	14	25	25	50	
175.0	-175.0	Very dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.9 %#200=29.1		173.5	SS-32	11	29	28	57	
180.0	-180.0	Very dense, wet, dark gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=25.7		178.5	SS-33	30	45	37	82	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-123	**Boring Location:**	933+74.3	**Offset:**	LT 08.1	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	C.Tisher/S.Howard
Elev.:	-1.5 ft.	**Northing:**	238555.236	**Easting:**	1837651.196	**Date Started:**	8/7/2017
Total Depth:	180.0 ft.	**Soil Depth:**	180.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	8/10/2017
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 550X	**Drill Method:**	MR	**Hammer Type:**	Automatic	**Energy Ratio:**	90%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		%#200=16.2 Boring Terminated at 180.0 feet.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-126	**Boring Location:**	942+39.1	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-5.0 ft.	**Northing:**	238654.7142	**Easting:**	1838509.641	**Date Started:**	11/6/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	-5.0	Very soft, wet, dark gray, SANDY LEAN CLAY (CL)	0.0	SS-1	0	0	0	0
		Spoon fell 3.0 feet when sampling. Undisturbed sample obtained from 0.0 to 2.0 feet, offset from the original boring to the side of the barge. Approximately 24 inches of recovery. Top of tube: Muck	1.5	SS-2				
			3.0	SS-3	4	4	8	12
5.0	-10.0	Bottom of tube: POORLY GRADED SAND (SP) Medium dense, wet, light brown, medium to fine grained, with trace gravel, POORLY GRADED SAND (SP, A-1-b(0)), LL=NP PL=NP PI=NP NMC=20.4 %#200=4.7	4.5	SS-4	4	4	5	9
			6.0	SS-5	4	4	3	7
		Loose, medium to coarse grained, brown						
		Loose, coarse grained	8.5	SS-6	4	2	2	4
10.0	-15.0	Very loose, medium to coarse grained						
			13.5	SS-7	5	4	5	9
15.0	-20.0	Loose, moist, red, brown and gray, fine grained, CLAYEY SAND (SC)	15.5	T-2				
		Undisturbed sample obtained from 15.5 to 17.5 feet. Approximately 24 inches of recovery. Loose, moist, red and brown, fine grained, CLAYEY SAND (SC, A-6(4)), LL=32 PL=15 PI=17 NMC=24.4 %#200=47.4						
		Stiff, moist, red and brown, LEAN CLAY with SAND (CL)	18.5	SS-8	3	3	4	7
20.0	-25.0							
			23.5	SS-9	4	5	6	11
25.0	-30.0	Stiff, gray and brown	25.5	T-3				
		Undisturbed sample obtained from 25.5 to 27.5 feet. Approximately 24 inches of recovery. Stiff, moist, gray and brown, SANDY LEAN CLAY (CL, A-6(4)), LL=29 PL=15 PI=14 NMC=22.7 %#200=50.9						
		Stiff, moist, gray	28.5	SS-10	3	5	5	10
30.0	-35.0							

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-126	**Boring Location:**	942+39.1	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-5.0 ft.	**Northing:**	238654.7142	**Easting:**	1838509.641	**Date Started:**	11/6/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
30.0	-35.0									
		Loose, moist, gray, fine grained, CLAYEY SAND (SC)		33.5	SS-11	4	2	5	7	●
35.0	-40.0									
		Medium dense, greenish gray		38.5	SS-12	8	9	10	19	●
40.0	-45.0									
		Medium dense, wet, gray		43.5	SS-13	12	14	15	29	●
45.0	-50.0									
		Medium dense, moist, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.5 %#200=34.9		48.5	SS-14	7	8	12	20	×, ●, ○, ▲
50.0	-55.0									
		Medium dense, wet		53.5	SS-15	5	4	7	11	●
55.0	-60.0									
		Medium dense		58.5	SS-16	4	5	7	12	●
60.0	-65.0									

LEGEND

SAMPLER TYPE

- SS - Split Spoon
- T - Shelby Tube
- DCP - Dynamic Cone Penetrometer
- AC - Auger Cuttings
- GB - Grab Bag
- NQ - Rock Core

DRILLING METHOD

- HSA - Hollow Stem Augers
- SSA - Solid Stem Augers
- HA - Hand Auger
- MR - Mud Rotary Wash
- RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-126	**Boring Location:**	942+39.1	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-5.0 ft.	**Northing:**	238654.7142	**Easting:**	1838509.641	**Date Started:**	11/6/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
60.0	-65.0									
				63.5						
65.0	-70.0	Medium dense			SS-17	8	8	8	16	●
				68.5						
70.0	-75.0	Medium dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-4(0)), LL=NP PL=NP PI=NP NMC=25.0 %#200=40.7			SS-18	9	9	12	21	●○ ▲
				73.5						
75.0	-80.0	Medium dense, gray			SS-19	12	11	12	23	●
				78.5						
80.0	-85.0	Medium dense			SS-20	11	10	13	23	●
				83.5						
85.0	-90.0	Medium dense			SS-21	5	5	7	12	●
				88.5						
90.0	-95.0	Medium dense			SS-22	7	7	9	16	●

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-126	**Boring Location:**	942+39.1	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-5.0 ft.	**Northing:**	238654.7142	**Easting:**	1838509.641	**Date Started:**	11/6/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-95.0								
95.0	-100.0	Hard, moist, greenish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=37.4 %#200=62.9		93.5	SS-23	14	17	28	45
100.0	-105.0	Very stiff, moist, greenish gray, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=31.4 %#200=69.7		98.5	SS-24	10	11	15	26
105.0	-110.0	Hard, moist greenish gray, LEAN CLAY with SAND (CL)		103.5	SS-25	13	16	22	38
110.0	-115.0	Dense, wet, greenish gray, fine grained, SILTY SAND (SM)		108.5	SS-26	6	14	19	33
115.0	-120.0	Very dense		113.5	SS-27	27	50/4	X	50/4
120.0	-125.0	Very dense, gray		118.5	SS-28	18	30	50/5	100+

● SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-126	**Boring Location:**	942+39.1	**Offset:**	LT 02.9	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	-5.0 ft.	**Northing:**	238654.7142	**Easting:**	1838509.641	**Date Started:**	11/6/2015
Total Depth:	120.0 ft.	**Soil Depth:**	120.0 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/12/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
		Boring Terminated at 120.0 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-127	**Boring Location:**	944+16.6	**Offset:**	LT 20.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.0 ft.	**Northing:**	238697.723	**Easting:**	1838682.742	**Date Started:**	11/4/2015
Total Depth:	120.5 ft.	**Soil Depth:**	120.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
0.0	0.0	Very loose, wet, very dark brown, fine to medium grained, SILTY SAND (SM)		0.0	SS-1	0	0	0	0
		Very loose, very dark gray		1.5	SS-2	1	1	1	2
		Loose, gray		3.0	SS-3	2	3	6	9
5.0	-5.0	Medium dense, wet, gray, fine to medium grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=19.0 %#200=18.1		4.5	SS-4	5	5	8	13
		Medium dense, brown, fine to coarse grained		6.0	SS-5	5	5	8	13
				8.5					
10.0	-10.0	Medium dense, wet, brown, fine to medium grained, POORLY GRADED SAND (SP)			SS-6	6	6	10	16
15.0	-15.0	Very stiff, moist, red and brown, SANDY SILT (ML)		14.0	SS-7	4	12	11	23
20.0	-20.0	Stiff, moist, red and light brown		19.0	SS-8	3	3	4	7
25.0	-25.0	Stiff, moist, red and light brown, SANDY SILT (ML, A-4(0)), LL=NP PL=NP PI=NP NMC=26.1 %#200=51.6		24.0	SS-9	3	4	6	10
30.0	-30.0	Stiff, gray		29.0	SS-10	4	5	6	11

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

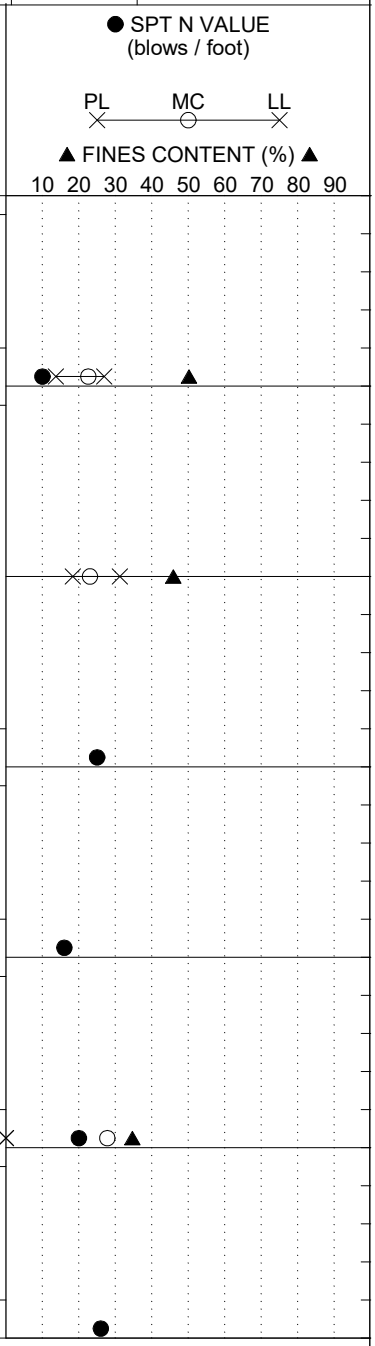
HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-127	**Boring Location:**	944+16.6	**Offset:**	LT 20.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.0 ft.	**Northing:**	238697.723	**Easting:**	1838682.742	**Date Started:**	11/4/2015
Total Depth:	120.5 ft.	**Soil Depth:**	120.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
30.0	-30.0								
35.0	-35.0	Stiff, moist, gray, SANDY LEAN CLAY (CL, A-6(3)), LL=27 PL=14 PI=13 NMC=22.6 %#200=50.2		34.0	SS-11	4	4	6	10
40.0	-40.0	Undisturbed sample obtained from 39.0 to 41.0 feet. Approximately 24 inches of recovery. Very loose, moist, gray, fine grained, with few gravel, CLAYEY SAND (SC, A-6(3)), LL=31 PL=18 PI=13 NMC=23.1 %#200=45.9		39.0	T-1				
45.0	-45.0	Medium dense, greenish gray		44.0	SS-12	9	12	13	25
50.0	-50.0	Medium dense		49.0	SS-13	7	8	8	16
55.0	-55.0	Medium dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=27.8 %#200=34.7		54.0	SS-14	10	10	10	20
60.0	-60.0	Medium dense, moist		59.0	SS-15	7	10	16	26



LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-127	**Boring Location:**	944+16.6	**Offset:**	LT 20.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.0 ft.	**Northing:**	238697.723	**Easting:**	1838682.742	**Date Started:**	11/4/2015
Total Depth:	120.5 ft.	**Soil Depth:**	120.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	SPT N VALUE (blows / foot) / PL MC LL / FINES CONTENT (%) 10 20 30 40 50 60 70 80 90
60.0	-60.0									
65.0	-65.0	Medium dense, wet, gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=29.7 %#200=23.9		64.0	SS-16	6	7	8	15	
70.0	-70.0	Medium dense		69.0	SS-17	6	6	7	13	
75.0	-75.0	Very stiff, moist, gray, SANDY LEAN CLAY (CL)		74.0	SS-18	10	11	16	27	
80.0	-80.0	Undisturbed sample obtained from 79.0 to 81.0 feet. Approximately 13.5 inches of recovery. Moist, greenish gray, fine grained, SILTY SAND (SM)		79.0	T-2					
85.0	-85.0	Medium dense, wet		84.0	SS-19	11	12	15	27	
90.0	-90.0	Medium dense, gray		89.0	SS-20	4	9	10	19	

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

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RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-127	**Boring Location:**	944+16.6	**Offset:**	LT 20.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.0 ft.	**Northing:**	238697.723	**Easting:**	1838682.742	**Date Started:**	11/4/2015
Total Depth:	120.5 ft.	**Soil Depth:**	120.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**		AASHTO T206 & T207			
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)
90.0	-90.0								
95.0	-95.0	Medium dense		94.0	SS-21	6	9	14	23
100.0	-100.0	Dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=20.4 %#200=33.9		99.0	SS-22	10	18	18	36
105.0	-105.0	Hard, moist, greenish gray, LEAN CLAY with SAND (CL, A-6(11)), LL=34 PL=18 PI=16 NMC=27.2 %#200=79.3		104.0	SS-23	10	13	20	33
110.0	-110.0	Very dense, wet, greenish gray, fine grained, SILTY SAND (SM, A-2-4(0)), LL=NP PL=NP PI=NP NMC=30.6 %#200=12.9		109.0	SS-24	13	33	47	80
115.0	-115.0	Very dense, moist		114.0	SS-25	1	21	39	60
120.0	-120.0	Very dense, wet		119.0	SS-26	44	50/5	X	50+

SPT N VALUE (blows / foot)

PL MC LL

▲ FINES CONTENT (%) ▲

10 20 30 40 50 60 70 80 90

>>

LEGEND

SAMPLER TYPE

SS - Split Spoon
T - Shelby Tube
DCP - Dynamic Cone Penetrometer
AC - Auger Cuttings
GB - Grab Bag
NQ - Rock Core

DRILLING METHOD

HSA - Hollow Stem Augers
SSA - Solid Stem Augers
HA - Hand Auger
MR - Mud Rotary Wash
RC - Rock Coring

thompson ENGINEERING

RECORD OF TEST BORING

Site Description:	I-10 Mobile River Bridge and Bayway					**County:**	Mobile
Boring No.:	BW-127	**Boring Location:**	944+16.6	**Offset:**	LT 20.2	**Alignment:**	I-10 Bayway
ALDOT PE No.:	DPI-0030(005)	**TE Project No.:**	15-1101-0228			**Eng./Geo.:**	Justin Fancher
Elev.:	0.0 ft.	**Northing:**	238697.723	**Easting:**	1838682.742	**Date Started:**	11/4/2015
Total Depth:	120.5 ft.	**Soil Depth:**	120.5 ft.	**Core Depth:**	0.0 ft.	**Date Completed:**	11/6/2015
Bore Hole Diameter (in):	4-inch	**AASHTO / ASTM Sampling Methods:**	AASHTO T206 & T207				
Drill Machine:	CME 45C	**Drill Method:**	MR	**Hammer Type:**	Manual	**Energy Ratio:**	86%
Core Size:	N/A	**Driller:**	Thompson Eng	**Groundwater:**	**TOB** 0.0 ft.	**Delayed:**	0.0 ft.

Depth (ft)	Elevation (ft)	MATERIAL DESCRIPTION	Graphic Log	Sample Depth (ft.)	Sample No./Type	1st 6"	2nd 6"	3rd 6"	N Value (Field)	● SPT N VALUE (blows / foot) PL MC LL ▲ FINES CONTENT (%) ▲ 10 20 30 40 50 60 70 80 90
120.0	-120.0									
		Boring Terminated at 120.5 ft.								

LEGEND

SAMPLER TYPE		DRILLING METHOD	
SS - Split Spoon	AC - Auger Cuttings	HSA - Hollow Stem Augers	MR - Mud Rotary Wash
T - Shelby Tube	GB - Grab Bag	SSA - Solid Stem Augers	RC - Rock Coring
DCP - Dynamic Cone Penetrometer	NQ - Rock Core	HA - Hand Auger	

KEY TO SYMBOLS

Thompson Engineering, Inc

PROJECT NAME I-10 Mobile River Bridge and Bayway **CLIENT** ALDOT

ALDOT PROJECT NO: DPI-0030(005) **TE PROJECT NO:** 15-1101-0228 **PROJECT LOCATION** Baldwin, Baldwin

LITHOLOGIC SYMBOLS


ASPHALT: Asphalt


AUGER


CH: USCS High Plasticity Clay


CL: USCS Low Plasticity Clay


CL-ML: USCS Low Plasticity Silty Clay


CONCRETE: Concrete


GM: USCS Silty Gravel


GP: USCS Poorly-graded Gravel


GP-GM: USCS Poorly-graded Gravel with Silt


GW: USCS Well-graded Gravel


MH: USCS Elastic Silt


ML: USCS Silt


SC: USCS Clayey Sand


SC-SM: USCS Clayey Sand


SM: USCS Silty Sand


SP: USCS Poorly-graded Sand

SAMPLER TYPE

SS - Split Spoon

T - Shelby Tube

DCP - Dynamic Cone Penetrometer

AC - Auger Cuttings

GB - Grab Bag

NQ - Rock Core

GROUNDWATER LEGEND

▽ Delayed Groundwater Level

▼ Groundwater Level at TOB (Time of Boring). Water levels at the time of boring may have not been obtained due to mud rotary drilling techniques.

N.E. - Not Encountered

N.O. - Not Obtained

ABBREVIATIONS

LL	- LIQUID LIMIT (%)
PL	- PLASTIC LIMIT (%)
PI	- PLASTIC INDEX (%)
NMC	- MOISTURE CONTENT (%)
DD	- DRY DENSITY (PCF)
NP	- NON PLASTIC
%#200	- PERCENT PASSING NO. 200 SIEVE
PP	- POCKET PENETROMETER (TSF)
TV	- TORVANE
UC	- UNCONFINED COMPRESSION

ALDOT MRB LEGEND - GINT STD US LAB.GDT - 11/16/17 10:42 - L:\GINT PROJECTS\2015\15-1101-0228 ALDOT MRB INITIAL GEOTECHNICAL\15-1101-0228 ALDOT MRB INITIAL GEOTECHNICAL.GPJ

APPENDIX C

- **Laboratory Summary**
- **BMT-5's**
- **Consolidated Undrained (C.U.) Triaxial Shear Tests**
- **Unconsolidated Undrained (U.U.) Triaxial Shear Test Results**
- **Direct Shear Tests**
- **One Dimensional Consolidation Tests**
- **Motorized Vane Shear Test Results**

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
571+16.7 RT 58.3	BW-03	SS-5	6.0	165.2	159	51	108	0.0	2.1	41.1	56.8	0.0032	CH	A-7-5(131)
571+16.7 RT 58.3	BW-03	SS-8	23.5	45.0	NP	NP	NP	0.0	41.3	32.8	25.9	0.0531	ML	A-4(0)
571+16.7 RT 58.3	BW-03	T-2	28.5	32.0	NP	NP	NP	0.0	88.1	11.9		0.2191	SP-SM	A-2-4(0)
571+16.7 RT 58.3	BW-03	SS-10	48.5	26.4	NP	NP	NP	0.8	96.9	2.3		0.3118	SP	A-3(0)
571+16.7 RT 58.3	BW-03	SS-14	68.5	17.9	NP	NP	NP	6.3	89.0	4.7		0.5460	SP	A-1-b(0)
571+16.7 RT 58.3	BW-03	SS-17	83.5	17.2	NP	NP	NP	2.0	94.5	3.5		0.6533	SP	A-1-b(0)
571+16.7 RT 58.3	BW-03	SS-22	108.5	23.6	NP	NP	NP	1.5	95.5	2.9		0.4204	SP	A-3(0)
571+16.7 RT 58.3	BW-03	SS-25	123.5	23.0	62	14	48	0.0	5.0	95.0			CH	A-7-6(49)
571+16.7 RT 58.3	BW-03	SS-28	138.5	26.5	31	20	11	0.0	44.3	55.7			CL	A-6(4)
571+16.7 RT 58.3	BW-03	SS-31	153.5	29.0	NP	NP	NP	5.5	44.1	50.4			ML	A-4(0)
571+16.7 RT 58.3	BW-03	SS-34	168.5	23.1	NP	NP	NP	2.1	79.8	18.1		0.1807	SM	A-2-4(0)
571+16.7 RT 58.3	BW-03	SS-38	188.5	17.2	54	15	39	0.0	13.9	86.1			CH	A-7-6(34)
571+16.7 RT 58.3	BW-03	SS-40	198.5	25.4	32	18	14	0.0	23.0	77.0			CL	A-6(9)
571+16.7 RT 58.3	BW-03	SS-43	228.5	17.3	30	12	18	0.0	31.0	69.0			CL	A-6(9)
571+16.7 RT 58.3	BW-03	SS-44	238.5	19.6	25	13	12	0.4	45.8	53.8			CL	A-6(3)
575+29.0 RT 26.8	BW-04	SS-2	1.5	209.0	174	54	120	0.0	1.5	22.7	75.8		CH	A-7-5(146)
575+29.0 RT 26.8	BW-04	SS-6	8.5	31.5	NP	NP	NP	0.0	41.1	42.2	16.7	0.0576	ML	A-4(0)
575+29.0 RT 26.8	BW-04	T-1	18.0	51.6	63	18	45	0.0	30.5	69.5			CH	A-7-6(30)
575+29.0 RT 26.8	BW-04	SS-8	23.5	38.2	46	18	28	0.0	51.3	16.1	32.6	0.0799	SC	A-7-6(9)
575+29.0 RT 26.8	BW-04	T-2	28.0	29.6	65	21	44	0.0	21.7	78.3			CH	A-7-6(35)
575+29.0 RT 26.8	BW-04	SS-10	38.5	25.1	NP	NP	NP	0.8	95.0	0.6	3.6	0.2427	SP	A-3(0)
575+29.0 RT 26.8	BW-04	SS-13	53.5	21.7	NP	NP	NP	0.0	96.6	3.4		0.3517	SP	A-3(0)
575+29.0 RT 26.8	BW-04	SS-26	118.5	16.8	NP	NP	NP	6.0	89.6	4.3		0.4975	SP	A-1-b(0)
575+29.0 RT 26.8	BW-04	SS-27	123.5	22.0	33	17	16	0.0	7.3	92.7			CL	A-6(14)
575+29.0 RT 26.8	BW-04	T-3	128.0	29.8	32	13	19	0.0	25.4	74.6			CL	A-6(12)
575+29.0 RT 26.8	BW-04	SS-30	143.5	27.5	34	18	16	0.0	26.2	73.8			CL	A-6(10)
575+29.0 RT 26.8	BW-04	SS-32	153.5	27.6	65	20	45	0.0	22.7	77.3			CH	A-7-6(35)
575+29.0 RT 26.8	BW-04	SS-35	168.5	24.5	NP	NP	NP	0.0	83.6	16.4		0.1704	SM	A-2-4(0)
578+17.9 RT 39.4	BW-05	SS-5	6.0	121.0	74	31	43	0.0	34.9	29.0	36.1	0.0286	CH	A-7-5(28)
578+17.9 RT 39.4	BW-05	SS-9	28.5	26.1	77	20	57	0.0	36.1	15.1	48.8	0.0063	CH	A-7-6(34)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
578+17.9 RT 39.4	BW-05	SS-11	38.5	23.8	NP	NP	NP	0.1	96.2	3.7		0.3137	SP	A-3(0)
578+17.9 RT 39.4	BW-05	SS-15	58.5	19.9	NP	NP	NP	1.2	96.9	1.9		0.7136	SP	A-1-b(0)
578+17.9 RT 39.4	BW-05	SS-19	78.5	18.0	NP	NP	NP	0.4	98.2	1.3		0.5433	SP	A-1-b(0)
578+17.9 RT 39.4	BW-05	SS-29	128.5	21.1	NP	NP	NP	0.4	95.7	4.0		0.3723	SP	A-3(0)
578+17.9 RT 39.4	BW-05	SS-32	143.5	23.5	53	16	37	0.0	4.4	95.6			CH	A-7-6(38)
578+17.9 RT 39.4	BW-05	SS-33	148.5	21.8	48	18	30	0.1	3.3	96.5			CL	A-7-6(31)
578+17.9 RT 39.4	BW-05	SS-36	163.5	23.8	NP	NP	NP	0.0	90.3	9.7		0.2654	SP-SM	A-3(0)
578+17.9 RT 39.4	BW-05	SS-37	168.5	21.8	38	13	25	0.0	9.3	90.7			CL	A-6(22)
578+17.9 RT 39.4	BW-05	SS-38	173.5	20.1	37	20	17	0.0	45.2	54.8			CL	A-6(7)
581+04.6 LT 10.9	BW-06	SS-4	4.5	230.1	83	42	41	0.0	27.9	72.1			MH	A-7-5(33)
581+04.6 LT 10.9	BW-06	SS-7	18.5	73.5	52	22	30	0.3	18.7	81.0			CH	A-7-6(25)
581+04.6 LT 10.9	BW-06	T-3	33.5	3.3	53	18	35	0.0	55.8	44.2		0.2060	SC	A-7-6(10)
581+04.6 LT 10.9	BW-06	SS-11	48.5	26.0	NP	NP	NP	1.0	96.1	2.9		0.2891	SP	A-3(0)
581+04.6 LT 10.9	BW-06	SS-20	93.5	19.2	NP	NP	NP	6.3	91.5	2.2		0.7227	SP	A-1-b(0)
581+04.6 LT 10.9	BW-06	SS-24	113.5	20.7	NP	NP	NP	12.0	86.0	2.1		0.4839	SP	A-1-b(0)
581+04.6 LT 10.9	BW-06	SS-25	118.5	20.0	NP	NP	NP	5.0	91.6	3.4		0.4357	SP	A-1-b(0)
581+04.6 LT 10.9	BW-06	SS-27	128.5	26.7	28	18	10	0.0	14.4	85.6			CL	A-4(7)
581+04.6 LT 10.9	BW-06	SS-30	143.5	19.8	23	16	7	0.0	39.0	61.0			CL-ML	A-4(2)
581+04.6 LT 10.9	BW-06	SS-33	158.5	21.2	47	15	32	0.0	6.3	93.7			CL	A-7-6(31)
581+04.6 LT 10.9	BW-06	SS-35	168.5	18.2	37	17	20	0.0	45.7	54.3			CL	A-6(7)
584+20.7 RT 56.6	BW-07	SS-5	6.0	192.9	82	44	38	0.0	3.4	27.6	68.9	0.0016	MH	A-7-5(48)
584+20.7 RT 56.6	BW-07	T-1	13.5	143.2	129	41	88	0.0	4.0	96.0			CH	A-7-5(103)
584+20.7 RT 56.6	BW-07	SS-7	18.5	107.9	71	32	39	0.0	5.7	27.6	66.7	0.0013	CH	A-7-5(44)
584+20.7 RT 56.6	BW-07	T-2	23.5	44.0	40	19	21	0.0	36.3	63.7			CL	A-6(11)
584+20.7 RT 56.6	BW-07	T-3	33.5	147.7	212	83	129	0.0	3.2	96.8			MH	A-7-5(163)
584+20.7 RT 56.6	BW-07	SS-12	53.5	23.1	NP	NP	NP	3.1	92.2	4.7		0.4902	SP	A-1-b(0)
584+20.7 RT 56.6	BW-07	SS-15	68.5	18.2	NP	NP	NP	2.6	89.3	8.1		0.7136	SW-SM	A-1-b(0)
584+20.7 RT 56.6	BW-07	SS-19	88.5	30.5	NP	NP	NP	0.0	88.0	12.0		0.1692	SP-SM	A-2-4(0)
584+20.7 RT 56.6	BW-07	SS-22	103.5	21.7	NP	NP	NP	1.7	92.2	6.2		0.3595	SP-SM	A-3(0)
584+20.7 RT 56.6	BW-07	SS-27	128.5	28.3	73	22	51	0.0	8.1	91.9			CH	A-7-6(52)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
584+20.7 RT 56.6	BW-07	SS-29	138.5	32.2	36	19	17	0.2	13.0	86.8			CL	A-6(14)
584+20.7 RT 56.6	BW-07	SS-33	158.5	22.8	58	17	41	0.0	5.0	95.0			CH	A-7-6(42)
584+20.7 RT 56.6	BW-07	SS-35	168.5	20.6	44	14	30	0.0	36.3	63.7			CL	A-7-6(16)
587+87.1 RT 0.5	BW-08	SS-4	4.5	240.1	85	42	43	0.0	1.9	31.9	66.2	0.0017	MH	A-7-5(54)
587+87.1 RT 0.5	BW-08	SS-7	18.5	45.1	37	20	17	0.0	7.5	42.6	49.9	0.0051	CL	A-6(16)
587+87.1 RT 0.5	BW-08	SS-9	38.5	78.8	68	30	38	0.0	2.9	41.0	56.0	0.0029	CH	A-7-5(44)
587+87.1 RT 0.5	BW-08	T-4	43.5	252.9	NP	NP	NP	0.0	67.8	32.2		0.4298	SM	A-2-4(0)
587+87.1 RT 0.5	BW-08	SS-20	98.5	28.6	NP	NP	NP	0.0	94.8	5.2		0.2537	SP-SM	A-3(0)
587+87.1 RT 0.5	BW-08	SS-28	138.5	21.8	28	13	15	0.0	26.5	73.5			CL	A-6(8)
587+87.1 RT 0.5	BW-08	SS-31	153.5	19.0	33	17	16	0.0	26.6	73.4			CL	A-6(10)
587+87.1 RT 0.5	BW-08	SS-35	173.5	18.8	28	17	11	0.0	47.7	52.3			CL	A-6(3)
587+87.1 RT 0.5	BW-08	SS-36	178.5	18.5	34	14	20	0.0	32.1	67.9			CL	A-6(11)
587+87.1 RT 0.5	BW-08	SS-39	193.5	18.7	48	13	35	0.0	18.4	81.6			CL	A-7-6(28)
587+87.1 RT 0.5	BW-08	SS-43	228.5	21.4	29	14	15	0.0	34.2	65.8			CL	A-6(7)
590+06.9 RT 23.5	BW-09	SS-3	3.0	235.7	180	52	128	0.0	13.5	86.5			CH	A-7-5(130)
590+06.9 RT 23.5	BW-09	SS-6	8.5	116.8	125	36	89	0.0	1.8	98.2			CH	A-7-5(105)
590+06.9 RT 23.5	BW-09	T-1	23.0	39.5	50	18	32	0.0	44.4	26.0	29.6	0.0414	CH	A-7-6(14)
590+06.9 RT 23.5	BW-09	T-2	33.0	25.5	NP	NP	NP	0.0	79.8	3.1	17.1	0.2779	SM	A-2-4(0)
590+06.9 RT 23.5	BW-09	SS-12	48.5	21.3	NP	NP	NP	1.3	84.6	14.2		0.2656	SM	A-2-4(0)
590+06.9 RT 23.5	BW-09	SS-14	58.5	19.6	NP	NP	NP	4.1	92.2	3.7		0.5600	SP	A-1-b(0)
590+06.9 RT 23.5	BW-09	SS-19	83.5	35.3	NP	NP	NP	0.1	88.2	11.7		0.1827	SP-SM	A-2-4(0)
590+06.9 RT 23.5	BW-09	SS-21	93.5	33.0	NP	NP	NP	0.0	93.4	6.6		0.1890	SP-SM	A-3(0)
590+06.9 RT 23.5	BW-09	SS-24	108.5	25.6	NP	NP	NP	0.0	92.9	7.1		0.2450	SP-SM	A-3(0)
590+06.9 RT 23.5	BW-09	SS-26	118.5	20.6	42	13	29			79.3			CL	A-7-6(21)
590+06.9 RT 23.5	BW-09	SS-28	128.5	32.3	NP	NP	NP	0.0	31.8	68.2			ML	A-4(0)
590+06.9 RT 23.5	BW-09	SS-31	143.5	25.8	NP	NP	NP	0.0	78.8	21.2		0.1629	SM	A-2-4(0)
590+06.9 RT 23.5	BW-09	SS-33	153.5	22.2	38	12	26	0.0	50.5	49.5		0.0765	SC	A-6(8)
590+06.9 RT 23.5	BW-09	SS-37	173.5	18.0	28	15	13	0.0	43.4	56.6			CL	A-6(4)
593+02.4 RT 01.2	BW-10	SS-4	4.5	189.1	184	44	140	0.0	9.9	90.1			CH	A-7-5(148)
593+02.4 RT 01.2	BW-10	T-1	13.0	119.0	125	40	85	0.0	1.0	24.6	74.4		CH	A-7-5(103)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
593+02.4 RT 01.2	BW-10	T-2	23.0	113.0	109	36	73	0.0	2.9	23.3	73.8	0.0013	CH	A-7-5(85)
593+02.4 RT 01.2	BW-10	T-3	33.0	31.5	28	12	16	0.0	63.8	36.2		0.1587	SC	A-6(1)
593+02.4 RT 01.2	BW-10	SS-11	48.5	24.3	NP	NP	NP	0.3	94.6	5.1		0.3622	SP-SM	A-3(0)
593+02.4 RT 01.2	BW-10	SS-14	63.5	19.2	NP	NP	NP	9.5	86.8	3.7		0.5258	SP	A-1-b(0)
593+02.4 RT 01.2	BW-10	SS-16	78.5	21.6	NP	NP	NP	0.0	96.5	3.5		0.3374	SP	A-3(0)
593+02.4 RT 01.2	BW-10	T-5	88.0	17.7	40	14	26	0.0	30.3	69.7			CL	A-6(16)
593+02.4 RT 01.2	BW-10	T-6	98.0	28.0	NP	NP	NP	0.4	87.9	11.7		0.1192	SP-SM	A-2-4(0)
593+02.4 RT 01.2	BW-10	T-7	110.0	22.2	47	19	28	0.0	6.7	38.5	54.8	0.0037	CL	A-7-6(28)
593+02.4 RT 01.2	BW-10	SS-21	113.5	20.0	36	12	24	0.0	21.7	78.3			CL	A-6(17)
593+02.4 RT 01.2	BW-10	T-8	118.0	17.0	40	13	27	0.0	12.9	49.4	37.7	0.0211	CL	A-6(23)
593+02.4 RT 01.2	BW-10	SS-22	123.5	23.7	30	15	15	0.0	5.3	94.7			CL	A-6(13)
593+02.4 RT 01.2	BW-10	T-9	138.0	19.7	NP	NP	NP	0.0	79.1	9.9	11.0	0.2508	SM	A-2-4(0)
593+02.4 RT 01.2	BW-10	SS-27	153.5	20.1	50	16	34	0.0	24.4	75.6			CH	A-7-6(25)
593+02.4 RT 01.2	BW-10	T-10	165.0	26.3	48	14	34	0.0	8.4	38.2	53.4	0.0039	CL	A-7-6(32)
597+87.3 RT 03.4	BW-11	SS-4	4.5	177.4	165	40	125	0.0	1.5	35.5	63.1	0.0027	CH	A-7-5(149)
597+87.3 RT 03.4	BW-11	SS-7	13.5	34.5	33	18	15	0.0	25.0	55.1	19.9	0.0475	CL	A-6(10)
597+87.3 RT 03.4	BW-11	T-1	18.0	46.7	54	18	36	0.0	33.6	28.7	37.8	0.0214	CH	A-7-6(22)
597+87.3 RT 03.4	BW-11	T-2	28.0	31.6	40	13	27	0.0	68.3	11.9	19.8	0.2699	SC	A-2-6(3)
597+87.3 RT 03.4	BW-11	SS-10	38.5	21.6	NP	NP	NP	0.8	91.5	7.7		0.3860	SP-SM	A-3(0)
597+87.3 RT 03.4	BW-11	SS-13	53.5	23.6	NP	NP	NP	0.1	95.7	4.1		0.3591	SP	A-3(0)
597+87.3 RT 03.4	BW-11	SS-16	68.5	19.2	NP	NP	NP	3.0	95.5	1.4		0.7352	SP	A-1-b(0)
597+87.3 RT 03.4	BW-11	SS-19	83.5	22.1	39	13	26	0.0	50.7	49.3		0.0774	SC	A-6(8)
597+87.3 RT 03.4	BW-11	SS-21	93.5	30.6	NP	NP	NP			72.7			ML	A-4(0)
597+87.3 RT 03.4	BW-11	SS-22	98.5	33.1	34	12	22	0.0	58.4	41.6		0.1076	SC	A-6(4)
597+87.3 RT 03.4	BW-11	T-5	100.0	25.1	73	21	52	0.0	3.0	19.2	77.8			A-7-6(59)
597+87.3 RT 03.4	BW-11	T-6	105.0	24.7	55	15	40	0.0	8.7	32.7	58.6	0.0024	CH	A-7-6(38)
597+87.3 RT 03.4	BW-11	SS-26	118.5	21.2	33	18	15	0.0	48.3	51.7			CL	A-6(5)
597+87.3 RT 03.4	BW-11	SS-29	133.5	24.3	NP	NP	NP	0.0	62.6	37.4		0.0949	SM	A-4(0)
597+87.3 RT 03.4	BW-11	SS-30	138.5	60.5	NP	NP	NP	0.0	55.4	44.6		0.0803	SM	A-4(0)
597+87.3 RT 03.4	BW-11	SS-33	153.5	31.6	NP	NP	NP	0.2	91.4	8.4		0.1998	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
597+87.3 RT 03.4	BW-11	SS-34	160.0	22.7	30	12	18	0.0	42.1	57.9			CL	A-6(7)
597+87.3 RT 03.4	BW-11	SS-35	163.5	20.2	NP	NP	NP	0.2	79.7	20.1		0.1361	SM	A-2-4(0)
597+87.3 RT 03.4	BW-11	SS-36	168.5	24.5	NP	NP	NP	0.0	89.1	10.9		0.2226	SP-SM	A-2-4(0)
598+48.9 RT 13.8	BW-12	SS-3	3.0	192.2	128	40	88			45.7			SC	A-7-5(31)
598+48.9 RT 13.8	BW-12	SS-5	6.0	37.2	NP	NP	NP	0.0	72.7	27.3		0.1163	SM	A-2-4(0)
598+48.9 RT 13.8	BW-12	SS-7	13.5	33.8	NP	NP	NP	0.0	52.2	47.8		0.0775	SM	A-4(0)
598+48.9 RT 13.8	BW-12	T-2	33.0	31.5	35	12	23	1.8	54.8	20.8	22.6	0.1578	SC	A-6(5)
598+48.9 RT 13.8	BW-12	SS-12	53.5	26.1	NP	NP	NP	0.0	96.9	3.1		0.3658	SP	A-3(0)
598+48.9 RT 13.8	BW-12	SS-15	68.5	19.9	NP	NP	NP	2.5	90.3	7.3		0.8414	SP-SM	A-1-b(0)
598+48.9 RT 13.8	BW-12	T-4	88.0	21.2	61	16	45	16.3	5.9	42.3	35.5	0.0138	CH	A-7-6(35)
598+48.9 RT 13.8	BW-12	T-5	98.0	34.4	44	19	25	0.0	29.1	38.9	32.1	0.0279	CL	A-7-6(16)
598+48.9 RT 13.8	BW-12	T-6	105.0	25.0	49	14	35	0.0	8.2	36.1	55.7	0.0038	CL	A-7-6(33)
598+48.9 RT 13.8	BW-12	T-7	113.0	22.8	33	12	21	0.0	41.4	58.6			CL	A-6(9)
598+48.9 RT 13.8	BW-12	T-8	123.0	37.3	39	13	26	0.0	21.3	30.1	48.6	0.0056	CL	A-6(19)
598+48.9 RT 13.8	BW-12	SS-24	133.5	26.4	NP	NP	NP	0.0	63.4	36.6		0.0901	SM	A-4(0)
598+48.9 RT 13.8	BW-12	T-9	140.0	21.6	55	19	36	0.0	20.7	35.7	43.6	0.0075	CH	A-7-6(29)
598+48.9 RT 13.8	BW-12	T-10	148.0	19.2	NP	NP	NP	0.0	34.0	45.9	20.1	0.0505	ML	A-4(0)
598+48.9 RT 13.8	BW-12	T-11	158.0	17.8	34	13	21			45.4			SC	A-6(5)
598+48.9 RT 13.8	BW-12	SS-29	168.5	21.2	30	15	15			7.4				A-2-6(0)
602+29.3 LT 02.9	BW-13	SS-3	3.0	199.5				0.0	25.6	74.4				
602+29.3 LT 02.9	BW-13	SS-6	8.5	81.0	57	27	30	0.0	18.4	81.6			CH	A-7-6(27)
602+29.3 LT 02.9	BW-13	SS-8	28.5	32.4	29	12	17	0.0	70.9	29.1		0.2256	SC	A-2-6(1)
602+29.3 LT 02.9	BW-13	SS-11	48.5	22.3	NP	NP	NP	0.0	97.3	2.7		0.3880	SP	A-3(0)
602+29.3 LT 02.9	BW-13	SS-15	68.5	46.7	75	25	50	0.2	67.4	32.4		0.2821	SC	A-2-7(7)
602+29.3 LT 02.9	BW-13	SS-20	98.5	28.5	71	20	51	0.0	4.7	95.3			CH	A-7-6(54)
602+29.3 LT 02.9	BW-13	SS-21	103.5	21.0	33	12	21	0.0	54.4	45.6		0.0823	SC	A-6(5)
602+29.3 LT 02.9	BW-13	SS-25	123.5	21.5	41	14	27	0.0	27.2	72.8			CL	A-7-6(18)
602+29.3 LT 02.9	BW-13	SS-30	148.5	13.3	33	11	22	0.0	36.0	64.0			CL	A-6(11)
602+29.3 LT 02.9	BW-13	SS-31	153.5	22.8	28	13	15	0.0	50.7	49.3		0.0766	SC	A-6(4)
602+29.3 LT 02.9	BW-13	SS-34	168.5	17.8	34	14	20	0.0	13.4	86.6			CL	A-6(16)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
602+29.3 LT 02.9	BW-13	SS-37	183.5	22.9	38	16	22	0.0	48.8	51.2			CL	A-6(7)
602+29.3 LT 02.9	BW-13	SS-39	193.5	16.4	34	12	22	0.0	35.9	64.1			CL	A-6(11)
602+29.3 LT 02.9	BW-13	SS-42	218.5	20.6	NP	NP	NP	0.0	59.1	40.9		0.0886	SM	A-4(0)
602+29.3 LT 02.9	BW-13	SS-44	238.5	20.1	NP	NP	NP	0.0	43.3	56.7			ML	A-4(0)
604+61.5 RT 04.8	BW-14	SS-3	3.0	124.7	91	21	70	0.0	41.6	58.4			CH	A-7-6(36)
604+61.5 RT 04.8	BW-14	SS-6	8.5	30.6	NP	NP	NP	0.0	64.4	35.6		0.0879	SM	A-4(0)
604+61.5 RT 04.8	BW-14	SS-8	18.5	40.2	46	14	32	0.0	43.3	56.7			CL	A-7-6(14)
604+61.5 RT 04.8	BW-14	T-1	23.0	30.8	30	14	16	0.0	61.6	38.4		0.1661	SC	A-6(2)
604+61.5 RT 04.8	BW-14	T-2	33.0	26.1	NP	NP	NP	0.0	83.9	16.1		0.2653	SM	A-2-4(0)
604+61.5 RT 04.8	BW-14	SS-11	43.5	26.2	NP	NP	NP	0.0	97.2	2.8		0.2819	SP	A-3(0)
604+61.5 RT 04.8	BW-14	SS-15	63.5	17.4	NP	NP	NP	5.3	91.7	3.0		0.9105	SP	A-1-b(0)
604+61.5 RT 04.8	BW-14	T-3	73.0	44.1	55	16	39	0.0	28.5	71.5			CH	A-7-6(26)
604+61.5 RT 04.8	BW-14	SS-19	88.5	21.6	NP	NP	NP	1.5	94.1	4.3		0.3126	SP	A-3(0)
604+61.5 RT 04.8	BW-14	SS-23	108.5	21.0	NP	NP	NP	1.8	94.6	3.7		0.3654	SP	A-3(0)
604+61.5 RT 04.8	BW-14	SS-26	123.5	18.3	54	17	37			86.6			CH	A-7-6(33)
604+61.5 RT 04.8	BW-14	SS-30	143.5	18.1	49	13	36			85.7			CL	A-7-6(31)
607+59.4 LT 39.4	BW-15	SS-2	1.5	170.8	NP	NP	NP			82.3			ML	A-4(0)
607+59.4 LT 39.4	BW-15	SS-5	6.0	84.7	46	19	27		57.5	41.5		0.1016	SC	A-7-6(6)
607+59.4 LT 39.4	BW-15	SS-6	8.5	28.0	NP	NP	NP		69.6	30.3		0.1029	SM	A-2-4(0)
607+59.4 LT 39.4	BW-15	T-1	18.5	37.8	44	13	31	0.0	51.8	48.2		0.1068	SC	A-7-6(10)
607+59.4 LT 39.4	BW-15	T-2	28.5	30.6	NP	NP	NP	0.0	73.6	26.4		0.2090	SM	A-2-4(0)
607+59.4 LT 39.4	BW-15	SS-9	33.5	27.5	NP	NP	NP	0.0	86.5	13.5		0.2532	SM	A-2-4(0)
607+59.4 LT 39.4	BW-15	SS-11	43.5	23.9	NP	NP	NP		89.1	10.9		0.2775	SP-SM	A-2-4(0)
607+59.4 LT 39.4	BW-15	SS-14	58.5	17.8	NP	NP	NP	6.0	84.4	7.8		0.4432	SP-SM	A-1-b(0)
607+59.4 LT 39.4	BW-15	SS-15	63.5	36.1	63	19	44		3.9	96.1			CH	A-7-6(47)
607+59.4 LT 39.4	BW-15	SS-17	78.5	38.1	37	14	23			80.6			CL	A-6(17)
607+59.4 LT 39.4	BW-15	SS-20	93.5	21.0	NP	NP	NP		93.7	4.0		0.3617	SP	A-3(0)
607+59.4 LT 39.4	BW-15	SS-24	113.5	18.0	50	18	32			85.6			CH	A-7-6(28)
607+59.4 LT 39.4	BW-15	SS-26	123.5	26.4	NP	NP	NP		84.8	13.0		0.1763	SM	A-2-4(0)
607+59.4 LT 39.4	BW-15	SS-27	128.5	26.2	35	18	17		24.2	74.3			CL	A-6(11)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
611+38.5 LT 04.0	BW-16	SS-2	1.5	99.6	NP	NP	NP	0.0	22.3	77.7			ML	A-4(0)
611+38.5 LT 04.0	BW-16	SS-5	6.0	36.7	NP	NP	NP		75.1	24.5		0.1291	SM	A-2-4(0)
611+38.5 LT 04.0	BW-16	SS-7	13.5	36.6	NP	NP	NP		38.8	60.6			ML	A-4(0)
611+38.5 LT 04.0	BW-16	T-1	18.5	40.9	50	16	34	0.0	39.4	28.1	32.5	0.0291	CH	A-7-6(18)
611+38.5 LT 04.0	BW-16	T-2	28.5	29.6	NP	NP	NP	0.0	87.0	2.9	10.1	0.2347	SM	A-2-4(0)
611+38.5 LT 04.0	BW-16	T-3	38.5	32.9	105	20	85	0.0	1.6	27.9	70.5		CH	A-7-6(95)
611+38.5 LT 04.0	BW-16	T-4	43.5	23.5	NP	NP	NP	0.0	93.3	6.7		0.1984	SP-SM	A-3(0)
611+38.5 LT 04.0	BW-16	SS-11	53.5	26.4	NP	NP	NP		80.2	19.4		0.4737	SM	A-1-b(0)
611+38.5 LT 04.0	BW-16	SS-16	78.5	19.5	NP	NP	NP		95.1	3.9		0.4413	SP	A-1-b(0)
611+38.5 LT 04.0	BW-16	SS-21	103.5	18.7	NP	NP	NP		94.3	4.3		0.3141	SP	A-3(0)
611+38.5 LT 04.0	BW-16	SS-23	113.5	18.2	39	12	27			80.4			CL	A-6(20)
611+38.5 LT 04.0	BW-16	SS-25	123.5	20.9	47	17	30			88.3			CL	A-7-6(27)
613+39.8 RT 21.6	BW-17	SS-5	6.0	30.1	NP	NP	NP	0.0	68.2	23.7	8.1	0.1020	SM	A-2-4(0)
613+39.8 RT 21.6	BW-17	T-1	18.0	36.9	39	15	24	0.0	52.1	25.0	23.0	0.1087	SC	A-6(7)
613+39.8 RT 21.6	BW-17	T-2	28.0	26.5	37	15	22	0.0	4.3	47.9	47.8	0.0057	CL	A-6(21)
613+39.8 RT 21.6	BW-17	T-3	38.0	22.2	NP	NP	NP	1.5	95.7	2.8		0.3118	SP	A-3(0)
613+39.8 RT 21.6	BW-17	SS-14	63.5	21.1	NP	NP	NP	21.3	75.4	3.3		0.5330	SP	A-1-b(0)
613+39.8 RT 21.6	BW-17	SS-20	93.5	18.5	NP	NP	NP	20.0	72.5	7.5		0.8025	SW-SM	A-1-b(0)
613+39.8 RT 21.6	BW-17	SS-23	108.5	16.2	41	13	28			84.8			CL	A-7-6(23)
613+39.8 RT 21.6	BW-17	SS-27	128.5	35.5	27	11	16	0.6	57.3	42.1		0.1121	SC	A-6(3)
616+38.2 RT 06.9	BW-18	SS-2	3.5	29.3	NP	NP	NP	0.0	70.9	17.5	11.6	0.1348	SM	A-2-4(0)
616+38.2 RT 06.9	BW-18	SS-4	13.5	40.3	44	20	24	0.0	46.0	23.7	30.3	0.0377	CL	A-7-6(10)
616+38.2 RT 06.9	BW-18	SS-7	28.5	30.2	76	25	51	0.0	12.7	87.3			CH	A-7-6(49)
616+38.2 RT 06.9	BW-18	T-1	33.5	75.6	91	35	56	0.0	2.6	41.1	56.3	0.0025	CH	A-7-5(66)
616+38.2 RT 06.9	BW-18	SS-9	48.5	54.0	51	22	29	0.0	6.0	43.4	50.6	0.0047	CH	A-7-6(30)
616+38.2 RT 06.9	BW-18	T-3	53.5	25.2	40	14	26	0.0	52.9	47.1		0.0837	SC	A-6(8)
616+38.2 RT 06.9	BW-18	SS-11	63.5	29.7	30	13	17	0.0	54.6	24.0	21.3	0.0993	SC	A-6(4)
616+38.2 RT 06.9	BW-18	SS-13	73.5	20.5	NP	NP	NP	1.4	83.8	14.8		0.3018	SM	A-2-4(0)
616+38.2 RT 06.9	BW-18	SS-14	78.5	21.7	NP	NP	NP	4.8	88.1	4.4	2.6	0.3717	SP-SM	A-3(0)
616+38.2 RT 06.9	BW-18	SS-18	98.5	19.4	NP	NP	NP	0.9	91.5	7.7		0.3958	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
616+38.2 RT 06.9	BW-18	T-4	108.0	19.8	48	18	30	0.0	5.3	94.7			CL	A-7-6(30)
616+38.2 RT 06.9	BW-18	SS-21	118.5	21.8	NP	NP	NP	0.0	52.2	47.8		0.0774	SM	A-4(0)
616+38.2 RT 06.9	BW-18	SS-22	123.5	23.0				0.0	32.1	67.9				
616+38.2 RT 06.9	BW-18	SS-24	133.5	25.2	NP	NP	NP	0.0	90.7	9.3		0.1917	SP-SM	A-3(0)
616+38.2 RT 06.9	BW-18	SS-25	138.5	33.0	NP	NP	NP	0.0	89.1	10.9		0.2504	SP-SM	A-2-4(0)
616+38.2 RT 06.9	BW-18	SS-28	158.5	23.1	51	16	35	0.0	23.6	76.4			CH	A-7-6(26)
619+42.0 LT 04.5	BW-19	SS-2	3.5	34.3	39	16	23	0.0	80.9	19.1		0.1851	SC	A-2-6(1)
619+42.0 LT 04.5	BW-19	SS-8	48.5	24.5	26	13	13	8.5	71.3	20.2		0.4056	SC	A-2-6(0)
619+42.0 LT 04.5	BW-19	SS-10	63.5	18.1	NP	NP	NP	12.5	79.4	8.1		0.6081	SP-SM	A-1-b(0)
619+42.0 LT 04.5	BW-19	SS-13	78.5	17.0	NP	NP	NP	16.7	80.7	2.7		0.6727	SP	A-1-b(0)
619+42.0 LT 04.5	BW-19	SS-15	88.5	13.0	NP	NP	NP	48.3	46.1	5.5		4.2687	GP-GM	A-1-a(0)
619+42.0 LT 04.5	BW-19	SS-16	93.5	20.6	37	11	26	0.0	10.4	89.6			CL	A-6(22)
619+42.0 LT 04.5	BW-19	T-5	103.5	12.4	58	17	41	33.4	56.3	10.2		3.1376	SP-SC	A-2-7(0)
619+42.0 LT 04.5	BW-19	SS-19	113.5	32.3	NP	NP	NP	0.0	66.7	33.3		0.0974	SM	A-2-4(0)
619+42.0 LT 04.5	BW-19	SS-21	128.5	22.2	NP	NP	NP	0.0	92.2	7.8		0.2121	SP-SM	A-3(0)
622+55.5 LT 26.7	BW-20	SS-2	3.5	44.0	48	17	31	0.0	25.0	41.0	34.1	0.0190	CL	A-7-6(22)
622+55.5 LT 26.7	BW-20	T-1	18.0	42.4	83	26	57	0.0	35.0	41.2	23.7	0.0489	CH	A-7-6(36)
622+55.5 LT 26.7	BW-20	SS-8	43.5	25.2	NP	NP	NP	0.1	76.1	20.9	2.9	0.2328	SM	A-2-4(0)
622+55.5 LT 26.7	BW-20	SS-9	48.5	22.0	NP	NP	NP	0.0	95.7	4.3		0.2939	SP	A-3(0)
622+55.5 LT 26.7	BW-20	SS-11	58.5	11.4	NP	NP	NP	18.2	78.9	2.8		0.7632	SP	A-1-b(0)
622+55.5 LT 26.7	BW-20	SS-15	78.5	21.9	NP	NP	NP	9.6	85.5	4.9		0.4772	SP	A-1-b(0)
622+55.5 LT 26.7	BW-20	T-3	88.5	17.6	36	12	24	0.0	10.9	89.1			CL	A-6(20)
622+55.5 LT 26.7	BW-20	SS-18	98.5	21.4	60	18	42	0.0	4.6	95.4			CH	A-7-6(44)
622+55.5 LT 26.7	BW-20	SS-20	108.5	22.7	NP	NP	NP	0.0	89.6	10.4		0.2009	SP-SM	A-3(0)
622+55.5 LT 26.7	BW-20	SS-24	128.5	22.3	NP	NP	NP	0.0	88.6	11.4		0.1958	SP-SM	A-2-4(0)
625+46.4 LT 07.1	BW-21	SS-2	3.5	39.6	39	20	19	0.0	75.7	24.3		0.1677	SC	A-2-6(1)
625+46.4 LT 07.1	BW-21	T-1	18.0	54.0	86	27	59	0.0	3.9	96.1			CH	A-7-6(66)
625+46.4 LT 07.1	BW-21	SS-5	23.5	28.5	NP	NP	NP	0.0	95.9	4.1		0.1943	SP	A-3(0)
625+46.4 LT 07.1	BW-21	SS-7	33.5	27.5	NP	NP	NP	0.0	91.3	8.7		0.1863	SP-SM	A-3(0)
625+46.4 LT 07.1	BW-21	SS-9	48.5	24.6	NP	NP	NP	0.0	89.6	10.4		0.2589	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
625+46.4 LT 07.1	BW-21	SS-10	53.5	27.8	NP	NP	NP	0.0	95.5	4.5		0.2886	SP	A-3(0)
625+46.4 LT 07.1	BW-21	SS-14	73.5	18.2	NP	NP	NP	3.7	92.4	4.0		0.4164	SP	A-3(0)
625+46.4 LT 07.1	BW-21	T-3	88.0	24.8	NP	NP	NP	0.0	18.3	81.7			ML	A-4(0)
625+46.4 LT 07.1	BW-21	SS-17	93.5	19.6	33	14	19	0.0	49.4	50.6			CL	A-6(6)
625+46.4 LT 07.1	BW-21	SS-18	98.5	25.1	NP	NP	NP	0.0	72.4	27.6		0.1661	SM	A-2-4(0)
625+46.4 LT 07.1	BW-21	SS-20	108.5	21.0	NP	NP	NP	0.0	90.6	9.4		0.2217	SP-SM	A-3(0)
625+46.4 LT 07.1	BW-21	SS-22	118.5	25.4	NP	NP	NP	0.0	91.4	8.6		0.2144	SP-SM	A-3(0)
628+37.3 RT 12.6	BW-22	SS-2	3.5	26.9	NP	NP	NP	0.0	88.0	12.0		0.1856	SM	A-2-4(0)
628+37.3 RT 12.6	BW-22	SS-4	13.5	62.9	32	13	19	0.0	61.4	38.6		0.1232	SC	A-6(3)
628+37.3 RT 12.6	BW-22	SS-6	28.5	26.3	NP	NP	NP	0.0	66.0	34.0		0.1223	SM	A-2-4(0)
628+37.3 RT 12.6	BW-22	SS-8	38.5	14.6	NP	NP	NP	0.4	89.1	10.5		0.1771	SP-SM	A-2-4(0)
628+37.3 RT 12.6	BW-22	SS-11	58.5	33.1	NP	NP	NP	0.0	90.9	9.1		0.1412	SP-SM	A-3(0)
628+37.3 RT 12.6	BW-22	SS-16	83.5	20.7	NP	NP	NP	1.1	94.2	4.7		0.4152	SP	A-3(0)
628+37.3 RT 12.6	BW-22	SS-19	98.5	18.0	NP	NP	NP	9.8	85.9	4.3		0.6738	SP	A-1-b(0)
628+37.3 RT 12.6	BW-22	SS-20	103.5	20.7	50	17	33	0.0	10.5	89.5			CH	A-7-6(31)
628+37.3 RT 12.6	BW-22	SS-22	113.5	23.1	60	14	46	0.0	3.9	96.1			CH	A-7-6(47)
628+37.3 RT 12.6	BW-22	SS-24	123.5	38.5	23	13	10	0.0	45.0	55.0			CL	A-4(2)
632+20.2 LT 15.3	BW-23	SS-2	1.5	28.8	NP	NP	NP		85.6	14.3		0.1711	SM	A-2-4(0)
632+20.2 LT 15.3	BW-23	SS-6	8.5	51.4	NP	NP	NP			29.8			SM	A-2-4(0)
632+20.2 LT 15.3	BW-23	SS-8	23.5	41.4	67	14	53			60.3			CH	A-7-6(28)
632+20.2 LT 15.3	BW-23	SS-9	33.5	28.4	NP	NP	NP		68.3	31.3		0.1582	SM	A-2-4(0)
632+20.2 LT 15.3	BW-23	SS-10	38.5	34.1	40	17	23	6.4	48.9	37.8		0.1594	SC	A-6(4)
632+20.2 LT 15.3	BW-23	T-3	48.5	25.7	NP	NP	NP	0.0	98.0	2.0		0.2575	SP	A-3(0)
632+20.2 LT 15.3	BW-23	SS-12	53.5	30.9	34	14	20		31.2	67.4			CL	A-6(11)
632+20.2 LT 15.3	BW-23	SS-13	58.5	31.1	NP	NP	NP		76.6	23.0		0.2075	SM	A-2-4(0)
632+20.2 LT 15.3	BW-23	SS-17	78.5	21.3	NP	NP	NP	2.9	83.9	9.7		0.3411	SP-SM	A-3(0)
632+20.2 LT 15.3	BW-23	SS-21	98.5	11.6	NP	NP	NP	26.7	56.3	4.4		1.5326	SP	A-1-b(0)
632+20.2 LT 15.3	BW-23	SS-24	113.5	16.8	47	14	33			88.9			CL	A-7-6(30)
632+20.2 LT 15.3	BW-23	SS-26	123.5	21.2	50	14	36		7.9	91.9			CH	A-7-6(34)
632+20.2 LT 15.3	BW-23	SS-29	138.5	26.2	NP	NP	NP		91.1	8.7		0.1747	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
632+20.2 LT 15.3	BW-23	SS-32	153.5	19.2	NP	NP	NP		68.9	31.0		0.1334	SM	A-2-4(0)
632+20.2 LT 15.3	BW-23	SS-35	168.5	15.5	28	15	13			62.1			CL	A-6(5)
632+20.2 LT 15.3	BW-23	SS-37	178.5	18.2	33	13	20		40.6	59.4			CL	A-6(8)
634+59.1 RT 12.7	BW-24	SS-4	4.5	26.6	NP	NP	NP		79.2	20.3		0.1622	SM	A-2-4(0)
634+59.1 RT 12.7	BW-24	SS-6	8.5	27.9	NP	NP	NP		86.5	13.0		0.1282	SM	A-2-4(0)
634+59.1 RT 12.7	BW-24	T-1	23.5	42.6	67	23	44	0.0	12.2	87.8			CH	A-7-6(43)
634+59.1 RT 12.7	BW-24	SS-10	38.5	29.5	31	14	17		67.5	28.7		0.1850	SC	A-2-6(1)
634+59.1 RT 12.7	BW-24	T-3	43.5	37.3	NP	NP	NP	3.1	66.9	30.0		0.1819	SM	A-2-4(0)
634+59.1 RT 12.7	BW-24	SS-12	53.5	39.6	68	26	42	0.0	28.2	71.8			CH	A-7-6(31)
634+59.1 RT 12.7	BW-24	T-4	68.5	33.4	58	23	35	0.0	17.0	83.0			CH	A-7-6(31)
634+59.1 RT 12.7	BW-24	SS-16	78.5	17.9	NP	NP	NP	0.6	94.4	5.0		0.3828	SP-SM	A-3(0)
634+59.1 RT 12.7	BW-24	SS-20	98.5	13.8	NP	NP	NP	21.9	72.9	5.3		0.7315	SP-SM	A-1-b(0)
634+59.1 RT 12.7	BW-24	SS-23	113.5	22.3	62	19	43	0.0	3.7	96.3			CH	A-7-6(46)
637+65.3 RT 50.7	BW-25	SS-2	1.5	30.1	NP	NP	NP	0.0	89.4	10.6		0.1692	SP-SM	A-2-4(0)
637+65.3 RT 50.7	BW-25	SS-5	6.0	56.1	NP	NP	NP	0.1	41.0	58.9			ML	A-4(0)
637+65.3 RT 50.7	BW-25	SS-7	13.5	27.9	NP	NP	NP	0.0	90.0	10.0		0.1924	SP-SM	A-3(0)
637+65.3 RT 50.7	BW-25	SS-8	18.5	32.8	NP	NP	NP	0.0	67.6	32.4		0.1158	SM	A-2-4(0)
637+65.3 RT 50.7	BW-25	T-1	23.5	43.9	43	20	23	0.0	32.5	67.5			CL	A-7-6(14)
637+65.3 RT 50.7	BW-25	T-2	33.5	32.9	33	14	19	0.0	65.8	12.6	21.7	0.1228	SC	A-2-6(2)
637+65.3 RT 50.7	BW-25	SS-10	38.5	26.0	NP	NP	NP	0.0	71.2	28.8		0.1839	SM	A-2-4(0)
637+65.3 RT 50.7	BW-25	T-3	43.5	25.8	34	18	16	0.0	29.1	70.9			CL	A-6(9)
637+65.3 RT 50.7	BW-25	SS-11	48.5	25.5	NP	NP	NP	0.0	79.8	20.2		0.1678	SM	A-2-4(0)
637+65.3 RT 50.7	BW-25	SS-12	53.5	23.6	NP	NP	NP	0.7	94.8	4.5		0.2708	SP	A-3(0)
637+65.3 RT 50.7	BW-25	SS-13	58.5	44.2	53	36	17			88.4			MH	A-7-5(19)
637+65.3 RT 50.7	BW-25	SS-16	73.5	18.1	NP	NP	NP	0.2	95.2	4.7		0.3907	SP	A-3(0)
637+65.3 RT 50.7	BW-25	SS-18	83.5	19.2	NP	NP	NP	0.0	96.1	3.9		0.3816	SP	A-3(0)
637+65.3 RT 50.7	BW-25	SS-20	93.5	19.1	NP	NP	NP	4.2	91.1	4.6		0.5830	SP	A-1-b(0)
637+65.3 RT 50.7	BW-25	SS-21	98.5	14.7	NP	NP	NP	13.9	82.2	3.9		0.5082	SP	A-1-b(0)
637+65.3 RT 50.7	BW-25	SS-23	108.5	19.9	37	13	24			60.4			CL	A-6(11)
637+65.3 RT 50.7	BW-25	SS-25	118.5	21.5	50	17	33			91.2			CH	A-7-6(31)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
641+13.2 LT 09.8	BW-26	SS-3	3.0	40.4	NP	NP	NP	0.0	73.8	26.2		0.1595	SM	A-2-4(0)
641+13.2 LT 09.8	BW-26	SS-5	6.0	29.0	NP	NP	NP	0.0	86.1	13.9		0.1630	SM	A-2-4(0)
641+13.2 LT 09.8	BW-26	SS-7	13.5	35.2	NP	NP	NP	0.0	51.1	48.9		0.0767	SM	A-4(0)
641+13.2 LT 09.8	BW-26	SS-8	23.5	59.8	82	21	61			74.3			CH	A-7-6(46)
641+13.2 LT 09.8	BW-26	T-2	28.5	30.0	31	14	17	0.0	63.4	36.6		0.1169	SC	A-6(2)
641+13.2 LT 09.8	BW-26	SS-9	33.5	46.6	67	22	45			96.7			CH	A-7-6(49)
641+13.2 LT 09.8	BW-26	SS-11	43.5	22.6	NP	NP	NP	0.8	95.8	3.4		0.6498	SP	A-1-b(0)
641+13.2 LT 09.8	BW-26	SS-14	58.5	28.0	NP	NP	NP	0.5	81.5	17.9		0.3199	SM	A-2-4(0)
641+13.2 LT 09.8	BW-26	SS-15	63.5	26.5	NP	NP	NP	0.0	85.4	14.6		0.2687	SM	A-2-4(0)
641+13.2 LT 09.8	BW-26	SS-19	83.5	21.5	NP	NP	NP	1.1	95.6	3.2		0.3599	SP	A-3(0)
641+13.2 LT 09.8	BW-26	SS-21	93.5	16.4	NP	NP	NP	13.0	80.4	6.6		0.6538	SP-SM	A-1-b(0)
641+13.2 LT 09.8	BW-26	SS-23	103.5	21.3	NP	NP	NP	0.7	94.4	4.9		0.3212	SP	A-3(0)
641+13.2 LT 09.8	BW-26	SS-25	113.5	21.7	46	13	33			92.1			CL	A-7-6(31)
641+13.2 LT 09.8	BW-26	SS-28	128.5	22.0	NP	NP	NP	0.0	89.0	11.0		0.2760	SP-SM	A-2-4(0)
644+08.7 RT 16.7	BW-27	SS-7	13.5	44.1	56	16	40	0.1	23.4	76.5			CH	A-7-6(30)
644+08.7 RT 16.7	BW-27	T-1	18.5	47.3	37	15	22	0.0	53.1	25.7	21.2	0.1030	SC	A-6(6)
644+08.7 RT 16.7	BW-27	T-2	28.5	29.2	28	14	14	0.0	68.8	10.0	21.2	0.1435	SC	A-2-6(1)
644+08.7 RT 16.7	BW-27	SS-9	33.5	78.2	109	35	74			83.4			CH	A-7-5(70)
644+08.7 RT 16.7	BW-27	SS-11	48.5	22.6	NP	NP	NP	0.3	90.4	9.3		0.3159	SP-SM	A-3(0)
644+08.7 RT 16.7	BW-27	SS-13	58.5	23.9	NP	NP	NP	3.3	93.2	3.5		0.4114	SP	A-3(0)
644+08.7 RT 16.7	BW-27	SS-18	83.5	19.1	NP	NP	NP	4.0	91.9	4.1		0.5798	SP	A-1-b(0)
644+08.7 RT 16.7	BW-27	SS-22	103.5	17.8	37	14	23			79.9			CL	A-6(17)
644+08.7 RT 16.7	BW-27	SS-25	118.5	27.2	NP	NP	NP	0.0	28.7	71.3			ML	A-4(0)
644+08.7 RT 16.7	BW-27	SS-26	123.5	23.2	33	16	17			87.8			CL	A-6(14)
647+11.3 RT 02.5	BW-28	SS-4	4.5	31.2	NP	NP	NP	0.0	90.7	9.3		0.1864	SP-SM	A-3(0)
647+11.3 RT 02.5	BW-28	SS-7	13.5	47.8	57	19	38	0.0	20.1	79.9			CH	A-7-6(31)
647+11.3 RT 02.5	BW-28	T-1	18.5	52.6	60	26	34	0.0	19.2	80.8			CH	A-7-6(30)
647+11.3 RT 02.5	BW-28	SS-10	38.5	24.9	NP	NP	NP	1.4	70.2	28.4		0.1860	SM	A-2-4(0)
647+11.3 RT 02.5	BW-28	SS-11	43.5	20.1	NP	NP	NP	0.3	96.7	3.1		0.4730	SP	A-1-b(0)
647+11.3 RT 02.5	BW-28	SS-19	83.5	18.0	NP	NP	NP	5.3	90.0	4.7		0.5487	SP	A-1-b(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
647+11.3 RT 02.5	BW-28	SS-22	98.5	14.6	NP	NP	NP	29.3	65.0	5.7		0.7438	SP-SM	A-1-b(0)
647+11.3 RT 02.5	BW-28	SS-23	103.5	21.1	41	13	28			77.8			CL	A-7-6(20)
647+11.3 RT 02.5	BW-28	SS-24	108.5	21.7	NP	NP	NP			78.5			ML	A-4(0)
647+11.3 RT 02.5	BW-28	SS-26	118.5	29.3	NP	NP	NP	0.0	87.6	12.4		0.1367	SM	A-2-4(0)
647+11.3 RT 02.5	BW-28	SS-29	133.5	27.6	NP	NP	NP	0.9	89.6	9.4		0.1847	SP-SM	A-3(0)
647+11.3 RT 02.5	BW-28	SS-32	148.5	19.4	36	13	23			77.7			CL	A-6(16)
647+11.3 RT 02.5	BW-28	SS-33	153.5	22.1	35	11	24	0.0	36.4	63.6			CL	A-6(12)
647+11.3 RT 02.5	BW-28	SS-35	163.5	20.8	45	15	30			74.7			CL	A-7-6(21)
647+11.3 RT 02.5	BW-28	SS-37	173.5	19.4	28	12	16	0.0	40.4	59.6			CL	A-6(6)
647+11.3 RT 02.5	BW-28	SS-38	178.5	19.5	NP	NP	NP			65.2			ML	A-4(0)
650+11.6 LT 22.7	BW-29	SS-6	8.5	40.8	NP	NP	NP	0.6	47.9	51.4			ML	A-4(0)
650+11.6 LT 22.7	BW-29	T-1	13.5	48.7	44	16	28	0.0	25.8	74.2			CL	A-7-6(19)
650+11.6 LT 22.7	BW-29	T-2	23.5	67.8	82	21	61	0.0	12.3	87.7			CH	A-7-6(59)
650+11.6 LT 22.7	BW-29	SS-9	38.5	32.8	51	17	34	0.0	16.4	83.6			CH	A-7-6(29)
650+11.6 LT 22.7	BW-29	T-4	43.5	15.5	NP	NP	NP	0.0	79.8	20.2		0.3793	SM	A-2-4(0)
650+11.6 LT 22.7	BW-29	SS-12	58.5	22.0	NP	NP	NP	2.3	96.2	1.5		0.6015	SP	A-1-b(0)
650+11.6 LT 22.7	BW-29	SS-16	78.5	20.6	NP	NP	NP	2.0	90.4	7.5		0.4816	SP-SM	A-1-b(0)
650+11.6 LT 22.7	BW-29	SS-20	98.5	15.3	NP	NP	NP	8.0	86.7	5.2		0.4780	SP-SM	A-1-b(0)
650+11.6 LT 22.7	BW-29	SS-23	113.5	24.2	46	23	23			96.9			CL	A-7-6(25)
650+11.6 LT 22.7	BW-29	SS-25	123.5	28.7	NP	NP	NP	0.0	48.7	51.3			ML	A-4(0)
653+20.5 RT 30.3	BW-30	SS-4	4.5	29.5	NP	NP	NP	0.0	88.9	11.1		0.1790	SP-SM	A-2-4(0)
653+20.5 RT 30.3	BW-30	ST-1	13.0	58.5	65	19	46	0.0	6.2	49.6	44.2	0.0079	CH	A-7-6(48)
653+20.5 RT 30.3	BW-30	ST-2	23.0	62.1	104	22	82	0.0	15.3	23.9	60.7	0.0019	CH	A-7-6(76)
653+20.5 RT 30.3	BW-30	ST-3	33.0	54.5	63	26	37	0.0	28.5	34.7	36.8	0.0159	CH	A-7-6(26)
653+20.5 RT 30.3	BW-30	SS-9	38.5	49.7	64	26	38	0.0	6.1	43.4	50.5	0.0047	CH	A-7-6(41)
653+20.5 RT 30.3	BW-30	SS-10	48.5	21.6	NP	NP	NP	1.0	96.8	2.2		0.4692	SP	A-1-b(0)
653+20.5 RT 30.3	BW-30	SS-14	68.5	22.0	NP	NP	NP	0.1	97.3	2.6		0.4923	SP	A-1-b(0)
653+20.5 RT 30.3	BW-30	SS-17	88.5	13.7	NP	NP	NP	24.1	72.2	3.8		1.3139	SP	A-1-b(0)
653+20.5 RT 30.3	BW-30	SS-21	108.5	27.8	NP	NP	NP	0.0	82.6	17.4		0.1164	SM	A-2-4(0)
653+20.5 RT 30.3	BW-30	SS-22	113.5	23.6	NP	NP	NP	0.0	86.9	13.1		0.1931	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
653+20.5 RT 30.3	BW-30	SS-23	118.5	23.4	NP	NP	NP	0.0	88.6	11.4		0.1626	SP-SM	A-2-4(0)
653+20.5 RT 30.3	BW-30	SS-24	123.5	23.2	NP	NP	NP	0.0	90.7	9.3		0.2047	SP-SM	A-3(0)
655+95.5 RT 60.0	BW-31	SS-6	8.5	38.2	NP	NP	NP	0.1	43.3	56.7			ML	A-4(0)
655+95.5 RT 60.0	BW-31	T-1	13.5	45.2	50	17	33	0.0	8.3	57.0	34.7	0.0214	CH	A-7-6(32)
655+95.5 RT 60.0	BW-31	T-3	33.5	153.3	NP	NP	NP	0.0	28.6	36.2	35.2	0.0230	ML	A-4(0)
655+95.5 RT 60.0	BW-31	SS-9	38.5	26.7	NP	NP	NP	0.0	32.7	67.3			ML	A-4(0)
655+95.5 RT 60.0	BW-31	T-4	43.5	27.1	NP	NP	NP	0.0	64.9	21.6	13.5	0.1026	SM	A-2-4(0)
655+95.5 RT 60.0	BW-31	SS-10	48.5	22.0	NP	NP	NP	0.0	95.5	4.5		0.2925	SP	A-3(0)
655+95.5 RT 60.0	BW-31	SS-17	83.5	16.9	NP	NP	NP	5.4	90.3	4.3		0.6874	SP	A-1-b(0)
655+95.5 RT 60.0	BW-31	SS-19	93.5	11.9	NP	NP	NP	16.5	78.7	4.8		0.8285	SP	A-1-b(0)
655+95.5 RT 60.0	BW-31	SS-21	103.5	15.1	NP	NP	NP	25.2	70.2	4.6		1.0470	SP	A-1-b(0)
655+95.5 RT 60.0	BW-31	SS-22	108.5	21.5	NP	NP	NP	0.0	80.4	19.6		0.1955	SM	A-2-4(0)
655+95.5 RT 60.0	BW-31	SS-24	118.5	26.9	NP	NP	NP	0.0	89.7	10.3		0.1741	SP-SM	A-3(0)
655+95.5 RT 60.0	BW-31	SS-26	128.5	26.7	NP	NP	NP	0.0	91.3	8.7		0.2093	SP-SM	A-3(0)
658+90.6 RT 23.6	BW-32	SS-5	6.0	34.1	NP	NP	NP	0.0	56.4	43.6		0.0826	SM	A-4(0)
658+90.6 RT 23.6	BW-32	SS-6	8.5	39.4	38	21	17	0.0	28.4	71.6			CL	A-6(11)
658+90.6 RT 23.6	BW-32	SS-7	13.5	55.0	63	19	44	0.0	9.7	90.3			CH	A-7-6(43)
658+90.6 RT 23.6	BW-32	T-1	18.5	54.5	85	27	58	0.0	2.2	50.1	47.7	0.0061	CH	A-7-6(67)
658+90.6 RT 23.6	BW-32	T-2	28.5	52.4	55	20	35	0.0	34.6	17.9	47.4	0.0064	CH	A-7-6(21)
658+90.6 RT 23.6	BW-32	SS-9	33.5	127.5	64	63	1	0.0	14.1	85.9			MH	A-5(10)
658+90.6 RT 23.6	BW-32	T-3	38.5	148.1	NP	NP	NP	0.0	16.8	41.0	42.2	0.0091	ML	A-4(0)
658+90.6 RT 23.6	BW-32	SS-12	58.5	20.6	NP	NP	NP	0.6	96.5	2.9		0.5579	SP	A-1-b(0)
658+90.6 RT 23.6	BW-32	SS-14	68.5	17.9	NP	NP	NP	3.1	93.3	3.6		0.5901	SP	A-1-b(0)
658+90.6 RT 23.6	BW-32	SS-17	83.5	15.9	NP	NP	NP	2.4	93.3	4.4		0.5462	SP	A-1-b(0)
658+90.6 RT 23.6	BW-32	SS-19	93.5	26.1	46	17	29			81.5			CL	A-7-6(23)
658+90.6 RT 23.6	BW-32	SS-21	103.5	21.0	NP	NP	NP			51.2			ML	A-4(0)
658+90.6 RT 23.6	BW-32	SS-23	113.5	24.2	NP	NP	NP	0.0	90.0	10.0		0.1857	SP-SM	A-3(0)
658+90.6 RT 23.6	BW-32	SS-26	128.5	24.6	NP	NP	NP	0.0	91.8	8.2		0.2044	SP-SM	A-3(0)
660+93.0 RT 32.8	BW-33	SS-3	3.0	31.5	NP	NP	NP		77.2	22.8		0.1191	SM	A-2-4(0)
660+93.0 RT 32.8	BW-33	SS-6	8.5	38.3	NP	NP	NP	0.0	29.3	70.7			ML	A-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
660+93.0 RT 32.8	BW-33	T-2	21.5	69.5	88	23	65	0.2	1.9	98.0			CH	A-7-6(73)
660+93.0 RT 32.8	BW-33	T-3	31.5	36.8	35	14	21		52.7	45.9		0.1059	SC	A-6(5)
660+93.0 RT 32.8	BW-33	T-5	51.5	25.8	NP	NP	NP	0.0	75.8	24.2		0.1383	SM	A-2-4(0)
660+93.0 RT 32.8	BW-33	SS-13	66.5	28.2	NP	NP	NP	0.0	89.7	10.3		0.4911	SW-SM	A-1-b(0)
660+93.0 RT 32.8	BW-33	SS-17	86.5	21.1	NP	NP	NP	11.9	82.8	5.2		0.4365	SP-SM	A-1-b(0)
660+93.0 RT 32.8	BW-33	SS-20	101.5	18.3	33	14	19	0.0	39.1	60.9			CL	A-6(8)
660+93.0 RT 32.8	BW-33	SS-21	106.5	20.1	35	15	20			69.7			CL	A-6(12)
660+93.0 RT 32.8	BW-33	SS-23	116.5	28.6	NP	NP	NP	0.0	93.0	7.0		0.1911	SP-SM	A-3(0)
660+93.0 RT 32.8	BW-33	SS-27	136.5	19.7	NP	NP	NP	0.0	91.3	8.7		0.3137	SP-SM	A-3(0)
660+93.0 RT 32.8	BW-33	SS-29	146.5	18.0	28	12	16			78.3			CL	A-6(10)
660+93.0 RT 32.8	BW-33	SS-31	156.5	24.1	27	13	14	0.0	59.6	40.4		0.1083	SC	A-6(2)
660+93.0 RT 32.8	BW-33	SS-33	166.5	23.2	42	13	29			88.2			CL	A-7-6(25)
660+93.0 RT 32.8	BW-33	SS-34	171.5	20.3	54	14	40			83.5			CH	A-7-6(33)
660+93.0 RT 32.8	BW-33	SS-36	181.5	22.7	58	16	42			95.3			CH	A-7-6(43)
664+60.2 RT 61.6	BW-34	SS-3	3.0	33.0	NP	NP	NP	1.5	82.9	15.6		0.1362	SM	A-2-4(0)
664+60.2 RT 61.6	BW-34	SS-5	6.0	35.0	NP	NP	NP	0.0	79.4	20.6		0.1242	SM	A-2-4(0)
664+60.2 RT 61.6	BW-34	T-1	18.0	62.8	77	22	55	0.0	1.4	51.9	46.6	0.0067	CH	A-7-6(62)
664+60.2 RT 61.6	BW-34	T-2	30.0	77.0	92	27	65	0.0	3.5	47.2	49.3	0.0054	CH	A-7-6(74)
664+60.2 RT 61.6	BW-34	T-4	48.0	42.8	48	19	29	0.0	22.4	41.8	35.8	0.0218	CL	A-7-6(22)
664+60.2 RT 61.6	BW-34	SS-13	58.5	19.8	NP	NP	NP	1.9	95.3	2.8		0.5885	SP	A-1-b(0)
664+60.2 RT 61.6	BW-34	SS-18	83.5	20.9	NP	NP	NP	7.4	89.7	2.9		0.5927	SP	A-1-b(0)
664+60.2 RT 61.6	BW-34	SS-20	98.5	16.5	37	13	24	0.0	41.4	58.6			CL	A-6(11)
664+60.2 RT 61.6	BW-34	T-6	103.0	26.0	27	10	17	12.0	44.6	43.4		0.1327	SC	A-6(3)
664+60.2 RT 61.6	BW-34	SS-24	123.5	24.7	NP	NP	NP	0.2	92.7	7.1		0.2088	SP-SM	A-3(0)
667+81.5 RT 35.5	BW-35	SS-7	13.5	46.7	51	19	32	0.0	20.0	80.0			CH	A-7-6(26)
667+81.5 RT 35.5	BW-35	T-1	18.5	52.0	49	19	30	0.1	3.6	96.4			CL	A-7-6(31)
667+81.5 RT 35.5	BW-35	T-2	28.5	71.5	83	28	55	0.0	1.9	98.1			CH	A-7-6(63)
667+81.5 RT 35.5	BW-35	T-3	38.5	90.7	93	39	54	0.3	55.1	44.6		0.1533	SC	A-7-5(18)
667+81.5 RT 35.5	BW-35	SS-10	43.5	18.5	NP	NP	NP	0.1	97.9	2.0		0.6316	SP	A-1-b(0)
667+81.5 RT 35.5	BW-35	SS-12	53.5	26.7	NP	NP	NP	0.0	86.3	13.7		0.2256	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
667+81.5 RT 35.5	BW-35	SS-14	63.5	19.2	NP	NP	NP	3.2	91.5	5.3		0.6199	SP-SM	A-1-b(0)
667+81.5 RT 35.5	BW-35	SS-17	78.5	18.3	NP	NP	NP	5.2	91.8	3.0		0.4796	SP	A-1-b(0)
667+81.5 RT 35.5	BW-35	SS-20	93.5	19.9	NP	NP	NP	19.3	77.4	3.3		0.8069	SP	A-1-b(0)
667+81.5 RT 35.5	BW-35	SS-22	103.5	21.4	33	9	24	0.0	55.1	44.9		0.1136	SC	A-6(6)
667+81.5 RT 35.5	BW-35	SS-24	113.5	26.4	NP	NP	NP	0.0	83.7	16.3		0.1206	SM	A-2-4(0)
667+81.5 RT 35.5	BW-35	SS-27	128.5	29.2	NP	NP	NP	0.0	92.5	7.5		0.1880	SP-SM	A-3(0)
671+12.0 RT 17.1	BW-36	SS-4	4.5	32.6	NP	NP	NP	0.0	87.7	12.3		0.1574	SM	A-2-4(0)
671+12.0 RT 17.1	BW-36	SS-6	8.5	37.0	NP	NP	NP	0.0	34.3	65.7			ML	A-4(0)
671+12.0 RT 17.1	BW-36	SS-7	13.5	44.7	53	19	34	0.1	22.8	77.1			CH	A-7-6(26)
671+12.0 RT 17.1	BW-36	T-1	18.5	48.7	36	19	17	0.0	2.1	97.9			CL	A-6(17)
671+12.0 RT 17.1	BW-36	T-2	28.5	74.6	87	29	58	0.0	1.7	98.3			CH	A-7-6(67)
671+12.0 RT 17.1	BW-36	T-3	38.5	192.6	NP	NP	NP	0.0	69.9	30.1		0.4374	SM	A-2-4(0)
671+12.0 RT 17.1	BW-36	T-4	48.5	27.3	NP	NP	NP	0.0	83.2	16.8		0.1744	SM	A-2-4(0)
671+12.0 RT 17.1	BW-36	SS-12	58.5	19.2	NP	NP	NP	0.0	96.7	3.3		0.3900	SP	A-3(0)
671+12.0 RT 17.1	BW-36	SS-15	73.5	23.1	NP	NP	NP	0.0	96.8	3.2		0.4072	SP	A-3(0)
671+12.0 RT 17.1	BW-36	SS-21	103.5	16.8	35	11	24	0.0	52.6	47.4		0.0815	SC	A-6(7)
671+12.0 RT 17.1	BW-36	SS-22	108.5	20.3	26	10	16	0.0	53.1	46.9		0.0805	SC	A-6(3)
671+12.0 RT 17.1	BW-36	SS-27	133.5	25.0	NP	NP	NP	0.0	93.1	6.9		0.2872	SP-SM	A-3(0)
671+12.0 RT 17.1	BW-36	SS-30	148.5	14.9	38	11	27	0.0	21.7	78.3			CL	A-6(19)
671+12.0 RT 17.1	BW-36	SS-33	163.5	21.7	28	14	14			58.6			CL	A-6(5)
671+12.0 RT 17.1	BW-36	SS-35	173.5	15.8	33	14	19			64.6			CL	A-6(9)
674+29.6 RT 48.9	BW-37	SS-4	4.5	32.8	NP	NP	NP	0.0	80.4	19.6		0.1314	SM	A-2-4(0)
674+29.6 RT 48.9	BW-37	SS-6	8.5	34.4	NP	NP	NP	0.0	61.4	38.6		0.0871	SM	A-4(0)
674+29.6 RT 48.9	BW-37	T-1	18.0	55.6	56	24	32	0.0	3.0	97.0			CH	A-7-6(35)
674+29.6 RT 48.9	BW-37	T-2	28.0	79.9	110	38	72	0.0	1.9	98.1			CH	A-7-5(86)
674+29.6 RT 48.9	BW-37	T-3	38.0	167.4	NP	NP	NP	0.0	69.4	30.6		0.3841	SM	A-2-4(0)
674+29.6 RT 48.9	BW-37	T-4	48.0	22.0	NP	NP	NP	0.0	63.8	36.2		0.1082	SM	A-4(0)
674+29.6 RT 48.9	BW-37	SS-12	58.5	20.0	NP	NP	NP	0.0	96.8	3.2		0.3707	SP	A-3(0)
674+29.6 RT 48.9	BW-37	SS-14	68.5	21.1	NP	NP	NP	0.0	97.0	3.0		0.3694	SP	A-3(0)
674+29.6 RT 48.9	BW-37	SS-15	73.5	19.0	NP	NP	NP	1.3	95.8	2.9		0.3453	SP	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
674+29.6 RT 48.9	BW-37	SS-18	88.5	15.4	NP	NP	NP	30.1	66.5	3.4		2.1601	SP	A-1-a(0)
674+29.6 RT 48.9	BW-37	SS-20	98.5	15.3	NP	NP	NP	10.6	87.4	2.1		1.1644	SP	A-1-b(0)
674+29.6 RT 48.9	BW-37	SS-22	108.5	21.4	31	15	16			58.6			CL	A-6(6)
674+29.6 RT 48.9	BW-37	SS-25	123.5	24.0	NP	NP	NP	0.0	92.9	7.1		0.2330	SP-SM	A-3(0)
676+16.1 RT 39.2	BW-38	SS-4	4.5	34.0	NP	NP	NP	0.0	81.2	18.8		0.1281	SM	A-2-4(0)
676+16.1 RT 39.2	BW-38	T-1	8.0	32.5	NP	NP	NP	0.0	50.4	42.1	7.5	0.0753	SM	A-4(0)
676+16.1 RT 39.2	BW-38	T-2	18.0	56.3	74	25	49	0.0	1.1	50.4	48.4	0.0058	CH	A-7-6(56)
676+16.1 RT 39.2	BW-38	T-3	28.0	76.2	93	24	69	0.0	0.7	44.6	54.7	0.0031	CH	A-7-6(79)
676+16.1 RT 39.2	BW-38	T-4	38.0	82.7	109	31	78	0.0	9.1	31.5	59.4	0.0021	CH	A-7-5(82)
676+16.1 RT 39.2	BW-38	T-5	48.0	61.1	69	23	46	0.0	3.5	34.9	61.6	0.0019	CH	A-7-6(50)
676+16.1 RT 39.2	BW-38	SS-12	63.5	21.6	NP	NP	NP	0.7	94.5	4.8		0.4105	SP	A-3(0)
676+16.1 RT 39.2	BW-38	SS-17	88.5	14.7	NP	NP	NP	53.4	45.7	0.8		5.0090	GP	A-1-a(0)
676+16.1 RT 39.2	BW-38	SS-21	108.5	19.2	42	15	27	0.0	22.6	77.4			CL	A-7-6(19)
676+16.1 RT 39.2	BW-38	SS-23	118.5	20.8	NP	NP	NP	0.5	92.3	7.2		0.3238	SP-SM	A-3(0)
679+62.2 RT 34.9	BW-39	SS-5	6.0	135.9	63	27	36	0.0	17.3	52.3	30.4	0.0373	CH	A-7-6(33)
679+62.2 RT 34.9	BW-39	T-1	13.5	58.0	116	29	87	0.0	8.1	48.1	43.8	0.0080	CH	A-7-6(92)
679+62.2 RT 34.9	BW-39	T-2	23.0	35.0	NP	NP	NP	0.0	19.6	37.2	43.2	0.0110	ML	A-4(0)
679+62.2 RT 34.9	BW-39	T-3	33.0	71.5	96	27	69	0.0	1.6	36.5	61.9	0.0015	CH	A-7-6(79)
679+62.2 RT 34.9	BW-39	T-4	43.0	42.5	66	22	44	0.0	0.5	36.6	62.9	0.0016	CH	A-7-6(50)
679+62.2 RT 34.9	BW-39	T-5	58.0	37.2	39	14	25	0.0	35.2	34.9	29.9	0.0481	CL	A-6(13)
679+62.2 RT 34.9	BW-39	SS-17	88.5	15.8	NP	NP	NP	26.6	70.5	2.8		1.1575	SP	A-1-b(0)
679+62.2 RT 34.9	BW-39	SS-20	103.5	20.8	54	16	38	0.0	15.8	84.2			CH	A-7-6(33)
679+62.2 RT 34.9	BW-39	SS-25	128.5	25.8	NP	NP	NP	0.0	81.4	18.6		0.1386	SM	A-2-4(0)
683+01.9 LT 14.7	BW-40	SS-7	13.5	36.7	NP	NP	NP	0.0	49.7	50.3			ML	A-4(0)
683+01.9 LT 14.7	BW-40	T-1	23.5	62.3	43	17	26	0.0	11.2	88.8			CL	A-7-6(23)
683+01.9 LT 14.7	BW-40	T-3	43.5	162.3	NP	NP	NP	0.0	59.4	40.6		0.2348	SM	A-4(0)
683+01.9 LT 14.7	BW-40	T-4	53.5	38.5	56	19	37	0.0	6.2	93.8			CH	A-7-6(38)
683+01.9 LT 14.7	BW-40	SS-14	68.5	20.4	NP	NP	NP	1.3	94.8	4.0		0.4489	SP	A-1-b(0)
683+01.9 LT 14.7	BW-40	SS-17	83.5	20.8	NP	NP	NP	0.0	95.3	4.7		0.3182	SP	A-3(0)
683+01.9 LT 14.7	BW-40	SS-19	93.5	20.0	NP	NP	NP	1.5	94.3	4.2		0.4313	SP	A-1-b(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
683+01.9 LT 14.7	BW-40	SS-20	98.5	18.0	NP	NP	NP	10.9	82.6	6.4		0.6243	SP-SM	A-1-b(0)
683+01.9 LT 14.7	BW-40	SS-21	103.5	22.2	NP	NP	NP	2.8	93.7	3.5		0.2782	SP	A-3(0)
683+01.9 LT 14.7	BW-40	SS-23	113.5	17.2	47	12	35			79.2			CL	A-7-6(26)
683+01.9 LT 14.7	BW-40	SS-25	123.5	26.8	NP	NP	NP	0.0	74.4	25.6		0.0973	SM	A-2-4(0)
686+24.9 RT 17.1	BW-41	SS-3	3.0	198.1	NP	NP	NP	0.0	8.0	54.4	37.5	0.0133	ML	A-4(0)
686+24.9 RT 17.1	BW-41	SS-5	6.0	136.1	NP	NP	NP	0.0	27.4	41.8	30.8	0.0260	ML	A-4(0)
686+24.9 RT 17.1	BW-41	SS-7	13.5	42.2	NP	NP	NP	0.0	45.8	40.5	13.6	0.0674	ML	A-4(0)
686+24.9 RT 17.1	BW-41	T-1	23.0	53.5	59	22	37	0.0	8.5	54.0	37.5	0.0157	CH	A-7-6(38)
686+24.9 RT 17.1	BW-41	T-3	38.0	76.1	101	31	70	0.0	1.0	25.2	73.8		CH	A-7-5(83)
686+24.9 RT 17.1	BW-41	T-4	48.0	39.8	61	20	41	0.0	15.8	84.2			CH	A-7-6(36)
686+24.9 RT 17.1	BW-41	SS-12	53.5	29.9	NP	NP	NP	0.0	73.3	26.7		0.1404	SM	A-2-4(0)
686+24.9 RT 17.1	BW-41	SS-13	58.5	28.6	NP	NP	NP	0.0	59.8	40.2		0.0946	SM	A-4(0)
686+24.9 RT 17.1	BW-41	SS-16	73.5	18.4	NP	NP	NP	5.5	90.2	4.3		0.4959	SP	A-1-b(0)
686+24.9 RT 17.1	BW-41	SS-21	98.5	17.2	NP	NP	NP	21.7	70.4	7.9		0.6105	SW-SM	A-1-b(0)
686+24.9 RT 17.1	BW-41	SS-22	103.5	23.1	NP	NP	NP	0.0	43.9	56.1			ML	A-4(0)
686+24.9 RT 17.1	BW-41	SS-24	113.5	18.5	NP	NP	NP			83.0			ML	A-4(0)
686+24.9 RT 17.1	BW-41	SS-25	118.5	19.9	43	16	27			90.9			CL	A-7-6(25)
686+24.9 RT 17.1	BW-41	SS-26	123.5	23.8	NP	NP	NP			44.0			SM	A-4(0)
687+64.2 RT 31.7	BW-42	SS-4	4.5	85.8	NP	NP	NP	0.0	49.8	50.2			ML	A-4(0)
687+64.2 RT 31.7	BW-42	SS-6	8.5	80.0	46	24	22	0.0	19.9	80.1			CL	A-7-6(18)
687+64.2 RT 31.7	BW-42	SS-7	13.5	32.1	NP	NP	NP	0.0	74.5	25.5		0.1620	SM	A-2-4(0)
687+64.2 RT 31.7	BW-42	T-1	23.5	53.3	65	20	45	0.2	3.2	96.6			CH	A-7-6(49)
687+64.2 RT 31.7	BW-42	T-2	33.5	74.2	86	33	53	0.0	1.0	99.0			CH	A-7-5(64)
687+64.2 RT 31.7	BW-42	T-3	43.5	108.7	91	39	52	0.0	3.8	35.3	60.9	0.0020	CH	A-7-5(62)
687+64.2 RT 31.7	BW-42	T-4	53.5	36.1	55	20	35	0.0	2.8	32.1	65.0	0.0012	CH	A-7-6(38)
687+64.2 RT 31.7	BW-42	SS-14	73.5	21.3	NP	NP	NP	5.7	88.7	5.6		0.6118	SP-SM	A-1-b(0)
687+64.2 RT 31.7	BW-42	SS-17	88.5	19.1	NP	NP	NP	6.4	91.0	2.6		0.5527	SP	A-1-b(0)
687+64.2 RT 31.7	BW-42	SS-19	98.5	13.2	NP	NP	NP	18.3	77.3	4.4		0.7436	SP	A-1-b(0)
687+64.2 RT 31.7	BW-42	SS-20	103.5	24.7	39	18	21			85.8			CL	A-6(18)
687+64.2 RT 31.7	BW-42	SS-21	108.5	35.6	NP	NP	NP	0.0	74.8	25.2		0.1243	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
687+64.2 RT 31.7	BW-42	SS-24	123.5	26.4	36	9	27	0.0	63.0	37.0		0.0976	SC	A-6(4)
692+72.7 LT 06.1	BW-43	SS-4	4.5	83.0	NP	NP	NP	0.6	50.1	49.4		0.0764	SM	A-4(0)
692+72.7 LT 06.1	BW-43	SS-5	6.0	34.0	NP	NP	NP	1.2	83.7	15.1		0.1570	SM	A-2-4(0)
692+72.7 LT 06.1	BW-43	SS-7	13.5	33.8	NP	NP	NP	1.0	77.5	21.4		0.1233	SM	A-2-4(0)
692+72.7 LT 06.1	BW-43	SS-8	18.5	50.4	62	19	43		9.0	91.0			CH	A-7-6(42)
692+72.7 LT 06.1	BW-43	T-2	33.5	68.2	92	26	66	0.0	0.9	99.1			CH	A-7-6(76)
692+72.7 LT 06.1	BW-43	T-3	43.5	112.0	89	39	50	0.0	13.1	86.9			MH	A-7-5(52)
692+72.7 LT 06.1	BW-43	T-4	53.5	37.0	47	17	30	0.0	5.9	94.1			CL	A-7-6(30)
692+72.7 LT 06.1	BW-43	SS-12	58.5	26.8	NP	NP	NP	1.3	49.2	49.6		0.0772	SM	A-4(0)
692+72.7 LT 06.1	BW-43	SS-13	63.5	22.0	NP	NP	NP	0.0	84.1	15.9		0.2118	SM	A-2-4(0)
692+72.7 LT 06.1	BW-43	SS-16	78.5	19.3	NP	NP	NP	5.7	89.8	4.5		0.4600	SP	A-1-b(0)
692+72.7 LT 06.1	BW-43	SS-21	103.5	13.1	NP	NP	NP	26.2	72.0	1.8		1.2155	SP	A-1-b(0)
692+72.7 LT 06.1	BW-43	SS-23	113.5	21.8	NP	NP	NP	1.8	84.0	14.2		0.2204	SM	A-2-4(0)
692+72.7 LT 06.1	BW-43	SS-25	123.5	22.8	39	15	24			31.7			SC	A-2-6(2)
692+72.7 LT 06.1	BW-43	SS-27	133.5	16.7	35	14	21	0.0	35.6	64.4			CL	A-6(10)
692+72.7 LT 06.1	BW-43	SS-30	148.5	21.0	NP	NP	NP	0.0	93.6	6.4		0.3164	SP-SM	A-3(0)
692+72.7 LT 06.1	BW-43	SS-33	163.5	24.2	NP	NP	NP	0.0	94.9	5.1		0.2949	SP-SM	A-3(0)
692+72.7 LT 06.1	BW-43	SS-34	168.5	22.2	NP	NP	NP	0.0	62.2	37.8		0.1056	SM	A-4(0)
692+72.7 LT 06.1	BW-43	SS-35	173.5	31.4	71	33	38			95.9			CH	A-7-5(44)
692+72.7 LT 06.1	BW-43	SS-36	178.5	27.0	67	14	53			88.8			CH	A-7-6(50)
696+22.8 RT 12.9	BW-44	SS-3	3.0	199.3	131	37	94			61.8			CH	A-7-5(57)
696+22.8 RT 12.9	BW-44	SS-5	6.0	77.9	NP	NP	NP	0.4	39.6	38.2	21.7	0.0519	ML	A-4(0)
696+22.8 RT 12.9	BW-44	SS-6	8.5	40.6	NP	NP	NP	0.0	68.9	23.1	8.0	0.1141	SM	A-2-4(0)
696+22.8 RT 12.9	BW-44	T-1	18.5	57.2	62	23	39	0.0	1.1	70.3	28.6	0.0243	CH	A-7-6(44)
696+22.8 RT 12.9	BW-44	T-2	28.5	64.5	78	27	51	0.0	18.9	24.9	56.3	0.0030	CH	A-7-6(45)
696+22.8 RT 12.9	BW-44	T-3	38.5	58.6	71	24	47	0.0	21.1	31.8	47.0	0.0067	CH	A-7-6(39)
696+22.8 RT 12.9	BW-44	T-4	48.5	26.7	57	18	39	0.0	10.9	89.1			CH	A-7-6(37)
696+22.8 RT 12.9	BW-44	SS-12	58.5	30.4	NP	NP	NP	0.0	70.9	29.1		0.1153	SM	A-2-4(0)
696+22.8 RT 12.9	BW-44	SS-14	68.5	19.6	NP	NP	NP	22.0	74.2	3.8		0.7299	SP	A-1-b(0)
696+22.8 RT 12.9	BW-44	SS-16	78.5	18.8	NP	NP	NP	4.4	91.5	4.1		0.5018	SP	A-1-b(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
696+22.8 RT 12.9	BW-44	SS-20	98.5	13.8	NP	NP	NP	2.4	96.8	0.8		0.6132	SP	A-1-b(0)
696+22.8 RT 12.9	BW-44	T-5	108.5	24.6	54	16	38	0.0	13.5	28.3	58.2	0.0020	CH	A-7-6(34)
696+22.8 RT 12.9	BW-44	SS-22	113.5	33.1	NP	NP	NP	0.0	78.0	22.0		0.1768	SM	A-2-4(0)
696+22.8 RT 12.9	BW-44	SS-24	123.5	22.8	39	17	22			89.0			CL	A-6(19)
700+34.3 RT 01.5	BW-45	SS-3	3.0	159.7	NP	NP	NP	0.0	8.8	91.2			ML	A-4(0)
700+34.3 RT 01.5	BW-45	SS-5	6.0	170.0	NP	NP	NP	0.0	43.1	56.9			ML	A-4(0)
700+34.3 RT 01.5	BW-45	T-1	23.5	70.8	72	21	51	0.0	1.1	98.9			CH	A-7-6(57)
700+34.3 RT 01.5	BW-45	T-2	33.5	77.9	100	31	69	0.0	1.1	98.9			CH	A-7-5(82)
700+34.3 RT 01.5	BW-45	T-3	43.5	91.0	98	27	71	3.9	26.3	69.7			CH	A-7-6(51)
700+34.3 RT 01.5	BW-45	SS-11	48.5	33.2	NP	NP	NP	0.0	61.1	38.9		0.0933	SM	A-4(0)
700+34.3 RT 01.5	BW-45	SS-12	53.5	25.6	NP	NP	NP	0.0	77.0	23.0		0.1353	SM	A-2-4(0)
700+34.3 RT 01.5	BW-45	SS-13	58.5	23.0	NP	NP	NP	0.0	88.3	11.7		0.2646	SP-SM	A-2-4(0)
700+34.3 RT 01.5	BW-45	SS-19	88.5	17.6	NP	NP	NP	3.5	90.9	5.6		0.4283	SP-SM	A-1-b(0)
700+34.3 RT 01.5	BW-45	SS-23	108.5	30.8	NP	NP	NP	0.0	41.3	58.7			ML	A-4(0)
700+34.3 RT 01.5	BW-45	SS-24	113.5	18.9	42	10	32	0.0	14.3	85.7			CL	A-7-6(26)
700+34.3 RT 01.5	BW-45	SS-26	123.5	24.4	60	17	43	0.0	2.9	97.1			CH	A-7-6(46)
701+77.8 RT 15.7	BW-46	SS-2	1.5	174.2	NP	NP	NP	0.0	13.3	86.7			ML	A-4(0)
701+77.8 RT 15.7	BW-46	SS-4	4.5	148.8	NP	NP	NP	0.1	7.3	92.5			ML	A-4(0)
701+77.8 RT 15.7	BW-46	SS-7	13.5	73.7	NP	NP	NP	0.0	12.0	88.0			ML	A-4(0)
701+77.8 RT 15.7	BW-46	T-1	18.5	33.5	NP	NP	NP	0.0	75.2	24.8		0.0982	SM	A-2-4(0)
701+77.8 RT 15.7	BW-46	T-2	33.5	65.0	87	25	62	0.0	2.1	97.9			CH	A-7-6(71)
701+77.8 RT 15.7	BW-46	T-3	43.5	149.0	NP	NP	NP	0.0	26.4	73.6			ML	A-4(0)
701+77.8 RT 15.7	BW-46	T-4	53.5	21.5	NP	NP	NP	0.0	56.5	43.5		0.0853	SM	A-4(0)
701+77.8 RT 15.7	BW-46	SS-13	63.5	18.6	NP	NP	NP	1.8	94.2	4.0		0.6037	SP	A-1-b(0)
701+77.8 RT 15.7	BW-46	SS-18	88.5	21.2	NP	NP	NP	4.1	93.1	2.8		0.4531	SP	A-1-b(0)
701+77.8 RT 15.7	BW-46	SS-21	103.5	19.8	34	12	22	0.0	44.8	55.2			CL	A-6(8)
701+77.8 RT 15.7	BW-46	SS-23	113.5	23.0	NP	NP	NP	0.0	90.2	9.8		0.1865	SP-SM	A-3(0)
701+77.8 RT 15.7	BW-46	SS-25	123.5	22.2	45	12	33			91.5			CL	A-7-6(31)
704+81.5 RT 21.5	BW-47	SS-2	1.5	144.6	NP	NP	NP	0.0	20.2	79.8			ML	A-4(0)
704+81.5 RT 21.5	BW-47	SS-4	4.5	155.3	NP	NP	NP	0.0	14.3	85.7			ML	A-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
704+81.5 RT 21.5	BW-47	SS-5	6.0	119.0	NP	NP	NP	0.0	16.0	84.0			ML	A-4(0)
704+81.5 RT 21.5	BW-47	SS-8	18.5	47.4	NP	NP	NP	0.0	11.3	88.7			ML	A-4(0)
704+81.5 RT 21.5	BW-47	T-1	23.5	53.2	62	21	41	0.0	11.9	88.1			CH	A-7-6(39)
704+81.5 RT 21.5	BW-47	T-2	33.5	67.3	89	27	62	0.0	2.4	97.6			CH	A-7-6(71)
704+81.5 RT 21.5	BW-47	T-3	43.5	117.0	NP	NP	NP	0.0	26.0	74.0			ML	A-4(0)
704+81.5 RT 21.5	BW-47	T-4	53.5	29.7	44	17	27	0.0	17.5	82.5			CL	A-7-6(22)
704+81.5 RT 21.5	BW-47	T-5	63.5	29.1	NP	NP	NP	0.0	50.1	49.9		0.0752	SM	A-4(0)
704+81.5 RT 21.5	BW-47	SS-15	78.5	22.0	NP	NP	NP	0.0	95.1	4.9		0.3848	SP	A-3(0)
704+81.5 RT 21.5	BW-47	SS-18	93.5	20.1	NP	NP	NP	5.6	90.4	4.0		0.6096	SP	A-1-b(0)
704+81.5 RT 21.5	BW-47	SS-21	108.5	22.2	NP	NP	NP	0.0	45.9	54.1			ML	A-4(0)
704+81.5 RT 21.5	BW-47	SS-22	113.5	26.8	NP	NP	NP	0.0	61.1	38.9		0.1151	SM	A-4(0)
704+81.5 RT 21.5	BW-47	SS-23	118.5	21.5	48	18	30	0.0	6.5	93.5			CL	A-7-6(30)
708+11.3 RT 35.3	BW-48	SS-4	4.5	129.6	93	27	66	0.0	20.8	79.2			CH	A-7-6(56)
708+11.3 RT 35.3	BW-48	SS-7	13.5	48.0	NP	NP	NP	0.0	33.0	67.0			ML	A-4(0)
708+11.3 RT 35.3	BW-48	SS-8	18.5	51.2	38	20	18	0.0	6.6	93.4			CL	A-6(17)
708+11.3 RT 35.3	BW-48	T-1	23.5	55.2	65	24	41	0.0	8.5	91.5			CH	A-7-6(42)
708+11.3 RT 35.3	BW-48	T-2	38.5	62.5	80	29	51	0.0	6.1	93.9			CH	A-7-6(56)
708+11.3 RT 35.3	BW-48	T-3	48.5	38.1	40	19	21	0.0	9.1	90.9			CL	A-6(20)
708+11.3 RT 35.3	BW-48	T-4	58.5	31.8	NP	NP	NP	0.0	42.5	57.5			ML	A-4(0)
708+11.3 RT 35.3	BW-48	SS-14	68.5	17.2	NP	NP	NP	9.8	80.6	9.6		0.6998	SW-SM	A-1-b(0)
708+11.3 RT 35.3	BW-48	SS-15	73.5	18.5	NP	NP	NP	4.6	89.9	5.5		0.5485	SP-SM	A-1-b(0)
708+11.3 RT 35.3	BW-48	SS-18	88.5	11.8	NP	NP	NP	35.4	60.6	4.0		2.1164	SP	A-1-a(0)
708+11.3 RT 35.3	BW-48	SS-21	103.5	15.2	NP	NP	NP	31.9	65.8	2.3		0.9087	SP	A-1-b(0)
708+11.3 RT 35.3	BW-48	SS-24	118.5	23.0	NP	NP	NP	5.4	91.0	3.6		0.5654	SP	A-1-b(0)
708+11.3 RT 35.3	BW-48	SS-27	133.5	24.4	NP	NP	NP	0.0	78.8	21.2		0.1503	SM	A-2-4(0)
708+11.3 RT 35.3	BW-48	SS-30	148.5	22.1	NP	NP	NP	0.0	89.4	10.6		0.2389	SP-SM	A-2-4(0)
711+23.2 RT 18.1	BW-49	SS-4	4.5	127.5	NP	NP	NP	0.0	22.5	77.5			ML	A-4(0)
711+23.2 RT 18.1	BW-49	SS-6	8.5	32.7	NP	NP	NP	3.3	61.6	35.2		0.1034	SM	A-2-4(0)
711+23.2 RT 18.1	BW-49	SS-7	13.5	45.6	34	17	17	0.0	35.2	64.8			CL	A-6(9)
711+23.2 RT 18.1	BW-49	T-1	23.5	56.8	63	24	39	0.0	2.7	97.3			CH	A-7-6(43)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
711+23.2 RT 18.1	BW-49	SS-10	33.5	70.5	100	31	69			96.5			CH	A-7-5(79)
711+23.2 RT 18.1	BW-49	T-2	38.5	60.4	83	22	61	0.0	11.6	88.4			CH	A-7-6(59)
711+23.2 RT 18.1	BW-49	T-3	48.5	61.3	73	23	50	0.0	7.2	92.8			CH	A-7-6(52)
711+23.2 RT 18.1	BW-49	T-4	58.5	25.4	NP	NP	NP	0.0	75.2	24.8		0.1354	SM	A-2-4(0)
711+23.2 RT 18.1	BW-49	SS-13	63.5	30.3	NP	NP	NP	0.0	65.3	34.7		0.1218	SM	A-2-4(0)
711+23.2 RT 18.1	BW-49	SS-16	78.5	15.6	NP	NP	NP	4.5	89.3	6.1		0.4374	SP-SM	A-1-b(0)
711+23.2 RT 18.1	BW-49	SS-19	93.5	13.5	NP	NP	NP	7.4	87.9	4.7		0.6536	SP	A-1-b(0)
711+23.2 RT 18.1	BW-49	SS-23	113.5	27.6	NP	NP	NP	0.0	45.3	54.7			ML	A-4(0)
711+23.2 RT 18.1	BW-49	SS-24	118.5	28.6	NP	NP	NP	0.0	38.0	62.0			ML	A-4(0)
711+23.2 RT 18.1	BW-49	SS-26	128.5	22.2	38	16	22			92.7			CL	A-6(20)
714+04.4 RT 50.4	BW-50	SS-3	3.0	79.8	NP	NP	NP	0.0	35.3	64.7			ML	A-4(0)
714+04.4 RT 50.4	BW-50	SS-6	8.5	39.0	NP	NP	NP	0.0	48.5	51.5			ML	A-4(0)
714+04.4 RT 50.4	BW-50	T-1	13.5	44.3	NP	NP	NP	0.0	27.3	72.7			ML	A-4(0)
714+04.4 RT 50.4	BW-50	T-2	23.5	56.7	63	24	39	0.0	2.0	98.0			CH	A-7-6(44)
714+04.4 RT 50.4	BW-50	T-4	43.5	38.7	41	17	24	0.0	15.2	84.8			CL	A-7-6(20)
714+04.4 RT 50.4	BW-50	T-5	53.5	81.7	81	36	45	1.0	1.8	97.3			CH	A-7-5(54)
714+04.4 RT 50.4	BW-50	SS-12	63.5	19.8	NP	NP	NP		82.7	15.4		0.3272	SM	A-2-4(0)
714+04.4 RT 50.4	BW-50	SS-15	78.5	18.3	NP	NP	NP	0.4	96.2	3.4		0.3786	SP	A-3(0)
714+04.4 RT 50.4	BW-50	SS-17	88.5	11.3	NP	NP	NP	24.5	71.7	3.9		1.1306	SP	A-1-b(0)
714+04.4 RT 50.4	BW-50	SS-19	98.5	18.8	NP	NP	NP	8.2	88.5	3.3		0.6640	SP	A-1-b(0)
714+04.4 RT 50.4	BW-50	SS-20	103.5	21.9	44	9	35			84.2			CL	A-7-6(28)
714+04.4 RT 50.4	BW-50	SS-22	113.5	23.4	27	13	14			46.1			SC	A-6(3)
714+04.4 RT 50.4	BW-50	SS-23	118.5	24.4	NP	NP	NP	0.0	77.0	23.0		0.1592	SM	A-2-4(0)
714+04.4 RT 50.4	BW-50	SS-24	123.5	17.5	NP	NP	NP	0.0	55.9	44.1		0.0943	SM	A-4(0)
714+04.4 RT 50.4	BW-50	SS-25	128.5	21.8	53	14	39			91.0			CH	A-7-6(37)
717+70.2 RT 25.7	BW-51	SS-4	4.5	136.9	NP	NP	NP	0.0	28.7	42.0	29.3	0.0401	ML	A-4(0)
717+70.2 RT 25.7	BW-51	SS-6	8.5	34.8	NP	NP	NP	0.0	68.7	24.0	7.3	0.1048	SM	A-2-4(0)
717+70.2 RT 25.7	BW-51	T-1	23.5	51.8	63	21	42	0.0	1.5	65.8	32.7	0.0279	CH	A-7-6(46)
717+70.2 RT 25.7	BW-51	T-2	33.5	74.3	94	34	60	0.0	1.9	45.2	52.9	0.0037	CH	A-7-5(71)
717+70.2 RT 25.7	BW-51	T-3	43.5	53.5	53	19	34	0.0	11.1	58.5	30.4	0.0157	CH	A-7-6(32)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
717+70.2 RT 25.7	BW-51	T-4	53.5	31.4	60	19	41	0.0	10.5	89.5			CH	A-7-6(39)
717+70.2 RT 25.7	BW-51	T-5	63.5	27.4	32	18	14	0.0	21.0	79.0			CL	A-6(10)
717+70.2 RT 25.7	BW-51	SS-13	68.5	34.4	NP	NP	NP	0.0	56.7	43.3		0.0866	SM	A-4(0)
717+70.2 RT 25.7	BW-51	SS-15	78.5	28.6	NP	NP	NP	0.0	74.0	26.0		0.2666	SM	A-2-4(0)
717+70.2 RT 25.7	BW-51	SS-17	88.5	14.3	NP	NP	NP	12.0	80.2	7.8		0.4159	SP-SM	A-3(0)
717+70.2 RT 25.7	BW-51	SS-20	103.5	20.2	40	14	26	0.0	29.4	70.6			CL	A-6(16)
717+70.2 RT 25.7	BW-51	SS-21	108.5	21.5	NP	NP	NP	0.0	54.5	45.5		0.0824	SM	A-4(0)
717+70.2 RT 25.7	BW-51	SS-22	113.5	28.0	NP	NP	NP	0.0	75.3	24.7		0.1213	SM	A-2-4(0)
717+70.2 RT 25.7	BW-51	SS-24	123.5	20.1	45	14	31	0.0	4.3	95.7			CL	A-7-6(31)
720+52.3 RT 19.3	BW-52	SS-3	3.0	107.2	NP	NP	NP	0.0	21.3	78.7			ML	A-4(0)
720+52.3 RT 19.3	BW-52	SS-4	4.5	82.3	NP	NP	NP	0.1	47.4	52.4			ML	A-4(0)
720+52.3 RT 19.3	BW-52	SS-5	6.0	124.6	NP	NP	NP	0.0	22.1	77.9			ML	A-4(0)
720+52.3 RT 19.3	BW-52	SS-6	8.5	32.4	NP	NP	NP	0.0	76.0	24.0		0.1108	SM	A-2-4(0)
720+52.3 RT 19.3	BW-52	SS-8	18.5	53.5	63	22	41	0.0	4.7	95.3			CH	A-7-6(44)
720+52.3 RT 19.3	BW-52	T-1	23.5	62.2	78	23	55	0.0	1.1	98.9			CH	A-7-6(63)
720+52.3 RT 19.3	BW-52	SS-9	28.5	67.4	84	23	61	0.0	1.8	98.2			CH	A-7-6(69)
720+52.3 RT 19.3	BW-52	T-2	33.5	60.8	71	19	52	0.0	17.0	83.0			CH	A-7-6(46)
720+52.3 RT 19.3	BW-52	SS-10	38.5	34.7	NP	NP	NP	0.0	59.8	40.2		0.0967	SM	A-4(0)
720+52.3 RT 19.3	BW-52	T-4	53.5	34.7	47	18	29	0.0	6.9	93.1			CL	A-7-6(28)
720+52.3 RT 19.3	BW-52	SS-13	63.5	31.0	33	17	16	0.0	40.4	59.6			CL	A-6(7)
720+52.3 RT 19.3	BW-52	SS-14	68.5	26.8	NP	NP	NP	0.0	89.1	10.9		0.1784	SP-SM	A-2-4(0)
720+52.3 RT 19.3	BW-52	SS-16	78.5	22.2	NP	NP	NP	0.4	94.9	4.7		0.2995	SP	A-3(0)
720+52.3 RT 19.3	BW-52	SS-23	113.5	25.8	NP	NP	NP	0.0	86.4	13.6		0.1445	SM	A-2-4(0)
720+52.3 RT 19.3	BW-52	SS-24	118.5	26.0	NP	NP	NP	0.0	65.6	34.4		0.1022	SM	A-2-4(0)
720+52.3 RT 19.3	BW-52	SS-25	123.5	22.3	NP	NP	NP	0.0	55.9	44.1		0.0829	SM	A-4(0)
737+77.0 LT 22.6	BW-58	SS-4	4.5	41.2	NP	NP	NP	0.0	82.4	17.6		0.1189	SM	A-2-4(0)
737+77.0 LT 22.6	BW-58	SS-7	13.5	51.3	35	27	8	0.0	27.8	72.2			ML	A-4(5)
737+77.0 LT 22.6	BW-58	T-1	18.5	42.6	44	22	22	0.0	12.4	63.6	24.0	0.0339	CL	A-7-6(20)
737+77.0 LT 22.6	BW-58	T-2	28.5	60.9	84	27	57	0.3	1.7	43.0	54.9	0.0029	CH	A-7-6(65)
737+77.0 LT 22.6	BW-58	T-3	43.5	106.1	128	43	85	0.0	6.9	28.6	64.4	0.0021	CH	A-7-5(96)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
737+77.0 LT 22.6	BW-58	T-4	53.5	66.6	50	19	31	0.0	4.5	42.3	53.2	0.0040	CH	A-7-6(32)
737+77.0 LT 22.6	BW-58	SS-13	68.5	22.7	NP	NP	NP	0.0	88.9	11.1		0.2365	SP-SM	A-2-4(0)
737+77.0 LT 22.6	BW-58	SS-15	78.5	22.3	NP	NP	NP	3.6	92.0	4.4		0.3466	SP	A-3(0)
737+77.0 LT 22.6	BW-58	SS-19	98.5	15.4	NP	NP	NP	6.8	88.5	4.7		0.8216	SP	A-1-b(0)
737+77.0 LT 22.6	BW-58	SS-21	108.5	13.1	NP	NP	NP	33.6	57.0	9.4		0.7810	SP-SM	A-1-b(0)
737+77.0 LT 22.6	BW-58	T-6	118.5	18.7	NP	NP	NP	0.0	47.0	37.2	15.8	0.0685	ML	A-4(0)
737+77.0 LT 22.6	BW-58	SS-25	133.5	12.2	36	10	26	0.0	26.1	73.9			CL	A-6(16)
737+77.0 LT 22.6	BW-58	SS-27	143.5	13.7	37	11	26	0.0	25.5	74.5			CL	A-6(17)
737+77.0 LT 22.6	BW-58	SS-30	158.5	23.8	NP	NP	NP	0.0	92.1	7.9		0.2398	SP-SM	A-3(0)
737+77.0 LT 22.6	BW-58	SS-32	168.5	25.0	NP	NP	NP	0.0	74.5	25.5		0.1401	SM	A-2-4(0)
737+77.0 LT 22.6	BW-58	SS-34	178.5	21.9	NP	NP	NP	0.0	93.4	6.6		0.3977	SP-SM	A-3(0)
740+35.8 RT 01.2	BW-59	SS-3	3.0	54.6	NP	NP	NP	0.2	90.5	9.3		0.1728	SP-SM	A-3(0)
740+35.8 RT 01.2	BW-59	SS-6	8.5	30.7	NP	NP	NP	0.0	65.9	34.1		0.0924	SM	A-2-4(0)
740+35.8 RT 01.2	BW-59	SS-7	13.5	45.4	52	29	23	0.0	19.1	80.9			MH	A-7-6(21)
740+35.8 RT 01.2	BW-59	T-1	18.5	39.3	52	18	34	0.0	7.5	92.5			CH	A-7-6(34)
740+35.8 RT 01.2	BW-59	T-2	28.5	58.9	81	25	56	0.0	1.4	98.6			CH	A-7-6(65)
740+35.8 RT 01.2	BW-59	T-3	38.5	55.5	73	24	49	0.0	3.3	96.7			CH	A-7-6(55)
740+35.8 RT 01.2	BW-59	T-4	48.5	113.7	160	75	85	2.4	18.6	78.9			MH	A-7-5(83)
740+35.8 RT 01.2	BW-59	T-5	58.5	29.3	61	20	41	0.0	3.2	96.8			CH	A-7-6(44)
740+35.8 RT 01.2	BW-59	T-6	68.5	30.0	57	20	37	0.0	0.7	99.3			CH	A-7-6(41)
740+35.8 RT 01.2	BW-59	SS-14	78.5	20.0	NP	NP	NP	7.0	86.2	6.8		0.4675	SP-SM	A-1-b(0)
740+35.8 RT 01.2	BW-59	SS-17	93.5	15.8	NP	NP	NP	27.9	65.8	6.2		0.8159	SP-SM	A-1-b(0)
740+35.8 RT 01.2	BW-59	SS-19	103.5	15.8	NP	NP	NP	7.1	91.6	1.3		0.5764	SP	A-1-b(0)
740+35.8 RT 01.2	BW-59	SS-23	123.5	16.0	39	12	27			77.6			CL	A-6(19)
740+35.8 RT 01.2	BW-59	SS-24	128.5	18.5	36	13	23			77.8			CL	A-6(16)
744+80.4 LT 64.9	BW-60	SS-4	4.5	33.8	NP	NP	NP	0.0	70.5	29.5		0.1055	SM	A-2-4(0)
744+80.4 LT 64.9	BW-60	SS-7	13.5	47.3	48	21	27	0.0	12.2	87.8			CL	A-7-6(25)
744+80.4 LT 64.9	BW-60	T-1	18.5	54.4	59	21	38		1.9	57.0	41.0	0.0161	CH	A-7-6(42)
744+80.4 LT 64.9	BW-60	T-2	28.5	66.6	86	27	59	0.0	1.8	38.3	60.0	0.0020	CH	A-7-6(68)
744+80.4 LT 64.9	BW-60	T-4	48.5	31.8	41	13	28	0.0	14.0	44.4	41.6	0.0182	CL	A-7-6(23)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
744+80.4 LT 64.9	BW-60	SS-11	53.5	26.1	32	13	19	0.0	59.3	40.7		0.0920	SC	A-6(3)
744+80.4 LT 64.9	BW-60	SS-13	68.5	17.5	NP	NP	NP	18.7	77.4	4.0		0.3934	SP	A-3(0)
744+80.4 LT 64.9	BW-60	SS-15	78.5	20.6	NP	NP	NP	3.8	91.8	4.4		0.4624	SP	A-1-b(0)
744+80.4 LT 64.9	BW-60	SS-18	93.5	21.5	NP	NP	NP	17.6	65.1	17.3		1.0507	SM	A-1-b(0)
744+80.4 LT 64.9	BW-60	SS-21	108.5	20.2	NP	NP	NP	0.0	87.8	12.2		0.1756	SM	A-2-4(0)
744+80.4 LT 64.9	BW-60	SS-24	123.5	20.4	38	17	21			82.0			CL	A-6(16)
744+80.4 LT 64.9	BW-60	SS-25	128.5	18.6	26	11	15	0.0	40.2	59.8			CL	A-6(6)
747+34.0 RT 06.1	BW-61	SS-4	4.5	25.7	NP	NP	NP	0.0	88.8	11.2		0.1774	SP-SM	A-2-4(0)
747+34.0 RT 06.1	BW-61	SS-6	8.5	22.3	NP	NP	NP	0.0	90.2	9.8		0.1871	SP-SM	A-3(0)
747+34.0 RT 06.1	BW-61	SS-9	28.5	74.0	85	26	59	0.0	1.5	98.5			CH	A-7-6(67)
747+34.0 RT 06.1	BW-61	T-3	48.5	89.8	110	37	73	0.0	9.4	29.5	61.0	0.0026	CH	A-7-5(79)
747+34.0 RT 06.1	BW-61	T-4	58.5	46.7	86	19	67	0.0	3.3	37.1	59.6	0.0027	CH	A-7-6(73)
747+34.0 RT 06.1	BW-61	SS-14	73.5	19.8	NP	NP	NP	33.4	57.1	9.5		0.5230	SP-SM	A-1-b(0)
747+34.0 RT 06.1	BW-61	SS-15	78.5	15.6	NP	NP	NP	12.3	85.4	2.3		0.6675	SP	A-1-b(0)
747+34.0 RT 06.1	BW-61	SS-16	83.5	17.3	NP	NP	NP	13.4	84.0	2.6		0.3882	SP	A-3(0)
747+34.0 RT 06.1	BW-61	SS-20	103.5	7.5	NP	NP	NP	49.0	48.0	3.0		4.5439	GW	A-1-a(0)
747+34.0 RT 06.1	BW-61	SS-24	123.5	19.5	NP	NP	NP	7.8	81.3	10.9		0.2151	SP-SM	A-2-4(0)
750+42.3 LT 19.6	BW-62	SS-3	3.0	33.0	NP	NP	NP	0.0	84.6	15.4		0.1507	SM	A-2-4(0)
750+42.3 LT 19.6	BW-62	SS-8	18.5	27.9	NP	NP	NP	0.0	13.6	70.2	16.2	0.0446	ML	A-4(0)
750+42.3 LT 19.6	BW-62	T-1	28.5	63.9	85	24	61	0.0	2.7	50.5	46.8	0.0063	CH	A-7-6(68)
750+42.3 LT 19.6	BW-62	SS-12	48.5	166.7	84	41	43	0.0	10.4	42.5	47.1	0.0061	MH	A-7-5(48)
750+42.3 LT 19.6	BW-62	T-3	58.5	31.8	47	16	31	0.0	5.5	37.9	56.6	0.0030	CL	A-7-6(31)
750+42.3 LT 19.6	BW-62	SS-15	73.5	24.9	NP	NP	NP	8.4	85.5	6.1		0.3411	SP-SM	A-3(0)
750+42.3 LT 19.6	BW-62	SS-17	83.5	22.8	NP	NP	NP	4.9	88.0	7.1		0.2933	SP-SM	A-3(0)
750+42.3 LT 19.6	BW-62	SS-20	98.5	14.3	NP	NP	NP	23.9	71.3	4.8		0.8027	SP	A-1-b(0)
750+42.3 LT 19.6	BW-62	SS-24	118.5	16.9	NP	NP	NP	1.4	77.5	21.1		0.1360	SM	A-2-4(0)
753+26.8 LT 16.8	BW-63	SS-2	1.5	27.5	NP	NP	NP	0.0	86.0	9.0	5.0	0.1753	SM	A-2-4(0)
753+26.8 LT 16.8	BW-63	SS-5	6.0	31.3	NP	NP	NP	3.8	85.5	7.6	3.2	0.1606	SP-SM	A-2-4(0)
753+26.8 LT 16.8	BW-63	SS-7	13.5	49.9	NP	NP	NP	0.0	36.5	48.0	15.5	0.0561	ML	A-4(0)
753+26.8 LT 16.8	BW-63	SS-8	18.5	44.3	52	22	30			85.4			CH	A-7-6(27)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
753+26.8 LT 16.8	BW-63	T-2	33.5	81.2	90	25	65	0.0	4.4	63.4	32.2	0.0178	CH	A-7-6(72)
753+26.8 LT 16.8	BW-63	SS-12	58.5	37.7	65	24	41			97.3			CH	A-7-6(46)
753+26.8 LT 16.8	BW-63	T-5	63.5	32.3	64	23	41	0.0	2.4	43.7	53.9	0.0038	CH	A-7-6(46)
753+26.8 LT 16.8	BW-63	SS-15	83.5	26.8	NP	NP	NP	0.0	95.6	4.4		0.2185	SP	A-3(0)
753+26.8 LT 16.8	BW-63	SS-17	93.5	27.6	NP	NP	NP	14.3	74.0	11.8		0.6583	SP-SM	A-1-b(0)
753+26.8 LT 16.8	BW-63	SS-18	98.5	60.2	75	24	51	0.0	5.0	42.1	52.9	0.0039	CH	A-7-6(55)
753+26.8 LT 16.8	BW-63	SS-19	103.5	19.4	NP	NP	NP	36.5	56.8	6.7		1.4650	SP-SM	A-1-b(0)
753+26.8 LT 16.8	BW-63	SS-22	118.5	28.5	NP	NP	NP	0.2	91.3	8.5		0.2083	SP-SM	A-3(0)
753+26.8 LT 16.8	BW-63	SS-24	128.5	21.7	38	16	22	0.0	16.5	83.5			CL	A-6(18)
753+26.8 LT 16.8	BW-63	SS-25	133.5	26.1	25	20	5	0.0	22.1	77.9			CL-ML	A-4(2)
753+26.8 LT 16.8	BW-63	SS-27	143.5	28.5	20	17	3	0.0	16.7	83.3			ML	A-4(0)
756+84.2 RT 21.2	BW-64	SS-3	3.0	30.1	NP	NP	NP	2.4	79.2	18.3		0.1599	SM	A-2-4(0)
756+84.2 RT 21.2	BW-64	SS-5	6.0	39.3	NP	NP	NP	0.0	61.1	38.9		0.0853	SM	A-4(0)
756+84.2 RT 21.2	BW-64	SS-7	13.5	45.2	43	23	20	0.0	12.8	87.2			CL	A-7-6(18)
756+84.2 RT 21.2	BW-64	SS-8	23.5	65.7	91	30	61	0.0	1.2	98.8			CH	A-7-5(72)
756+84.2 RT 21.2	BW-64	T-3	38.5	39.0	55	20	35	0.0	12.5	54.1	33.4	0.0267	CH	A-7-6(33)
756+84.2 RT 21.2	BW-64	SS-10	43.5	102.3	91	54	37	0.0	10.4	89.6			MH	A-7-5(45)
756+84.2 RT 21.2	BW-64	T-4	53.5	28.4	47	17	30	0.0	12.6	50.8	36.6	0.0186	CL	A-7-6(27)
756+84.2 RT 21.2	BW-64	T-5	68.5	30.1	53	19	34	0.0	5.4	45.6	49.0	0.0056	CH	A-7-6(35)
756+84.2 RT 21.2	BW-64	SS-16	83.5	23.9	NP	NP	NP	1.5	92.6	5.9		0.3483	SP-SM	A-3(0)
756+84.2 RT 21.2	BW-64	SS-18	93.5	19.8	NP	NP	NP	17.4	78.0	4.6		0.3941	SP	A-3(0)
756+84.2 RT 21.2	BW-64	SS-21	108.5	24.5	NP	NP	NP	8.2	86.6	5.2		0.3262	SP-SM	A-3(0)
756+84.2 RT 21.2	BW-64	SS-23	118.5	25.5	NP	NP	NP	9.2	85.9	4.9		0.3420	SP	A-3(0)
766+91.9 RT 30.4	BW-67	SS-4	4.5	26.8	NP	NP	NP	0.0	93.7	6.3		0.1631	SP-SM	A-3(0)
766+91.9 RT 30.4	BW-67	SS-5	6.0	30.8	NP	NP	NP	0.0	92.5	7.5		0.1623	SP-SM	A-3(0)
766+91.9 RT 30.4	BW-67	SS-7	13.5	40.2	NP	NP	NP	0.0	35.1	64.9			ML	A-4(0)
766+91.9 RT 30.4	BW-67	T-1	23.5	52.1	67	26	41	0.0	1.8	64.7	33.5	0.0161	CH	A-7-6(47)
766+91.9 RT 30.4	BW-67	SS-9	28.5	59.7	85	31	54	0.0	3.7	96.3			CH	A-7-5(62)
766+91.9 RT 30.4	BW-67	T-3	43.5	85.6	81	38	43	0.0	6.6	51.5	41.9	0.0085	MH	A-7-5(49)
766+91.9 RT 30.4	BW-67	T-4	58.5	34.3	61	22	39	0.0	4.0	43.7	52.3	0.0039	CH	A-7-6(42)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
766+91.9 RT 30.4	BW-67	SS-14	73.5	24.6	NP	NP	NP	1.2	89.1	9.7		0.3483	SP-SM	A-3(0)
766+91.9 RT 30.4	BW-67	SS-17	88.5	13.6	NP	NP	NP	31.8	64.7	3.4		1.9693	SP	A-1-a(0)
766+91.9 RT 30.4	BW-67	SS-19	98.5	24.5	NP	NP	NP	0.0	41.8	58.2			ML	A-4(0)
766+91.9 RT 30.4	BW-67	SS-22	113.5	26.3	28	11	17	0.0	92.6	7.4		0.2891	SP-SC	A-2-6(0)
798+32.8 RT 05.1	BW-78	SS-2	1.5	41.0	NP	NP	NP	0.0	79.3	10.8	9.9	0.1612	SM	A-2-4(0)
798+32.8 RT 05.1	BW-78	SS-4	4.5	22.6	NP	NP	NP	0.0	87.8	8.7	3.5	0.1662	SM	A-2-4(0)
798+32.8 RT 05.1	BW-78	SS-6	8.5	23.8	NP	NP	NP	0.0	90.8	6.7	2.5	0.2029	SP-SM	A-3(0)
798+32.8 RT 05.1	BW-78	T-1	23.5	53.2	NP	NP	NP	30.4	32.3	12.4	19.0	2.0184	GM	A-2-4(0)
798+32.8 RT 05.1	BW-78	T-2	33.5	64.3	77	24	53	0.0	12.4	41.5	46.1	0.0091	CH	A-7-6(52)
798+32.8 RT 05.1	BW-78	SS-11	48.5	127.2	81	52	29			67.4			MH	A-7-5(23)
798+32.8 RT 05.1	BW-78	SS-14	63.5	52.7	80	28	52			94.5			CH	A-7-6(58)
798+32.8 RT 05.1	BW-78	SS-16	73.5	23.3	NP	NP	NP	4.4	90.9	4.7		0.3729	SP	A-3(0)
798+32.8 RT 05.1	BW-78	SS-17	78.5	8.4	NP	NP	NP	48.5	49.0	2.5		4.2267	SP	A-1-a(0)
798+32.8 RT 05.1	BW-78	SS-19	88.5	31.4	66	25	41	17.3	3.3	79.4			CH	A-7-6(34)
798+32.8 RT 05.1	BW-78	SS-20	93.5	23.2	NP	NP	NP	0.0	41.6	58.4			ML	A-4(0)
798+32.8 RT 05.1	BW-78	SS-21	98.5	26.5	NP	NP	NP	0.0	90.6	9.4		0.1474	SP-SM	A-3(0)
798+32.8 RT 05.1	BW-78	SS-24	113.5	27.6	NP	NP	NP	0.3	92.3	7.4		0.1914	SP-SM	A-3(0)
798+32.8 RT 05.1	BW-78	SS-28	133.5	25.2	52	20	32	0.0	6.1	93.9			CH	A-7-6(33)
798+32.8 RT 05.1	BW-78	SS-31	148.5	17.2	36	15	21	0.0	47.4	52.6			CL	A-6(7)
801+32.7 RT 03.6	BW-79	SS-1	0.0	45.7	NP	NP	NP	0.0	67.7	32.3		0.1068	SM	A-2-4(0)
801+32.7 RT 03.6	BW-79	SS-4	4.5	26.1	NP	NP	NP	0.0	90.0	10.0		0.1919	SP-SM	A-3(0)
801+32.7 RT 03.6	BW-79	SS-7	13.5	25.0	NP	NP	NP	0.1	89.2	10.7		0.2212	SP-SM	A-2-4(0)
801+32.7 RT 03.6	BW-79	SS-8	18.5	33.7	40	21	19	0.0	35.7	64.3			CL	A-6(10)
801+32.7 RT 03.6	BW-79	SS-9	28.5	66.6	85	24	61	0.2	3.8	96.0			CH	A-7-6(67)
801+32.7 RT 03.6	BW-79	T-3	43.5	27.5	NP	NP	NP	0.0	39.1	32.6	28.2	0.0456	ML	A-4(0)
801+32.7 RT 03.6	BW-79	SS-14	63.5	39.9	40	15	25	0.0	36.9	63.1			CL	A-6(13)
801+32.7 RT 03.6	BW-79	SS-16	73.5	24.1	NP	NP	NP	0.1	86.2	13.8		0.2307	SM	A-2-4(0)
801+32.7 RT 03.6	BW-79	SS-21	98.5	21.5	33	12	21	0.0	12.1	87.9			CL	A-6(17)
801+32.7 RT 03.6	BW-79	SS-22	103.5	21.6	25	18	7	0.0	28.0	72.0			CL-ML	A-4(3)
801+32.7 RT 03.6	BW-79	SS-23	108.5	24.7	18	14	4	0.0	71.1	28.9		0.1692	SC-SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
801+32.7 RT 03.6	BW-79	SS-25	118.5	25.8	NP	NP	NP	0.0	92.4	7.6		0.2653	SP-SM	A-3(0)
804+32.5 RT 03.8	BW-80	SS-7	13.5	33.8	NP	NP	NP	0.1	35.3	64.7			ML	A-4(0)
804+32.5 RT 03.8	BW-80	SS-8	18.5	53.1	61	21	40	0.0	4.3	95.7			CH	A-7-6(43)
804+32.5 RT 03.8	BW-80	T-1	23.5	73.2	92	28	64	0.0	1.8	46.0	52.2	0.0040	CH	A-7-6(74)
804+32.5 RT 03.8	BW-80	SS-9	28.5	61.7	79	25	54	0.0	10.9	89.1			CH	A-7-6(54)
804+32.5 RT 03.8	BW-80	SS-10	38.5	31.3	27	15	12	0.0	60.1	39.9		0.1192	SC	A-6(1)
804+32.5 RT 03.8	BW-80	T-3	53.5	39.9	67	22	45	0.0	3.3	36.3	60.4	0.0026	CH	A-7-6(49)
804+32.5 RT 03.8	BW-80	SS-14	63.5	26.0	NP	NP	NP	0.0	88.9	11.1		0.1932	SP-SM	A-2-4(0)
804+32.5 RT 03.8	BW-80	SS-16	73.5	20.5	NP	NP	NP	0.1	96.5	3.3		0.3403	SP	A-3(0)
804+32.5 RT 03.8	BW-80	SS-18	83.5	17.8	NP	NP	NP	18.9	78.4	2.7		0.6332	SP	A-1-b(0)
804+32.5 RT 03.8	BW-80	SS-19	88.5	12.5	NP	NP	NP	12.3	86.0	1.7		1.3496	SP	A-1-b(0)
804+32.5 RT 03.8	BW-80	SS-20	93.5	22.0	56	17	39			92.1			CH	A-7-6(38)
804+32.5 RT 03.8	BW-80	SS-22	103.5	18.3	37	16	21	0.0	56.8	43.2		0.0960	SC	A-6(5)
804+32.5 RT 03.8	BW-80	SS-23	108.5	21.3	NP	NP	NP	0.0	73.8	26.2		0.1688	SM	A-2-4(0)
804+32.5 RT 03.8	BW-80	SS-25	118.5	12.8	49	16	33			87.1			CL	A-7-6(29)
822+32.4 LT 01.2	BW-86	SS-4	4.5	50.7	NP	NP	NP	0.0	62.6	37.4		0.1079	SM	A-4(0)
822+32.4 LT 01.2	BW-86	SS-7	13.5	59.2	NP	NP	NP	2.3	61.8	35.9		0.0925	SM	A-4(0)
822+32.4 LT 01.2	BW-86	T-1	23.5	43.9	38	21	17	1.2	8.8	64.8	25.2	0.0365	CL	A-6(16)
822+32.4 LT 01.2	BW-86	T-2	33.5	57.5	68	24	44	0.0	6.5	93.5			CH	A-7-6(46)
822+32.4 LT 01.2	BW-86	T-4	48.5	54.5	61	24	37	0.0	5.9	46.9	47.2	0.0062	CH	A-7-6(39)
822+32.4 LT 01.2	BW-86	T-5	58.5	45.6	38	18	20	0.0	15.1	84.9			CL	A-6(17)
822+32.4 LT 01.2	BW-86	SS-13	63.5	30.9	NP	NP	NP	0.0	73.9	26.1		0.1581	SM	A-2-4(0)
822+32.4 LT 01.2	BW-86	SS-15	78.5	24.9	NP	NP	NP	0.0	92.8	7.2		0.2927	SP-SM	A-3(0)
822+32.4 LT 01.2	BW-86	SS-19	98.5	20.6	NP	NP	NP	0.6	92.5	7.0		0.3270	SP-SM	A-3(0)
822+32.4 LT 01.2	BW-86	SS-20	103.5	11.4	36	14	22			69.4			CL	A-6(13)
822+32.4 LT 01.2	BW-86	SS-21	108.5	27.9	33	13	20	0.0	21.4	78.6			CL	A-6(14)
825+32.5 LT 01.6	BW-87	SS-3	3.0	77.9	NP	NP	NP	0.0	20.9	79.1			ML	A-4(0)
825+32.5 LT 01.6	BW-87	SS-8	18.5	37.0	NP	NP	NP	0.2	20.4	79.4			ML	A-4(0)
825+32.5 LT 01.6	BW-87	T-1	28.5	57.7	71	26	45	0.0	3.0	44.0	52.9	0.0039	CH	A-7-6(51)
825+32.5 LT 01.6	BW-87	SS-12	43.5	46.8	45	18	27			93.0			CL	A-7-6(26)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
825+32.5 LT 01.6	BW-87	SS-13	53.5	49.1	57	18	39	0.0	3.0	97.0			CH	A-7-6(41)
825+32.5 LT 01.6	BW-87	SS-15	68.5	22.1	NP	NP	NP	0.4	65.0	34.6		0.3182	SM	A-2-4(0)
825+32.5 LT 01.6	BW-87	SS-17	78.5	18.7	NP	NP	NP	14.4	75.5	10.2		0.6268	SW-SM	A-1-b(0)
825+32.5 LT 01.6	BW-87	SS-19	88.5	14.2	NP	NP	NP			3.8				A-3(0)
825+32.5 LT 01.6	BW-87	SS-21	98.5	29.9	41	17	24			71.4			CL	A-7-6(15)
825+32.5 LT 01.6	BW-87	SS-23	108.5	22.3	57	21	36			93.7			CH	A-7-6(37)
828+36.7 RT 22.6	BW-88	SS-5	6.0	38.9	NP	NP	NP	0.0	69.3	30.7		0.1127	SM	A-2-4(0)
828+36.7 RT 22.6	BW-88	SS-8	18.5	44.1	32	23	9	0.0	17.4	82.6			CL	A-4(7)
828+36.7 RT 22.6	BW-88	T-1	23.5	60.7	74	27	47	0.0	1.6	50.4	48.1	0.0061	CH	A-7-6(54)
828+36.7 RT 22.6	BW-88	T-3	43.5	52.6	72	21	51	0.0	14.8	85.2			CH	A-7-6(47)
828+36.7 RT 22.6	BW-88	SS-16	78.5	24.7	NP	NP	NP	0.3	91.4	8.3		0.3046	SP-SM	A-3(0)
828+36.7 RT 22.6	BW-88	SS-19	93.5	26.9	NP	NP	NP			23.8			SM	A-2-4(0)
828+36.7 RT 22.6	BW-88	SS-21	103.5	29.7	NP	NP	NP	0.0	84.6	15.4		0.1266	SM	A-2-4(0)
828+36.7 RT 22.6	BW-88	SS-24	118.5	20.3	43	14	29	0.0	24.3	75.7			CL	A-7-6(20)
828+36.7 RT 22.6	BW-88	SS-25	123.5	29.3	41	13	28	0.0	17.0	83.0			CL	A-7-6(22)
828+36.7 RT 22.6	BW-88	SS-30	148.5	24.6	NP	NP	NP	0.0	92.2	7.8		0.2490	SP-SM	A-3(0)
831+34.9 LT 08.6	BW-89	SS-2	1.5	64.0	105	27	78			74.7			CH	A-7-6(62)
831+34.9 LT 08.6	BW-89	SS-7	13.5	41.1	NP	NP	NP	0.5	61.4	38.1		0.0829	SM	A-4(0)
831+34.9 LT 08.6	BW-89	T-1	18.5	36.4	NP	NP	NP	0.0	30.7	69.3			ML	A-4(0)
831+34.9 LT 08.6	BW-89	T-4	43.5	50.3	61	20	41			88.1			CH	A-7-6(39)
831+34.9 LT 08.6	BW-89	SS-11	58.5	56.5	38	18	20	0.0	71.9	28.1		0.2061	SC	A-2-6(1)
831+34.9 LT 08.6	BW-89	SS-14	73.5	19.3	NP	NP	NP	0.0	93.1	6.9		0.3339	SP-SM	A-3(0)
831+34.9 LT 08.6	BW-89	SS-18	93.5	23.4	56	17	39	0.0	3.7	96.3			CH	A-7-6(41)
831+34.9 LT 08.6	BW-89	SS-22	113.5	26.8	24	13	11	0.0	57.2	42.8		0.0899	SC	A-6(1)
834+30.9 RT 09.9	BW-90	SS-1	0.0	112.8	102	33	69	0.0	11.1	43.1	45.8	0.0086	CH	A-7-5(71)
834+30.9 RT 09.9	BW-90	SS-6	8.5	44.6	NP	NP	NP	0.0	22.3	63.9	13.8	0.0497	ML	A-4(0)
834+30.9 RT 09.9	BW-90	SS-8	28.5	30.3	28	13	15	0.0	56.8	23.0	20.1	0.1544	SC	A-6(3)
834+30.9 RT 09.9	BW-90	SS-11	43.5	16.7	NP	NP	NP	2.3	93.5	3.1	1.0	0.3866	SP	A-3(0)
834+30.9 RT 09.9	BW-90	SS-16	68.5	19.6	NP	NP	NP	22.4	74.2	3.4		0.6211	SP	A-1-b(0)
834+30.9 RT 09.9	BW-90	SS-18	78.5	26.4	NP	NP	NP	0.4	74.2	25.4		0.1750	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
834+30.9 RT 09.9	BW-90	SS-19	83.5	23.1	54	17	37	0.0	15.4	84.6			CH	A-7-6(32)
834+30.9 RT 09.9	BW-90	SS-21	93.5	16.8	30	14	16			46.8			SC	A-6(4)
834+30.9 RT 09.9	BW-90	SS-24	108.5	26.1	54	17	37			89.9			CH	A-7-6(35)
834+30.9 RT 09.9	BW-90	SS-26	118.5	27.9	29	15	14	0.0	41.1	58.9			CL	A-6(5)
837+17.1 LT 06.5	BW-91	SS-3	3.0	31.2	NP	NP	NP	2.0	74.3	23.7		0.1224	SM	A-2-4(0)
837+17.1 LT 06.5	BW-91	SS-8	18.5	63.1	73	24	49			92.1			CH	A-7-6(51)
837+17.1 LT 06.5	BW-91	T-2	38.5	59.7	56	19	37			89.8			CH	A-7-6(36)
837+17.1 LT 06.5	BW-91	SS-14	58.5	23.8	NP	NP	NP	0.7	95.2	4.1		0.3416	SP	A-3(0)
837+17.1 LT 06.5	BW-91	SS-17	73.5	24.5	NP	NP	NP	15.1	70.5	14.4		0.2035	SM	A-2-4(0)
837+17.1 LT 06.5	BW-91	SS-21	93.5	20.4	35	20	15			52.1			CL	A-6(5)
837+17.1 LT 06.5	BW-91	SS-25	113.5	18.3	37	17	20			74.3			CL	A-6(13)
840+33.2 RT 02.5	BW-92	SS-4	4.5	30.1	NP	NP	NP	0.0	94.0	3.8	2.2	0.1828	SP-SM	A-3(0)
840+33.2 RT 02.5	BW-92	SS-7	13.5	45.2	32	19	13	0.2	18.3	67.1	14.3	0.0481	CL	A-6(9)
840+33.2 RT 02.5	BW-92	SS-9	28.5	51.1	51	23	28	0.0	15.6	47.2	37.2	0.0167	CH	A-7-6(25)
840+33.2 RT 02.5	BW-92	SS-11	43.5	26.4	NP	NP	NP	0.1	91.6	8.3		0.2251	SP-SM	A-3(0)
840+33.2 RT 02.5	BW-92	T-4	73.5	31.4	61	26	35	11.2	71.4	17.5		0.2618	SC	A-2-7(1)
840+33.2 RT 02.5	BW-92	T-6	90.5	26.1	59	21	38	0.0	38.4	61.6			CH	A-7-6(21)
840+33.2 RT 02.5	BW-92	SS-21	98.5	26.2	24	17	7	0.0	79.8	20.2		0.1596	SC-SM	A-2-4(0)
840+33.2 RT 02.5	BW-92	SS-23	108.5	22.7	28	14	14			69.3			CL	A-6(7)
843+28.3 RT 06.2	BW-93	SS-5	6.0	48.6	NP	NP	NP	0.0	76.3	23.7		0.1706	SM	A-2-4(0)
843+28.3 RT 06.2	BW-93	SS-8	18.5	41.2	NP	NP	NP	28.7	52.2	19.2		2.2432	SM	A-1-b(0)
843+28.3 RT 06.2	BW-93	T-2	28.5	44.9	76	33	43	0.0	9.1	90.9			CH	A-7-5(46)
843+28.3 RT 06.2	BW-93	SS-12	48.5	25.6	NP	NP	NP	1.0	93.9	5.1		0.2695	SP-SM	A-3(0)
843+28.3 RT 06.2	BW-93	SS-17	73.5	21.1	NP	NP	NP	5.9	89.8	4.4		0.3416	SP	A-3(0)
843+28.3 RT 06.2	BW-93	SS-19	88.5	32.2	53	21	32	0.0	13.3	86.7			CH	A-7-6(30)
843+28.3 RT 06.2	BW-93	SS-22	103.5	27.4	NP	NP	NP	0.0	90.6	9.4		0.1970	SP-SM	A-3(0)
843+28.3 RT 06.2	BW-93	SS-30	143.5	25.0	NP	NP	NP	0.4	92.0	7.6		0.2817	SP-SM	A-3(0)
846+35.5 LT 04.9	BW-94	SS-5	6.0	23.9	NP	NP	NP	0.0	88.2	11.8		0.2017	SP-SM	A-2-4(0)
846+35.5 LT 04.9	BW-94	SS-8	18.5	58.7	62	25	37	2.4	13.1	84.5			CH	A-7-6(34)
846+35.5 LT 04.9	BW-94	SS-9	28.5	31.7	35	16	19			53.5			CL	A-6(7)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
846+35.5 LT 04.9	BW-94	SS-11	38.5	29.3	NP	NP	NP	0.0	95.1	4.9		0.1635	SP	A-3(0)
846+35.5 LT 04.9	BW-94	SS-16	63.5	30.6	36	18	18			41.6			SC	A-6(3)
846+35.5 LT 04.9	BW-94	SS-19	78.5	25.9	NP	NP	NP	0.0	92.7	7.3		0.1843	SP-SM	A-3(0)
846+35.5 LT 04.9	BW-94	ST-3	90.5	31.0	67	28	39	0.0	3.5	96.5			CH	A-7-6(44)
846+35.5 LT 04.9	BW-94	SS-22	93.5	22.6	28	19	9			42.9			SC	A-4(1)
846+35.5 LT 04.9	BW-94	SS-26	113.5	24.8	NP	NP	NP	0.0	81.8	18.2		0.2357	SM	A-2-4(0)
849+45.7 RT 05.9	BW-95	SS-3	3.0	24.2	NP	NP	NP	0.0	83.4	10.2	6.4	0.2429	SM	A-2-4(0)
849+45.7 RT 05.9	BW-95	SS-7	13.5	48.1	52	22	30	0.0	11.9	56.5	31.6	0.0295	CH	A-7-6(28)
849+45.7 RT 05.9	BW-95	T-3	28.5	40.9	26	11	15	0.0	70.5	13.4	16.1	0.1722	SC	A-2-6(1)
849+45.7 RT 05.9	BW-95	SS-14	53.5	17.9	NP	NP	NP	15.3	80.7	4.0		0.4217	SP	A-1-b(0)
849+45.7 RT 05.9	BW-95	SS-19	78.5	24.2	NP	NP	NP	0.0	81.6	18.4		0.1881	SM	A-2-4(0)
849+45.7 RT 05.9	BW-95	SS-21	88.5	20.8	33	16	17			44.9			SC	A-6(4)
849+45.7 RT 05.9	BW-95	SS-23	98.5	22.8	27	16	11			35.9			SC	A-6(0)
849+45.7 RT 05.9	BW-95	SS-26	113.5	17.9	29	18	11	0.0	44.3	55.7			CL	A-6(3)
850+93.6 RT 36.5	BW-96	SS-2	1.5	33.8	NP	NP	NP	0.0	83.5	16.5		0.2012	SM	A-2-4(0)
850+93.6 RT 36.5	BW-96	SS-5	6.0	30.6	NP	NP	NP	0.0	89.6	10.4		0.1851	SP-SM	A-3(0)
850+93.6 RT 36.5	BW-96	T-2	28.5	60.2	47	21	26	0.0	37.6	6.5	55.9	0.0018	CL	A-7-6(14)
850+93.6 RT 36.5	BW-96	SS-15	58.5	22.6	NP	NP	NP	5.3	92.1	2.6		0.5858	SP	A-1-b(0)
850+93.6 RT 36.5	BW-96	SS-22	93.5	23.8	61	20	41			93.0			CH	A-7-6(42)
850+93.6 RT 36.5	BW-96	SS-24	103.5	23.2	NP	NP	NP	0.0	44.9	55.1			ML	A-4(0)
850+93.6 RT 36.5	BW-96	SS-26	113.5	15.2	31	12	19	0.0	43.3	56.7			CL	A-6(7)
855+28.8 CL	BW-97	SS-2	1.5	36.4	NP	NP	NP	0.0	78.5	21.5		0.1723	SM	A-2-4(0)
855+28.8 CL	BW-97	SS-6	8.5	28.3	NP	NP	NP	0.0	95.9	4.1		0.1863	SP	A-3(0)
855+28.8 CL	BW-97	SS-7	18.5	56.1	69	20	49			73.5			CH	A-7-6(36)
855+28.8 CL	BW-97	SS-14	58.5	23.2	NP	NP	NP	26.4	70.0	3.5		0.6642	SP	A-1-b(0)
855+28.8 CL	BW-97	T-3	75.5	20.8	36	13	23	0.0	9.9	90.1			CL	A-6(20)
855+28.8 CL	BW-97	SS-23	103.5	29.7	35	16	19	0.4	53.8	45.8		0.0872	SC	A-6(5)
855+28.8 CL	BW-97	SS-26	118.5	24.7	NP	NP	NP	3.2	79.2	17.6		0.2386	SM	A-2-4(0)
858+31.0 LT 05.8	BW-98	SS-1	0.0	100.8	NP	NP	NP	0.0	61.9	38.1		0.1530	SM	A-4(0)
858+31.0 LT 05.8	BW-98	SS-3	3.0	50.2	NP	NP	NP	0.0	80.5	19.5		0.2056	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
858+31.0 LT 05.8	BW-98	SS-5	6.0	31.0	NP	NP	NP	0.4	89.4	10.2		0.2221	SP-SM	A-3(0)
858+31.0 LT 05.8	BW-98	T-1	18.5	50.7	67	21	46	0.0	21.2	30.2	48.6	0.0059	CH	A-7-6(38)
858+31.0 LT 05.8	BW-98	SS-8	23.5	28.7	30	13	17	0.0	57.3	42.7		0.1025	SC	A-6(3)
858+31.0 LT 05.8	BW-98	SS-10	38.5	32.4	NP	NP	NP	0.0	30.8	69.2			ML	A-4(0)
858+31.0 LT 05.8	BW-98	SS-12	48.5	24.1	NP	NP	NP	3.0	92.2	4.8		0.3864	SP	A-3(0)
858+31.0 LT 05.8	BW-98	SS-15	63.5	25.9	29	18	11	5.4	12.4	82.2			CL	A-6(7)
858+31.0 LT 05.8	BW-98	SS-18	78.5	23.4	NP	NP	NP	0.0	57.6	42.4		0.0991	SM	A-4(0)
858+31.0 LT 05.8	BW-98	SS-23	103.5	23.1	44	18	26	0.0	10.7	89.3			CL	A-7-6(24)
858+31.0 LT 05.8	BW-98	SS-27	123.5	29.3	NP	NP	NP	0.0	91.9	8.1		0.2046	SP-SM	A-3(0)
858+31.0 LT 05.8	BW-98	SS-30	138.5	24.7	NP	NP	NP	0.0	92.3	7.7		0.2915	SP-SM	A-3(0)
861+38.2 LT 05.6	BW-99	SS-2	1.5	36.2	NP	NP	NP	0.0	75.1	24.9		0.1958	SM	A-2-4(0)
861+38.2 LT 05.6	BW-99	SS-4	4.5	30.3	NP	NP	NP	0.0	86.2	13.8		0.1840	SM	A-2-4(0)
861+38.2 LT 05.6	BW-99	SS-5	6.0	29.6	NP	NP	NP	0.0	88.9	11.1		0.1796	SP-SM	A-2-4(0)
861+38.2 LT 05.6	BW-99	SS-6	8.5	27.2	NP	NP	NP	0.0	88.9	11.1		0.1844	SP-SM	A-2-4(0)
861+38.2 LT 05.6	BW-99	T-1	23.5	29.7	33	14	19	0.0	51.8	27.3	21.0	0.0804	SC	A-6(5)
861+38.2 LT 05.6	BW-99	SS-9	28.5	39.7	76	21	55	0.0	8.9	91.1			CH	A-7-6(55)
861+38.2 LT 05.6	BW-99	SS-11	43.5	23.5	NP	NP	NP	0.1	94.7	5.3		0.2366	SP-SM	A-3(0)
861+38.2 LT 05.6	BW-99	SS-15	63.5	31.0	23	13	10	0.0	56.9	43.1		0.1041	SC	A-4(1)
861+38.2 LT 05.6	BW-99	SS-17	73.5	26.9	NP	NP	NP	0.0	49.4	50.6			ML	A-4(0)
861+38.2 LT 05.6	BW-99	SS-21	93.5	22.7	NP	NP	NP	0.0	61.1	38.9		0.0924	SM	A-4(0)
861+38.2 LT 05.6	BW-99	SS-23	103.5	25.0	53	22	31	0.0	10.1	89.9			CH	A-7-6(30)
861+38.2 LT 05.6	BW-99	SS-26	118.5	27.0	NP	NP	NP	0.3	92.0	7.7		0.2583	SP-SM	A-3(0)
864+33.2 LT 01.9	BW-100	SS-4	4.5	40.5	NP	NP	NP	0.0	86.5	13.5		0.2383	SM	A-2-4(0)
864+33.2 LT 01.9	BW-100	SS-6	8.5	35.7	25	21	4	0.8	32.2	66.9			CL-ML	A-4(1)
864+33.2 LT 01.9	BW-100	T-1	13.5	50.6	38	20	18	0.0	16.0	61.1	22.9	0.0409	CL	A-6(15)
864+33.2 LT 01.9	BW-100	T-2	23.5	32.3	34	15	19	0.0	53.0	23.1	23.9	0.0795	SC	A-6(5)
864+33.2 LT 01.9	BW-100	SS-12	48.5	22.5	NP	NP	NP		96.0	3.5		0.3661	SP	A-3(0)
864+33.2 LT 01.9	BW-100	SS-17	73.5	20.0	23	13	10		44.1	55.7			CL	A-4(2)
864+33.2 LT 01.9	BW-100	SS-18	78.5	26.6	NP	NP	NP		80.5	19.4		0.1786	SM	A-2-4(0)
864+33.2 LT 01.9	BW-100	SS-22	98.5	31.1	33	18	15	0.0	34.9	65.1			CL	A-6(7)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
864+33.2 LT 01.9	BW-100	SS-25	113.5	23.3	52	20	32	0.0	1.8	98.2			CH	A-7-6(35)
867+22.3 RT 03.4	BW-101	T-1	15.5	50.2	58	21	37	2.3	33.2	28.5	35.9	0.0230	CH	A-7-6(22)
867+34.4 CL	BW-101A	SS-8	18.5	40.1	48	14	34	0.3	42.8	56.9			CL	A-7-6(15)
867+34.4 CL	BW-101A	T-2	20.5	34.7	51	20	31	0.0	24.4	22.3	53.3	0.0032	CH	A-7-6(23)
867+34.4 CL	BW-101A	SS-9	23.5	28.7	27	12	15	1.2	57.2	41.7		0.1025	SC	A-6(2)
867+34.4 CL	BW-101A	SS-12	43.5	23.3	NP	NP	NP	2.8	92.2	5.0		0.3318	SP	A-3(0)
867+34.4 CL	BW-101A	SS-19	78.5	27.4	NP	NP	NP	0.0	42.9	57.1			ML	A-4(0)
867+34.4 CL	BW-101A	T-4	83.5	47.6	NP	NP	NP	0.0	32.2	30.6	37.2	0.0145	ML	A-4(0)
867+34.4 CL	BW-101A	SS-21	93.5	27.7	NP	NP	NP	0.0	95.8	4.2		0.2252	SP	A-3(0)
867+34.4 CL	BW-101A	SS-25	113.5	17.0	48	17	31	0.0	12.7	87.3			CL	A-7-6(28)
867+34.4 CL	BW-101A	SS-26	118.5	25.9	54	25	29	0.0	3.1	96.9			CH	A-7-6(32)
867+34.4 CL	BW-101A	SS-27	123.5	21.9	NP	NP	NP	0.0	30.0	70.0			ML	A-4(0)
870+26.4 RT 04.5	BW-102	SS-4	4.5	32.7	NP	NP	NP	0.0	60.7	39.3		0.1215	SM	A-4(0)
870+26.4 RT 04.5	BW-102	SS-5	6.0	43.5	33	20	13	0.0	21.7	78.3			CL	A-6(9)
870+26.4 RT 04.5	BW-102	T-1	8.5	41.2	33	22	11	0.0	16.9	60.8	22.3	0.0409	CL	A-6(9)
870+26.4 RT 04.5	BW-102	T-2	18.5	61.6	65	21	44	0.1	19.0	37.1	43.7	0.0086	CH	A-7-6(37)
870+26.4 RT 04.5	BW-102	T-3	28.5	33.4	75	23	52	0.0	4.8	26.7	68.5	0.0013	CH	A-7-6(56)
870+26.4 RT 04.5	BW-102	SS-10	43.5	30.9	NP	NP	NP	0.0	88.9	11.1		0.1832	SP-SM	A-2-4(0)
870+26.4 RT 04.5	BW-102	SS-15	68.5	26.6	32	14	18	1.6	52.4	46.1		0.1239	SC	A-6(4)
870+26.4 RT 04.5	BW-102	SS-18	83.5	31.9	NP	NP	NP	0.0	90.8	9.2		0.1927	SP-SM	A-3(0)
870+26.4 RT 04.5	BW-102	SS-21	98.5	23.0	40	16	24	0.0	7.7	92.3			CL	A-6(22)
870+26.4 RT 04.5	BW-102	SS-24	113.5	25.3	57	24	33	0.0	2.9	97.1			CH	A-7-6(37)
873+26.5 RT 03.0	BW-103	SS-4	4.5	31.4	NP	NP	NP	0.0	31.2	68.8			ML	A-4(0)
873+26.5 RT 03.0	BW-103	SS-5	6.0	48.6	40	26	14	0.0	21.1	78.9			ML	A-6(11)
873+26.5 RT 03.0	BW-103	T-1	8.0	42.5	33	21	12	0.0	9.3	66.4	24.2	0.0335	CL	A-6(11)
873+26.5 RT 03.0	BW-103	T-2	18.5	35.7	33	13	20	0.0	50.7	22.2	27.0	0.0765	SC	A-6(6)
873+26.5 RT 03.0	BW-103	SS-9	38.5	26.1	NP	NP	NP	0.0	92.9	7.1		0.1949	SP-SM	A-3(0)
873+26.5 RT 03.0	BW-103	SS-14	63.5	24.0	NP	NP	NP	0.0	95.8	4.2		0.3231	SP	A-3(0)
873+26.5 RT 03.0	BW-103	T-4	70.5	23.2	58	18	40	0.0	53.2	21.4	25.4	0.1287	SC	A-7-6(13)
873+26.5 RT 03.0	BW-103	SS-18	83.5	23.7	NP	NP	NP	0.0	96.8	3.2		0.4526	SP	A-1-b(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
873+26.5 RT 03.0	BW-103	SS-23	113.5	23.7	39	17	22	0.0	39.1	60.9			CL	A-6(11)
873+26.5 RT 03.0	BW-103	SS-25	123.5	17.5	44	18	26	0.0	28.5	71.5			CL	A-7-6(17)
873+26.5 RT 03.0	BW-103	SS-28	138.5	21.4	26	19	7	0.0	40.1	59.9			CL-ML	A-4(2)
873+26.5 RT 03.0	BW-103	SS-30	148.5	26.6	NP	NP	NP	0.0	76.2	23.8		0.1107	SM	A-2-4(0)
876+34.7 RT 06.7	BW-104	SS-3	3.0	34.7	NP	NP	NP	0.2	40.9	58.9			ML	A-4(0)
876+34.7 RT 06.7	BW-104	T-1	8.5	44.7	NP	NP	NP	0.0	14.1	61.8	24.1	0.0351	ML	A-4(0)
876+34.7 RT 06.7	BW-104	SS-9	34.5	30.0	37	18	19	0.0	30.5	69.5			CL	A-6(11)
876+34.7 RT 06.7	BW-104	SS-14	59.5	23.1	NP	NP	NP		81.7	18.3		0.2994	SM	A-2-4(0)
876+34.7 RT 06.7	BW-104	SS-18	79.5	24.7	NP	NP	NP	0.0	96.6	3.4		0.2924	SP	A-3(0)
876+34.7 RT 06.7	BW-104	T-4	101.5	43.9	52	21	31	2.4	46.5	22.5	28.6	0.0684	CH	A-7-6(12)
879+34.4 RT 03.4	BW-105	SS-6	8.5	43.0	41	21	20	0.0	24.9	75.1			CL	A-7-6(14)
879+34.4 RT 03.4	BW-105	T-1	18.0	33.0	27	12	15	0.0	57.7	19.4	22.9	0.1524	SC	A-6(2)
879+34.4 RT 03.4	BW-105	SS-11	38.5	22.0	NP	NP	NP	0.5	89.2	10.3		0.3954	SW-SM	A-3(0)
879+34.4 RT 03.4	BW-105	T-2	70.5	31.8	38	19	19	0.0	24.7	40.2	35.1	0.0326	CL	A-6(13)
879+34.4 RT 03.4	BW-105	T-3	78.5	48.6	73	28	45	0.0	20.8	45.3	33.9	0.0376	CH	A-7-6(38)
879+34.4 RT 03.4	BW-105	T-5	98.5	43.9	78	28	50	0.0	2.5	37.7	59.8	0.0025	CH	A-7-6(58)
882+31.1 RT 01.0	BW-106	SS-3	3.0	39.6	35	24	11	0.1	34.6	65.3			CL	A-6(6)
882+31.1 RT 01.0	BW-106	T-2	15.0	38.7	38	15	23	0.0	40.5	30.4	29.1	0.0524	CL	A-6(11)
882+31.1 RT 01.0	BW-106	T-3	27.0	50.6	60	28	32	0.0	8.7	29.1	62.2	0.0018	CH	A-7-6(34)
882+31.1 RT 01.0	BW-106	SS-10	40.0	24.1	NP	NP	NP	0.0	95.7	4.3		0.2797	SP	A-3(0)
882+31.1 RT 01.0	BW-106	SS-16	70.0	30.7	37	19	18	0.0	70.0	30.0		0.1575	SC	A-2-6(1)
882+31.1 RT 01.0	BW-106	T-6	100.0	51.2	52	21	31	0.0	33.9	27.2	38.9	0.0350	CH	A-7-6(19)
882+31.1 RT 01.0	BW-106	SS-21	105.0	20.0	NP	NP	NP	17.2	65.3	17.5		0.2211	SM	A-2-4(0)
882+31.1 RT 01.0	BW-106	SS-24	120.0	22.9	51	19	32	0.0	8.0	92.0			CH	A-7-6(31)
885+35.1 RT 13.4	BW-107	T-1	10.5	36.4	NP	NP	NP	0.0	33.1	66.8			ML	A-4(0)
885+35.1 RT 13.4	BW-107	SS-7	11.5	34.7	33	21	12	0.0	30.2	69.7			CL	A-6(7)
885+35.1 RT 13.4	BW-107	SS-8	21.5	31.3	NP	NP	NP	0.0	86.0	14.0		0.3353	SM	A-2-4(0)
885+35.1 RT 13.4	BW-107	T-3	28.5	44.4	84	23	61	0.0	11.0	89.0			CH	A-7-6(60)
885+35.1 RT 13.4	BW-107	T-4	36.0	44.3	71	21	50	0.0	18.6	81.4			CH	A-7-6(43)
885+35.1 RT 13.4	BW-107	SS-13	51.5	25.6	NP	NP	NP	0.0	95.1	4.9		0.2865	SP	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
885+35.1 RT 13.4	BW-107	SS-15	61.5	21.8	NP	NP	NP	0.5	95.5	4.0		0.4414	SP	A-1-b(0)
885+35.1 RT 13.4	BW-107	SS-16	66.5	21.8	NP	NP	NP	0.0	66.9	33.1		0.1081	SM	A-2-4(0)
885+35.1 RT 13.4	BW-107	SS-18	76.5	31.8	NP	NP	NP	0.0	87.4	12.6		0.1233	SM	A-2-4(0)
885+35.1 RT 13.4	BW-107	SS-20	86.5	28.3	NP	NP	NP	0.0	94.8	5.2		0.1825	SP-SM	A-3(0)
885+35.1 RT 13.4	BW-107	SS-24	106.5	26.2	30	12	18	0.0	35.2	64.8			CL	A-6(9)
888+31.2 RT 09.2	BW-108	SS-3	6.0	36.6	NP	NP	NP	0.0	30.2	69.8			ML	A-4(0)
888+31.2 RT 09.2	BW-108	SS-6	23.5	25.1	NP	NP	NP	0.0	89.3	10.7		0.3534	SP-SM	A-2-4(0)
888+31.2 RT 09.2	BW-108	T-3	38.5	50.6	72	24	48	0.0	13.1	86.9			CH	A-7-6(46)
888+31.2 RT 09.2	BW-108	SS-10	48.5	25.3	NP	NP	NP	0.0	93.9	6.1		0.2007	SP-SM	A-3(0)
888+31.2 RT 09.2	BW-108	SS-12	58.5	23.6	NP	NP	NP	0.0	92.7	7.3		0.1891	SP-SM	A-3(0)
888+31.2 RT 09.2	BW-108	SS-19	93.5	25.0	NP	NP	NP	0.0	94.6	5.4		0.3398	SP-SM	A-3(0)
888+31.2 RT 09.2	BW-108	SS-22	108.5	37.7	40	20	20	0.0	42.8	57.2			CL	A-6(9)
888+31.2 RT 09.2	BW-108	SS-24	118.5	26.9	NP	NP	NP	0.0	36.8	63.2			ML	A-4(0)
888+31.2 RT 09.2	BW-108	SS-26	128.5	36.5	45	19	26	0.0	11.9	88.1			CL	A-7-6(24)
888+31.2 RT 09.2	BW-108	SS-30	148.5	24.9	51	21	30	0.0	3.8	96.2			CH	A-7-6(32)
891+31.3 RT 07.6	BW-109	SS-6	8.5	46.5	34	22	12	0.0	33.6	66.4			CL	A-6(6)
891+31.3 RT 07.6	BW-109	SS-7	24.5	24.3	NP	NP	NP	0.0	89.6	10.4		0.3262	SP-SM	A-3(0)
891+31.3 RT 07.6	BW-109	SS-11	44.5	25.2	NP	NP	NP	0.0	96.3	3.7		0.2987	SP	A-3(0)
891+31.3 RT 07.6	BW-109	T-3	76.5	97.9	67	43	24	0.1	75.2	24.7		0.5851	SM	A-2-7(1)
891+31.3 RT 07.6	BW-109	T-4	84.5	73.4	44	18	26	0.0	25.8	74.2			CL	A-7-6(18)
891+31.3 RT 07.6	BW-109	SS-20	94.5	26.6	29	15	14	0.0	50.2	49.8		0.0753	SC	A-6(4)
891+31.3 RT 07.6	BW-109	SS-21	99.5	34.3	NP	NP	NP	1.6	37.0	61.4			ML	A-4(0)
894+44.3 RT 18.5	BW-110	SS-4	4.5	26.5	49	26	23	0.0	27.7	72.3			CL	A-7-6(16)
894+44.3 RT 18.5	BW-110	SS-9	23.5	27.9	NP	NP	NP	0.0	60.9	39.1		0.0887	SM	A-4(0)
894+44.3 RT 18.5	BW-110	SS-11	33.5	27.3	NP	NP	NP	0.2	88.1	11.7		0.3462	SP-SM	A-2-4(0)
894+44.3 RT 18.5	BW-110	SS-15	53.5	20.9	NP	NP	NP	0.5	93.6	5.9		0.2969	SP-SM	A-3(0)
894+44.3 RT 18.5	BW-110	T-1	95.5	50.4	42	14	28	1.9	25.3	72.8			CL	A-7-6(18)
896+92.9 RT 36.2	BW-111	SS-2	5.0	34.1	29	18	11	0.0	54.1	45.9		0.0810	SC	A-6(2)
896+92.9 RT 36.2	BW-111	T-1	13.0	28.7	31	13	18	0.1	61.9	23.3	14.7	0.1947	SC	A-6(2)
896+92.9 RT 36.2	BW-111	SS-5	23.5	23.5	NP	NP	NP	0.2	93.4	6.5		0.3443	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
896+92.9 RT 36.2	BW-111	SS-10	48.5	22.7	NP	NP	NP	10.3	88.2	1.5		0.7222	SP	A-1-b(0)
896+92.9 RT 36.2	BW-111	SS-16	78.5	8.6	28	20	8	0.2	30.1	69.7			CL	A-4(4)
896+92.9 RT 36.2	BW-111	T-2	83.0	21.0	49	17	32	0.0	2.0	98.0			CL	A-7-6(34)
896+92.9 RT 36.2	BW-111	T-3	93.0	20.3	29	17	12	0.0	45.3	54.7			CL	A-6(4)
896+92.9 RT 36.2	BW-111	SS-19	103.5	23.3	27	14	13	0.2	56.1	43.7		0.0968	SC	A-6(2)
896+92.9 RT 36.2	BW-111	T-4	123.0	22.5	NP	NP	NP	0.0	56.8	43.2		0.0841	SM	A-4(0)
900+04.5 LT 22.6	BW-112	SS-2	3.5	22.2	NP	NP	NP	0.0	97.2	2.8		0.3486	SP	A-3(0)
900+04.5 LT 22.6	BW-112	SS-4	13.5	21.2	NP	NP	NP	0.0	93.0	7.0		0.2837	SP-SM	A-3(0)
900+04.5 LT 22.6	BW-112	SS-6	23.5	24.5	NP	NP	NP	1.2	91.4	7.4		0.3599	SP-SM	A-3(0)
900+04.5 LT 22.6	BW-112	SS-10	43.5	21.0	NP	NP	NP	0.0	97.9	2.1		0.3691	SP	A-3(0)
900+04.5 LT 22.6	BW-112	SS-12	53.5	22.0	NP	NP	NP	0.0	98.4	1.6		0.5882	SP	A-1-b(0)
900+04.5 LT 22.6	BW-112	SS-15	68.5	24.7	NP	NP	NP	0.0	97.2	2.8		0.2948	SP	A-3(0)
900+04.5 LT 22.6	BW-112	SS-16	78.5	30.0	49	16	33	0.0	6.4	93.6			CL	A-7-6(33)
900+04.5 LT 22.6	BW-112	SS-17	83.5	58.6	59	18	41	0.0	8.8	91.2			CH	A-7-6(40)
900+04.5 LT 22.6	BW-112	SS-18	88.5	68.4	28	15	13	0.0	20.9	79.1			CL	A-6(8)
900+04.5 LT 22.6	BW-112	SS-19	93.5	19.8	34	13	21	0.0	28.6	71.4			CL	A-6(12)
900+04.5 LT 22.6	BW-112	T-2	103.0	55.1	55	19	36	0.0	0.7	99.3			CH	A-7-6(39)
900+04.5 LT 22.6	BW-112	SS-22	113.5	51.4	34	13	21	0.0	23.0	77.0			CL	A-6(14)
900+04.5 LT 22.6	BW-112	T-3	123.5	29.6	44	14	30	1.5	27.0	71.5			CL	A-7-6(19)
900+04.5 LT 22.6	BW-112	SS-24	128.5	24.9	NP	NP	NP	0.0	31.4	68.6			ML	A-4(0)
902+86.1 RT 03.3	BW-113	SS-3	8.5	22.9	NP	NP	NP	0.0	91.1	8.9		0.2985	SP-SM	A-3(0)
902+86.1 RT 03.3	BW-113	SS-5	18.5	24.2	NP	NP	NP	1.7	91.1	7.2		0.3886	SP-SM	A-3(0)
902+86.1 RT 03.3	BW-113	SS-8	33.5	22.3	NP	NP	NP	0.8	92.0	7.2		0.3649	SP-SM	A-3(0)
902+86.1 RT 03.3	BW-113	SS-11	48.5	25.7	NP	NP	NP	0.0	98.0	2.0		0.3083	SP	A-3(0)
902+86.1 RT 03.3	BW-113	SS-14	63.5	21.4	NP	NP	NP	0.0	95.7	4.3		0.5493	SP	A-1-b(0)
902+86.1 RT 03.3	BW-113	SS-16	73.5	28.0	42	18	24	0.0	22.6	77.4			CL	A-7-6(18)
902+86.1 RT 03.3	BW-113	SS-17	78.5	21.6	48	19	29	0.0	4.8	95.2			CL	A-7-6(30)
902+86.1 RT 03.3	BW-113	T-1	83.5	26.8	52	18	34	0.0	13.2	86.8			CH	A-7-6(31)
902+86.1 RT 03.3	BW-113	T-2	93.5	20.1	NP	NP	NP	0.0	63.0	37.0		0.1097	SM	A-4(0)
902+86.1 RT 03.3	BW-113	SS-19	98.5	28.7	NP	NP	NP	0.0	36.9	63.1			ML	A-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
902+86.1 RT 03.3	BW-113	T-3	108.5	28.7	71	16	55	0.0	21.2	78.8			CH	A-7-6(44)
902+86.1 RT 03.3	BW-113	SS-23	123.5	27.4	NP	NP	NP	0.0	88.6	11.4		0.1653	SP-SM	A-2-4(0)
902+86.1 RT 03.3	BW-113	SS-26	138.5	53.0	27	17	10	0.0	16.7	83.3			CL	A-4(6)
902+86.1 RT 03.3	BW-113	SS-29	158.5	26.7	NP	NP	NP	0.0	90.7	9.3		0.1833	SP-SM	A-3(0)
902+86.1 RT 03.3	BW-113	SS-30	168.5	24.1	NP	NP	NP	0.0	89.1	10.9		0.2587	SP-SM	A-2-4(0)
906+06.2 RT 08.7	BW-114	SS-6	23.5	21.1	NP	NP	NP	0.9	96.2	2.9		0.3843	SP	A-3(0)
906+06.2 RT 08.7	BW-114	SS-9	38.5	24.1	NP	NP	NP	0.5	97.5	2.0		0.3464	SP	A-3(0)
906+06.2 RT 08.7	BW-114	SS-11	48.5	15.4	NP	NP	NP	4.1	94.7	1.1		0.7430	SP	A-1-b(0)
906+06.2 RT 08.7	BW-114	SS-15	68.5	23.2	NP	NP	NP	0.0	98.3	1.7		0.5940	SP	A-1-b(0)
906+06.2 RT 08.7	BW-114	SS-17	78.5	22.9	49	19	30	0.9	28.7	70.4			CL	A-7-6(20)
906+06.2 RT 08.7	BW-114	T-1	83.5	33.0	47	23	24	0.0	15.9	84.1			CL	A-7-6(21)
906+06.2 RT 08.7	BW-114	SS-18	88.5	19.9	31	13	18	0.0	47.7	52.3			CL	A-6(6)
906+06.2 RT 08.7	BW-114	T-2	93.5	25.8	NP	NP	NP	0.0	76.0	24.0		0.1259	SM	A-2-4(0)
906+06.2 RT 08.7	BW-114	SS-19	98.5	25.0	40	23	17	0.0	34.1	65.9			CL	A-6(10)
906+06.2 RT 08.7	BW-114	T-3	108.5	19.6	41	16	25	0.0	10.1	89.9			CL	A-7-6(23)
906+06.2 RT 08.7	BW-114	SS-21	113.5	24.4	30	12	18	0.0	37.6	62.4			CL	A-6(8)
906+06.2 RT 08.7	BW-114	SS-22	118.5	21.9	NP	NP	NP	0.0	72.1	27.9		0.1168	SM	A-2-4(0)
906+06.2 RT 08.7	BW-114	SS-24	128.5	26.8	NP	NP	NP	0.0	48.7	51.3			ML	A-4(0)
909+27.2 LT 04.7	BW-115	SS-4	5.0	82.9	48	22	26	0.0	13.8	86.2			CL	A-7-6(24)
909+27.2 LT 04.7	BW-115	T-2	13.0	32.8	29	16	13	0.0	43.5	56.5			CL	A-6(4)
909+27.2 LT 04.7	BW-115	SS-9	33.5	22.3	NP	NP	NP	1.2	93.3	5.4		0.4596	SP-SM	A-1-b(0)
909+27.2 LT 04.7	BW-115	SS-17	73.5	22.5	NP	NP	NP	0.4	92.2	7.5		0.2936	SP-SM	A-3(0)
909+27.2 LT 04.7	BW-115	SS-20	88.5	16.7	NP	NP	NP	4.4	84.9	10.6		0.3023	SP-SM	A-2-4(0)
909+27.2 LT 04.7	BW-115	T-4	100.0	31.6	55	19	36	0.0	19.1	80.9			CH	A-7-6(30)
909+27.2 LT 04.7	BW-115	SS-25	113.5	38.8	26	18	8	0.0	67.7	32.3		0.0957	SC	A-2-4(0)
912+34.5 LT 03.9	BW-116	T-1	6.0	80.0	32	18	14	0.0	64.2	35.8		0.0901	SC	A-6(1)
912+34.5 LT 03.9	BW-116	T-2	23.5	29.0	NP	NP	NP	0.0	61.3	38.7		0.1035	SM	A-4(0)
912+34.5 LT 03.9	BW-116	SS-9	33.5	23.0	NP	NP	NP	0.8	92.8	6.4		0.3507	SP-SM	A-3(0)
912+34.5 LT 03.9	BW-116	SS-15	63.5	17.5	NP	NP	NP	1.3	90.2	8.5		0.5333	SW-SM	A-1-b(0)
912+34.5 LT 03.9	BW-116	SS-22	98.5	23.7	NP	NP	NP	0.3	76.4	23.3		0.1256	SM	A-2-4(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
915+32.6 LT 04.7	BW-117	SS-2	1.5	92.6	54	23	31	0.0	14.1	85.9			CH	A-7-6(29)
915+32.6 LT 04.7	BW-117	SS-6	13.5	30.2	28	14	14	0.0	32.9	67.1			CL	A-6(7)
915+32.6 LT 04.7	BW-117	SS-10	38.5	22.7	NP	NP	NP	0.0	95.0	5.0		0.3538	SP-SM	A-3(0)
915+32.6 LT 04.7	BW-117	SS-19	83.5	18.4	NP	NP	NP	3.1	75.4	21.5		0.3028	SM	A-2-4(0)
915+32.6 LT 04.7	BW-117	SS-21	93.5	28.4	43	23	20	0.0	19.0	81.0			CL	A-7-6(16)
915+32.6 LT 04.7	BW-117	SS-24	108.5	22.2	23	14	9	0.0	11.9	88.1			CL	A-4(5)
918+31.1 RT 07.1	BW-118	SS-2	1.5	97.2	86	40	46	0.0	20.6	79.4			MH	A-7-5(42)
918+31.1 RT 07.1	BW-118	SS-6	18.5	27.7	NP	NP	NP	0.0	69.5	30.5		0.1775	SM	A-2-4(0)
918+31.1 RT 07.1	BW-118	SS-11	43.5	23.5	NP	NP	NP	0.0	95.7	4.3		0.3375	SP	A-3(0)
918+31.1 RT 07.1	BW-118	SS-14	58.5	19.2	NP	NP	NP	0.0	94.8	5.2		0.4287	SP-SM	A-1-b(0)
918+31.1 RT 07.1	BW-118	T-2	75.5	32.6	32	20	12	0.0	29.3	70.7			CL	A-6(7)
918+31.1 RT 07.1	BW-118	SS-19	83.5	26.4	NP	NP	NP	3.6	90.5	6.0		0.1930	SP-SM	A-3(0)
918+31.1 RT 07.1	BW-118	SS-20	88.5	22.4	42	20	22	0.0	21.5	78.5			CL	A-7-6(17)
918+31.1 RT 07.1	BW-118	SS-25	113.5	28.6	NP	NP	NP	0.0	51.2	48.8		0.0772	SM	A-4(0)
918+31.1 RT 07.1	BW-118	SS-28	128.5	20.7	35	19	16	1.2	17.2	81.6			CL	A-6(12)
918+31.1 RT 07.1	BW-118	SS-30	138.5	28.1	NP	NP	NP	0.0	68.9	31.1		0.1270	SM	A-2-4(0)
921+42.3 LT 09.4	BW-119	SS-4	4.5	113.9	119	39	80	2.3	25.9	71.8			CH	A-7-5(62)
921+42.3 LT 09.4	BW-119	T-2	18.5	54.3	37	15	22	0.0	33.5	39.7	26.7	0.0441	CL	A-6(12)
921+42.3 LT 09.4	BW-119	SS-10	38.5	21.1	NP	NP	NP	0.0	94.6	5.4		0.3163	SP-SM	A-3(0)
921+42.3 LT 09.4	BW-119	SS-15	63.5	22.0	NP	NP	NP	2.4	78.8	18.8		0.3733	SM	A-2-4(0)
921+42.3 LT 09.4	BW-119	SS-18	78.5	34.3	NP	NP	NP	0.0	75.3	24.7		0.1463	SM	A-2-4(0)
921+42.3 LT 09.4	BW-119	SS-21	93.5	26.5	43	17	26	1.3	21.5	77.2			CL	A-7-6(19)
921+42.3 LT 09.4	BW-119	SS-25	113.5	22.3	34	14	20	0.0	21.0	79.0			CL	A-6(14)
924+34.9 LT 08.3	BW-120	SS-3	3.0	88.5	79	34	45	0.0	34.2	65.8			CH	A-7-5(30)
924+34.9 LT 08.3	BW-120	SS-7	18.5	24.9	NP	NP	NP	0.0	69.8	30.2		0.1803	SM	A-2-4(0)
924+34.9 LT 08.3	BW-120	SS-10	33.5	19.7	NP	NP	NP	0.0	76.9	23.1		0.2750	SM	A-2-4(0)
924+34.9 LT 08.3	BW-120	T-2	45.5	27.4	NP	NP	NP	0.0	98.7	1.3		0.3314	SP	A-3(0)
924+34.9 LT 08.3	BW-120	SS-15	58.5	17.1	NP	NP	NP	4.2	89.9	5.9		0.5097	SP-SM	A-1-b(0)
924+34.9 LT 08.3	BW-120	SS-18	73.5	21.6	NP	NP	NP	2.4	78.9	18.7		0.3995	SM	A-2-4(0)
924+34.9 LT 08.3	BW-120	SS-21	88.5	21.2	NP	NP	NP	0.4	89.6	10.0		0.1930	SP-SM	A-3(0)

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Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
924+34.9 LT 08.3	BW-120	SS-24	103.5	21.4	31	17	14	0.0	25.1	74.9			CL	A-6(9)
924+34.9 LT 08.3	BW-120	SS-25	108.5	19.9	39	17	22	0.0	13.5	86.5			CL	A-6(18)
924+34.9 LT 08.3	BW-120	SS-27	118.5	27.8	NP	NP	NP	0.0	67.3	32.7		0.0904	SM	A-2-4(0)
928+69.5 RT 05.8	BW-121	SS-2	1.5	29.9	NP	NP	NP	0.0	95.0	5.0		0.3095	SP-SM	A-3(0)
928+69.5 RT 05.8	BW-121	SS-8	18.5	34.5	23	14	9	0.0	63.4	36.6		0.1472	SC	A-4(0)
928+69.5 RT 05.8	BW-121	T-1	23.0	27.2	NP	NP	NP	0.0	82.2	7.3	10.5	0.1752	SM	A-2-4(0)
928+69.5 RT 05.8	BW-121	SS-9	28.5	22.7	NP	NP	NP	0.0	62.5	37.5		0.1059	SM	A-4(0)
928+69.5 RT 05.8	BW-121	T-2	38.0	29.9	NP	NP	NP	0.0	78.8	14.3	6.9	0.1153	SM	A-2-4(0)
928+69.5 RT 05.8	BW-121	SS-11	43.5	24.9	NP	NP	NP	0.1	94.9	5.0		0.2903	SP-SM	A-3(0)
928+69.5 RT 05.8	BW-121	T-3	63.0	52.0	72	26	46			99.2			CH	A-7-6(53)
928+69.5 RT 05.8	BW-121	T-4	73.5	22.1	NP	NP	NP	0.0	73.9	14.1	12.1	0.1764	SM	A-2-4(0)
928+69.5 RT 05.8	BW-121	SS-16	78.5	25.0	NP	NP	NP	0.0	34.9	65.1			ML	A-4(0)
928+69.5 RT 05.8	BW-121	SS-18	88.5	23.4	NP	NP	NP	0.3	89.8	9.9		0.2161	SP-SM	A-3(0)
928+69.5 RT 05.8	BW-121	SS-21	103.5	22.5	NP	NP	NP	0.0	93.6	6.4		0.2990	SP-SM	A-3(0)
928+69.5 RT 05.8	BW-121	SS-23	113.5	18.0	46	16	30	0.0	7.8	92.2			CL	A-7-6(29)
929+97.3 LT 04.4	BW-122	SS-3	10.0	56.8	54	17	37	0.0	39.3	30.0	30.8	0.0413	CH	A-7-6(19)
929+97.3 LT 04.4	BW-122	T-1	18.0	26.1	26	14	12	0.0	62.7	19.8	17.5	0.1382	SC	A-6(1)
929+97.3 LT 04.4	BW-122	SS-6	28.5	166.8	NP	NP	NP	0.2	73.2	26.6		0.1988	SM	A-2-4(0)
929+97.3 LT 04.4	BW-122	SS-9	48.5	23.1	NP	NP	NP	0.0	97.6	2.4		0.3093	SP	A-3(0)
929+97.3 LT 04.4	BW-122	SS-13	68.5	29.6	28	18	10	0.0	33.7	46.1	20.2	0.0495	CL	A-4(4)
929+97.3 LT 04.4	BW-122	T-4	73.0	51.0	69	26	43	0.0	0.2	99.8			CH	A-7-6(50)
929+97.3 LT 04.4	BW-122	T-5	83.0	59.4	71	28	43	0.0	2.5	20.2	77.3		CH	A-7-6(50)
929+97.3 LT 04.4	BW-122	SS-15	88.5	33.9	54	19	35	0.0	12.4	87.6			CH	A-7-6(33)
929+97.3 LT 04.4	BW-122	SS-16	95.0	24.0	NP	NP	NP	3.1	60.8	36.1		0.1248	SM	A-4(0)
929+97.3 LT 04.4	BW-122	SS-19	113.5	22.3	43	19	24	0.0	14.7	85.3			CL	A-7-6(21)
929+97.3 LT 04.4	BW-122	SS-21	123.5	27.0	NP	NP	NP	0.0	74.0	26.0		0.1373	SM	A-2-4(0)
933+74.3 LT 08.1	BW-123	SS-2	5.0	25.1	NP	NP	NP	0.0	93.4	6.6		0.3237	SP-SM	A-3(0)
933+74.3 LT 08.1	BW-123	SS-3	10.0	28.5	22	14	8	0.0	66.2	33.8		0.1230	SC	A-2-4(0)
933+74.3 LT 08.1	BW-123	SS-4	15.0	25.5	NP	NP	NP	0.5	83.3	16.2		0.1666	SM	A-2-4(0)
933+74.3 LT 08.1	BW-123	T-2	23.0	22.7	37	15	22	0.0	54.2	45.8		0.0807	SC	A-6(6)

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ENGINEERING

Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

Station & Offset	Boring No.	Sample ID	Depth (ft)	Water Content (%)	Liquid Limit	Plastic Limit	Plasticity Index	% Gravel	% Sand	% Pass 200		D50 (mm)	USCS	AASHTO
										% Silt	% Clay			
933+74.3 LT 08.1	BW-123	SS-7	38.5	21.9	27	16	11	0.0	59.4	40.6		0.0897	SC	A-6(1)
933+74.3 LT 08.1	BW-123	T-4	43.0	26.8	NP	NP	NP	0.0	81.8	18.2		0.1193	SM	A-2-4(0)
933+74.3 LT 08.1	BW-123	SS-10	58.5	28.7	NP	NP	NP	0.2	65.7	34.0		0.0973	SM	A-2-4(0)
933+74.3 LT 08.1	BW-123	SS-14	78.5	25.7	NP	NP	NP	0.0	61.6	38.4		0.0933	SM	A-4(0)
933+74.3 LT 08.1	BW-123	SS-17	93.5	23.5	NP	NP	NP	0.0	90.2	9.8		0.2795	SP-SM	A-3(0)
933+74.3 LT 08.1	BW-123	SS-19	103.5	23.6	NP	NP	NP	0.0	94.6	5.4		0.3202	SP-SM	A-3(0)
933+74.3 LT 08.1	BW-123	SS-20	108.5	22.1	34	16	18			66.4			CL	A-6(9)
933+74.3 LT 08.1	BW-123	SS-23	123.5	21.5	44	15	29	0.0	7.3	92.7			CL	A-7-6(28)
933+74.3 LT 08.1	BW-123	T-7	128.0	17.8	39	18	21	0.0	10.1	89.9			CL	A-6(19)
933+74.3 LT 08.1	BW-123	SS-26	143.5	18.6	31	13	18	0.0	9.1	90.9			CL	A-6(15)
933+74.3 LT 08.1	BW-123	SS-29	158.5	29.0	NP	NP	NP	0.0	64.3	35.7		0.0881	SM	A-4(0)
933+74.3 LT 08.1	BW-123	SS-32	173.5	29.9	NP	NP	NP	0.0	70.9	29.1		0.1117	SM	A-2-4(0)
933+74.3 LT 08.1	BW-123	SS-33	178.5	25.7	NP	NP	NP	0.0	83.8	16.2		0.1711	SM	A-2-4(0)
942+39.1 LT 02.9	BW-126	SS-3	3.0	20.4	NP	NP	NP	1.3	93.9	4.7		0.5144	SP	A-1-b(0)
942+39.1 LT 02.9	BW-126	T-2	15.5	24.4	32	15	17	0.0	52.6	24.2	23.2	0.0773	SC	A-6(4)
942+39.1 LT 02.9	BW-126	T-3	25.5	22.7	29	15	14	0.0	49.1	23.6	27.3	0.0712	CL	A-6(4)
942+39.1 LT 02.9	BW-126	SS-14	48.5	29.5	NP	NP	NP	0.3	64.8	34.9		0.0959	SM	A-2-4(0)
942+39.1 LT 02.9	BW-126	SS-18	68.5	25.0	NP	NP	NP	0.0	59.3	40.7		0.0927	SM	A-4(0)
942+39.1 LT 02.9	BW-126	SS-23	93.5	37.4	NP	NP	NP	0.0	37.1	62.9			ML	A-4(0)
942+39.1 LT 02.9	BW-126	SS-24	98.5	31.4	NP	NP	NP	0.5	29.8	69.7			ML	A-4(0)
944+16.6 LT 20.2	BW-127	SS-4	4.5	19.0	NP	NP	NP	0.3	81.6	18.1		0.3294	SM	A-2-4(0)
944+16.6 LT 20.2	BW-127	SS-9	24.0	26.1	NP	NP	NP	0.0	48.4	51.6			ML	A-4(0)
944+16.6 LT 20.2	BW-127	SS-11	34.0	22.6	27	14	13	0.5	49.3	50.2			CL	A-6(3)
944+16.6 LT 20.2	BW-127	T-1	39.0	23.1	31	18	13	8.5	45.6	22.5	23.4	0.0838	SC	A-6(3)
944+16.6 LT 20.2	BW-127	SS-14	54.0	27.8	NP	NP	NP	0.2	65.2	34.7		0.1003	SM	A-2-4(0)
944+16.6 LT 20.2	BW-127	SS-16	64.0	29.7	NP	NP	NP	0.0	76.1	23.9		0.1214	SM	A-2-4(0)
944+16.6 LT 20.2	BW-127	SS-22	99.0	20.4	NP	NP	NP	0.0	66.1	33.9		0.1158	SM	A-2-4(0)
944+16.6 LT 20.2	BW-127	SS-23	104.0	27.2	34	18	16	0.0	20.7	79.3			CL	A-6(11)
944+16.6 LT 20.2	BW-127	SS-24	109.0	30.6	NP	NP	NP	0.0	87.1	12.9		0.1189	SM	A-2-4(0)

thompson
ENGINEERING

Soil Classification Summary

ALDOT
ALDOT Project No.: 15-1101-0228
Project Name: I-10 Mobile River Bridge and Bayway
Mobile, Alabama

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-03	BW-03	BW-03	BW-03	BW-03	BW-03
Station	571+16.7	571+16.7	571+16.7	571+16.7	571+16.7	571+16.7
Offset	RT 58.3	RT 58.3	RT 58.3	RT 58.3	RT 58.3	RT 58.3
Sample ID	SS-5	SS-8	T-2	SS-10	SS-14	SS-17
Depth (ft)	6.0	23.5	28.5	48.5	68.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	95.7	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	99.2	95.7	99.9
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.2	93.7	98.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	98.7	90.1	92.1
#20 SIEVE (0.85mm)	99.8	99.8	100.0	97.5	73.2	64.7
#40" SIEVE (425um)	99.6	99.5	98.1	84.6	36.9	26.1
#60 SIEVE (250um)	99.4	98.0	60.6	25.3	12.2	11.8
#100 SIEVE (150um)	99.0	89.4	19.7	4.6	6.5	5.8
#140 SIEVE (106um)	98.5	75.5	14.2	2.9	5.4	4.4
#200 SIEVE (75um)	97.9	58.7	11.9	2.3	4.7	3.5
Clay	56.8	25.9				
Silt	41.1	32.8				
Total Sand	2.1	41.3	88.1	96.9	89.0	94.5
Total Gravel	0.0	0.0	0.0	0.8	6.3	2.0
ATTERBERG LIMITS						
Liquid Limit	159	NP	NP	NP	NP	NP
Plastic Limit	51	NP	NP	NP	NP	NP
Plasticity Index	108	NP	NP	NP	NP	NP
USCS	CH	ML	SP-SM	SP	SP	SP
AASHTO	A-7-5(131)	A-4(0)	A-2-4(0)	A-3(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-03	BW-03	BW-03	BW-03	BW-03	BW-03
Station	571+16.7	571+16.7	571+16.7	571+16.7	571+16.7	571+16.7
Offset	RT 58.3	RT 58.3	RT 58.3	RT 58.3	RT 58.3	RT 58.3
Sample ID	SS-22	SS-25	SS-28	SS-31	SS-34	SS-38
Depth (ft)	108.5	123.5	138.5	153.5	168.5	188.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	97.2	100.0	100.0
3/8" SIEVE (9.5mm)	99.3	100.0	100.0	94.6	97.9	100.0
#4 SIEVE (4.75mm)	98.5	100.0	100.0	94.5	97.9	100.0
#10 SIEVE (2.00mm)	95.6	99.9	99.6	94.5	97.2	100.0
#20 SIEVE (0.85mm)	86.6	99.7	99.1	94.2	96.3	99.9
#40" SIEVE (425um)	50.7	99.3	98.5	93.8	95.6	99.8
#60 SIEVE (250um)	14.4	99.0	97.2	93.4	93.0	99.0
#100 SIEVE (150um)	5.5	98.9	85.4	91.7	25.3	94.8
#140 SIEVE (106um)	3.8	98.1	71.3	80.4	19.9	90.4
#200 SIEVE (75um)	2.9	95.0	55.7	50.4	18.1	86.1
Clay						
Silt						
Total Sand	95.5	5.0	44.3	44.1	79.8	13.9
Total Gravel	1.5	0.0	0.0	5.5	2.1	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	62	31	NP	NP	54
Plastic Limit	NP	14	20	NP	NP	15
Plasticity Index	NP	48	11	NP	NP	39
USCS	SP	CH	CL	ML	SM	CH
AASHTO	A-3(0)	A-7-6(49)	A-6(4)	A-4(0)	A-2-4(0)	A-7-6(34)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-03	BW-03	BW-03	BW-04	BW-04	BW-04
Station	571+16.7	571+16.7	571+16.7	575+29.0	575+29.0	575+29.0
Offset	RT 58.3	RT 58.3	RT 58.3	RT 26.8	RT 26.8	RT 26.8
Sample ID	SS-40	SS-43	SS-44	SS-2	SS-6	T-1
Depth (ft)	198.5	228.5	238.5	1.5	8.5	18.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.6	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.9	98.3	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.9	99.6	96.9	99.9	99.8	99.9
#40" SIEVE (425um)	99.6	98.9	95.6	99.8	99.0	99.0
#60 SIEVE (250um)	99.1	95.4	90.4	99.5	97.2	94.1
#100 SIEVE (150um)	97.8	85.6	69.2	99.2	90.8	82.9
#140 SIEVE (106um)	92.2	76.8	60.9	98.9	80.3	75.6
#200 SIEVE (75um)	77.0	69.0	53.8	98.5	58.9	69.5
Clay				75.8	16.7	
Silt				22.7	42.2	
Total Sand	23.0	31.0	45.8	1.5	41.1	30.5
Total Gravel	0.0	0.0	0.4	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	32	30	25	174	NP	63
Plastic Limit	18	12	13	54	NP	18
Plasticity Index	14	18	12	120	NP	45
USCS	CL	CL	CL	CH	ML	CH
AASHTO	A-6(9)	A-6(9)	A-6(3)	A-7-5(146)	A-4(0)	A-7-6(30)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-04	BW-04	BW-04	BW-04	BW-04	BW-04
Station	575+29.0	575+29.0	575+29.0	575+29.0	575+29.0	575+29.0
Offset	RT 26.8	RT 26.8	RT 26.8	RT 26.8	RT 26.8	RT 26.8
Sample ID	SS-8	T-2	SS-10	SS-13	SS-26	SS-27
Depth (ft)	23.5	28.0	38.5	53.5	118.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	98.9	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.2	100.0	94.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.1	99.9	86.0	100.0
#20 SIEVE (0.85mm)	99.9	100.0	98.1	98.6	72.8	99.9
#40" SIEVE (425um)	98.5	99.6	84.2	67.4	43.3	99.1
#60 SIEVE (250um)	89.4	98.5	52.0	18.6	15.4	98.4
#100 SIEVE (150um)	68.2	94.0	17.4	6.9	7.3	98.0
#140 SIEVE (106um)	55.7	87.5	6.6	4.4	5.5	96.9
#200 SIEVE (75um)	48.7	78.3	4.2	3.4	4.3	92.7
Clay	32.6		3.6			
Silt	16.1		0.6			
Total Sand	51.3	21.7	95.0	96.6	89.6	7.3
Total Gravel	0.0	0.0	0.8	0.0	6.0	0.0
ATTERBERG LIMITS						
Liquid Limit	46	65	NP	NP	NP	33
Plastic Limit	18	21	NP	NP	NP	17
Plasticity Index	28	44	NP	NP	NP	16
USCS	SC	CH	SP	SP	SP	CL
AASHTO	A-7-6(9)	A-7-6(35)	A-3(0)	A-3(0)	A-1-b(0)	A-6(14)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-04	BW-04	BW-04	BW-04	BW-05	BW-05
Station	575+29.0	575+29.0	575+29.0	575+29.0	578+17.9	578+17.9
Offset	RT 26.8	RT 26.8	RT 26.8	RT 26.8	RT 39.4	RT 39.4
Sample ID	T-3	SS-30	SS-32	SS-35	SS-5	SS-9
Depth (ft)	128.0	143.5	153.5	168.5	6.0	28.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.9	100.0	99.2	100.0
#20 SIEVE (0.85mm)	100.0	99.7	99.9	100.0	98.8	98.7
#40" SIEVE (425um)	99.8	99.0	99.7	99.6	98.2	88.0
#60 SIEVE (250um)	99.6	98.4	99.3	95.7	97.1	76.7
#100 SIEVE (150um)	95.0	95.0	97.3	34.8	92.5	69.1
#140 SIEVE (106um)	86.2	84.1	85.7	20.4	82.9	66.4
#200 SIEVE (75um)	74.6	73.8	77.3	16.4	65.1	63.9
Clay					36.1	48.8
Silt					29.0	15.1
Total Sand	25.4	26.2	22.7	83.6	34.9	36.1
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	32	34	65	NP	74	77
Plastic Limit	13	18	20	NP	31	20
Plasticity Index	19	16	45	NP	43	57
USCS	CL	CL	CH	SM	CH	CH
AASHTO	A-6(12)	A-6(10)	A-7-6(35)	A-2-4(0)	A-7-5(28)	A-7-6(34)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-05	BW-05	BW-05	BW-05	BW-05	BW-05
Station	578+17.9	578+17.9	578+17.9	578+17.9	578+17.9	578+17.9
Offset	RT 39.4	RT 39.4	RT 39.4	RT 39.4	RT 39.4	RT 39.4
Sample ID	SS-11	SS-15	SS-19	SS-29	SS-32	SS-33
Depth (ft)	38.5	58.5	78.5	128.5	143.5	148.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.9	98.8	99.6	99.6	100.0	99.9
#10 SIEVE (2.00mm)	99.4	94.2	97.9	99.0	100.0	99.2
#20 SIEVE (0.85mm)	96.2	59.5	83.0	93.2	99.9	99.0
#40" SIEVE (425um)	72.6	21.8	31.9	59.4	99.5	98.3
#60 SIEVE (250um)	33.1	8.2	3.3	21.6	99.0	97.7
#100 SIEVE (150um)	10.1	3.9	1.6	8.0	98.6	97.4
#140 SIEVE (106um)	5.1	2.5	1.4	5.4	97.9	97.1
#200 SIEVE (75um)	3.7	1.9	1.3	4.0	95.6	96.5
Clay						
Silt						
Total Sand	96.2	96.9	98.2	95.7	4.4	3.3
Total Gravel	0.1	1.2	0.4	0.4	0.0	0.1
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	53	48
Plastic Limit	NP	NP	NP	NP	16	18
Plasticity Index	NP	NP	NP	NP	37	30
USCS	SP	SP	SP	SP	CH	CL
AASHTO	A-3(0)	A-1-b(0)	A-1-b(0)	A-3(0)	A-7-6(38)	A-7-6(31)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-05	BW-05	BW-05	BW-06	BW-06	BW-06
Station	578+17.9	578+17.9	578+17.9	581+04.6	581+04.6	581+04.6
Offset	RT 39.4	RT 39.4	RT 39.4	LT 10.9	LT 10.9	LT 10.9
Sample ID	SS-36	SS-37	SS-38	SS-4	SS-7	T-3
Depth (ft)	163.5	168.5	173.5	4.5	18.5	33.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.7	100.0
#10 SIEVE (2.00mm)	99.9	100.0	99.9	96.7	99.1	99.7
#20 SIEVE (0.85mm)	98.7	100.0	99.4	81.6	98.8	94.7
#40" SIEVE (425um)	79.2	99.3	97.7	76.3	98.6	70.5
#60 SIEVE (250um)	46.3	98.4	94.4	74.3	98.3	51.9
#100 SIEVE (150um)	16.8	96.4	84.1	73.2	96.5	46.8
#140 SIEVE (106um)	12.7	93.7	69.5	72.6	91.4	45.4
#200 SIEVE (75um)	9.7	90.7	54.8	72.1	81.0	44.2
Clay						
Silt						
Total Sand	90.3	9.3	45.2	27.9	18.7	55.8
Total Gravel	0.0	0.0	0.0	0.0	0.3	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	38	37	83	52	53
Plastic Limit	NP	13	20	42	22	18
Plasticity Index	NP	25	17	41	30	35
USCS	SP-SM	CL	CL	MH	CH	SC
AASHTO	A-3(0)	A-6(22)	A-6(7)	A-7-5(33)	A-7-6(25)	A-7-6(10)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-06	BW-06	BW-06	BW-06	BW-06	BW-06
Station	581+04.6	581+04.6	581+04.6	581+04.6	581+04.6	581+04.6
Offset	LT 10.9	LT 10.9	LT 10.9	LT 10.9	LT 10.9	LT 10.9
Sample ID	SS-11	SS-20	SS-24	SS-25	SS-27	SS-30
Depth (ft)	48.5	93.5	113.5	118.5	128.5	143.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	91.5	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	91.5	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	97.3	90.7	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.0	93.7	88.0	95.0	100.0	100.0
#10 SIEVE (2.00mm)	98.8	83.5	86.0	87.6	99.8	100.0
#20 SIEVE (0.85mm)	98.0	60.1	77.7	79.1	99.6	100.0
#40" SIEVE (425um)	91.5	17.0	43.6	48.9	99.0	99.8
#60 SIEVE (250um)	34.3	5.3	12.9	15.2	98.4	99.7
#100 SIEVE (150um)	6.0	2.9	3.7	5.8	97.3	89.2
#140 SIEVE (106um)	3.6	2.5	2.6	4.2	95.1	71.9
#200 SIEVE (75um)	2.9	2.2	2.1	3.4	85.6	61.0
Clay						
Silt						
Total Sand	96.1	91.5	86.0	91.6	14.4	39.0
Total Gravel	1.0	6.3	12.0	5.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	28	23
Plastic Limit	NP	NP	NP	NP	18	16
Plasticity Index	NP	NP	NP	NP	10	7
USCS	SP	SP	SP	SP	CL	CL-ML
AASHTO	A-3(0)	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-4(7)	A-4(2)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-06	BW-06	BW-07	BW-07	BW-07	BW-07
Station	581+04.6	581+04.6	584+20.7	584+20.7	584+20.7	584+20.7
Offset	LT 10.9	LT 10.9	RT 56.6	RT 56.6	RT 56.6	RT 56.6
Sample ID	SS-33	SS-35	SS-5	T-1	SS-7	T-2
Depth (ft)	158.5	168.5	6.0	13.5	18.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.9	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.7	99.3	98.3	98.8	100.0	100.0
#40" SIEVE (425um)	99.0	98.4	97.7	97.5	99.8	99.6
#60 SIEVE (250um)	98.5	96.1	97.4	96.9	99.7	98.3
#100 SIEVE (150um)	97.3	85.3	97.0	96.5	99.1	91.9
#140 SIEVE (106um)	95.6	69.1	96.8	96.3	96.9	79.5
#200 SIEVE (75um)	93.7	54.3	96.6	96.0	94.3	63.7
Clay			68.9		66.7	
Silt			27.6		27.6	
Total Sand	6.3	45.7	3.4	4.0	5.7	36.3
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	47	37	82	129	71	40
Plastic Limit	15	17	44	41	32	19
Plasticity Index	32	20	38	88	39	21
USCS	CL	CL	MH	CH	CH	CL
AASHTO	A-7-6(31)	A-6(7)	A-7-5(48)	A-7-5(103)	A-7-5(44)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-07	BW-07	BW-07	BW-07	BW-07	BW-07
Station	584+20.7	584+20.7	584+20.7	584+20.7	584+20.7	584+20.7
Offset	RT 56.6	RT 56.6	RT 56.6	RT 56.6	RT 56.6	RT 56.6
Sample ID	T-3	SS-12	SS-15	SS-19	SS-22	SS-27
Depth (ft)	33.5	53.5	68.5	88.5	103.5	128.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	96.9	97.4	100.0	98.3	100.0
#10 SIEVE (2.00mm)	100.0	94.6	86.9	100.0	94.1	100.0
#20 SIEVE (0.85mm)	99.7	90.4	56.4	99.5	82.9	99.8
#40" SIEVE (425um)	99.5	39.5	31.2	99.0	61.1	97.7
#60 SIEVE (250um)	99.0	11.0	16.9	96.9	26.0	93.4
#100 SIEVE (150um)	98.5	6.2	13.3	35.5	8.9	92.6
#140 SIEVE (106um)	97.8	5.3	11.1	14.5	6.7	92.3
#200 SIEVE (75um)	96.8	4.7	8.1	12.0	6.2	91.9
Clay						
Silt						
Total Sand	3.2	92.2	89.3	88.0	92.2	8.1
Total Gravel	0.0	3.1	2.6	0.0	1.7	0.0
ATTERBERG LIMITS						
Liquid Limit	212	NP	NP	NP	NP	73
Plastic Limit	83	NP	NP	NP	NP	22
Plasticity Index	129	NP	NP	NP	NP	51
USCS	MH	SP	SW-SM	SP-SM	SP-SM	CH
AASHTO	A-7-5(163)	A-1-b(0)	A-1-b(0)	A-2-4(0)	A-3(0)	A-7-6(52)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-07	BW-07	BW-07	BW-08	BW-08	BW-08
Station	584+20.7	584+20.7	584+20.7	587+87.1	587+87.1	587+87.1
Offset	RT 56.6	RT 56.6	RT 56.6	RT 0.5	RT 0.5	RT 0.5
Sample ID	SS-29	SS-33	SS-35	SS-4	SS-7	SS-9
Depth (ft)	138.5	158.5	168.5	4.5	18.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.8	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.4	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	98.9	99.9	100.0	99.7	99.9	99.9
#40" SIEVE (425um)	97.5	99.6	99.9	99.4	99.8	99.8
#60 SIEVE (250um)	96.3	98.3	99.4	99.3	99.7	99.5
#100 SIEVE (150um)	94.9	97.2	92.0	99.0	99.3	99.2
#140 SIEVE (106um)	92.4	96.1	77.0	98.7	97.5	98.8
#200 SIEVE (75um)	86.8	95.0	63.7	98.1	92.5	97.1
Clay				66.2	49.9	56.0
Silt				31.9	42.6	41.0
Total Sand	13.0	5.0	36.3	1.9	7.5	2.9
Total Gravel	0.2	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	36	58	44	85	37	68
Plastic Limit	19	17	14	42	20	30
Plasticity Index	17	41	30	43	17	38
USCS	CL	CH	CL	MH	CL	CH
AASHTO	A-6(14)	A-7-6(42)	A-7-6(16)	A-7-5(54)	A-6(16)	A-7-5(44)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-08	BW-08	BW-08	BW-08	BW-08	BW-08
Station	587+87.1	587+87.1	587+87.1	587+87.1	587+87.1	587+87.1
Offset	RT 0.5	RT 0.5	RT 0.5	RT 0.5	RT 0.5	RT 0.5
Sample ID	T-4	SS-20	SS-28	SS-31	SS-35	SS-36
Depth (ft)	43.5	98.5	138.5	153.5	173.5	178.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.7	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	73.0	97.3	99.9	99.9	100.0	99.9
#40" SIEVE (425um)	49.6	86.7	99.5	99.5	99.5	99.6
#60 SIEVE (250um)	40.1	49.0	98.1	97.7	97.5	98.2
#100 SIEVE (150um)	35.3	8.7	93.5	89.4	86.0	91.4
#140 SIEVE (106um)	33.5	6.0	85.4	81.8	68.9	80.1
#200 SIEVE (75um)	32.2	5.2	73.5	73.4	52.3	67.9
Clay						
Silt						
Total Sand	67.8	94.8	26.5	26.6	47.7	32.1
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	28	33	28	34
Plastic Limit	NP	NP	13	17	17	14
Plasticity Index	NP	NP	15	16	11	20
USCS	SM	SP-SM	CL	CL	CL	CL
AASHTO	A-2-4(0)	A-3(0)	A-6(8)	A-6(10)	A-6(3)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-08	BW-08	BW-09	BW-09	BW-09	BW-09
Station	587+87.1	587+87.1	590+06.9	590+06.9	590+06.9	590+06.9
Offset	RT 0.5	RT 0.5	RT 23.5	RT 23.5	RT 23.5	RT 23.5
Sample ID	SS-39	SS-43	SS-3	SS-6	T-1	T-2
Depth (ft)	193.5	228.5	3.0	8.5	23.0	33.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	98.1	99.9	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.5	92.5	99.4	99.5	98.9
#40" SIEVE (425um)	97.5	97.6	90.2	99.0	93.7	80.6
#60 SIEVE (250um)	96.6	91.2	89.0	98.8	82.8	42.4
#100 SIEVE (150um)	91.7	74.1	88.3	98.6	77.7	24.2
#140 SIEVE (106um)	85.8	68.4	87.5	98.4	71.2	21.4
#200 SIEVE (75um)	81.6	65.8	86.5	98.2	55.6	20.2
Clay					29.6	17.1
Silt					26.0	3.1
Total Sand	18.4	34.2	13.5	1.8	44.4	79.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	48	29	180	125	50	NP
Plastic Limit	13	14	52	36	18	NP
Plasticity Index	35	15	128	89	32	NP
USCS	CL	CL	CH	CH	CH	SM
AASHTO	A-7-6(28)	A-6(7)	A-7-5(130)	A-7-5(105)	A-7-6(14)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-09	BW-09	BW-09	BW-09	BW-09	BW-09
Station	590+06.9	590+06.9	590+06.9	590+06.9	590+06.9	590+06.9
Offset	RT 23.5	RT 23.5	RT 23.5	RT 23.5	RT 23.5	RT 23.5
Sample ID	SS-12	SS-14	SS-19	SS-21	SS-24	SS-26
Depth (ft)	48.5	58.5	83.5	93.5	108.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	99.3	100.0	100.0	100.0	
#4 SIEVE (4.75mm)	98.7	95.9	99.9	100.0	100.0	
#10 SIEVE (2.00mm)	97.7	94.5	99.9	100.0	99.8	
#20 SIEVE (0.85mm)	94.2	83.8	99.8	99.8	98.9	
#40" SIEVE (425um)	75.1	27.7	98.7	99.3	91.3	
#60 SIEVE (250um)	46.8	7.8	86.0	93.7	51.6	
#100 SIEVE (150um)	22.3	4.6	27.3	13.9	11.6	
#140 SIEVE (106um)	16.6	3.8	13.0	7.5	8.4	
#200 SIEVE (75um)	14.2	3.7	11.7	6.6	7.1	79.3
Clay						
Silt						
Total Sand	84.6	92.2	88.2	93.4	92.9	
Total Gravel	1.3	4.1	0.1	0.0	0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	42
Plastic Limit	NP	NP	NP	NP	NP	13
Plasticity Index	NP	NP	NP	NP	NP	29
USCS	SM	SP	SP-SM	SP-SM	SP-SM	CL
AASHTO	A-2-4(0)	A-1-b(0)	A-2-4(0)	A-3(0)	A-3(0)	A-7-6(21)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-09	BW-09	BW-09	BW-09	BW-10	BW-10
Station	590+06.9	590+06.9	590+06.9	590+06.9	593+02.4	593+02.4
Offset	RT 23.5	RT 23.5	RT 23.5	RT 23.5	RT 01.2	RT 01.2
Sample ID	SS-28	SS-31	SS-33	SS-37	SS-4	T-1
Depth (ft)	128.5	143.5	153.5	173.5	4.5	13.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	99.9	100.0	99.9	96.6	100.0
#20 SIEVE (0.85mm)	99.7	99.7	99.8	99.9	93.3	100.0
#40" SIEVE (425um)	99.3	99.0	97.9	99.5	91.9	99.9
#60 SIEVE (250um)	98.4	89.3	90.7	96.8	91.2	99.6
#100 SIEVE (150um)	92.9	42.4	73.5	83.1	90.8	99.4
#140 SIEVE (106um)	82.6	26.6	58.5	70.4	90.5	99.2
#200 SIEVE (75um)	68.2	21.2	49.5	56.6	90.1	99.0
Clay						74.4
Silt						24.6
Total Sand	31.8	78.8	50.5	43.4	9.9	1.0
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	38	28	184	125
Plastic Limit	NP	NP	12	15	44	40
Plasticity Index	NP	NP	26	13	140	85
USCS	ML	SM	SC	CL	CH	CH
AASHTO	A-4(0)	A-2-4(0)	A-6(8)	A-6(4)	A-7-5(148)	A-7-5(103)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-10	BW-10	BW-10	BW-10	BW-10	BW-10
Station	593+02.4	593+02.4	593+02.4	593+02.4	593+02.4	593+02.4
Offset	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2
Sample ID	T-2	T-3	SS-11	SS-14	SS-16	T-5
Depth (ft)	23.0	33.0	48.5	63.5	78.5	88.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	99.2	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.7	90.5	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.8	98.3	73.8	98.5	100.0
#20 SIEVE (0.85mm)	100.0	99.5	93.4	62.5	95.4	99.9
#40" SIEVE (425um)	99.9	89.6	64.6	44.5	69.6	99.6
#60 SIEVE (250um)	99.6	62.5	16.2	16.4	24.6	99.3
#100 SIEVE (150um)	99.2	48.4	6.7	7.6	6.3	95.5
#140 SIEVE (106um)	98.5	45.1	5.6	5.1	4.4	82.6
#200 SIEVE (75um)	97.1	36.2	5.1	3.7	3.5	69.7
Clay	73.8					
Silt	23.3					
Total Sand	2.9	63.8	94.6	86.8	96.5	30.3
Total Gravel	0.0	0.0	0.3	9.5	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	109	28	NP	NP	NP	40
Plastic Limit	36	12	NP	NP	NP	14
Plasticity Index	73	16	NP	NP	NP	26
USCS	CH	SC	SP-SM	SP	SP	CL
AASHTO	A-7-5(85)	A-6(1)	A-3(0)	A-1-b(0)	A-3(0)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-10	BW-10	BW-10	BW-10	BW-10	BW-10
Station	593+02.4	593+02.4	593+02.4	593+02.4	593+02.4	593+02.4
Offset	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2
Sample ID	T-6	T-7	SS-21	T-8	SS-22	T-9
Depth (ft)	98.0	110.0	113.5	118.0	123.5	138.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.6	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.5	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.4	100.0	99.7	100.0	99.9	99.5
#40" SIEVE (425um)	99.2	100.0	98.8	99.9	99.8	92.5
#60 SIEVE (250um)	98.8	96.0	96.9	99.6	99.7	49.7
#100 SIEVE (150um)	84.2	94.5	90.0	96.7	99.4	31.2
#140 SIEVE (106um)	32.5	93.9	84.1	93.3	98.3	25.3
#200 SIEVE (75um)	11.7	93.3	78.3	87.1	94.7	20.9
Clay		54.8		37.7		11.0
Silt		38.5		49.4		9.9
Total Sand	87.9	6.7	21.7	12.9	5.3	79.1
Total Gravel	0.4	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	47	36	40	30	NP
Plastic Limit	NP	19	12	13	15	NP
Plasticity Index	NP	28	24	27	15	NP
USCS	SP-SM	CL	CL	CL	CL	SM
AASHTO	A-2-4(0)	A-7-6(28)	A-6(17)	A-6(23)	A-6(13)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-10	BW-10	BW-11	BW-11	BW-11	BW-11
Station	593+02.4	593+02.4	597+87.3	597+87.3	597+87.3	597+87.3
Offset	RT 01.2	RT 01.2	RT 03.4	RT 03.4	RT 03.4	RT 03.4
Sample ID	SS-27	T-10	SS-4	SS-7	T-1	T-2
Depth (ft)	153.5	165.0	4.5	13.5	18.0	28.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.1	99.9	100.0	99.7	99.5	99.1
#40" SIEVE (425um)	97.0	99.5	99.9	95.6	88.5	75.2
#60 SIEVE (250um)	94.8	98.7	99.6	90.1	75.6	45.8
#100 SIEVE (150um)	89.1	97.0	99.3	87.7	72.3	39.9
#140 SIEVE (106um)	82.8	94.8	99.1	84.3	70.1	37.2
#200 SIEVE (75um)	75.6	91.6	98.5	75.0	66.4	31.7
Clay		53.4	63.1	19.9	37.8	19.8
Silt		38.2	35.5	55.1	28.7	11.9
Total Sand	24.4	8.4	1.5	25.0	33.6	68.3
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	50	48	165	33	54	40
Plastic Limit	16	14	40	18	18	13
Plasticity Index	34	34	125	15	36	27
USCS	CH	CL	CH	CL	CH	SC
AASHTO	A-7-6(25)	A-7-6(32)	A-7-5(149)	A-6(10)	A-7-6(22)	A-2-6(3)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-11	BW-11	BW-11	BW-11	BW-11	BW-11
Station	597+87.3	597+87.3	597+87.3	597+87.3	597+87.3	597+87.3
Offset	RT 03.4	RT 03.4	RT 03.4	RT 03.4	RT 03.4	RT 03.4
Sample ID	SS-10	SS-13	SS-16	SS-19	SS-21	SS-22
Depth (ft)	38.5	53.5	68.5	83.5	93.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0		100.0
3/8" SIEVE (9.5mm)	100.0	100.0	99.3	100.0		100.0
#4 SIEVE (4.75mm)	99.2	99.9	97.0	100.0		100.0
#10 SIEVE (2.00mm)	98.0	99.8	96.4	99.3		100.0
#20 SIEVE (0.85mm)	91.9	99.6	61.4	97.8		99.8
#40" SIEVE (425um)	57.0	68.1	6.9	96.3		98.7
#60 SIEVE (250um)	18.6	11.1	2.6	95.3		97.4
#100 SIEVE (150um)	9.8	6.7	1.9	79.4		73.9
#140 SIEVE (106um)	8.4	5.3	1.6	57.2		48.9
#200 SIEVE (75um)	7.7	4.1	1.4	49.3	72.7	41.6
Clay						
Silt						
Total Sand	91.5	95.7	95.5	50.7		58.4
Total Gravel	0.8	0.1	3.0	0.0		0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	39	NP	34
Plastic Limit	NP	NP	NP	13	NP	12
Plasticity Index	NP	NP	NP	26	NP	22
USCS	SP-SM	SP	SP	SC	ML	SC
AASHTO	A-3(0)	A-3(0)	A-1-b(0)	A-6(8)	A-4(0)	A-6(4)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-11	BW-11	BW-11	BW-11	BW-11	BW-11
Station	597+87.3	597+87.3	597+87.3	597+87.3	597+87.3	597+87.3
Offset	RT 03.4	RT 03.4	RT 03.4	RT 03.4	RT 03.4	RT 03.4
Sample ID	T-5	T-6	SS-26	SS-29	SS-30	SS-33
Depth (ft)	100.0	105.0	118.5	133.5	138.5	153.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	99.8
#10 SIEVE (2.00mm)	100.0	100.0	99.6	100.0	100.0	99.6
#20 SIEVE (0.85mm)	100.0	99.7	99.4	99.9	100.0	99.4
#40" SIEVE (425um)	100.0	99.0	99.2	99.1	99.7	98.1
#60 SIEVE (250um)	99.8	96.6	98.8	92.2	98.2	67.8
#100 SIEVE (150um)	99.8	93.6	92.0	74.0	88.8	27.2
#140 SIEVE (106um)	99.3	92.6	73.5	55.9	71.7	11.8
#200 SIEVE (75um)		91.3	51.7	37.4	44.6	8.4
Clay	77.8	58.6				
Silt	19.2	32.7				
Total Sand	3.0	8.7	48.3	62.6	55.4	91.4
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.2
ATTERBERG LIMITS						
Liquid Limit	73	55	33	NP	NP	NP
Plastic Limit	21	15	18	NP	NP	NP
Plasticity Index	52	40	15	NP	NP	NP
USCS		CH	CL	SM	SM	SP-SM
AASHTO	A-7-6(59)	A-7-6(38)	A-6(5)	A-4(0)	A-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-11	BW-11	BW-11	BW-12	BW-12	BW-12
Station	597+87.3	597+87.3	597+87.3	598+48.9	598+48.9	598+48.9
Offset	RT 03.4	RT 03.4	RT 03.4	RT 13.8	RT 13.8	RT 13.8
Sample ID	SS-34	SS-35	SS-36	SS-3	SS-5	SS-7
Depth (ft)	160.0	163.5	168.5	3.0	6.0	13.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.8	100.0		100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.3	99.5		100.0	99.9
#20 SIEVE (0.85mm)	100.0	97.8	98.3		100.0	99.7
#40" SIEVE (425um)	99.5	91.2	94.3		99.8	98.0
#60 SIEVE (250um)	89.9	78.9	58.7		97.2	89.3
#100 SIEVE (150um)	73.6	56.3	20.4		71.0	82.9
#140 SIEVE (106um)	66.8	33.7	14.2		42.3	70.6
#200 SIEVE (75um)	57.9	20.1	10.9	45.7	27.3	47.8
Clay						
Silt						
Total Sand	42.1	79.7	89.1		72.7	52.2
Total Gravel	0.0	0.2	0.0		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	30	NP	NP	128	NP	NP
Plastic Limit	12	NP	NP	40	NP	NP
Plasticity Index	18	NP	NP	88	NP	NP
USCS	CL	SM	SP-SM	SC	SM	SM
AASHTO	A-6(7)	A-2-4(0)	A-2-4(0)	A-7-5(31)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-12	BW-12	BW-12	BW-12	BW-12	BW-12
Station	598+48.9	598+48.9	598+48.9	598+48.9	598+48.9	598+48.9
Offset	RT 13.8	RT 13.8	RT 13.8	RT 13.8	RT 13.8	RT 13.8
Sample ID	T-2	SS-12	SS-15	T-4	T-5	T-6
Depth (ft)	33.0	53.5	68.5	88.0	98.0	105.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	83.7	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	83.7	100.0	100.0
1/2" SIEVE (12.5mm)	98.2	100.0	100.0	83.7	100.0	100.0
3/8" SIEVE (9.5mm)	98.2	100.0	100.0	83.7	100.0	100.0
#4 SIEVE (4.75mm)	98.2	100.0	97.5	83.7	100.0	100.0
#10 SIEVE (2.00mm)	98.2	100.0	88.6	83.7	100.0	100.0
#20 SIEVE (0.85mm)	98.1	99.8	50.4	83.7	93.6	99.7
#40" SIEVE (425um)	92.6	66.5	21.6	83.6	87.2	99.4
#60 SIEVE (250um)	60.4	8.1	11.0	83.4	85.9	98.8
#100 SIEVE (150um)	48.9	4.7	8.9	82.9	84.5	96.1
#140 SIEVE (106um)	46.3	3.7	8.1	80.4	77.6	93.9
#200 SIEVE (75um)	43.4	3.1	7.3	77.8	70.9	91.8
Clay	22.6			35.5	32.1	55.7
Silt	20.8			42.3	38.9	36.1
Total Sand	54.8	96.9	90.3	5.9	29.1	8.2
Total Gravel	1.8	0.0	2.5	16.3	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	35	NP	NP	61	44	49
Plastic Limit	12	NP	NP	16	19	14
Plasticity Index	23	NP	NP	45	25	35
USCS	SC	SP	SP-SM	CH	CL	CL
AASHTO	A-6(5)	A-3(0)	A-1-b(0)	A-7-6(35)	A-7-6(16)	A-7-6(33)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-12	BW-12	BW-12	BW-12	BW-12	BW-12
Station	598+48.9	598+48.9	598+48.9	598+48.9	598+48.9	598+48.9
Offset	RT 13.8	RT 13.8	RT 13.8	RT 13.8	RT 13.8	RT 13.8
Sample ID	T-7	T-8	SS-24	T-9	T-10	T-11
Depth (ft)	113.0	123.0	133.5	140.0	148.0	158.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	
#10 SIEVE (2.00mm)	100.0	100.0	99.8	100.0	100.0	
#20 SIEVE (0.85mm)	98.7	97.5	99.5	100.0	100.0	
#40" SIEVE (425um)	95.3	91.7	98.9	99.4	100.0	
#60 SIEVE (250um)	90.6	90.1	95.7	97.4	99.8	
#100 SIEVE (150um)	76.2	86.5	83.2	89.6	94.2	
#140 SIEVE (106um)	66.2	82.7	61.8	84.6	83.3	
#200 SIEVE (75um)	58.6	78.7	36.6	79.3	66.0	45.4
Clay		48.6		43.6	20.1	
Silt		30.1		35.7	45.9	
Total Sand	41.4	21.3	63.4	20.7	34.0	
Total Gravel	0.0	0.0	0.0	0.0	0.0	
ATTERBERG LIMITS						
Liquid Limit	33	39	NP	55	NP	34
Plastic Limit	12	13	NP	19	NP	13
Plasticity Index	21	26	NP	36	NP	21
USCS	CL	CL	SM	CH	ML	SC
AASHTO	A-6(9)	A-6(19)	A-4(0)	A-7-6(29)	A-4(0)	A-6(5)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-12	BW-13	BW-13	BW-13	BW-13	BW-13
Station	598+48.9	602+29.3	602+29.3	602+29.3	602+29.3	602+29.3
Offset	RT 13.8	LT 02.9	LT 02.9	LT 02.9	LT 02.9	LT 02.9
Sample ID	SS-29	SS-3	SS-6	SS-8	SS-11	SS-15
Depth (ft)	168.5	3.0	8.5	28.5	48.5	68.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	99.8
#10 SIEVE (2.00mm)		99.0	100.0	100.0	100.0	98.8
#20 SIEVE (0.85mm)		90.3	99.8	99.9	99.4	93.5
#40" SIEVE (425um)		85.0	99.5	93.1	58.7	72.1
#60 SIEVE (250um)		82.4	99.2	53.6	8.2	43.5
#100 SIEVE (150um)		79.6	94.6	35.7	4.2	34.7
#140 SIEVE (106um)		77.3	87.1	32.2	3.2	33.8
#200 SIEVE (75um)	7.4	74.4	81.6	29.1	2.7	32.4
Clay						
Silt						
Total Sand		25.6	18.4	70.9	97.3	67.4
Total Gravel		0.0	0.0	0.0	0.0	0.2
ATTERBERG LIMITS						
Liquid Limit	30		57	29	NP	75
Plastic Limit	15		27	12	NP	25
Plasticity Index	15		30	17	NP	50
USCS			CH	SC	SP	SC
AASHTO	A-2-6(0)		A-7-6(27)	A-2-6(1)	A-3(0)	A-2-7(7)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-13	BW-13	BW-13	BW-13	BW-13	BW-13
Station	602+29.3	602+29.3	602+29.3	602+29.3	602+29.3	602+29.3
Offset	LT 02.9	LT 02.9	LT 02.9	LT 02.9	LT 02.9	LT 02.9
Sample ID	SS-20	SS-21	SS-25	SS-30	SS-31	SS-34
Depth (ft)	98.5	103.5	123.5	148.5	153.5	168.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.9	100.0	99.6	100.0	100.0
#20 SIEVE (0.85mm)	99.7	99.8	99.9	99.0	100.0	100.0
#40" SIEVE (425um)	98.5	99.0	99.2	97.8	99.6	99.8
#60 SIEVE (250um)	96.9	96.7	94.5	95.0	97.0	99.3
#100 SIEVE (150um)	96.3	88.5	86.4	92.3	80.0	96.2
#140 SIEVE (106um)	95.8	61.8	80.9	73.6	60.4	92.3
#200 SIEVE (75um)	95.3	45.6	72.8	64.0	49.3	86.6
Clay						
Silt						
Total Sand	4.7	54.4	27.2	36.0	50.7	13.4
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	71	33	41	33	28	34
Plastic Limit	20	12	14	11	13	14
Plasticity Index	51	21	27	22	15	20
USCS	CH	SC	CL	CL	SC	CL
AASHTO	A-7-6(54)	A-6(5)	A-7-6(18)	A-6(11)	A-6(4)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-13	BW-13	BW-13	BW-13	BW-14	BW-14
Station	602+29.3	602+29.3	602+29.3	602+29.3	604+61.5	604+61.5
Offset	LT 02.9	LT 02.9	LT 02.9	LT 02.9	RT 04.8	RT 04.8
Sample ID	SS-37	SS-39	SS-42	SS-44	SS-3	SS-6
Depth (ft)	183.5	193.5	218.5	238.5	3.0	8.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.8	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.5	99.9	99.9	99.8	93.4	99.7
#40" SIEVE (425um)	99.2	99.1	99.7	99.5	92.1	99.0
#60 SIEVE (250um)	97.2	97.8	98.1	97.5	89.6	95.6
#100 SIEVE (150um)	95.5	87.3	84.8	91.9	83.3	87.6
#140 SIEVE (106um)	81.8	75.5	59.8	76.9	72.4	66.9
#200 SIEVE (75um)	51.2	64.1	40.9	56.7	58.4	35.6
Clay						
Silt						
Total Sand	48.8	35.9	59.1	43.3	41.6	64.4
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	38	34	NP	NP	91	NP
Plastic Limit	16	12	NP	NP	21	NP
Plasticity Index	22	22	NP	NP	70	NP
USCS	CL	CL	SM	ML	CH	SM
AASHTO	A-6(7)	A-6(11)	A-4(0)	A-4(0)	A-7-6(36)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-14	BW-14	BW-14	BW-14	BW-14	BW-14
Station	604+61.5	604+61.5	604+61.5	604+61.5	604+61.5	604+61.5
Offset	RT 04.8	RT 04.8	RT 04.8	RT 04.8	RT 04.8	RT 04.8
Sample ID	SS-8	T-1	T-2	SS-11	SS-15	T-3
Depth (ft)	18.5	23.0	33.0	43.5	63.5	73.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	99.4	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	94.7	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	84.9	100.0
#20 SIEVE (0.85mm)	99.9	100.0	99.8	100.0	46.9	95.1
#40" SIEVE (425um)	97.4	99.3	94.0	96.0	11.8	87.1
#60 SIEVE (250um)	76.2	65.4	44.4	36.5	6.9	79.6
#100 SIEVE (150um)	61.9	46.1	20.1	5.1	4.4	75.2
#140 SIEVE (106um)	58.7	41.6	17.2	3.5	3.6	73.7
#200 SIEVE (75um)	56.7	38.4	16.1	2.8	3.0	71.5
Clay						
Silt						
Total Sand	43.3	61.6	83.9	97.2	91.7	28.5
Total Gravel	0.0	0.0	0.0	0.0	5.3	0.0
ATTERBERG LIMITS						
Liquid Limit	46	30	NP	NP	NP	55
Plastic Limit	14	14	NP	NP	NP	16
Plasticity Index	32	16	NP	NP	NP	39
USCS	CL	SC	SM	SP	SP	CH
AASHTO	A-7-6(14)	A-6(2)	A-2-4(0)	A-3(0)	A-1-b(0)	A-7-6(26)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-14	BW-14	BW-14	BW-14	BW-15	BW-15
Station	604+61.5	604+61.5	604+61.5	604+61.5	607+59.4	607+59.4
Offset	RT 04.8	RT 04.8	RT 04.8	RT 04.8	LT 39.4	LT 39.4
Sample ID	SS-19	SS-23	SS-26	SS-30	SS-2	SS-5
Depth (ft)	88.5	108.5	123.5	143.5	1.5	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0				
2 1/2" SIEVE (63mm)	100.0	100.0				
2" SIEVE (50mm)	100.0	100.0				
1 1/2" SIEVE (37.5mm)	100.0	100.0				
1" SIEVE (25mm)	100.0	100.0				
3/4" SIEVE (19mm)	100.0	100.0				
1/2" SIEVE (12.5mm)	100.0	100.0				
3/8" SIEVE (9.5mm)	100.0	100.0				
#4 SIEVE (4.75mm)	98.5	98.2				
#10 SIEVE (2.00mm)	98.0	95.9				98.9
#20 SIEVE (0.85mm)	94.9	88.1				98.3
#40" SIEVE (425um)	81.1	58.1				97.7
#60 SIEVE (250um)	27.4	29.7				94.6
#100 SIEVE (150um)	7.5	8.0				69.9
#140 SIEVE (106um)	5.3	4.6				51.2
#200 SIEVE (75um)	4.3	3.7	86.6	85.7	82.3	41.5
Clay						
Silt						
Total Sand	94.1	94.6				57.5
Total Gravel	1.5	1.8				
ATTERBERG LIMITS						
Liquid Limit	NP	NP	54	49	NP	46
Plastic Limit	NP	NP	17	13	NP	19
Plasticity Index	NP	NP	37	36	NP	27
USCS	SP	SP	CH	CL	ML	SC
AASHTO	A-3(0)	A-3(0)	A-7-6(33)	A-7-6(31)	A-4(0)	A-7-6(6)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-15	BW-15	BW-15	BW-15	BW-15	BW-15
Station	607+59.4	607+59.4	607+59.4	607+59.4	607+59.4	607+59.4
Offset	LT 39.4	LT 39.4	LT 39.4	LT 39.4	LT 39.4	LT 39.4
Sample ID	SS-6	T-1	T-2	SS-9	SS-11	SS-14
Depth (ft)	8.5	18.5	28.5	33.5	43.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0		
2 1/2" SIEVE (63mm)		100.0	100.0	100.0		
2" SIEVE (50mm)		100.0	100.0	100.0		
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0		
1" SIEVE (25mm)		100.0	100.0	100.0		
3/4" SIEVE (19mm)		100.0	100.0	100.0		
1/2" SIEVE (12.5mm)		100.0	100.0	100.0		
3/8" SIEVE (9.5mm)		100.0	100.0	100.0		98.2
#4 SIEVE (4.75mm)		100.0	100.0	100.0		92.2
#10 SIEVE (2.00mm)	99.9	100.0	100.0	100.0	100.0	84.8
#20 SIEVE (0.85mm)	99.8	100.0	100.0	100.0	99.7	74.6
#40" SIEVE (425um)	99.4	97.1	96.0	93.9	93.0	48.4
#60 SIEVE (250um)	97.0	72.4	59.5	48.9	39.5	16.8
#100 SIEVE (150um)	78.4	53.3	32.3	18.3	14.1	10.1
#140 SIEVE (106um)	51.8	49.9	28.0	14.7	12.0	8.7
#200 SIEVE (75um)	30.3	48.2	26.4	13.5	10.9	7.8
Clay						
Silt						
Total Sand	69.6	51.8	73.6	86.5	89.1	84.4
Total Gravel		0.0	0.0	0.0		6.0
ATTERBERG LIMITS						
Liquid Limit	NP	44	NP	NP	NP	NP
Plastic Limit	NP	13	NP	NP	NP	NP
Plasticity Index	NP	31	NP	NP	NP	NP
USCS	SM	SC	SM	SM	SP-SM	SP-SM
AASHTO	A-2-4(0)	A-7-6(10)	A-2-4(0)	A-2-4(0)	A-2-4(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-15	BW-15	BW-15	BW-15	BW-15	BW-15
Station	607+59.4	607+59.4	607+59.4	607+59.4	607+59.4	607+59.4
Offset	LT 39.4	LT 39.4	LT 39.4	LT 39.4	LT 39.4	LT 39.4
Sample ID	SS-15	SS-17	SS-20	SS-24	SS-26	SS-27
Depth (ft)	63.5	78.5	93.5	113.5	123.5	128.5
TOTAL PASSING (%)						
3" SIEVE (75mm)						
2 1/2" SIEVE (63mm)						
2" SIEVE (50mm)						
1 1/2" SIEVE (37.5mm)						
1" SIEVE (25mm)						
3/4" SIEVE (19mm)						
1/2" SIEVE (12.5mm)						
3/8" SIEVE (9.5mm)						
#4 SIEVE (4.75mm)						
#10 SIEVE (2.00mm)			97.7			
#20 SIEVE (0.85mm)	100.0		89.6		97.8	98.5
#40" SIEVE (425um)	99.8		59.2		97.0	95.2
#60 SIEVE (250um)	99.4		28.9		92.2	92.8
#100 SIEVE (150um)	99.0		7.6		30.5	84.0
#140 SIEVE (106um)	98.5		5.0		16.8	79.7
#200 SIEVE (75um)	96.1	80.6	4.0	85.6	13.0	74.3
Clay						
Silt						
Total Sand	3.9		93.7		84.8	24.2
Total Gravel						
ATTERBERG LIMITS						
Liquid Limit	63	37	NP	50	NP	35
Plastic Limit	19	14	NP	18	NP	18
Plasticity Index	44	23	NP	32	NP	17
USCS	CH	CL	SP	CH	SM	CL
AASHTO	A-7-6(47)	A-6(17)	A-3(0)	A-7-6(28)	A-2-4(0)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-16	BW-16	BW-16	BW-16	BW-16	BW-16
Station	611+38.5	611+38.5	611+38.5	611+38.5	611+38.5	611+38.5
Offset	LT 04.0	LT 04.0	LT 04.0	LT 04.0	LT 04.0	LT 04.0
Sample ID	SS-2	SS-5	SS-7	T-1	T-2	T-3
Depth (ft)	1.5	6.0	13.5	18.5	28.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0			100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0			100.0	100.0	100.0
2" SIEVE (50mm)	100.0			100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0			100.0	100.0	100.0
1" SIEVE (25mm)	100.0			100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0			100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0			100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0			100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0			100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0			100.0	100.0	100.0
#20 SIEVE (0.85mm)	90.5	99.6	99.5	100.0	100.0	100.0
#40" SIEVE (425um)	89.3	99.0	98.6	98.7	96.7	99.8
#60 SIEVE (250um)	88.3	95.5	92.7	80.1	54.4	99.1
#100 SIEVE (150um)	86.3	60.1	85.9	65.5	18.4	98.8
#140 SIEVE (106um)	83.8	36.8	77.6	62.6	14.0	98.6
#200 SIEVE (75um)	77.7	24.5	60.6	60.6	13.0	98.4
Clay				32.5	10.1	70.5
Silt				28.1	2.9	27.9
Total Sand	22.3	75.1	38.8	39.4	87.0	1.6
Total Gravel	0.0			0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	50	NP	105
Plastic Limit	NP	NP	NP	16	NP	20
Plasticity Index	NP	NP	NP	34	NP	85
USCS	ML	SM	ML	CH	SM	CH
AASHTO	A-4(0)	A-2-4(0)	A-4(0)	A-7-6(18)	A-2-4(0)	A-7-6(95)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-16	BW-16	BW-16	BW-16	BW-16	BW-16
Station	611+38.5	611+38.5	611+38.5	611+38.5	611+38.5	611+38.5
Offset	LT 04.0	LT 04.0	LT 04.0	LT 04.0	LT 04.0	LT 04.0
Sample ID	T-4	SS-11	SS-16	SS-21	SS-23	SS-25
Depth (ft)	43.5	53.5	78.5	103.5	113.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0					
2 1/2" SIEVE (63mm)	100.0					
2" SIEVE (50mm)	100.0					
1 1/2" SIEVE (37.5mm)	100.0					
1" SIEVE (25mm)	100.0					
3/4" SIEVE (19mm)	100.0					
1/2" SIEVE (12.5mm)	100.0					
3/8" SIEVE (9.5mm)	100.0					
#4 SIEVE (4.75mm)	100.0		99.0	98.6		
#10 SIEVE (2.00mm)	100.0	99.6	95.4	97.5		
#20 SIEVE (0.85mm)	100.0	94.4	82.4	93.5		
#40" SIEVE (425um)	97.5	41.8	48.1	82.3		
#60 SIEVE (250um)	64.7	26.5	12.2	25.6		
#100 SIEVE (150um)	32.3	20.9	5.6	7.4		
#140 SIEVE (106um)	15.6	19.9	4.6	5.2		
#200 SIEVE (75um)	6.7	19.4	3.9	4.3	80.4	88.3
Clay						
Silt						
Total Sand	93.3	80.2	95.1	94.3		
Total Gravel	0.0					
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	39	47
Plastic Limit	NP	NP	NP	NP	12	17
Plasticity Index	NP	NP	NP	NP	27	30
USCS	SP-SM	SM	SP	SP	CL	CL
AASHTO	A-3(0)	A-1-b(0)	A-1-b(0)	A-3(0)	A-6(20)	A-7-6(27)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-17	BW-17	BW-17	BW-17	BW-17	BW-17
Station	613+39.8	613+39.8	613+39.8	613+39.8	613+39.8	613+39.8
Offset	RT 21.6	RT 21.6	RT 21.6	RT 21.6	RT 21.6	RT 21.6
Sample ID	SS-5	T-1	T-2	T-3	SS-14	SS-20
Depth (ft)	6.0	18.0	28.0	38.0	63.5	93.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	97.5	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	86.8	95.2
#4 SIEVE (4.75mm)	100.0	100.0	100.0	98.5	78.7	80.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	98.2	75.1	70.0
#20 SIEVE (0.85mm)	99.9	100.0	100.0	97.9	69.4	52.2
#40" SIEVE (425um)	99.5	98.9	99.8	89.7	40.6	25.3
#60 SIEVE (250um)	95.5	75.5	98.5	21.7	12.1	12.2
#100 SIEVE (150um)	74.3	53.7	97.9	4.5	5.3	8.9
#140 SIEVE (106um)	52.3	49.7	97.2	3.1	4.1	8.1
#200 SIEVE (75um)	31.8	47.9	95.7	2.8	3.3	7.5
Clay	8.1	23.0	47.8			
Silt	23.7	25.0	47.9			
Total Sand	68.2	52.1	4.3	95.7	75.4	72.5
Total Gravel	0.0	0.0	0.0	1.5	21.3	20.0
ATTERBERG LIMITS						
Liquid Limit	NP	39	37	NP	NP	NP
Plastic Limit	NP	15	15	NP	NP	NP
Plasticity Index	NP	24	22	NP	NP	NP
USCS	SM	SC	CL	SP	SP	SW-SM
AASHTO	A-2-4(0)	A-6(7)	A-6(21)	A-3(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-17	BW-17	BW-18	BW-18	BW-18	BW-18
Station	613+39.8	613+39.8	616+38.2	616+38.2	616+38.2	616+38.2
Offset	RT 21.6	RT 21.6	RT 06.9	RT 06.9	RT 06.9	RT 06.9
Sample ID	SS-23	SS-27	SS-2	SS-4	SS-7	T-1
Depth (ft)	108.5	128.5	3.5	13.5	28.5	33.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		99.4	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)		98.6	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)		97.1	99.6	100.0	100.0	99.6
#40" SIEVE (425um)		92.9	98.2	99.7	99.8	99.3
#60 SIEVE (250um)		74.9	88.3	89.3	97.3	98.8
#100 SIEVE (150um)		56.6	54.1	64.2	90.4	98.3
#140 SIEVE (106um)		48.8	40.8	56.9	88.7	98.1
#200 SIEVE (75um)	84.8	42.1	29.1	54.0	87.3	97.4
Clay			11.6	30.3		56.3
Silt			17.5	23.7		41.1
Total Sand		57.3	70.9	46.0	12.7	2.6
Total Gravel		0.6	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	41	27	NP	44	76	91
Plastic Limit	13	11	NP	20	25	35
Plasticity Index	28	16	NP	24	51	56
USCS	CL	SC	SM	CL	CH	CH
AASHTO	A-7-6(23)	A-6(3)	A-2-4(0)	A-7-6(10)	A-7-6(49)	A-7-5(66)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-18	BW-18	BW-18	BW-18	BW-18	BW-18
Station	616+38.2	616+38.2	616+38.2	616+38.2	616+38.2	616+38.2
Offset	RT 06.9	RT 06.9	RT 06.9	RT 06.9	RT 06.9	RT 06.9
Sample ID	SS-9	T-3	SS-11	SS-13	SS-14	SS-18
Depth (ft)	48.5	53.5	63.5	73.5	78.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	98.0	99.2
#4 SIEVE (4.75mm)	100.0	100.0	100.0	98.6	95.2	99.1
#10 SIEVE (2.00mm)	100.0	100.0	99.9	97.6	92.9	98.1
#20 SIEVE (0.85mm)	100.0	99.6	98.3	95.9	87.6	90.4
#40" SIEVE (425um)	99.9	95.4	86.9	78.6	60.4	54.4
#60 SIEVE (250um)	99.8	87.8	63.7	34.3	19.2	21.4
#100 SIEVE (150um)	99.4	71.1	55.8	18.4	8.9	12.6
#140 SIEVE (106um)	97.9	56.3	51.1	16.3	7.8	9.8
#200 SIEVE (75um)	94.0	47.1	45.4	14.8	7.0	7.7
Clay	50.6		21.3		2.6	
Silt	43.4		24.0		4.4	
Total Sand	6.0	52.9	54.6	83.8	88.1	91.5
Total Gravel	0.0	0.0	0.0	1.4	4.8	0.9
ATTERBERG LIMITS						
Liquid Limit	51	40	30	NP	NP	NP
Plastic Limit	22	14	13	NP	NP	NP
Plasticity Index	29	26	17	NP	NP	NP
USCS	CH	SC	SC	SM	SP-SM	SP-SM
AASHTO	A-7-6(30)	A-6(8)	A-6(4)	A-2-4(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-18	BW-18	BW-18	BW-18	BW-18	BW-18
Station	616+38.2	616+38.2	616+38.2	616+38.2	616+38.2	616+38.2
Offset	RT 06.9	RT 06.9	RT 06.9	RT 06.9	RT 06.9	RT 06.9
Sample ID	T-4	SS-21	SS-22	SS-24	SS-25	SS-28
Depth (ft)	108.0	118.5	123.5	133.5	138.5	158.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	99.1	100.0
#20 SIEVE (0.85mm)	100.0	99.9	98.9	99.8	98.6	99.2
#40" SIEVE (425um)	99.9	99.1	97.8	97.9	94.4	97.9
#60 SIEVE (250um)	99.8	98.3	96.4	79.4	49.9	95.5
#100 SIEVE (150um)	99.5	90.7	84.3	22.8	19.7	88.0
#140 SIEVE (106um)	98.1	71.6	77.2	12.8	13.6	82.0
#200 SIEVE (75um)	94.7	47.8	67.9	9.3	10.9	76.4
Clay						
Silt						
Total Sand	5.3	52.2	32.1	90.7	89.1	23.6
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	48	NP		NP	NP	51
Plastic Limit	18	NP		NP	NP	16
Plasticity Index	30	NP		NP	NP	35
USCS	CL	SM		SP-SM	SP-SM	CH
AASHTO	A-7-6(30)	A-4(0)		A-3(0)	A-2-4(0)	A-7-6(26)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-19	BW-19	BW-19	BW-19	BW-19	BW-19
Station	619+42.0	619+42.0	619+42.0	619+42.0	619+42.0	619+42.0
Offset	LT 04.5	LT 04.5	LT 04.5	LT 04.5	LT 04.5	LT 04.5
Sample ID	SS-2	SS-8	SS-10	SS-13	SS-15	SS-16
Depth (ft)	3.5	48.5	63.5	78.5	88.5	93.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	95.4	100.0	97.9	97.4	100.0
3/8" SIEVE (9.5mm)	100.0	94.0	93.5	94.8	84.1	100.0
#4 SIEVE (4.75mm)	100.0	91.5	87.5	83.3	51.7	100.0
#10 SIEVE (2.00mm)	100.0	87.0	82.2	74.7	38.2	100.0
#20 SIEVE (0.85mm)	99.7	76.4	67.9	59.6	32.7	99.9
#40" SIEVE (425um)	98.1	51.4	30.8	31.2	22.5	99.8
#60 SIEVE (250um)	83.9	35.1	12.8	8.3	11.5	99.6
#100 SIEVE (150um)	26.3	26.5	9.5	3.7	6.8	97.3
#140 SIEVE (106um)	21.1	22.9	8.7	3.0	6.0	94.1
#200 SIEVE (75um)	19.1	20.2	8.1	2.7	5.5	89.6
Clay						
Silt						
Total Sand	80.9	71.3	79.4	80.7	46.1	10.4
Total Gravel	0.0	8.5	12.5	16.7	48.3	0.0
ATTERBERG LIMITS						
Liquid Limit	39	26	NP	NP	NP	37
Plastic Limit	16	13	NP	NP	NP	11
Plasticity Index	23	13	NP	NP	NP	26
USCS	SC	SC	SP-SM	SP	GP-GM	CL
AASHTO	A-2-6(1)	A-2-6(0)	A-1-b(0)	A-1-b(0)	A-1-a(0)	A-6(22)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-19	BW-19	BW-19	BW-20	BW-20	BW-20
Station	619+42.0	619+42.0	619+42.0	622+55.5	622+55.5	622+55.5
Offset	LT 04.5	LT 04.5	LT 04.5	LT 26.7	LT 26.7	LT 26.7
Sample ID	T-5	SS-19	SS-21	SS-2	T-1	SS-8
Depth (ft)	103.5	113.5	128.5	3.5	18.0	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	95.1	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	66.6	100.0	100.0	100.0	100.0	99.9
#10 SIEVE (2.00mm)	32.0	100.0	99.6	100.0	100.0	99.6
#20 SIEVE (0.85mm)	20.4	99.8	98.8	99.9	99.9	97.3
#40" SIEVE (425um)	14.9	99.5	97.3	99.7	99.7	82.4
#60 SIEVE (250um)	12.6	97.2	64.2	98.3	99.4	53.7
#100 SIEVE (150um)	11.4	77.4	20.0	94.1	97.4	27.2
#140 SIEVE (106um)	10.7	55.4	11.4	87.7	86.6	24.4
#200 SIEVE (75um)	10.2	33.3	7.8	75.0	65.0	23.8
Clay				34.1	23.7	2.9
Silt				41.0	41.2	20.9
Total Sand	56.3	66.7	92.2	25.0	35.0	76.1
Total Gravel	33.4	0.0	0.0	0.0	0.0	0.1
ATTERBERG LIMITS						
Liquid Limit	58	NP	NP	48	83	NP
Plastic Limit	17	NP	NP	17	26	NP
Plasticity Index	41	NP	NP	31	57	NP
USCS	SP-SC	SM	SP-SM	CL	CH	SM
AASHTO	A-2-7(0)	A-2-4(0)	A-3(0)	A-7-6(22)	A-7-6(36)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-20	BW-20	BW-20	BW-20	BW-20	BW-20
Station	622+55.5	622+55.5	622+55.5	622+55.5	622+55.5	622+55.5
Offset	LT 26.7	LT 26.7	LT 26.7	LT 26.7	LT 26.7	LT 26.7
Sample ID	SS-9	SS-11	SS-15	T-3	SS-18	SS-20
Depth (ft)	48.5	58.5	78.5	88.5	98.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	97.4	96.9	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	91.7	95.8	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	81.8	90.4	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	72.9	84.2	100.0	100.0	100.0
#20 SIEVE (0.85mm)	94.9	55.3	75.0	100.0	99.9	98.3
#40" SIEVE (425um)	72.4	21.2	45.0	99.9	99.5	94.4
#60 SIEVE (250um)	40.2	7.8	14.8	99.5	99.0	70.8
#100 SIEVE (150um)	7.8	4.2	7.0	97.5	98.5	22.3
#140 SIEVE (106um)	5.0	3.4	5.7	94.9	97.9	14.4
#200 SIEVE (75um)	4.3	2.8	4.9	89.1	95.4	10.4
Clay						
Silt						
Total Sand	95.7	78.9	85.5	10.9	4.6	89.6
Total Gravel	0.0	18.2	9.6	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	36	60	NP
Plastic Limit	NP	NP	NP	12	18	NP
Plasticity Index	NP	NP	NP	24	42	NP
USCS	SP	SP	SP	CL	CH	SP-SM
AASHTO	A-3(0)	A-1-b(0)	A-1-b(0)	A-6(20)	A-7-6(44)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-20	BW-21	BW-21	BW-21	BW-21	BW-21
Station	622+55.5	625+46.4	625+46.4	625+46.4	625+46.4	625+46.4
Offset	LT 26.7	LT 07.1	LT 07.1	LT 07.1	LT 07.1	LT 07.1
Sample ID	SS-24	SS-2	T-1	SS-5	SS-7	SS-9
Depth (ft)	128.5	3.5	18.0	23.5	33.5	48.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.8	99.9	99.9	99.9	99.8
#40" SIEVE (425um)	98.4	99.2	99.8	99.8	99.6	98.0
#60 SIEVE (250um)	73.1	87.8	99.0	89.9	75.9	46.6
#100 SIEVE (150um)	24.9	39.4	97.4	9.0	30.9	13.4
#140 SIEVE (106um)	15.3	27.6	96.7	4.7	16.5	11.1
#200 SIEVE (75um)	11.4	24.3	96.1	4.1	8.7	10.4
Clay						
Silt						
Total Sand	88.6	75.7	3.9	95.9	91.3	89.6
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	39	86	NP	NP	NP
Plastic Limit	NP	20	27	NP	NP	NP
Plasticity Index	NP	19	59	NP	NP	NP
USCS	SP-SM	SC	CH	SP	SP-SM	SP-SM
AASHTO	A-2-4(0)	A-2-6(1)	A-7-6(66)	A-3(0)	A-3(0)	A-3(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-21	BW-21	BW-21	BW-21	BW-21	BW-21
Station	625+46.4	625+46.4	625+46.4	625+46.4	625+46.4	625+46.4
Offset	LT 07.1	LT 07.1	LT 07.1	LT 07.1	LT 07.1	LT 07.1
Sample ID	SS-10	SS-14	T-3	SS-17	SS-18	SS-20
Depth (ft)	53.5	73.5	88.0	93.5	98.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	98.2	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	96.3	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	90.1	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.1	77.9	99.9	99.4	99.8	98.9
#40" SIEVE (425um)	91.7	51.4	99.8	97.3	99.0	93.5
#60 SIEVE (250um)	34.5	14.2	99.5	89.5	82.3	59.7
#100 SIEVE (150um)	5.9	6.4	99.1	77.5	41.9	18.5
#140 SIEVE (106um)	4.9	5.0	98.4	63.4	33.1	12.6
#200 SIEVE (75um)	4.5	4.0	81.7	50.6	27.6	9.4
Clay						
Silt						
Total Sand	95.5	92.4	18.3	49.4	72.4	90.6
Total Gravel	0.0	3.7	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	33	NP	NP
Plastic Limit	NP	NP	NP	14	NP	NP
Plasticity Index	NP	NP	NP	19	NP	NP
USCS	SP	SP	ML	CL	SM	SP-SM
AASHTO	A-3(0)	A-3(0)	A-4(0)	A-6(6)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-21	BW-22	BW-22	BW-22	BW-22	BW-22
Station	625+46.4	628+37.3	628+37.3	628+37.3	628+37.3	628+37.3
Offset	LT 07.1	RT 12.6	RT 12.6	RT 12.6	RT 12.6	RT 12.6
Sample ID	SS-22	SS-2	SS-4	SS-6	SS-8	SS-11
Depth (ft)	118.5	3.5	13.5	28.5	38.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.6	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	99.4	100.0
#20 SIEVE (0.85mm)	99.7	99.8	99.8	99.6	99.3	100.0
#40" SIEVE (425um)	96.7	98.8	99.2	97.9	99.2	99.4
#60 SIEVE (250um)	62.8	82.4	90.1	92.8	95.1	98.6
#100 SIEVE (150um)	20.1	26.9	56.8	60.1	28.3	56.3
#140 SIEVE (106um)	12.3	15.3	44.8	42.9	13.6	20.1
#200 SIEVE (75um)	8.6	12.0	38.6	34.0	10.5	9.1
Clay						
Silt						
Total Sand	91.4	88.0	61.4	66.0	89.1	90.9
Total Gravel	0.0	0.0	0.0	0.0	0.4	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	32	NP	NP	NP
Plastic Limit	NP	NP	13	NP	NP	NP
Plasticity Index	NP	NP	19	NP	NP	NP
USCS	SP-SM	SM	SC	SM	SP-SM	SP-SM
AASHTO	A-3(0)	A-2-4(0)	A-6(3)	A-2-4(0)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-22	BW-22	BW-22	BW-22	BW-22	BW-23
Station	628+37.3	628+37.3	628+37.3	628+37.3	628+37.3	632+20.2
Offset	RT 12.6	RT 12.6	RT 12.6	RT 12.6	RT 12.6	LT 15.3
Sample ID	SS-16	SS-19	SS-20	SS-22	SS-24	SS-2
Depth (ft)	83.5	98.5	103.5	113.5	123.5	1.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	97.4	100.0	100.0	100.0	
#4 SIEVE (4.75mm)	98.9	90.2	100.0	100.0	100.0	
#10 SIEVE (2.00mm)	96.3	79.5	100.0	100.0	100.0	
#20 SIEVE (0.85mm)	88.2	60.4	99.7	99.9	99.9	99.9
#40" SIEVE (425um)	51.5	29.4	99.4	98.9	98.9	99.2
#60 SIEVE (250um)	17.1	12.6	98.9	97.2	86.3	90.1
#100 SIEVE (150um)	7.9	7.0	95.6	96.6	72.6	36.1
#140 SIEVE (106um)	5.8	5.3	92.3	96.4	64.4	19.6
#200 SIEVE (75um)	4.7	4.3	89.5	96.1	55.0	14.3
Clay						
Silt						
Total Sand	94.2	85.9	10.5	3.9	45.0	85.6
Total Gravel	1.1	9.8	0.0	0.0	0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	NP	50	60	23	NP
Plastic Limit	NP	NP	17	14	13	NP
Plasticity Index	NP	NP	33	46	10	NP
USCS	SP	SP	CH	CH	CL	SM
AASHTO	A-3(0)	A-1-b(0)	A-7-6(31)	A-7-6(47)	A-4(2)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-23	BW-23	BW-23	BW-23	BW-23	BW-23
Station	632+20.2	632+20.2	632+20.2	632+20.2	632+20.2	632+20.2
Offset	LT 15.3	LT 15.3	LT 15.3	LT 15.3	LT 15.3	LT 15.3
Sample ID	SS-6	SS-8	SS-9	SS-10	T-3	SS-12
Depth (ft)	8.5	23.5	33.5	38.5	48.5	53.5
TOTAL PASSING (%)						
3" SIEVE (75mm)					100.0	
2 1/2" SIEVE (63mm)					100.0	
2" SIEVE (50mm)					100.0	
1 1/2" SIEVE (37.5mm)					100.0	
1" SIEVE (25mm)					100.0	
3/4" SIEVE (19mm)					100.0	
1/2" SIEVE (12.5mm)				93.0	100.0	
3/8" SIEVE (9.5mm)				93.0	100.0	
#4 SIEVE (4.75mm)				86.6	100.0	
#10 SIEVE (2.00mm)				81.3	100.0	
#20 SIEVE (0.85mm)			99.6	78.3	99.5	98.6
#40" SIEVE (425um)			91.3	73.7	92.9	96.7
#60 SIEVE (250um)			76.4	66.1	47.5	94.8
#100 SIEVE (150um)			46.9	47.8	3.3	89.9
#140 SIEVE (106um)			37.3	41.5	2.3	80.2
#200 SIEVE (75um)	29.8	60.3	31.3	37.8	2.0	67.4
Clay						
Silt						
Total Sand			68.3	48.9	98.0	31.2
Total Gravel				6.4	0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	67	NP	40	NP	34
Plastic Limit	NP	14	NP	17	NP	14
Plasticity Index	NP	53	NP	23	NP	20
USCS	SM	CH	SM	SC	SP	CL
AASHTO	A-2-4(0)	A-7-6(28)	A-2-4(0)	A-6(4)	A-3(0)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-23	BW-23	BW-23	BW-23	BW-23	BW-23
Station	632+20.2	632+20.2	632+20.2	632+20.2	632+20.2	632+20.2
Offset	LT 15.3	LT 15.3	LT 15.3	LT 15.3	LT 15.3	LT 15.3
Sample ID	SS-13	SS-17	SS-21	SS-24	SS-26	SS-29
Depth (ft)	58.5	78.5	98.5	113.5	123.5	138.5
TOTAL PASSING (%)						
3" SIEVE (75mm)						
2 1/2" SIEVE (63mm)						
2" SIEVE (50mm)						
1 1/2" SIEVE (37.5mm)						
1" SIEVE (25mm)						
3/4" SIEVE (19mm)						
1/2" SIEVE (12.5mm)			87.4			
3/8" SIEVE (9.5mm)		96.5	75.0			
#4 SIEVE (4.75mm)		93.6	60.7			
#10 SIEVE (2.00mm)		92.6	52.7			
#20 SIEVE (0.85mm)	99.6	89.2	44.0		99.9	99.9
#40" SIEVE (425um)	87.0	64.9	25.5		98.9	98.5
#60 SIEVE (250um)	55.9	28.9	12.1		97.9	83.0
#100 SIEVE (150um)	39.8	14.2	6.9		97.0	35.9
#140 SIEVE (106um)	31.6	11.8	5.5		96.1	15.7
#200 SIEVE (75um)	23.0	9.7	4.4	88.9	91.9	8.7
Clay						
Silt						
Total Sand	76.6	83.9	56.3		7.9	91.1
Total Gravel		2.9	26.7			
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	47	50	NP
Plastic Limit	NP	NP	NP	14	14	NP
Plasticity Index	NP	NP	NP	33	36	NP
USCS	SM	SP-SM	SP	CL	CH	SP-SM
AASHTO	A-2-4(0)	A-3(0)	A-1-b(0)	A-7-6(30)	A-7-6(34)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-23	BW-23	BW-23	BW-24	BW-24	BW-24
Station	632+20.2	632+20.2	632+20.2	634+59.1	634+59.1	634+59.1
Offset	LT 15.3	LT 15.3	LT 15.3	RT 12.7	RT 12.7	RT 12.7
Sample ID	SS-32	SS-35	SS-37	SS-4	SS-6	T-1
Depth (ft)	153.5	168.5	178.5	4.5	8.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)						100.0
2 1/2" SIEVE (63mm)						100.0
2" SIEVE (50mm)						100.0
1 1/2" SIEVE (37.5mm)						100.0
1" SIEVE (25mm)						100.0
3/4" SIEVE (19mm)						100.0
1/2" SIEVE (12.5mm)						100.0
3/8" SIEVE (9.5mm)						100.0
#4 SIEVE (4.75mm)						100.0
#10 SIEVE (2.00mm)						100.0
#20 SIEVE (0.85mm)	99.9		100.0	99.5	99.5	100.0
#40" SIEVE (425um)	99.4		99.8	98.4	99.0	99.7
#60 SIEVE (250um)	96.7		94.7	90.4	92.5	98.5
#100 SIEVE (150um)	56.5		75.6	42.7	73.9	92.4
#140 SIEVE (106um)	37.3		66.6	27.1	21.1	89.5
#200 SIEVE (75um)	31.0	62.1	59.4	20.3	13.0	87.8
Clay						
Silt						
Total Sand	68.9		40.6	79.2	86.5	12.2
Total Gravel						0.0
ATTERBERG LIMITS						
Liquid Limit	NP	28	33	NP	NP	67
Plastic Limit	NP	15	13	NP	NP	23
Plasticity Index	NP	13	20	NP	NP	44
USCS	SM	CL	CL	SM	SM	CH
AASHTO	A-2-4(0)	A-6(5)	A-6(8)	A-2-4(0)	A-2-4(0)	A-7-6(43)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-24	BW-24	BW-24	BW-24	BW-24	BW-24
Station	634+59.1	634+59.1	634+59.1	634+59.1	634+59.1	634+59.1
Offset	RT 12.7	RT 12.7	RT 12.7	RT 12.7	RT 12.7	RT 12.7
Sample ID	SS-10	T-3	SS-12	T-4	SS-16	SS-20
Depth (ft)	38.5	43.5	53.5	68.5	78.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	94.8
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	88.2
#4 SIEVE (4.75mm)		96.9	100.0	100.0	99.4	78.1
#10 SIEVE (2.00mm)		91.8	100.0	100.0	97.8	67.9
#20 SIEVE (0.85mm)	96.2	88.5	99.5	99.5	87.8	54.5
#40" SIEVE (425um)	80.0	78.3	98.9	95.7	56.7	33.7
#60 SIEVE (250um)	64.1	65.1	96.9	89.5	22.9	14.9
#100 SIEVE (150um)	40.2	40.9	84.6	86.4	8.2	8.5
#140 SIEVE (106um)	33.7	33.9	78.1	84.7	6.2	6.6
#200 SIEVE (75um)	28.7	30.0	71.8	83.0	5.0	5.3
Clay						
Silt						
Total Sand	67.5	66.9	28.2	17.0	94.4	72.9
Total Gravel		3.1	0.0	0.0	0.6	21.9
ATTERBERG LIMITS						
Liquid Limit	31	NP	68	58	NP	NP
Plastic Limit	14	NP	26	23	NP	NP
Plasticity Index	17	NP	42	35	NP	NP
USCS	SC	SM	CH	CH	SP-SM	SP-SM
AASHTO	A-2-6(1)	A-2-4(0)	A-7-6(31)	A-7-6(31)	A-3(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-24	BW-25	BW-25	BW-25	BW-25	BW-25
Station	634+59.1	637+65.3	637+65.3	637+65.3	637+65.3	637+65.3
Offset	RT 12.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7
Sample ID	SS-23	SS-2	SS-5	SS-7	SS-8	T-1
Depth (ft)	113.5	1.5	6.0	13.5	18.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.9	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.4	100.0	99.4	100.0
#20 SIEVE (0.85mm)	100.0	99.9	99.0	99.8	99.2	99.8
#40" SIEVE (425um)	99.7	99.7	98.3	99.0	98.4	98.7
#60 SIEVE (250um)	99.2	94.4	96.4	85.1	95.1	96.3
#100 SIEVE (150um)	98.5	36.3	80.9	16.7	65.1	80.6
#140 SIEVE (106um)	97.1	17.4	70.1	11.7	44.9	71.8
#200 SIEVE (75um)	96.3	10.6	58.9	10.0	32.4	67.5
Clay						
Silt						
Total Sand	3.7	89.4	41.0	90.0	67.6	32.5
Total Gravel	0.0	0.0	0.1	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	62	NP	NP	NP	NP	43
Plastic Limit	19	NP	NP	NP	NP	20
Plasticity Index	43	NP	NP	NP	NP	23
USCS	CH	SP-SM	ML	SP-SM	SM	CL
AASHTO	A-7-6(46)	A-2-4(0)	A-4(0)	A-3(0)	A-2-4(0)	A-7-6(14)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-25	BW-25	BW-25	BW-25	BW-25	BW-25
Station	637+65.3	637+65.3	637+65.3	637+65.3	637+65.3	637+65.3
Offset	RT 50.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7
Sample ID	T-2	SS-10	T-3	SS-11	SS-12	SS-13
Depth (ft)	33.5	38.5	43.5	48.5	53.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.3	
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	96.9	
#20 SIEVE (0.85mm)	99.4	98.4	99.6	100.0	90.9	
#40" SIEVE (425um)	90.2	78.3	95.1	99.6	75.0	
#60 SIEVE (250um)	79.6	62.2	90.6	86.0	45.6	
#100 SIEVE (150um)	57.1	41.9	84.5	39.8	8.3	
#140 SIEVE (106um)	44.8	34.2	80.2	28.1	5.7	
#200 SIEVE (75um)	34.2	28.8	70.9	20.2	4.5	88.4
Clay	21.7					
Silt	12.6					
Total Sand	65.8	71.2	29.1	79.8	94.8	
Total Gravel	0.0	0.0	0.0	0.0	0.7	
ATTERBERG LIMITS						
Liquid Limit	33	NP	34	NP	NP	53
Plastic Limit	14	NP	18	NP	NP	36
Plasticity Index	19	NP	16	NP	NP	17
USCS	SC	SM	CL	SM	SP	MH
AASHTO	A-2-6(2)	A-2-4(0)	A-6(9)	A-2-4(0)	A-3(0)	A-7-5(19)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-25	BW-25	BW-25	BW-25	BW-25	BW-25
Station	637+65.3	637+65.3	637+65.3	637+65.3	637+65.3	637+65.3
Offset	RT 50.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7	RT 50.7
Sample ID	SS-16	SS-18	SS-20	SS-21	SS-23	SS-25
Depth (ft)	73.5	83.5	93.5	98.5	108.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	98.0		
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	95.0		
#4 SIEVE (4.75mm)	99.8	100.0	95.8	86.1		
#10 SIEVE (2.00mm)	99.5	99.4	90.3	77.1		
#20 SIEVE (0.85mm)	96.5	91.8	69.1	67.1		
#40" SIEVE (425um)	56.5	58.9	33.9	44.0		
#60 SIEVE (250um)	15.4	15.2	11.9	12.9		
#100 SIEVE (150um)	6.7	6.5	6.6	6.4		
#140 SIEVE (106um)	5.5	5.0	5.5	5.0		
#200 SIEVE (75um)	4.7	3.9	4.6	3.9	60.4	91.2
Clay						
Silt						
Total Sand	95.2	96.1	91.1	82.2		
Total Gravel	0.2	0.0	4.2	13.9		
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	37	50
Plastic Limit	NP	NP	NP	NP	13	17
Plasticity Index	NP	NP	NP	NP	24	33
USCS	SP	SP	SP	SP	CL	CH
AASHTO	A-3(0)	A-3(0)	A-1-b(0)	A-1-b(0)	A-6(11)	A-7-6(31)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-26	BW-26	BW-26	BW-26	BW-26	BW-26
Station	641+13.2	641+13.2	641+13.2	641+13.2	641+13.2	641+13.2
Offset	LT 09.8	LT 09.8	LT 09.8	LT 09.8	LT 09.8	LT 09.8
Sample ID	SS-3	SS-5	SS-7	SS-8	T-2	SS-9
Depth (ft)	3.0	6.0	13.5	23.5	28.5	33.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0		100.0	
#4 SIEVE (4.75mm)	100.0	100.0	100.0		100.0	
#10 SIEVE (2.00mm)	100.0	100.0	99.9		100.0	
#20 SIEVE (0.85mm)	99.9	99.9	99.6		99.7	
#40" SIEVE (425um)	99.3	99.5	98.6		96.0	
#60 SIEVE (250um)	92.9	96.0	96.5		87.0	
#100 SIEVE (150um)	44.1	41.0	78.6		60.8	
#140 SIEVE (106um)	31.0	20.0	65.4		45.8	
#200 SIEVE (75um)	26.2	13.9	48.9	74.3	36.6	96.7
Clay						
Silt						
Total Sand	73.8	86.1	51.1		63.4	
Total Gravel	0.0	0.0	0.0		0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	82	31	67
Plastic Limit	NP	NP	NP	21	14	22
Plasticity Index	NP	NP	NP	61	17	45
USCS	SM	SM	SM	CH	SC	CH
AASHTO	A-2-4(0)	A-2-4(0)	A-4(0)	A-7-6(46)	A-6(2)	A-7-6(49)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-26	BW-26	BW-26	BW-26	BW-26	BW-26
Station	641+13.2	641+13.2	641+13.2	641+13.2	641+13.2	641+13.2
Offset	LT 09.8	LT 09.8	LT 09.8	LT 09.8	LT 09.8	LT 09.8
Sample ID	SS-11	SS-14	SS-15	SS-19	SS-21	SS-23
Depth (ft)	43.5	58.5	63.5	83.5	93.5	103.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	98.9	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	95.7	100.0
#4 SIEVE (4.75mm)	99.2	99.5	100.0	98.9	87.0	99.3
#10 SIEVE (2.00mm)	98.1	98.2	99.8	98.3	78.9	98.3
#20 SIEVE (0.85mm)	89.0	94.9	98.2	95.2	63.9	94.7
#40" SIEVE (425um)		72.0	83.4	66.9	27.1	74.8
#60 SIEVE (250um)		30.9	44.7	12.9	14.9	27.8
#100 SIEVE (150um)	5.5	19.9	19.8	4.9	10.1	9.3
#140 SIEVE (106um)	4.2	18.6	16.0	3.9	8.2	6.4
#200 SIEVE (75um)	3.4	17.9	14.6	3.2	6.6	4.9
Clay						
Silt						
Total Sand	95.8	81.5	85.4	95.6	80.4	94.4
Total Gravel	0.8	0.5	0.0	1.1	13.0	0.7
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	SP	SM	SM	SP	SP-SM	SP
AASHTO	A-1-b(0)	A-2-4(0)	A-2-4(0)	A-3(0)	A-1-b(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-26	BW-26	BW-27	BW-27	BW-27	BW-27
Station	641+13.2	641+13.2	644+08.7	644+08.7	644+08.7	644+08.7
Offset	LT 09.8	LT 09.8	RT 16.7	RT 16.7	RT 16.7	RT 16.7
Sample ID	SS-25	SS-28	SS-7	T-1	T-2	SS-9
Depth (ft)	113.5	128.5	13.5	18.5	28.5	33.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)		100.0	99.9	100.0	100.0	
#10 SIEVE (2.00mm)		100.0	99.5	100.0	100.0	
#20 SIEVE (0.85mm)		99.7	99.1	98.3	99.6	
#40" SIEVE (425um)		92.7	98.3	91.0	94.0	
#60 SIEVE (250um)		40.2	96.2	81.8	83.1	
#100 SIEVE (150um)		18.4	86.1	55.3	51.9	
#140 SIEVE (106um)		14.0	82.3	50.3	37.3	
#200 SIEVE (75um)	92.1	11.0	76.5	46.9	31.2	83.4
Clay				21.2	21.2	
Silt				25.7	10.0	
Total Sand		89.0	23.4	53.1	68.8	
Total Gravel		0.0	0.1	0.0	0.0	
ATTERBERG LIMITS						
Liquid Limit	46	NP	56	37	28	109
Plastic Limit	13	NP	16	15	14	35
Plasticity Index	33	NP	40	22	14	74
USCS	CL	SP-SM	CH	SC	SC	CH
AASHTO	A-7-6(31)	A-2-4(0)	A-7-6(30)	A-6(6)	A-2-6(1)	A-7-5(70)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-27	BW-27	BW-27	BW-27	BW-27	BW-27
Station	644+08.7	644+08.7	644+08.7	644+08.7	644+08.7	644+08.7
Offset	RT 16.7	RT 16.7	RT 16.7	RT 16.7	RT 16.7	RT 16.7
Sample ID	SS-11	SS-13	SS-18	SS-22	SS-25	SS-26
Depth (ft)	48.5	58.5	83.5	103.5	118.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0		100.0	
#4 SIEVE (4.75mm)	99.7	96.7	96.0		100.0	
#10 SIEVE (2.00mm)	98.8	93.2	88.7		100.0	
#20 SIEVE (0.85mm)	95.9	87.1	72.5		99.9	
#40" SIEVE (425um)	77.8	52.5	31.8		99.5	
#60 SIEVE (250um)	28.1	11.5	9.9		99.1	
#100 SIEVE (150um)	13.4	4.6	6.3		97.6	
#140 SIEVE (106um)	11.0	3.9	5.0		90.7	
#200 SIEVE (75um)	9.3	3.5	4.1	79.9	71.3	87.8
Clay						
Silt						
Total Sand	90.4	93.2	91.9		28.7	
Total Gravel	0.3	3.3	4.0		0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	37	NP	33
Plastic Limit	NP	NP	NP	14	NP	16
Plasticity Index	NP	NP	NP	23	NP	17
USCS	SP-SM	SP	SP	CL	ML	CL
AASHTO	A-3(0)	A-3(0)	A-1-b(0)	A-6(17)	A-4(0)	A-6(14)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-28	BW-28	BW-28	BW-28	BW-28	BW-28
Station	647+11.3	647+11.3	647+11.3	647+11.3	647+11.3	647+11.3
Offset	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5
Sample ID	SS-4	SS-7	T-1	SS-10	SS-11	SS-19
Depth (ft)	4.5	13.5	18.5	38.5	43.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	98.6	99.7	94.7
#10 SIEVE (2.00mm)	99.9	99.9	100.0	97.0	98.0	86.2
#20 SIEVE (0.85mm)	99.8	99.8	99.7	95.1	89.1	72.7
#40" SIEVE (425um)	99.2	98.5	98.9	83.6	42.9	36.7
#60 SIEVE (250um)	88.7	95.3	95.9	60.2	11.4	12.7
#100 SIEVE (150um)	21.4	85.3	85.1	42.6	4.7	7.1
#140 SIEVE (106um)	12.1	82.5	82.4	34.5	3.7	5.6
#200 SIEVE (75um)	9.3	79.9	80.8	28.4	3.1	4.7
Clay						
Silt						
Total Sand	90.7	20.1	19.2	70.2	96.7	90.0
Total Gravel	0.0	0.0	0.0	1.4	0.3	5.3
ATTERBERG LIMITS						
Liquid Limit	NP	57	60	NP	NP	NP
Plastic Limit	NP	19	26	NP	NP	NP
Plasticity Index	NP	38	34	NP	NP	NP
USCS	SP-SM	CH	CH	SM	SP	SP
AASHTO	A-3(0)	A-7-6(31)	A-7-6(30)	A-2-4(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-28	BW-28	BW-28	BW-28	BW-28	BW-28
Station	647+11.3	647+11.3	647+11.3	647+11.3	647+11.3	647+11.3
Offset	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5
Sample ID	SS-22	SS-23	SS-24	SS-26	SS-29	SS-32
Depth (ft)	98.5	103.5	108.5	118.5	133.5	148.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0			100.0	100.0	
2 1/2" SIEVE (63mm)	100.0			100.0	100.0	
2" SIEVE (50mm)	100.0			100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0			100.0	100.0	
1" SIEVE (25mm)	100.0			100.0	100.0	
3/4" SIEVE (19mm)	100.0			100.0	100.0	
1/2" SIEVE (12.5mm)	88.1			100.0	100.0	
3/8" SIEVE (9.5mm)	83.0			100.0	100.0	
#4 SIEVE (4.75mm)	70.7			100.0	99.1	
#10 SIEVE (2.00mm)	63.5			100.0	98.4	
#20 SIEVE (0.85mm)	53.3			99.8	97.9	
#40" SIEVE (425um)	36.3			99.4	96.9	
#60 SIEVE (250um)	18.7			98.0	85.4	
#100 SIEVE (150um)	9.1			59.4	25.7	
#140 SIEVE (106um)	7.1			24.4	13.8	
#200 SIEVE (75um)	5.7	77.8	78.5	12.4	9.4	77.7
Clay						
Silt						
Total Sand	65.0			87.6	89.6	
Total Gravel	29.3			0.0	0.9	
ATTERBERG LIMITS						
Liquid Limit	NP	41	NP	NP	NP	36
Plastic Limit	NP	13	NP	NP	NP	13
Plasticity Index	NP	28	NP	NP	NP	23
USCS	SP-SM	CL	ML	SM	SP-SM	CL
AASHTO	A-1-b(0)	A-7-6(20)	A-4(0)	A-2-4(0)	A-3(0)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-28	BW-28	BW-28	BW-28	BW-29	BW-29
Station	647+11.3	647+11.3	647+11.3	647+11.3	650+11.6	650+11.6
Offset	RT 02.5	RT 02.5	RT 02.5	RT 02.5	LT 22.7	LT 22.7
Sample ID	SS-33	SS-35	SS-37	SS-38	SS-6	T-1
Depth (ft)	153.5	163.5	173.5	178.5	8.5	13.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0		100.0	100.0
2" SIEVE (50mm)	100.0		100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0		100.0	100.0
1" SIEVE (25mm)	100.0		100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0		100.0	100.0
3/8" SIEVE (9.5mm)	100.0		100.0		100.0	100.0
#4 SIEVE (4.75mm)	100.0		100.0		99.4	100.0
#10 SIEVE (2.00mm)	99.2		100.0		98.5	99.9
#20 SIEVE (0.85mm)	98.6		99.9		98.2	97.3
#40" SIEVE (425um)	98.0		99.7		97.6	95.5
#60 SIEVE (250um)	97.2		98.3		93.0	93.2
#100 SIEVE (150um)	88.1		90.4		71.5	86.1
#140 SIEVE (106um)	75.2		75.8		63.0	82.0
#200 SIEVE (75um)	63.6	74.7	59.6	65.2	51.4	74.2
Clay						
Silt						
Total Sand	36.4		40.4		47.9	25.8
Total Gravel	0.0		0.0		0.6	0.0
ATTERBERG LIMITS						
Liquid Limit	35	45	28	NP	NP	44
Plastic Limit	11	15	12	NP	NP	16
Plasticity Index	24	30	16	NP	NP	28
USCS	CL	CL	CL	ML	ML	CL
AASHTO	A-6(12)	A-7-6(21)	A-6(6)	A-4(0)	A-4(0)	A-7-6(19)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-29	BW-29	BW-29	BW-29	BW-29	BW-29
Station	650+11.6	650+11.6	650+11.6	650+11.6	650+11.6	650+11.6
Offset	LT 22.7	LT 22.7	LT 22.7	LT 22.7	LT 22.7	LT 22.7
Sample ID	T-2	SS-9	T-4	SS-12	SS-16	SS-20
Depth (ft)	23.5	38.5	43.5	58.5	78.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	98.1	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	98.1	97.6
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	98.1	95.3
#4 SIEVE (4.75mm)	100.0	100.0	100.0	97.7	98.0	92.0
#10 SIEVE (2.00mm)	99.9	99.9	100.0	93.8	95.0	87.7
#20 SIEVE (0.85mm)	99.2	99.9	97.9	73.4	87.0	76.6
#40" SIEVE (425um)	97.9	99.8	55.2	26.5	41.9	44.6
#60 SIEVE (250um)	95.4	99.4	31.1	4.1	12.3	16.4
#100 SIEVE (150um)	89.9	95.7	26.5	2.2	8.8	8.6
#140 SIEVE (106um)	88.6	91.7	23.5	1.8	8.1	6.7
#200 SIEVE (75um)	87.7	83.6	20.2	1.5	7.5	5.2
Clay						
Silt						
Total Sand	12.3	16.4	79.8	96.2	90.4	86.7
Total Gravel	0.0	0.0	0.0	2.3	2.0	8.0
ATTERBERG LIMITS						
Liquid Limit	82	51	NP	NP	NP	NP
Plastic Limit	21	17	NP	NP	NP	NP
Plasticity Index	61	34	NP	NP	NP	NP
USCS	CH	CH	SM	SP	SP-SM	SP-SM
AASHTO	A-7-6(59)	A-7-6(29)	A-2-4(0)	A-1-b(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-29	BW-29	BW-30	BW-30	BW-30	BW-30
Station	650+11.6	650+11.6	653+20.5	653+20.5	653+20.5	653+20.5
Offset	LT 22.7	LT 22.7	RT 30.3	RT 30.3	RT 30.3	RT 30.3
Sample ID	SS-23	SS-25	SS-4	ST-1	ST-2	ST-3
Depth (ft)	113.5	123.5	4.5	13.0	23.0	33.0
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)		100.0	99.9	100.0	100.0	100.0
#20 SIEVE (0.85mm)		95.5	99.7	99.8	99.8	99.3
#40" SIEVE (425um)		88.7	99.0	99.7	97.7	98.2
#60 SIEVE (250um)		85.3	90.3	99.5	93.3	96.8
#100 SIEVE (150um)		82.8	28.7	97.9	87.0	89.8
#140 SIEVE (106um)		73.0	15.6	96.1	85.7	80.6
#200 SIEVE (75um)	96.9	51.3	11.1	93.8	84.7	71.5
Clay				44.2	60.7	36.8
Silt				49.6	23.9	34.7
Total Sand		48.7	88.9	6.2	15.3	28.5
Total Gravel		0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	46	NP	NP	65	104	63
Plastic Limit	23	NP	NP	19	22	26
Plasticity Index	23	NP	NP	46	82	37
USCS	CL	ML	SP-SM	CH	CH	CH
AASHTO	A-7-6(25)	A-4(0)	A-2-4(0)	A-7-6(48)	A-7-6(76)	A-7-6(26)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-30	BW-30	BW-30	BW-30	BW-30	BW-30
Station	653+20.5	653+20.5	653+20.5	653+20.5	653+20.5	653+20.5
Offset	RT 30.3	RT 30.3	RT 30.3	RT 30.3	RT 30.3	RT 30.3
Sample ID	SS-9	SS-10	SS-14	SS-17	SS-21	SS-22
Depth (ft)	38.5	48.5	68.5	88.5	108.5	113.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	95.7	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.0	99.9	75.9	100.0	100.0
#10 SIEVE (2.00mm)	100.0	97.4	99.0	59.2	99.8	100.0
#20 SIEVE (0.85mm)	99.0	89.0	91.2	40.4	99.5	99.5
#40" SIEVE (425um)	98.2	43.5	38.9	16.7	97.3	96.5
#60 SIEVE (250um)	97.2	10.2	6.6	9.5	96.3	71.6
#100 SIEVE (150um)	96.1	4.1	3.3	6.1	82.8	28.9
#140 SIEVE (106um)	95.1	2.9	2.9	4.7	38.0	18.2
#200 SIEVE (75um)	93.9	2.2	2.6	3.8	17.4	13.1
Clay	50.5					
Silt	43.4					
Total Sand	6.1	96.8	97.3	72.2	82.6	86.9
Total Gravel	0.0	1.0	0.1	24.1	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	64	NP	NP	NP	NP	NP
Plastic Limit	26	NP	NP	NP	NP	NP
Plasticity Index	38	NP	NP	NP	NP	NP
USCS	CH	SP	SP	SP	SM	SM
AASHTO	A-7-6(41)	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-30	BW-30	BW-31	BW-31	BW-31	BW-31
Station	653+20.5	653+20.5	655+95.5	655+95.5	655+95.5	655+95.5
Offset	RT 30.3	RT 30.3	RT 60.0	RT 60.0	RT 60.0	RT 60.0
Sample ID	SS-23	SS-24	SS-6	T-1	T-3	SS-9
Depth (ft)	118.5	123.5	8.5	13.5	33.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.9	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.6	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.1	99.4	99.3	99.8	96.3	100.0
#40" SIEVE (425um)	97.0	94.9	98.8	99.7	88.5	99.9
#60 SIEVE (250um)	91.6	66.8	97.4	99.4	80.9	99.6
#100 SIEVE (150um)	42.2	23.8	89.1	98.8	75.4	96.5
#140 SIEVE (106um)	19.3	12.9	77.6	97.3	73.1	87.6
#200 SIEVE (75um)	11.4	9.3	56.7	91.7	71.4	67.3
Clay				34.7	35.2	
Silt				57.0	36.2	
Total Sand	88.6	90.7	43.3	8.3	28.6	32.7
Total Gravel	0.0	0.0	0.1	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	50	NP	NP
Plastic Limit	NP	NP	NP	17	NP	NP
Plasticity Index	NP	NP	NP	33	NP	NP
USCS	SP-SM	SP-SM	ML	CH	ML	ML
AASHTO	A-2-4(0)	A-3(0)	A-4(0)	A-7-6(32)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-31	BW-31	BW-31	BW-31	BW-31	BW-31
Station	655+95.5	655+95.5	655+95.5	655+95.5	655+95.5	655+95.5
Offset	RT 60.0	RT 60.0	RT 60.0	RT 60.0	RT 60.0	RT 60.0
Sample ID	T-4	SS-10	SS-17	SS-19	SS-21	SS-22
Depth (ft)	43.5	48.5	83.5	93.5	103.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	93.3	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	99.4	85.7	84.6	100.0
#4 SIEVE (4.75mm)	100.0	100.0	94.6	83.5	74.8	100.0
#10 SIEVE (2.00mm)	100.0	100.0	85.9	69.3	62.4	100.0
#20 SIEVE (0.85mm)	99.9	99.8	61.3	51.1	46.0	99.5
#40" SIEVE (425um)	99.5	90.8	24.5	20.5	20.0	94.0
#60 SIEVE (250um)	91.8	32.8	10.7	10.5	10.8	68.5
#100 SIEVE (150um)	68.1	7.9	6.0	6.8	6.7	30.1
#140 SIEVE (106um)		5.5	5.0	5.6	5.5	21.9
#200 SIEVE (75um)	35.1	4.5	4.3	4.8	4.6	19.6
Clay	13.5					
Silt	21.6					
Total Sand	64.9	95.5	90.3	78.7	70.2	80.4
Total Gravel	0.0	0.0	5.4	16.5	25.2	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	SM	SP	SP	SP	SP	SM
AASHTO	A-2-4(0)	A-3(0)	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-31	BW-31	BW-32	BW-32	BW-32	BW-32
Station	655+95.5	655+95.5	658+90.6	658+90.6	658+90.6	658+90.6
Offset	RT 60.0	RT 60.0	RT 23.6	RT 23.6	RT 23.6	RT 23.6
Sample ID	SS-24	SS-26	SS-5	SS-6	SS-7	T-1
Depth (ft)	118.5	128.5	6.0	8.5	13.5	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.8	100.0	99.8	100.0
#20 SIEVE (0.85mm)	100.0	99.9	99.6	99.8	99.5	99.5
#40" SIEVE (425um)	98.6	98.8	99.1	99.2	98.9	99.2
#60 SIEVE (250um)	90.2	66.4	96.6	98.1	98.0	98.9
#100 SIEVE (150um)	33.4	19.3	79.3	93.6	95.7	98.5
#140 SIEVE (106um)	15.6	11.3	66.6	87.6	94.0	98.3
#200 SIEVE (75um)	10.3	8.7	43.6	71.6	90.3	97.8
Clay						47.7
Silt						50.1
Total Sand	89.7	91.3	56.4	28.4	9.7	2.2
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	38	63	85
Plastic Limit	NP	NP	NP	21	19	27
Plasticity Index	NP	NP	NP	17	44	58
USCS	SP-SM	SP-SM	SM	CL	CH	CH
AASHTO	A-3(0)	A-3(0)	A-4(0)	A-6(11)	A-7-6(43)	A-7-6(67)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-32	BW-32	BW-32	BW-32	BW-32	BW-32
Station	658+90.6	658+90.6	658+90.6	658+90.6	658+90.6	658+90.6
Offset	RT 23.6	RT 23.6	RT 23.6	RT 23.6	RT 23.6	RT 23.6
Sample ID	T-2	SS-9	T-3	SS-12	SS-14	SS-17
Depth (ft)	28.5	33.5	38.5	58.5	68.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	99.2	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.4	96.9	97.6
#10 SIEVE (2.00mm)	100.0	99.9	100.0	99.2	91.4	93.9
#20 SIEVE (0.85mm)	99.8	95.7	98.5	90.0	70.1	78.5
#40" SIEVE (425um)	98.3	92.4	93.9	24.2	31.9	33.8
#60 SIEVE (250um)	92.6	89.6	88.9	6.7	9.2	9.9
#100 SIEVE (150um)	74.5	87.4	85.5	4.1	5.0	6.1
#140 SIEVE (106um)	67.4	86.6	84.3	3.4	4.1	5.1
#200 SIEVE (75um)	65.4	85.9	83.2	2.9	3.6	4.4
Clay	47.4		42.2			
Silt	17.9		41.0			
Total Sand	34.6	14.1	16.8	96.5	93.3	93.3
Total Gravel	0.0	0.0	0.0	0.6	3.1	2.4
ATTERBERG LIMITS						
Liquid Limit	55	64	NP	NP	NP	NP
Plastic Limit	20	63	NP	NP	NP	NP
Plasticity Index	35	1	NP	NP	NP	NP
USCS	CH	MH	ML	SP	SP	SP
AASHTO	A-7-6(21)	A-5(10)	A-4(0)	A-1-b(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-32	BW-32	BW-32	BW-32	BW-33	BW-33
Station	658+90.6	658+90.6	658+90.6	658+90.6	660+93.0	660+93.0
Offset	RT 23.6	RT 23.6	RT 23.6	RT 23.6	RT 32.8	RT 32.8
Sample ID	SS-19	SS-21	SS-23	SS-26	SS-3	SS-6
Depth (ft)	93.5	103.5	113.5	128.5	3.0	8.5
TOTAL PASSING (%)						
3" SIEVE (75mm)			100.0	100.0		100.0
2 1/2" SIEVE (63mm)			100.0	100.0		100.0
2" SIEVE (50mm)			100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)			100.0	100.0		100.0
1" SIEVE (25mm)			100.0	100.0		100.0
3/4" SIEVE (19mm)			100.0	100.0		100.0
1/2" SIEVE (12.5mm)			100.0	100.0		100.0
3/8" SIEVE (9.5mm)			100.0	100.0		100.0
#4 SIEVE (4.75mm)			100.0	100.0		100.0
#10 SIEVE (2.00mm)			100.0	100.0	100.0	99.8
#20 SIEVE (0.85mm)			99.7	99.8	99.8	99.1
#40" SIEVE (425um)			97.8	98.3	99.4	98.1
#60 SIEVE (250um)			83.1	70.2	95.9	97.1
#100 SIEVE (150um)			26.2	19.1	68.2	92.4
#140 SIEVE (106um)			13.5	11.4	40.8	86.1
#200 SIEVE (75um)	81.5	51.2	10.0	8.2	22.8	70.7
Clay						
Silt						
Total Sand			90.0	91.8	77.2	29.3
Total Gravel			0.0	0.0		0.0
ATTERBERG LIMITS						
Liquid Limit	46	NP	NP	NP	NP	NP
Plastic Limit	17	NP	NP	NP	NP	NP
Plasticity Index	29	NP	NP	NP	NP	NP
USCS	CL	ML	SP-SM	SP-SM	SM	ML
AASHTO	A-7-6(23)	A-4(0)	A-3(0)	A-3(0)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-33	BW-33	BW-33	BW-33	BW-33	BW-33
Station	660+93.0	660+93.0	660+93.0	660+93.0	660+93.0	660+93.0
Offset	RT 32.8	RT 32.8	RT 32.8	RT 32.8	RT 32.8	RT 32.8
Sample ID	T-2	T-3	T-5	SS-13	SS-17	SS-20
Depth (ft)	21.5	31.5	51.5	66.5	86.5	101.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0		100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0		100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0	98.0	100.0
3/8" SIEVE (9.5mm)	99.9		100.0	100.0	95.3	100.0
#4 SIEVE (4.75mm)	99.8		100.0	100.0	88.1	100.0
#10 SIEVE (2.00mm)	99.7		100.0	100.0	84.2	100.0
#20 SIEVE (0.85mm)	99.7		99.9	84.9	78.8	100.0
#40" SIEVE (425um)	99.5	98.5	98.7	40.8	48.8	99.3
#60 SIEVE (250um)	99.3	92.4	90.5	17.7	12.4	97.3
#100 SIEVE (150um)	99.1	63.4	54.5	12.2	7.1	85.9
#140 SIEVE (106um)	98.7	50.0	35.2	11.1	6.0	71.6
#200 SIEVE (75um)	98.0	45.9	24.2	10.3	5.2	60.9
Clay						
Silt						
Total Sand	1.9	52.7	75.8	89.7	82.8	39.1
Total Gravel	0.2		0.0	0.0	11.9	0.0
ATTERBERG LIMITS						
Liquid Limit	88	35	NP	NP	NP	33
Plastic Limit	23	14	NP	NP	NP	14
Plasticity Index	65	21	NP	NP	NP	19
USCS	CH	SC	SM	SW-SM	SP-SM	CL
AASHTO	A-7-6(73)	A-6(5)	A-2-4(0)	A-1-b(0)	A-1-b(0)	A-6(8)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-33	BW-33	BW-33	BW-33	BW-33	BW-33
Station	660+93.0	660+93.0	660+93.0	660+93.0	660+93.0	660+93.0
Offset	RT 32.8	RT 32.8	RT 32.8	RT 32.8	RT 32.8	RT 32.8
Sample ID	SS-21	SS-23	SS-27	SS-29	SS-31	SS-33
Depth (ft)	106.5	116.5	136.5	146.5	156.5	166.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0		100.0	
2 1/2" SIEVE (63mm)		100.0	100.0		100.0	
2" SIEVE (50mm)		100.0	100.0		100.0	
1 1/2" SIEVE (37.5mm)		100.0	100.0		100.0	
1" SIEVE (25mm)		100.0	100.0		100.0	
3/4" SIEVE (19mm)		100.0	100.0		100.0	
1/2" SIEVE (12.5mm)		100.0	100.0		100.0	
3/8" SIEVE (9.5mm)		100.0	100.0		100.0	
#4 SIEVE (4.75mm)		100.0	100.0		100.0	
#10 SIEVE (2.00mm)		100.0	100.0		100.0	
#20 SIEVE (0.85mm)		100.0	98.8		99.9	
#40" SIEVE (425um)		98.6	73.3		99.2	
#60 SIEVE (250um)		82.0	32.5		93.3	
#100 SIEVE (150um)		21.2	15.8		69.8	
#140 SIEVE (106um)		10.2	10.9		48.7	
#200 SIEVE (75um)	69.7	7.0	8.7	78.3	40.4	88.2
Clay						
Silt						
Total Sand		93.0	91.3		59.6	
Total Gravel		0.0	0.0		0.0	
ATTERBERG LIMITS						
Liquid Limit	35	NP	NP	28	27	42
Plastic Limit	15	NP	NP	12	13	13
Plasticity Index	20	NP	NP	16	14	29
USCS	CL	SP-SM	SP-SM	CL	SC	CL
AASHTO	A-6(12)	A-3(0)	A-3(0)	A-6(10)	A-6(2)	A-7-6(25)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-33	BW-33	BW-34	BW-34	BW-34	BW-34
Station	660+93.0	660+93.0	664+60.2	664+60.2	664+60.2	664+60.2
Offset	RT 32.8	RT 32.8	RT 61.6	RT 61.6	RT 61.6	RT 61.6
Sample ID	SS-34	SS-36	SS-3	SS-5	T-1	T-2
Depth (ft)	171.5	181.5	3.0	6.0	18.0	30.0
TOTAL PASSING (%)						
3" SIEVE (75mm)			100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)			100.0	100.0	100.0	100.0
2" SIEVE (50mm)			100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)			100.0	100.0	100.0	100.0
1" SIEVE (25mm)			100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)			100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)			100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)			98.5	100.0	100.0	100.0
#4 SIEVE (4.75mm)			98.5	100.0	100.0	100.0
#10 SIEVE (2.00mm)			98.5	100.0	100.0	100.0
#20 SIEVE (0.85mm)			98.4	100.0	100.0	99.8
#40" SIEVE (425um)			98.3	99.8	99.9	99.6
#60 SIEVE (250um)			95.4	97.1	99.6	99.2
#100 SIEVE (150um)			57.9	64.7	99.3	98.0
#140 SIEVE (106um)			29.4	37.6	99.0	97.3
#200 SIEVE (75um)	83.5	95.3	15.6	20.6	98.6	96.5
Clay					46.6	49.3
Silt					51.9	47.2
Total Sand			82.9	79.4	1.4	3.5
Total Gravel			1.5	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	54	58	NP	NP	77	92
Plastic Limit	14	16	NP	NP	22	27
Plasticity Index	40	42	NP	NP	55	65
USCS	CH	CH	SM	SM	CH	CH
AASHTO	A-7-6(33)	A-7-6(43)	A-2-4(0)	A-2-4(0)	A-7-6(62)	A-7-6(74)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-34	BW-34	BW-34	BW-34	BW-34	BW-34
Station	664+60.2	664+60.2	664+60.2	664+60.2	664+60.2	664+60.2
Offset	RT 61.6	RT 61.6	RT 61.6	RT 61.6	RT 61.6	RT 61.6
Sample ID	T-4	SS-13	SS-18	SS-20	T-6	SS-24
Depth (ft)	48.0	58.5	83.5	98.5	103.0	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	96.6	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	98.8	100.0	91.8	100.0
#4 SIEVE (4.75mm)	100.0	98.1	92.6	100.0	88.0	99.8
#10 SIEVE (2.00mm)	100.0	88.8	89.2	99.9	86.3	99.8
#20 SIEVE (0.85mm)	100.0	66.8	76.2	99.7	82.7	99.3
#40" SIEVE (425um)	99.9	35.1	25.9	94.3	72.9	96.2
#60 SIEVE (250um)	99.5	11.7	9.2	85.3	62.7	66.1
#100 SIEVE (150um)	94.3	4.4	4.8	69.6	51.4	20.4
#140 SIEVE (106um)	88.5	3.4	3.7	64.2	47.5	10.9
#200 SIEVE (75um)	77.6	2.8	2.9	58.6	43.4	7.1
Clay	35.8					
Silt	41.8					
Total Sand	22.4	95.3	89.7	41.4	44.6	92.7
Total Gravel	0.0	1.9	7.4	0.0	12.0	0.2
ATTERBERG LIMITS						
Liquid Limit	48	NP	NP	37	27	NP
Plastic Limit	19	NP	NP	13	10	NP
Plasticity Index	29	NP	NP	24	17	NP
USCS	CL	SP	SP	CL	SC	SP-SM
AASHTO	A-7-6(22)	A-1-b(0)	A-1-b(0)	A-6(11)	A-6(3)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-35	BW-35	BW-35	BW-35	BW-35	BW-35
Station	667+81.5	667+81.5	667+81.5	667+81.5	667+81.5	667+81.5
Offset	RT 35.5	RT 35.5	RT 35.5	RT 35.5	RT 35.5	RT 35.5
Sample ID	SS-7	T-1	T-2	T-3	SS-10	SS-12
Depth (ft)	13.5	18.5	28.5	38.5	43.5	53.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	99.9	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.9	100.0	99.7	99.9	100.0
#10 SIEVE (2.00mm)	100.0	99.8	100.0	97.7	99.2	100.0
#20 SIEVE (0.85mm)	99.8	99.5	99.9	80.1	73.0	97.4
#40" SIEVE (425um)	99.5	99.2	99.7	65.3	19.3	72.5
#60 SIEVE (250um)	98.6	98.8	99.4	56.3	7.2	56.0
#100 SIEVE (150um)	92.4	98.0	98.9	49.7	2.7	26.2
#140 SIEVE (106um)	87.3	97.3	98.4	46.7	2.2	17.2
#200 SIEVE (75um)	80.0	96.4	98.1	44.6	2.0	13.7
Clay						
Silt						
Total Sand	20.0	3.6	1.9	55.1	97.9	86.3
Total Gravel	0.0	0.1	0.0	0.3	0.1	0.0
ATTERBERG LIMITS						
Liquid Limit	51	49	83	93	NP	NP
Plastic Limit	19	19	28	39	NP	NP
Plasticity Index	32	30	55	54	NP	NP
USCS	CH	CL	CH	SC	SP	SM
AASHTO	A-7-6(26)	A-7-6(31)	A-7-6(63)	A-7-5(18)	A-1-b(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-35	BW-35	BW-35	BW-35	BW-35	BW-35
Station	667+81.5	667+81.5	667+81.5	667+81.5	667+81.5	667+81.5
Offset	RT 35.5	RT 35.5	RT 35.5	RT 35.5	RT 35.5	RT 35.5
Sample ID	SS-14	SS-17	SS-20	SS-22	SS-24	SS-27
Depth (ft)	63.5	78.5	93.5	103.5	113.5	128.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	91.3	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	99.1	98.3	86.5	100.0	100.0	100.0
#4 SIEVE (4.75mm)	96.8	94.8	80.7	100.0	100.0	100.0
#10 SIEVE (2.00mm)	89.7	89.0	71.5	100.0	100.0	100.0
#20 SIEVE (0.85mm)	67.4	70.8	51.9	99.7	99.8	99.8
#40" SIEVE (425um)	29.2	45.6	26.7	98.3	99.3	98.6
#60 SIEVE (250um)	10.5	13.5	9.7	95.7	98.8	82.9
#100 SIEVE (150um)	6.5	4.7	4.9	57.7	76.0	23.9
#140 SIEVE (106um)	5.8	3.6	3.9	48.1	34.7	11.2
#200 SIEVE (75um)	5.3	3.0	3.3	44.9	16.3	7.5
Clay						
Silt						
Total Sand	91.5	91.8	77.4	55.1	83.7	92.5
Total Gravel	3.2	5.2	19.3	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	33	NP	NP
Plastic Limit	NP	NP	NP	9	NP	NP
Plasticity Index	NP	NP	NP	24	NP	NP
USCS	SP-SM	SP	SP	SC	SM	SP-SM
AASHTO	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-6(6)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-36	BW-36	BW-36	BW-36	BW-36	BW-36
Station	671+12.0	671+12.0	671+12.0	671+12.0	671+12.0	671+12.0
Offset	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1
Sample ID	SS-4	SS-6	SS-7	T-1	T-2	T-3
Depth (ft)	4.5	8.5	13.5	18.5	28.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.9	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	99.8	99.6	100.0	100.0	99.5
#20 SIEVE (0.85mm)	99.7	99.6	99.5	99.8	99.9	68.6
#40" SIEVE (425um)	98.8	99.3	99.2	99.5	99.6	49.2
#60 SIEVE (250um)	94.4	98.8	98.4	99.3	99.3	40.2
#100 SIEVE (150um)	45.4	94.1	90.7	99.0	98.9	34.2
#140 SIEVE (106um)	20.3	85.7	84.8	98.7	98.6	32.0
#200 SIEVE (75um)	12.3	65.7	77.1	97.9	98.3	30.1
Clay						
Silt						
Total Sand	87.7	34.3	22.8	2.1	1.7	69.9
Total Gravel	0.0	0.0	0.1	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	53	36	87	NP
Plastic Limit	NP	NP	19	19	29	NP
Plasticity Index	NP	NP	34	17	58	NP
USCS	SM	ML	CH	CL	CH	SM
AASHTO	A-2-4(0)	A-4(0)	A-7-6(26)	A-6(17)	A-7-6(67)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-36	BW-36	BW-36	BW-36	BW-36	BW-36
Station	671+12.0	671+12.0	671+12.0	671+12.0	671+12.0	671+12.0
Offset	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1
Sample ID	T-4	SS-12	SS-15	SS-21	SS-22	SS-27
Depth (ft)	48.5	58.5	73.5	103.5	108.5	133.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.6	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.9	94.6	95.2	99.8	99.8	96.1
#40" SIEVE (425um)	99.5	57.4	53.4	98.5	98.3	94.5
#60 SIEVE (250um)	89.8	11.6	10.8	94.8	90.3	34.2
#100 SIEVE (150um)	33.3	5.0	4.7	76.7	74.6	12.6
#140 SIEVE (106um)	20.5	4.0	3.7	58.4	61.9	8.7
#200 SIEVE (75um)	16.8	3.3	3.2	47.4	46.9	6.9
Clay						
Silt						
Total Sand	83.2	96.7	96.8	52.6	53.1	93.1
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	35	26	NP
Plastic Limit	NP	NP	NP	11	10	NP
Plasticity Index	NP	NP	NP	24	16	NP
USCS	SM	SP	SP	SC	SC	SP-SM
AASHTO	A-2-4(0)	A-3(0)	A-3(0)	A-6(7)	A-6(3)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-36	BW-36	BW-36	BW-37	BW-37	BW-37
Station	671+12.0	671+12.0	671+12.0	674+29.6	674+29.6	674+29.6
Offset	RT 17.1	RT 17.1	RT 17.1	RT 48.9	RT 48.9	RT 48.9
Sample ID	SS-30	SS-33	SS-35	SS-4	SS-6	T-1
Depth (ft)	148.5	163.5	173.5	4.5	8.5	18.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0			100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0			100.0	100.0	100.0
2" SIEVE (50mm)	100.0			100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0			100.0	100.0	100.0
1" SIEVE (25mm)	100.0			100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0			100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0			100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0			100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0			100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0			99.9	99.9	100.0
#20 SIEVE (0.85mm)	99.7			99.8	99.0	99.9
#40" SIEVE (425um)	98.2			99.1	97.3	99.8
#60 SIEVE (250um)	96.2			96.6	95.6	99.7
#100 SIEVE (150um)	90.3			60.9	82.4	98.5
#140 SIEVE (106um)	84.8			32.4	65.0	97.6
#200 SIEVE (75um)	78.3	58.6	64.6	19.6	38.6	97.0
Clay						
Silt						
Total Sand	21.7			80.4	61.4	3.0
Total Gravel	0.0			0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	38	28	33	NP	NP	56
Plastic Limit	11	14	14	NP	NP	24
Plasticity Index	27	14	19	NP	NP	32
USCS	CL	CL	CL	SM	SM	CH
AASHTO	A-6(19)	A-6(5)	A-6(9)	A-2-4(0)	A-4(0)	A-7-6(35)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-37	BW-37	BW-37	BW-37	BW-37	BW-37
Station	674+29.6	674+29.6	674+29.6	674+29.6	674+29.6	674+29.6
Offset	RT 48.9	RT 48.9	RT 48.9	RT 48.9	RT 48.9	RT 48.9
Sample ID	T-2	T-3	T-4	SS-12	SS-14	SS-15
Depth (ft)	28.0	38.0	48.0	58.5	68.5	73.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	99.1
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	98.7
#10 SIEVE (2.00mm)	100.0	97.2	99.9	100.0	100.0	98.4
#20 SIEVE (0.85mm)	99.6	70.8	99.2	99.6	96.0	97.6
#40" SIEVE (425um)	99.3	52.0	98.7	63.7	64.1	75.3
#60 SIEVE (250um)	99.1	41.7	94.8	10.5	10.8	10.7
#100 SIEVE (150um)	98.6	35.2	67.3	4.6	4.6	3.9
#140 SIEVE (106um)	98.3	32.5	48.9	3.8	3.7	3.2
#200 SIEVE (75um)	98.1	30.6	36.2	3.2	3.0	2.9
Clay						
Silt						
Total Sand	1.9	69.4	63.8	96.8	97.0	95.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	1.3
ATTERBERG LIMITS						
Liquid Limit	110	NP	NP	NP	NP	NP
Plastic Limit	38	NP	NP	NP	NP	NP
Plasticity Index	72	NP	NP	NP	NP	NP
USCS	CH	SM	SM	SP	SP	SP
AASHTO	A-7-5(86)	A-2-4(0)	A-4(0)	A-3(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-37	BW-37	BW-37	BW-37	BW-38	BW-38
Station	674+29.6	674+29.6	674+29.6	674+29.6	676+16.1	676+16.1
Offset	RT 48.9	RT 48.9	RT 48.9	RT 48.9	RT 39.2	RT 39.2
Sample ID	SS-18	SS-20	SS-22	SS-25	SS-4	T-1
Depth (ft)	88.5	98.5	108.5	123.5	4.5	8.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0		100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0		100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0		100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0		100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0		100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0		100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	99.0		100.0	100.0	100.0
3/8" SIEVE (9.5mm)	90.2	95.5		100.0	100.0	100.0
#4 SIEVE (4.75mm)	69.9	89.4		100.0	100.0	100.0
#10 SIEVE (2.00mm)	48.1	70.4		100.0	100.0	100.0
#20 SIEVE (0.85mm)	35.6	38.1		99.8	100.0	99.8
#40" SIEVE (425um)	21.8	11.8		89.9	99.9	99.4
#60 SIEVE (250um)	8.4	5.0		55.7	98.0	98.7
#100 SIEVE (150um)	5.1	3.2		14.4	63.4	92.6
#140 SIEVE (106um)	4.1	2.5		9.3	33.9	80.1
#200 SIEVE (75um)	3.4	2.1	58.6	7.1	18.8	49.6
Clay						7.5
Silt						42.1
Total Sand	66.5	87.4		92.9	81.2	50.4
Total Gravel	30.1	10.6		0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	31	NP	NP	NP
Plastic Limit	NP	NP	15	NP	NP	NP
Plasticity Index	NP	NP	16	NP	NP	NP
USCS	SP	SP	CL	SP-SM	SM	SM
AASHTO	A-1-a(0)	A-1-b(0)	A-6(6)	A-3(0)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-38	BW-38	BW-38	BW-38	BW-38	BW-38
Station	676+16.1	676+16.1	676+16.1	676+16.1	676+16.1	676+16.1
Offset	RT 39.2	RT 39.2	RT 39.2	RT 39.2	RT 39.2	RT 39.2
Sample ID	T-2	T-3	T-4	T-5	SS-12	SS-17
Depth (ft)	18.0	28.0	38.0	48.0	63.5	88.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	98.4
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	91.2
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.3	46.6
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	98.0	7.9
#20 SIEVE (0.85mm)	100.0	100.0	99.8	99.7	92.3	3.3
#40" SIEVE (425um)	99.9	99.9	99.4	99.2	52.6	2.1
#60 SIEVE (250um)	99.8	99.7	98.7	98.6	12.2	1.4
#100 SIEVE (150um)	99.6	99.6	95.2	97.7	6.3	1.1
#140 SIEVE (106um)	99.3	99.4	92.6	97.1	5.3	0.9
#200 SIEVE (75um)	98.9	99.3	90.9	96.5	4.8	0.8
Clay	48.4	54.7	59.4	61.6		
Silt	50.4	44.6	31.5	34.9		
Total Sand	1.1	0.7	9.1	3.5	94.5	45.7
Total Gravel	0.0	0.0	0.0	0.0	0.7	53.4
ATTERBERG LIMITS						
Liquid Limit	74	93	109	69	NP	NP
Plastic Limit	25	24	31	23	NP	NP
Plasticity Index	49	69	78	46	NP	NP
USCS	CH	CH	CH	CH	SP	GP
AASHTO	A-7-6(56)	A-7-6(79)	A-7-5(82)	A-7-6(50)	A-3(0)	A-1-a(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-38	BW-38	BW-39	BW-39	BW-39	BW-39
Station	676+16.1	676+16.1	679+62.2	679+62.2	679+62.2	679+62.2
Offset	RT 39.2	RT 39.2	RT 34.9	RT 34.9	RT 34.9	RT 34.9
Sample ID	SS-21	SS-23	SS-5	T-1	T-2	T-3
Depth (ft)	108.5	118.5	6.0	13.5	23.0	33.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.5	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.7	99.3	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.3	96.0	99.5	98.5	99.7	100.0
#40" SIEVE (425um)	98.9	71.4	98.7	96.7	99.5	100.0
#60 SIEVE (250um)	98.3	29.7	97.9	96.0	98.9	99.8
#100 SIEVE (150um)	91.9	10.9	95.7	94.4	88.4	99.4
#140 SIEVE (106um)	85.5	8.6	91.3	92.9	82.7	98.9
#200 SIEVE (75um)	77.4	7.2	82.7	91.9	80.4	98.4
Clay			30.4	43.8	43.2	61.9
Silt			52.3	48.1	37.2	36.5
Total Sand	22.6	92.3	17.3	8.1	19.6	1.6
Total Gravel	0.0	0.5	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	42	NP	63	116	NP	96
Plastic Limit	15	NP	27	29	NP	27
Plasticity Index	27	NP	36	87	NP	69
USCS	CL	SP-SM	CH	CH	ML	CH
AASHTO	A-7-6(19)	A-3(0)	A-7-6(33)	A-7-6(92)	A-4(0)	A-7-6(79)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-39	BW-39	BW-39	BW-39	BW-39	BW-40
Station	679+62.2	679+62.2	679+62.2	679+62.2	679+62.2	683+01.9
Offset	RT 34.9	RT 34.9	RT 34.9	RT 34.9	RT 34.9	LT 14.7
Sample ID	T-4	T-5	SS-17	SS-20	SS-25	SS-7
Depth (ft)	43.0	58.0	88.5	103.5	128.5	13.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	93.9	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	73.4	100.0	100.0	
#10 SIEVE (2.00mm)	100.0	100.0	57.5	99.4	100.0	
#20 SIEVE (0.85mm)	100.0	99.9	45.8	98.0	99.9	
#40" SIEVE (425um)	100.0	99.6	18.1	96.3	99.5	
#60 SIEVE (250um)	99.9	95.0	7.3	95.6	98.9	96.1
#100 SIEVE (150um)	99.8	78.5	4.3	94.6	56.7	82.6
#140 SIEVE (106um)	99.7	71.7	3.4	91.1	27.4	68.1
#200 SIEVE (75um)	99.5	64.8	2.8	84.2	18.6	50.3
Clay	62.9	29.9				
Silt	36.6	34.9				
Total Sand	0.5	35.2	70.5	15.8	81.4	49.7
Total Gravel	0.0	0.0	26.6	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	66	39	NP	54	NP	NP
Plastic Limit	22	14	NP	16	NP	NP
Plasticity Index	44	25	NP	38	NP	NP
USCS	CH	CL	SP	CH	SM	ML
AASHTO	A-7-6(50)	A-6(13)	A-1-b(0)	A-7-6(33)	A-2-4(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-40	BW-40	BW-40	BW-40	BW-40	BW-40
Station	683+01.9	683+01.9	683+01.9	683+01.9	683+01.9	683+01.9
Offset	LT 14.7	LT 14.7	LT 14.7	LT 14.7	LT 14.7	LT 14.7
Sample ID	T-1	T-3	T-4	SS-14	SS-17	SS-19
Depth (ft)	23.5	43.5	53.5	68.5	83.5	93.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	98.7	100.0	98.5
#10 SIEVE (2.00mm)	100.0	97.0	100.0	97.4	99.3	96.6
#20 SIEVE (0.85mm)	98.6	75.7	99.9	86.7	96.2	92.1
#40" SIEVE (425um)	97.8	59.5	99.6	46.9	82.5	49.1
#60 SIEVE (250um)	97.4	50.7	99.0	13.3	22.9	17.7
#100 SIEVE (150um)	95.5	44.7	97.0	6.1	6.8	6.1
#140 SIEVE (106um)	93.4	42.3	95.1	4.8	5.5	4.9
#200 SIEVE (75um)	88.8	40.6	93.8	4.0	4.7	4.2
Clay						
Silt						
Total Sand	11.2	59.4	6.2	94.8	95.3	94.3
Total Gravel	0.0	0.0	0.0	1.3	0.0	1.5
ATTERBERG LIMITS						
Liquid Limit	43	NP	56	NP	NP	NP
Plastic Limit	17	NP	19	NP	NP	NP
Plasticity Index	26	NP	37	NP	NP	NP
USCS	CL	SM	CH	SP	SP	SP
AASHTO	A-7-6(23)	A-4(0)	A-7-6(38)	A-1-b(0)	A-3(0)	A-1-b(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-40	BW-40	BW-40	BW-40	BW-41	BW-41
Station	683+01.9	683+01.9	683+01.9	683+01.9	686+24.9	686+24.9
Offset	LT 14.7	LT 14.7	LT 14.7	LT 14.7	RT 17.1	RT 17.1
Sample ID	SS-20	SS-21	SS-23	SS-25	SS-3	SS-5
Depth (ft)	98.5	103.5	113.5	123.5	3.0	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0		100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0		100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0		100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0		100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0		100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0		100.0	100.0	100.0
1/2" SIEVE (12.5mm)	98.7	100.0		100.0	100.0	100.0
3/8" SIEVE (9.5mm)	95.9	98.6		100.0	100.0	100.0
#4 SIEVE (4.75mm)	89.1	97.2		100.0	100.0	100.0
#10 SIEVE (2.00mm)	83.1	95.9		100.0	100.0	100.0
#20 SIEVE (0.85mm)	68.6	93.3		99.4	99.7	99.7
#40" SIEVE (425um)	26.8	86.7		96.6	99.4	99.4
#60 SIEVE (250um)	13.8	40.8		95.2	98.8	98.4
#100 SIEVE (150um)	7.7	6.4		88.8	96.6	88.7
#140 SIEVE (106um)	6.9	4.3		58.1	94.5	80.2
#200 SIEVE (75um)	6.4	3.5	79.2	25.6	92.0	72.6
Clay					37.5	30.8
Silt					54.4	41.8
Total Sand	82.6	93.7		74.4	8.0	27.4
Total Gravel	10.9	2.8		0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	47	NP	NP	NP
Plastic Limit	NP	NP	12	NP	NP	NP
Plasticity Index	NP	NP	35	NP	NP	NP
USCS	SP-SM	SP	CL	SM	ML	ML
AASHTO	A-1-b(0)	A-3(0)	A-7-6(26)	A-2-4(0)	A-4(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-41	BW-41	BW-41	BW-41	BW-41	BW-41
Station	686+24.9	686+24.9	686+24.9	686+24.9	686+24.9	686+24.9
Offset	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1
Sample ID	SS-7	T-1	T-3	T-4	SS-12	SS-13
Depth (ft)	13.5	23.0	38.0	48.0	53.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.5	99.9	99.9	99.7	100.0	99.9
#40" SIEVE (425um)	98.7	99.4	99.8	99.1	99.8	99.8
#60 SIEVE (250um)	97.7	99.0	99.7	96.5	89.2	95.0
#100 SIEVE (150um)	87.5	95.7	99.6	90.0	53.3	72.2
#140 SIEVE (106um)	75.9	93.0	99.4	86.7	36.1	54.8
#200 SIEVE (75um)	54.2	91.5	99.0	84.2	26.7	40.2
Clay	13.6	37.5	73.8			
Silt	40.5	54.0	25.2			
Total Sand	45.8	8.5	1.0	15.8	73.3	59.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	59	101	61	NP	NP
Plastic Limit	NP	22	31	20	NP	NP
Plasticity Index	NP	37	70	41	NP	NP
USCS	ML	CH	CH	CH	SM	SM
AASHTO	A-4(0)	A-7-6(38)	A-7-5(83)	A-7-6(36)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-41	BW-41	BW-41	BW-41	BW-41	BW-41
Station	686+24.9	686+24.9	686+24.9	686+24.9	686+24.9	686+24.9
Offset	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1	RT 17.1
Sample ID	SS-16	SS-21	SS-22	SS-24	SS-25	SS-26
Depth (ft)	73.5	98.5	103.5	113.5	118.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0			
2 1/2" SIEVE (63mm)	100.0	100.0	100.0			
2" SIEVE (50mm)	100.0	100.0	100.0			
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0			
1" SIEVE (25mm)	100.0	100.0	100.0			
3/4" SIEVE (19mm)	100.0	100.0	100.0			
1/2" SIEVE (12.5mm)	100.0	98.6	100.0			
3/8" SIEVE (9.5mm)	99.2	91.5	100.0			
#4 SIEVE (4.75mm)	94.5	78.3	100.0			
#10 SIEVE (2.00mm)	90.2	67.7	100.0			
#20 SIEVE (0.85mm)	78.0	58.8	99.7			
#40" SIEVE (425um)	42.0	40.4	99.3			
#60 SIEVE (250um)	14.0	17.8	98.9			
#100 SIEVE (150um)	6.1	11.6	93.6			
#140 SIEVE (106um)	4.8	9.4	75.9			
#200 SIEVE (75um)	4.3	7.9	56.1	83.0	90.9	44.0
Clay						
Silt						
Total Sand	90.2	70.4	43.9			
Total Gravel	5.5	21.7	0.0			
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	43	NP
Plastic Limit	NP	NP	NP	NP	16	NP
Plasticity Index	NP	NP	NP	NP	27	NP
USCS	SP	SW-SM	ML	ML	CL	SM
AASHTO	A-1-b(0)	A-1-b(0)	A-4(0)	A-4(0)	A-7-6(25)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-42	BW-42	BW-42	BW-42	BW-42	BW-42
Station	687+64.2	687+64.2	687+64.2	687+64.2	687+64.2	687+64.2
Offset	RT 31.7	RT 31.7	RT 31.7	RT 31.7	RT 31.7	RT 31.7
Sample ID	SS-4	SS-6	SS-7	T-1	T-2	T-3
Depth (ft)	4.5	8.5	13.5	23.5	33.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.8	100.0	100.0
#10 SIEVE (2.00mm)	99.9	100.0	100.0	99.8	100.0	100.0
#20 SIEVE (0.85mm)	99.4	99.6	98.9	99.1	99.9	100.0
#40" SIEVE (425um)	98.7	98.6	98.1	98.6	99.8	99.1
#60 SIEVE (250um)	97.2	97.7	88.9	98.3	99.7	98.1
#100 SIEVE (150um)	80.7	96.1	43.1	97.8	99.5	97.3
#140 SIEVE (106um)	64.1	90.4	31.3	97.4	99.3	96.8
#200 SIEVE (75um)	50.2	80.1	25.5	96.6	99.0	96.2
Clay						60.9
Silt						35.3
Total Sand	49.8	19.9	74.5	3.2	1.0	3.8
Total Gravel	0.0	0.0	0.0	0.2	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	46	NP	65	86	91
Plastic Limit	NP	24	NP	20	33	39
Plasticity Index	NP	22	NP	45	53	52
USCS	ML	CL	SM	CH	CH	CH
AASHTO	A-4(0)	A-7-6(18)	A-2-4(0)	A-7-6(49)	A-7-5(64)	A-7-5(62)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-42	BW-42	BW-42	BW-42	BW-42	BW-42
Station	687+64.2	687+64.2	687+64.2	687+64.2	687+64.2	687+64.2
Offset	RT 31.7	RT 31.7	RT 31.7	RT 31.7	RT 31.7	RT 31.7
Sample ID	T-4	SS-14	SS-17	SS-19	SS-20	SS-21
Depth (ft)	53.5	73.5	88.5	98.5	103.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	97.0		100.0
3/8" SIEVE (9.5mm)	100.0	100.0	99.0	89.4		100.0
#4 SIEVE (4.75mm)	100.0	94.3	93.6	81.7		100.0
#10 SIEVE (2.00mm)	100.0	88.1	90.7	73.1		99.9
#20 SIEVE (0.85mm)	100.0	66.2	73.1	55.9		98.1
#40" SIEVE (425um)	99.8	32.1	35.9	25.2		95.2
#60 SIEVE (250um)	99.5	10.7	7.1	11.4		92.4
#100 SIEVE (150um)	98.8	6.6	3.6	6.5		65.3
#140 SIEVE (106um)	98.0	5.9	3.0	4.9		37.0
#200 SIEVE (75um)	97.2	5.6	2.6	4.4	85.8	25.2
Clay	65.0					
Silt	32.1					
Total Sand	2.8	88.7	91.0	77.3		74.8
Total Gravel	0.0	5.7	6.4	18.3		0.0
ATTERBERG LIMITS						
Liquid Limit	55	NP	NP	NP	39	NP
Plastic Limit	20	NP	NP	NP	18	NP
Plasticity Index	35	NP	NP	NP	21	NP
USCS	CH	SP-SM	SP	SP	CL	SM
AASHTO	A-7-6(38)	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-6(18)	A-2-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-42	BW-43	BW-43	BW-43	BW-43	BW-43
Station	687+64.2	692+72.7	692+72.7	692+72.7	692+72.7	692+72.7
Offset	RT 31.7	LT 06.1	LT 06.1	LT 06.1	LT 06.1	LT 06.1
Sample ID	SS-24	SS-4	SS-5	SS-7	SS-8	T-2
Depth (ft)	123.5	4.5	6.0	13.5	18.5	33.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0		100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0		100.0
#4 SIEVE (4.75mm)	100.0	99.4	98.8	99.0		100.0
#10 SIEVE (2.00mm)	100.0	97.6	97.7	98.8	100.0	100.0
#20 SIEVE (0.85mm)	98.2	96.0	95.2	98.5	99.9	100.0
#40" SIEVE (425um)	94.2	93.8	87.3	97.9	99.8	100.0
#60 SIEVE (250um)	90.7	89.1	71.3	96.5	99.6	99.8
#100 SIEVE (150um)	80.0	75.7	47.9	66.1	96.3	99.7
#140 SIEVE (106um)	54.1	60.8	28.1	37.5	93.2	99.5
#200 SIEVE (75um)	37.0	49.4	15.1	21.4	91.0	99.1
Clay						
Silt						
Total Sand	63.0	50.1	83.7	77.5	9.0	0.9
Total Gravel	0.0	0.6	1.2	1.0		0.0
ATTERBERG LIMITS						
Liquid Limit	36	NP	NP	NP	62	92
Plastic Limit	9	NP	NP	NP	19	26
Plasticity Index	27	NP	NP	NP	43	66
USCS	SC	SM	SM	SM	CH	CH
AASHTO	A-6(4)	A-4(0)	A-2-4(0)	A-2-4(0)	A-7-6(42)	A-7-6(76)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-43	BW-43	BW-43	BW-43	BW-43	BW-43
Station	692+72.7	692+72.7	692+72.7	692+72.7	692+72.7	692+72.7
Offset	LT 06.1	LT 06.1	LT 06.1	LT 06.1	LT 06.1	LT 06.1
Sample ID	T-3	T-4	SS-12	SS-13	SS-16	SS-21
Depth (ft)	43.5	53.5	58.5	63.5	78.5	103.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	94.0
3/8" SIEVE (9.5mm)	100.0	100.0	98.7	100.0	97.2	86.2
#4 SIEVE (4.75mm)	100.0	100.0	98.7	100.0	94.3	73.8
#10 SIEVE (2.00mm)	100.0	100.0	98.6	100.0	88.7	60.8
#20 SIEVE (0.85mm)	97.8	99.6	98.5	99.9	76.7	42.2
#40" SIEVE (425um)	95.1	99.1	97.3	96.8	46.6	18.7
#60 SIEVE (250um)	92.5	98.3	83.4	60.7	14.5	5.6
#100 SIEVE (150um)	90.0	97.1	62.5	27.9	7.0	2.8
#140 SIEVE (106um)	88.4	95.7	54.7	19.8	5.5	2.1
#200 SIEVE (75um)	86.9	94.1	49.6	15.9	4.5	1.8
Clay						
Silt						
Total Sand	13.1	5.9	49.2	84.1	89.8	72.0
Total Gravel	0.0	0.0	1.3	0.0	5.7	26.2
ATTERBERG LIMITS						
Liquid Limit	89	47	NP	NP	NP	NP
Plastic Limit	39	17	NP	NP	NP	NP
Plasticity Index	50	30	NP	NP	NP	NP
USCS	MH	CL	SM	SM	SP	SP
AASHTO	A-7-5(52)	A-7-6(30)	A-4(0)	A-2-4(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-43	BW-43	BW-43	BW-43	BW-43	BW-43
Station	692+72.7	692+72.7	692+72.7	692+72.7	692+72.7	692+72.7
Offset	LT 06.1	LT 06.1	LT 06.1	LT 06.1	LT 06.1	LT 06.1
Sample ID	SS-23	SS-25	SS-27	SS-30	SS-33	SS-34
Depth (ft)	113.5	123.5	133.5	148.5	163.5	168.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0		100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0		100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	98.6		100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	98.2		100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	97.9		100.0	100.0	99.7	100.0
#20 SIEVE (0.85mm)	96.9		99.5	99.0	95.8	100.0
#40" SIEVE (425um)	82.5		97.7	68.6	73.4	97.0
#60 SIEVE (250um)	56.1		96.3	35.1	39.4	92.9
#100 SIEVE (150um)	31.3		93.9	12.5	9.5	70.9
#140 SIEVE (106um)	19.3		84.8	8.1	5.9	50.1
#200 SIEVE (75um)	14.2	31.7	64.4	6.4	5.1	37.8
Clay						
Silt						
Total Sand	84.0		35.6	93.6	94.9	62.2
Total Gravel	1.8		0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	39	35	NP	NP	NP
Plastic Limit	NP	15	14	NP	NP	NP
Plasticity Index	NP	24	21	NP	NP	NP
USCS	SM	SC	CL	SP-SM	SP-SM	SM
AASHTO	A-2-4(0)	A-2-6(2)	A-6(10)	A-3(0)	A-3(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-43	BW-43	BW-44	BW-44	BW-44	BW-44
Station	692+72.7	692+72.7	696+22.8	696+22.8	696+22.8	696+22.8
Offset	LT 06.1	LT 06.1	RT 12.9	RT 12.9	RT 12.9	RT 12.9
Sample ID	SS-35	SS-36	SS-3	SS-5	SS-6	T-1
Depth (ft)	173.5	178.5	3.0	6.0	8.5	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)				100.0	100.0	100.0
2 1/2" SIEVE (63mm)				100.0	100.0	100.0
2" SIEVE (50mm)				100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)				100.0	100.0	100.0
1" SIEVE (25mm)				100.0	100.0	100.0
3/4" SIEVE (19mm)				100.0	100.0	100.0
1/2" SIEVE (12.5mm)				100.0	100.0	100.0
3/8" SIEVE (9.5mm)				100.0	100.0	100.0
#4 SIEVE (4.75mm)				99.6	100.0	100.0
#10 SIEVE (2.00mm)				99.2	100.0	100.0
#20 SIEVE (0.85mm)				98.8	99.8	100.0
#40" SIEVE (425um)				98.2	99.2	99.9
#60 SIEVE (250um)				96.9	95.4	99.8
#100 SIEVE (150um)				87.1	67.2	99.7
#140 SIEVE (106um)				76.6	45.4	99.4
#200 SIEVE (75um)	95.9	88.8	61.8	59.9	31.1	98.9
Clay				21.7	8.0	28.6
Silt				38.2	23.1	70.3
Total Sand				39.6	68.9	1.1
Total Gravel				0.4	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	71	67	131	NP	NP	62
Plastic Limit	33	14	37	NP	NP	23
Plasticity Index	38	53	94	NP	NP	39
USCS	CH	CH	CH	ML	SM	CH
AASHTO	A-7-5(44)	A-7-6(50)	A-7-5(57)	A-4(0)	A-2-4(0)	A-7-6(44)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-44	BW-44	BW-44	BW-44	BW-44	BW-44
Station	696+22.8	696+22.8	696+22.8	696+22.8	696+22.8	696+22.8
Offset	RT 12.9	RT 12.9	RT 12.9	RT 12.9	RT 12.9	RT 12.9
Sample ID	T-2	T-3	T-4	SS-12	SS-14	SS-16
Depth (ft)	28.5	38.5	48.5	58.5	68.5	78.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	94.6	98.6
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	78.0	95.6
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	70.6	91.0
#20 SIEVE (0.85mm)	99.6	99.9	99.7	100.0	56.9	80.4
#40" SIEVE (425um)	99.4	99.8	99.3	99.7	25.6	40.4
#60 SIEVE (250um)	98.7	99.4	97.8	93.0	8.9	13.4
#100 SIEVE (150um)	94.4	94.3	92.5	66.3	5.8	6.4
#140 SIEVE (106um)	88.3	85.2	90.4	44.8	4.6	5.0
#200 SIEVE (75um)	81.1	78.9	89.1	29.1	3.8	4.1
Clay	56.3	47.0				
Silt	24.9	31.8				
Total Sand	18.9	21.1	10.9	70.9	74.2	91.5
Total Gravel	0.0	0.0	0.0	0.0	22.0	4.4
ATTERBERG LIMITS						
Liquid Limit	78	71	57	NP	NP	NP
Plastic Limit	27	24	18	NP	NP	NP
Plasticity Index	51	47	39	NP	NP	NP
USCS	CH	CH	CH	SM	SP	SP
AASHTO	A-7-6(45)	A-7-6(39)	A-7-6(37)	A-2-4(0)	A-1-b(0)	A-1-b(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-44	BW-44	BW-44	BW-44	BW-45	BW-45
Station	696+22.8	696+22.8	696+22.8	696+22.8	700+34.3	700+34.3
Offset	RT 12.9	RT 12.9	RT 12.9	RT 12.9	RT 01.5	RT 01.5
Sample ID	SS-20	T-5	SS-22	SS-24	SS-3	SS-5
Depth (ft)	98.5	108.5	113.5	123.5	3.0	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)	99.3	100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)	97.6	100.0	100.0		100.0	100.0
#10 SIEVE (2.00mm)	92.6	99.9	99.9		99.9	93.2
#20 SIEVE (0.85mm)	76.4	98.7	99.5		99.1	81.5
#40" SIEVE (425um)	20.4	97.4	98.5		98.3	77.2
#60 SIEVE (250um)	3.0	96.1	75.6		97.4	75.0
#100 SIEVE (150um)	1.1	94.3	37.8		96.3	70.1
#140 SIEVE (106um)	0.9	90.6	32.6		94.7	64.9
#200 SIEVE (75um)	0.8	86.5	22.0	89.0	91.2	56.9
Clay		58.2				
Silt		28.3				
Total Sand	96.8	13.5	78.0		8.8	43.1
Total Gravel	2.4	0.0	0.0		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	54	NP	39	NP	NP
Plastic Limit	NP	16	NP	17	NP	NP
Plasticity Index	NP	38	NP	22	NP	NP
USCS	SP	CH	SM	CL	ML	ML
AASHTO	A-1-b(0)	A-7-6(34)	A-2-4(0)	A-6(19)	A-4(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-45	BW-45	BW-45	BW-45	BW-45	BW-45
Station	700+34.3	700+34.3	700+34.3	700+34.3	700+34.3	700+34.3
Offset	RT 01.5	RT 01.5	RT 01.5	RT 01.5	RT 01.5	RT 01.5
Sample ID	T-1	T-2	T-3	SS-11	SS-12	SS-13
Depth (ft)	23.5	33.5	43.5	48.5	53.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	96.1	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	85.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	100.0	100.0	80.9	99.8	100.0	100.0
#40" SIEVE (425um)	99.8	100.0	78.5	99.5	99.8	96.3
#60 SIEVE (250um)	99.6	99.8	75.9	97.3	92.0	44.4
#100 SIEVE (150um)	99.4	99.6	73.1	80.3	56.3	19.9
#140 SIEVE (106um)	99.1	99.2	71.4	56.5	35.2	14.8
#200 SIEVE (75um)	98.9	98.9	69.7	38.9	23.0	11.7
Clay						
Silt						
Total Sand	1.1	1.1	26.3	61.1	77.0	88.3
Total Gravel	0.0	0.0	3.9	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	72	100	98	NP	NP	NP
Plastic Limit	21	31	27	NP	NP	NP
Plasticity Index	51	69	71	NP	NP	NP
USCS	CH	CH	CH	SM	SM	SP-SM
AASHTO	A-7-6(57)	A-7-5(82)	A-7-6(51)	A-4(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-45	BW-45	BW-45	BW-45	BW-46	BW-46
Station	700+34.3	700+34.3	700+34.3	700+34.3	701+77.8	701+77.8
Offset	RT 01.5	RT 01.5	RT 01.5	RT 01.5	RT 15.7	RT 15.7
Sample ID	SS-19	SS-23	SS-24	SS-26	SS-2	SS-4
Depth (ft)	88.5	108.5	113.5	123.5	1.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	96.5	100.0	100.0	100.0	100.0	99.9
#10 SIEVE (2.00mm)	93.6	100.0	100.0	100.0	97.6	99.1
#20 SIEVE (0.85mm)	80.7	99.6	99.8	99.9	95.1	97.6
#40" SIEVE (425um)	49.7	98.8	98.4	99.0	93.8	96.8
#60 SIEVE (250um)	17.7	98.1	97.1	98.4	92.9	96.4
#100 SIEVE (150um)	8.9	90.0	94.9	98.0	91.7	95.8
#140 SIEVE (106um)	6.9	73.9	90.9	97.5	89.8	94.7
#200 SIEVE (75um)	5.6	58.7	85.7	97.1	86.7	92.5
Clay						
Silt						
Total Sand	90.9	41.3	14.3	2.9	13.3	7.3
Total Gravel	3.5	0.0	0.0	0.0	0.0	0.1
ATTERBERG LIMITS						
Liquid Limit	NP	NP	42	60	NP	NP
Plastic Limit	NP	NP	10	17	NP	NP
Plasticity Index	NP	NP	32	43	NP	NP
USCS	SP-SM	ML	CL	CH	ML	ML
AASHTO	A-1-b(0)	A-4(0)	A-7-6(26)	A-7-6(46)	A-4(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
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ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-46	BW-46	BW-46	BW-46	BW-46	BW-46
Station	701+77.8	701+77.8	701+77.8	701+77.8	701+77.8	701+77.8
Offset	RT 15.7	RT 15.7	RT 15.7	RT 15.7	RT 15.7	RT 15.7
Sample ID	SS-7	T-1	T-2	T-3	T-4	SS-13
Depth (ft)	13.5	18.5	33.5	43.5	53.5	63.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	99.4
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	98.2
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	92.8
#20 SIEVE (0.85mm)	100.0	99.9	100.0	89.3	100.0	74.2
#40" SIEVE (425um)	99.9	99.7	99.9	82.1	99.8	25.2
#60 SIEVE (250um)	99.8	99.0	99.7	78.3	96.7	8.3
#100 SIEVE (150um)	99.2	87.4	98.9	75.7	78.8	5.5
#140 SIEVE (106um)	96.9	57.2	98.2	74.6	61.1	4.6
#200 SIEVE (75um)	88.0	24.8	97.9	73.6	43.5	4.0
Clay						
Silt						
Total Sand	12.0	75.2	2.1	26.4	56.5	94.2
Total Gravel	0.0	0.0	0.0	0.0	0.0	1.8
ATTERBERG LIMITS						
Liquid Limit	NP	NP	87	NP	NP	NP
Plastic Limit	NP	NP	25	NP	NP	NP
Plasticity Index	NP	NP	62	NP	NP	NP
USCS	ML	SM	CH	ML	SM	SP
AASHTO	A-4(0)	A-2-4(0)	A-7-6(71)	A-4(0)	A-4(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-46	BW-46	BW-46	BW-46	BW-47	BW-47
Station	701+77.8	701+77.8	701+77.8	701+77.8	704+81.5	704+81.5
Offset	RT 15.7	RT 15.7	RT 15.7	RT 15.7	RT 21.5	RT 21.5
Sample ID	SS-18	SS-21	SS-23	SS-25	SS-2	SS-4
Depth (ft)	88.5	103.5	113.5	123.5	1.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)	95.9	100.0	100.0		100.0	100.0
#10 SIEVE (2.00mm)	88.4	100.0	100.0		100.0	100.0
#20 SIEVE (0.85mm)	73.9	99.5	100.0		99.2	99.6
#40" SIEVE (425um)	47.6	98.0	99.7		98.0	98.8
#60 SIEVE (250um)	12.9	97.4	94.1		96.3	98.1
#100 SIEVE (150um)	4.4	90.7	17.3		91.7	95.7
#140 SIEVE (106um)	3.4	72.4	11.2		86.5	91.9
#200 SIEVE (75um)	2.8	55.2	9.8	91.5	79.8	85.7
Clay						
Silt						
Total Sand	93.1	44.8	90.2		20.2	14.3
Total Gravel	4.1	0.0	0.0		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	34	NP	45	NP	NP
Plastic Limit	NP	12	NP	12	NP	NP
Plasticity Index	NP	22	NP	33	NP	NP
USCS	SP	CL	SP-SM	CL	ML	ML
AASHTO	A-1-b(0)	A-6(8)	A-3(0)	A-7-6(31)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-47	BW-47	BW-47	BW-47	BW-47	BW-47
Station	704+81.5	704+81.5	704+81.5	704+81.5	704+81.5	704+81.5
Offset	RT 21.5	RT 21.5	RT 21.5	RT 21.5	RT 21.5	RT 21.5
Sample ID	SS-5	SS-8	T-1	T-2	T-3	T-4
Depth (ft)	6.0	18.5	23.5	33.5	43.5	53.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	99.8	100.0
#20 SIEVE (0.85mm)	98.5	99.6	99.8	100.0	95.0	99.9
#40" SIEVE (425um)	97.3	99.3	99.5	99.9	88.9	98.8
#60 SIEVE (250um)	96.4	99.0	99.1	99.8	83.4	97.5
#100 SIEVE (150um)	93.8	97.3	97.7	99.5	78.4	93.2
#140 SIEVE (106um)	90.2	94.6	94.9	99.1	75.9	88.1
#200 SIEVE (75um)	84.0	88.7	88.1	97.6	74.0	82.5
Clay						
Silt						
Total Sand	16.0	11.3	11.9	2.4	26.0	17.5
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	62	89	NP	44
Plastic Limit	NP	NP	21	27	NP	17
Plasticity Index	NP	NP	41	62	NP	27
USCS	ML	ML	CH	CH	ML	CL
AASHTO	A-4(0)	A-4(0)	A-7-6(39)	A-7-6(71)	A-4(0)	A-7-6(22)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-47	BW-47	BW-47	BW-47	BW-47	BW-47
Station	704+81.5	704+81.5	704+81.5	704+81.5	704+81.5	704+81.5
Offset	RT 21.5	RT 21.5	RT 21.5	RT 21.5	RT 21.5	RT 21.5
Sample ID	T-5	SS-15	SS-18	SS-21	SS-22	SS-23
Depth (ft)	63.5	78.5	93.5	108.5	113.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	96.6	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	95.9	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	94.4	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.7	91.1	100.0	100.0	100.0
#20 SIEVE (0.85mm)	100.0	98.3	75.6	99.6	99.8	100.0
#40" SIEVE (425um)	99.8	58.9	22.3	99.1	99.2	99.4
#60 SIEVE (250um)	94.5	11.2	9.0	98.7	97.8	99.1
#100 SIEVE (150um)	78.4	6.5	5.8	93.1	64.3	98.6
#140 SIEVE (106um)	64.7	5.5	4.7	74.4	45.5	97.2
#200 SIEVE (75um)	49.9	4.9	4.0	54.1	38.9	93.5
Clay						
Silt						
Total Sand	50.1	95.1	90.4	45.9	61.1	6.5
Total Gravel	0.0	0.0	5.6	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	48
Plastic Limit	NP	NP	NP	NP	NP	18
Plasticity Index	NP	NP	NP	NP	NP	30
USCS	SM	SP	SP	ML	SM	CL
AASHTO	A-4(0)	A-3(0)	A-1-b(0)	A-4(0)	A-4(0)	A-7-6(30)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-48	BW-48	BW-48	BW-48	BW-48	BW-48
Station	708+11.3	708+11.3	708+11.3	708+11.3	708+11.3	708+11.3
Offset	RT 35.3	RT 35.3	RT 35.3	RT 35.3	RT 35.3	RT 35.3
Sample ID	SS-4	SS-7	SS-8	T-1	T-2	T-3
Depth (ft)	4.5	13.5	18.5	23.5	38.5	48.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	98.2	99.5	99.8	96.9	100.0	99.7
#40" SIEVE (425um)	95.5	98.6	99.5	95.2	99.9	99.2
#60 SIEVE (250um)	93.6	97.6	99.2	94.4	99.8	98.9
#100 SIEVE (150um)	91.4	92.0	98.5	93.6	99.1	97.6
#140 SIEVE (106um)	87.8	81.4	97.5	93.0	96.7	95.1
#200 SIEVE (75um)	79.2	67.0	93.4	91.5	93.9	90.9
Clay						
Silt						
Total Sand	20.8	33.0	6.6	8.5	6.1	9.1
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	93	NP	38	65	80	40
Plastic Limit	27	NP	20	24	29	19
Plasticity Index	66	NP	18	41	51	21
USCS	CH	ML	CL	CH	CH	CL
AASHTO	A-7-6(56)	A-4(0)	A-6(17)	A-7-6(42)	A-7-6(56)	A-6(20)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-48	BW-48	BW-48	BW-48	BW-48	BW-48
Station	708+11.3	708+11.3	708+11.3	708+11.3	708+11.3	708+11.3
Offset	RT 35.3	RT 35.3	RT 35.3	RT 35.3	RT 35.3	RT 35.3
Sample ID	T-4	SS-14	SS-15	SS-18	SS-21	SS-24
Depth (ft)	58.5	68.5	73.5	88.5	103.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	98.2	97.4	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	99.3	87.3	81.7	98.8
#4 SIEVE (4.75mm)	100.0	90.2	95.4	64.6	68.1	94.6
#10 SIEVE (2.00mm)	100.0	78.9	91.4	49.0	63.4	91.6
#20 SIEVE (0.85mm)	100.0	58.1	78.4	36.9	48.9	77.8
#40" SIEVE (425um)	99.9	29.2	33.5	22.5	15.7	30.6
#60 SIEVE (250um)	98.8	17.1	13.7	9.8	4.8	24.1
#100 SIEVE (150um)	90.3	13.2	9.7	6.0	3.0	7.7
#140 SIEVE (106um)	75.4	11.3	6.9	4.9	2.6	4.8
#200 SIEVE (75um)	57.5	9.6	5.5	4.0	2.3	3.6
Clay						
Silt						
Total Sand	42.5	80.6	89.9	60.6	65.8	91.0
Total Gravel	0.0	9.8	4.6	35.4	31.9	5.4
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	ML	SW-SM	SP-SM	SP	SP	SP
AASHTO	A-4(0)	A-1-b(0)	A-1-b(0)	A-1-a(0)	A-1-b(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-48	BW-48	BW-49	BW-49	BW-49	BW-49
Station	708+11.3	708+11.3	711+23.2	711+23.2	711+23.2	711+23.2
Offset	RT 35.3	RT 35.3	RT 18.1	RT 18.1	RT 18.1	RT 18.1
Sample ID	SS-27	SS-30	SS-4	SS-6	SS-7	T-1
Depth (ft)	133.5	148.5	4.5	8.5	13.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	96.7	100.0	100.0
#10 SIEVE (2.00mm)	99.6	100.0	99.5	96.0	100.0	100.0
#20 SIEVE (0.85mm)	98.4	99.9	94.9	95.7	99.7	99.5
#40" SIEVE (425um)	95.3	94.1	89.4	95.1	99.0	99.1
#60 SIEVE (250um)	87.7	52.7	86.9	93.1	98.1	98.8
#100 SIEVE (150um)	49.9	22.6	85.1	74.2	92.5	98.5
#140 SIEVE (106um)	31.5	15.0	82.6	51.1	80.8	98.1
#200 SIEVE (75um)	21.2	10.6	77.5	35.2	64.8	97.3
Clay						
Silt						
Total Sand	78.8	89.4	22.5	61.6	35.2	2.7
Total Gravel	0.0	0.0	0.0	3.3	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	34	63
Plastic Limit	NP	NP	NP	NP	17	24
Plasticity Index	NP	NP	NP	NP	17	39
USCS	SM	SP-SM	ML	SM	CL	CH
AASHTO	A-2-4(0)	A-2-4(0)	A-4(0)	A-2-4(0)	A-6(9)	A-7-6(43)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-49	BW-49	BW-49	BW-49	BW-49	BW-49
Station	711+23.2	711+23.2	711+23.2	711+23.2	711+23.2	711+23.2
Offset	RT 18.1	RT 18.1	RT 18.1	RT 18.1	RT 18.1	RT 18.1
Sample ID	SS-10	T-2	T-3	T-4	SS-13	SS-16
Depth (ft)	33.5	38.5	48.5	58.5	63.5	78.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	98.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	97.2
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	95.5
#10 SIEVE (2.00mm)		100.0	99.8	100.0	100.0	92.3
#20 SIEVE (0.85mm)		99.9	99.7	100.0	99.9	81.0
#40" SIEVE (425um)		99.8	99.5	99.8	97.7	48.7
#60 SIEVE (250um)		99.6	99.0	94.1	84.0	17.6
#100 SIEVE (150um)		98.0	98.1	56.0	57.5	9.8
#140 SIEVE (106um)		93.2	96.4	35.7	45.0	7.7
#200 SIEVE (75um)	96.5	88.4	92.8	24.8	34.7	6.1
Clay						
Silt						
Total Sand		11.6	7.2	75.2	65.3	89.3
Total Gravel		0.0	0.0	0.0	0.0	4.5
ATTERBERG LIMITS						
Liquid Limit	100	83	73	NP	NP	NP
Plastic Limit	31	22	23	NP	NP	NP
Plasticity Index	69	61	50	NP	NP	NP
USCS	CH	CH	CH	SM	SM	SP-SM
AASHTO	A-7-5(79)	A-7-6(59)	A-7-6(52)	A-2-4(0)	A-2-4(0)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-49	BW-49	BW-49	BW-49	BW-50	BW-50
Station	711+23.2	711+23.2	711+23.2	711+23.2	714+04.4	714+04.4
Offset	RT 18.1	RT 18.1	RT 18.1	RT 18.1	RT 50.4	RT 50.4
Sample ID	SS-19	SS-23	SS-24	SS-26	SS-3	SS-6
Depth (ft)	93.5	113.5	118.5	128.5	3.0	8.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)	98.3	100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)	92.6	100.0	100.0		100.0	100.0
#10 SIEVE (2.00mm)	80.6	100.0	100.0		99.8	100.0
#20 SIEVE (0.85mm)	62.3	99.8	99.9		98.6	99.5
#40" SIEVE (425um)	29.8	99.6	99.7		97.2	99.1
#60 SIEVE (250um)	10.8	99.0	99.6		96.0	98.1
#100 SIEVE (150um)	6.8	88.8	81.9		90.6	87.7
#140 SIEVE (106um)	5.6	71.2	65.5		79.4	69.0
#200 SIEVE (75um)	4.7	54.7	62.0	92.7	64.7	51.5
Clay						
Silt						
Total Sand	87.9	45.3	38.0		35.3	48.5
Total Gravel	7.4	0.0	0.0		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	38	NP	NP
Plastic Limit	NP	NP	NP	16	NP	NP
Plasticity Index	NP	NP	NP	22	NP	NP
USCS	SP	ML	ML	CL	ML	ML
AASHTO	A-1-b(0)	A-4(0)	A-4(0)	A-6(20)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-50	BW-50	BW-50	BW-50	BW-50	BW-50
Station	714+04.4	714+04.4	714+04.4	714+04.4	714+04.4	714+04.4
Offset	RT 50.4	RT 50.4	RT 50.4	RT 50.4	RT 50.4	RT 50.4
Sample ID	T-1	T-2	T-4	T-5	SS-12	SS-15
Depth (ft)	13.5	23.5	43.5	53.5	63.5	78.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0		100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0		99.6
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.0		99.6
#10 SIEVE (2.00mm)	100.0	100.0	99.9	98.7		99.5
#20 SIEVE (0.85mm)	99.7	100.0	99.8	98.5	98.1	95.9
#40" SIEVE (425um)	99.3	99.9	99.6	98.3	65.6	60.4
#60 SIEVE (250um)	98.8	99.7	99.2	98.2	33.9	12.7
#100 SIEVE (150um)	94.2	99.4	97.8	97.9	21.0	5.8
#140 SIEVE (106um)	86.9	99.1	93.6	97.7	18.3	4.4
#200 SIEVE (75um)	72.7	98.0	84.8	97.3	15.4	3.4
Clay						
Silt						
Total Sand	27.3	2.0	15.2	1.8	82.7	96.2
Total Gravel	0.0	0.0	0.0	1.0		0.4
ATTERBERG LIMITS						
Liquid Limit	NP	63	41	81	NP	NP
Plastic Limit	NP	24	17	36	NP	NP
Plasticity Index	NP	39	24	45	NP	NP
USCS	ML	CH	CL	CH	SM	SP
AASHTO	A-4(0)	A-7-6(44)	A-7-6(20)	A-7-5(54)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-50	BW-50	BW-50	BW-50	BW-50	BW-50
Station	714+04.4	714+04.4	714+04.4	714+04.4	714+04.4	714+04.4
Offset	RT 50.4	RT 50.4	RT 50.4	RT 50.4	RT 50.4	RT 50.4
Sample ID	SS-17	SS-19	SS-20	SS-22	SS-23	SS-24
Depth (ft)	88.5	98.5	103.5	113.5	118.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0			100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0			100.0	100.0
2" SIEVE (50mm)	100.0	100.0			100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0			100.0	100.0
1" SIEVE (25mm)	100.0	100.0			100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0			100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0			100.0	100.0
3/8" SIEVE (9.5mm)	91.6	99.1			100.0	100.0
#4 SIEVE (4.75mm)	75.5	91.8			100.0	100.0
#10 SIEVE (2.00mm)	60.4	82.4			99.1	100.0
#20 SIEVE (0.85mm)	44.8	62.2			98.4	99.7
#40" SIEVE (425um)	21.9	28.0			97.4	95.7
#60 SIEVE (250um)	9.2	9.3			92.4	84.9
#100 SIEVE (150um)	5.7	5.1			44.4	63.5
#140 SIEVE (106um)	4.7	4.1			28.4	53.0
#200 SIEVE (75um)	3.9	3.3	84.2	46.1	23.0	44.1
Clay						
Silt						
Total Sand	71.7	88.5			77.0	55.9
Total Gravel	24.5	8.2			0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	44	27	NP	NP
Plastic Limit	NP	NP	9	13	NP	NP
Plasticity Index	NP	NP	35	14	NP	NP
USCS	SP	SP	CL	SC	SM	SM
AASHTO	A-1-b(0)	A-1-b(0)	A-7-6(28)	A-6(3)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-50	BW-51	BW-51	BW-51	BW-51	BW-51
Station	714+04.4	717+70.2	717+70.2	717+70.2	717+70.2	717+70.2
Offset	RT 50.4	RT 25.7	RT 25.7	RT 25.7	RT 25.7	RT 25.7
Sample ID	SS-25	SS-4	SS-6	T-1	T-2	T-3
Depth (ft)	128.5	4.5	8.5	23.5	33.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)		100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)		98.8	99.8	100.0	100.0	99.5
#40" SIEVE (425um)		96.5	99.4	99.9	99.9	99.1
#60 SIEVE (250um)		94.1	98.4	99.8	99.8	98.6
#100 SIEVE (150um)		89.6	79.4	99.5	99.5	97.3
#140 SIEVE (106um)		82.8	50.7	99.2	99.3	95.2
#200 SIEVE (75um)	91.0	71.3	31.3	98.5	98.1	88.9
Clay		29.3	7.3	32.7	52.9	30.4
Silt		42.0	24.0	65.8	45.2	58.5
Total Sand		28.7	68.7	1.5	1.9	11.1
Total Gravel		0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	53	NP	NP	63	94	53
Plastic Limit	14	NP	NP	21	34	19
Plasticity Index	39	NP	NP	42	60	34
USCS	CH	ML	SM	CH	CH	CH
AASHTO	A-7-6(37)	A-4(0)	A-2-4(0)	A-7-6(46)	A-7-5(71)	A-7-6(32)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-51	BW-51	BW-51	BW-51	BW-51	BW-51
Station	717+70.2	717+70.2	717+70.2	717+70.2	717+70.2	717+70.2
Offset	RT 25.7	RT 25.7	RT 25.7	RT 25.7	RT 25.7	RT 25.7
Sample ID	T-4	T-5	SS-13	SS-15	SS-17	SS-20
Depth (ft)	53.5	63.5	68.5	78.5	88.5	103.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	95.9	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	94.9	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	88.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	82.7	100.0
#20 SIEVE (0.85mm)	99.6	100.0	99.9	98.7	74.9	99.1
#40" SIEVE (425um)	99.3	100.0	99.6	83.1	51.2	98.2
#60 SIEVE (250um)	98.8	99.8	85.5	45.4	21.5	97.5
#100 SIEVE (150um)	96.1	95.5	69.9	31.1	12.6	96.1
#140 SIEVE (106um)	93.2	88.2	59.3	28.1	9.9	88.4
#200 SIEVE (75um)	89.5	79.0	43.3	26.0	7.8	70.6
Clay						
Silt						
Total Sand	10.5	21.0	56.7	74.0	80.2	29.4
Total Gravel	0.0	0.0	0.0	0.0	12.0	0.0
ATTERBERG LIMITS						
Liquid Limit	60	32	NP	NP	NP	40
Plastic Limit	19	18	NP	NP	NP	14
Plasticity Index	41	14	NP	NP	NP	26
USCS	CH	CL	SM	SM	SP-SM	CL
AASHTO	A-7-6(39)	A-6(10)	A-4(0)	A-2-4(0)	A-3(0)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-51	BW-51	BW-51	BW-52	BW-52	BW-52
Station	717+70.2	717+70.2	717+70.2	720+52.3	720+52.3	720+52.3
Offset	RT 25.7	RT 25.7	RT 25.7	RT 19.3	RT 19.3	RT 19.3
Sample ID	SS-21	SS-22	SS-24	SS-3	SS-4	SS-5
Depth (ft)	108.5	113.5	123.5	3.0	4.5	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.9	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.8	99.2	99.8
#20 SIEVE (0.85mm)	99.8	100.0	99.9	99.1	97.9	98.6
#40" SIEVE (425um)	99.5	99.9	99.6	98.2	96.9	97.4
#60 SIEVE (250um)	98.9	99.3	99.3	97.3	95.6	96.3
#100 SIEVE (150um)	86.5	69.2	98.6	93.3	82.7	91.3
#140 SIEVE (106um)	62.1	37.9	97.8	86.9	67.4	84.0
#200 SIEVE (75um)	45.5	24.7	95.7	78.7	52.4	77.9
Clay						
Silt						
Total Sand	54.5	75.3	4.3	21.3	47.4	22.1
Total Gravel	0.0	0.0	0.0	0.0	0.1	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	45	NP	NP	NP
Plastic Limit	NP	NP	14	NP	NP	NP
Plasticity Index	NP	NP	31	NP	NP	NP
USCS	SM	SM	CL	ML	ML	ML
AASHTO	A-4(0)	A-2-4(0)	A-7-6(31)	A-4(0)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-52	BW-52	BW-52	BW-52	BW-52	BW-52
Station	720+52.3	720+52.3	720+52.3	720+52.3	720+52.3	720+52.3
Offset	RT 19.3	RT 19.3	RT 19.3	RT 19.3	RT 19.3	RT 19.3
Sample ID	SS-6	SS-8	T-1	SS-9	T-2	SS-10
Depth (ft)	8.5	18.5	23.5	28.5	33.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	99.9	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.5	99.8	100.0	100.0	100.0	99.9
#40" SIEVE (425um)	99.1	99.7	99.9	99.8	99.5	98.7
#60 SIEVE (250um)	97.5	99.5	99.8	99.5	95.2	87.1
#100 SIEVE (150um)	76.9	99.1	99.5	99.0	89.9	67.8
#140 SIEVE (106um)	46.0	98.4	99.3	98.7	86.3	53.5
#200 SIEVE (75um)	24.0	95.3	98.9	98.2	83.0	40.2
Clay						
Silt						
Total Sand	76.0	4.7	1.1	1.8	17.0	59.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	63	78	84	71	NP
Plastic Limit	NP	22	23	23	19	NP
Plasticity Index	NP	41	55	61	52	NP
USCS	SM	CH	CH	CH	CH	SM
AASHTO	A-2-4(0)	A-7-6(44)	A-7-6(63)	A-7-6(69)	A-7-6(46)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-52	BW-52	BW-52	BW-52	BW-52	BW-52
Station	720+52.3	720+52.3	720+52.3	720+52.3	720+52.3	720+52.3
Offset	RT 19.3	RT 19.3	RT 19.3	RT 19.3	RT 19.3	RT 19.3
Sample ID	T-4	SS-13	SS-14	SS-16	SS-23	SS-24
Depth (ft)	53.5	63.5	68.5	78.5	113.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.6	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.6	100.0	100.0
#20 SIEVE (0.85mm)	99.9	99.9	100.0	99.3	99.9	99.9
#40" SIEVE (425um)	98.8	99.9	99.9	95.2	99.3	99.7
#60 SIEVE (250um)	97.1	99.7	93.6	26.6	96.8	98.7
#100 SIEVE (150um)	95.2	94.2	27.6	8.2	53.4	77.5
#140 SIEVE (106um)	94.2	80.3	14.4	6.0	22.1	51.9
#200 SIEVE (75um)	93.1	59.6	10.9	4.7	13.6	34.4
Clay						
Silt						
Total Sand	6.9	40.4	89.1	94.9	86.4	65.6
Total Gravel	0.0	0.0	0.0	0.4	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	47	33	NP	NP	NP	NP
Plastic Limit	18	17	NP	NP	NP	NP
Plasticity Index	29	16	NP	NP	NP	NP
USCS	CL	CL	SP-SM	SP	SM	SM
AASHTO	A-7-6(28)	A-6(7)	A-2-4(0)	A-3(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-52	BW-58	BW-58	BW-58	BW-58	BW-58
Station	720+52.3	737+77.0	737+77.0	737+77.0	737+77.0	737+77.0
Offset	RT 19.3	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6
Sample ID	SS-25	SS-4	SS-7	T-1	T-2	T-3
Depth (ft)	123.5	4.5	13.5	18.5	28.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.7	100.0
#10 SIEVE (2.00mm)	100.0	99.7	100.0	100.0	99.6	100.0
#20 SIEVE (0.85mm)	100.0	99.2	99.7	99.9	99.4	99.3
#40" SIEVE (425um)	99.8	98.5	99.2	99.6	99.2	98.2
#60 SIEVE (250um)	99.5	96.8	98.4	99.3	99.1	96.4
#100 SIEVE (150um)	95.8	77.6	95.4	98.3	98.8	94.8
#140 SIEVE (106um)	64.6	36.4	88.5	96.0	98.5	93.9
#200 SIEVE (75um)	44.1	17.6	72.2	87.6	98.0	93.1
Clay				24.0	54.9	64.4
Silt				63.6	43.0	28.6
Total Sand	55.9	82.4	27.8	12.4	1.7	6.9
Total Gravel	0.0	0.0	0.0	0.0	0.3	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	35	44	84	128
Plastic Limit	NP	NP	27	22	27	43
Plasticity Index	NP	NP	8	22	57	85
USCS	SM	SM	ML	CL	CH	CH
AASHTO	A-4(0)	A-2-4(0)	A-4(5)	A-7-6(20)	A-7-6(65)	A-7-5(96)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-58	BW-58	BW-58	BW-58	BW-58	BW-58
Station	737+77.0	737+77.0	737+77.0	737+77.0	737+77.0	737+77.0
Offset	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6
Sample ID	T-4	SS-13	SS-15	SS-19	SS-21	T-6
Depth (ft)	53.5	68.5	78.5	98.5	108.5	118.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	95.6	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	80.7	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	76.3	100.0
#4 SIEVE (4.75mm)	100.0	100.0	96.4	93.2	66.4	100.0
#10 SIEVE (2.00mm)	100.0	99.9	92.8	79.5	58.9	100.0
#20 SIEVE (0.85mm)	100.0	99.7	87.3	51.5	51.4	100.0
#40" SIEVE (425um)	99.8	95.8	70.4	20.5	40.1	99.7
#60 SIEVE (250um)	99.7	53.4	17.3	12.6	25.0	99.6
#100 SIEVE (150um)	98.1	22.5	6.8	7.4	14.7	94.9
#140 SIEVE (106um)	96.9	15.6	5.4	5.8	11.5	77.6
#200 SIEVE (75um)	95.5	11.1	4.4	4.7	9.4	53.0
Clay	53.2					15.8
Silt	42.3					37.2
Total Sand	4.5	88.9	92.0	88.5	57.0	47.0
Total Gravel	0.0	0.0	3.6	6.8	33.6	0.0
ATTERBERG LIMITS						
Liquid Limit	50	NP	NP	NP	NP	NP
Plastic Limit	19	NP	NP	NP	NP	NP
Plasticity Index	31	NP	NP	NP	NP	NP
USCS	CH	SP-SM	SP	SP	SP-SM	ML
AASHTO	A-7-6(32)	A-2-4(0)	A-3(0)	A-1-b(0)	A-1-b(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-58	BW-58	BW-58	BW-58	BW-58	BW-59
Station	737+77.0	737+77.0	737+77.0	737+77.0	737+77.0	740+35.8
Offset	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6	RT 01.2
Sample ID	SS-25	SS-27	SS-30	SS-32	SS-34	SS-3
Depth (ft)	133.5	143.5	158.5	168.5	178.5	3.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	99.8
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	97.7	99.5
#20 SIEVE (0.85mm)	99.9	99.7	98.2	97.2	86.1	97.5
#40" SIEVE (425um)	99.8	98.7	90.1	86.8	54.0	95.8
#60 SIEVE (250um)	96.8	97.6	52.8	73.5	21.7	67.8
#100 SIEVE (150um)	83.1	95.9	18.1	53.8	12.1	43.2
#140 SIEVE (106um)	77.7	89.1	10.8	34.5	8.8	18.0
#200 SIEVE (75um)	73.9	74.5	7.9	25.5	6.6	9.3
Clay						
Silt						
Total Sand	26.1	25.5	92.1	74.5	93.4	90.5
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.2
ATTERBERG LIMITS						
Liquid Limit	36	37	NP	NP	NP	NP
Plastic Limit	10	11	NP	NP	NP	NP
Plasticity Index	26	26	NP	NP	NP	NP
USCS	CL	CL	SP-SM	SM	SP-SM	SP-SM
AASHTO	A-6(16)	A-6(17)	A-3(0)	A-2-4(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-59	BW-59	BW-59	BW-59	BW-59	BW-59
Station	740+35.8	740+35.8	740+35.8	740+35.8	740+35.8	740+35.8
Offset	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2
Sample ID	SS-6	SS-7	T-1	T-2	T-3	T-4
Depth (ft)	8.5	13.5	18.5	28.5	38.5	48.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	97.6
#10 SIEVE (2.00mm)	99.5	99.9	100.0	100.0	100.0	89.7
#20 SIEVE (0.85mm)	99.3	99.6	99.9	99.9	100.0	85.3
#40" SIEVE (425um)	98.9	99.1	99.6	99.8	99.9	82.3
#60 SIEVE (250um)	96.7	98.4	99.1	99.6	99.7	81.7
#100 SIEVE (150um)	86.2	96.4	98.3	99.4	99.4	80.4
#140 SIEVE (106um)	60.5	92.7	97.0	99.2	98.7	79.6
#200 SIEVE (75um)	34.1	80.9	92.5	98.6	96.7	78.9
Clay						
Silt						
Total Sand	65.9	19.1	7.5	1.4	3.3	18.6
Total Gravel	0.0	0.0	0.0	0.0	0.0	2.4
ATTERBERG LIMITS						
Liquid Limit	NP	52	52	81	73	160
Plastic Limit	NP	29	18	25	24	75
Plasticity Index	NP	23	34	56	49	85
USCS	SM	MH	CH	CH	CH	MH
AASHTO	A-2-4(0)	A-7-6(21)	A-7-6(34)	A-7-6(65)	A-7-6(55)	A-7-5(83)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-59	BW-59	BW-59	BW-59	BW-59	BW-59
Station	740+35.8	740+35.8	740+35.8	740+35.8	740+35.8	740+35.8
Offset	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2	RT 01.2
Sample ID	T-5	T-6	SS-14	SS-17	SS-19	SS-23
Depth (ft)	58.5	68.5	78.5	93.5	103.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	93.1	97.6	
3/8" SIEVE (9.5mm)	100.0	100.0	97.4	88.2	97.6	
#4 SIEVE (4.75mm)	100.0	100.0	93.0	72.1	92.9	
#10 SIEVE (2.00mm)	100.0	100.0	85.0	61.4	86.0	
#20 SIEVE (0.85mm)	100.0	100.0	75.4	51.5	73.1	
#40" SIEVE (425um)	99.9	99.9	45.9	25.4	31.9	
#60 SIEVE (250um)	99.8	99.7	15.8	15.0	4.3	
#100 SIEVE (150um)	99.5	99.5	9.8	9.9	1.5	
#140 SIEVE (106um)	98.6	99.5	8.1	7.7	1.3	
#200 SIEVE (75um)	96.8	99.3	6.8	6.2	1.3	77.6
Clay						
Silt						
Total Sand	3.2	0.7	86.2	65.8	91.6	
Total Gravel	0.0	0.0	7.0	27.9	7.1	
ATTERBERG LIMITS						
Liquid Limit	61	57	NP	NP	NP	39
Plastic Limit	20	20	NP	NP	NP	12
Plasticity Index	41	37	NP	NP	NP	27
USCS	CH	CH	SP-SM	SP-SM	SP	CL
AASHTO	A-7-6(44)	A-7-6(41)	A-1-b(0)	A-1-b(0)	A-1-b(0)	A-6(19)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-59	BW-60	BW-60	BW-60	BW-60	BW-60
Station	740+35.8	744+80.4	744+80.4	744+80.4	744+80.4	744+80.4
Offset	RT 01.2	LT 64.9	LT 64.9	LT 64.9	LT 64.9	LT 64.9
Sample ID	SS-24	SS-4	SS-7	T-1	T-2	T-4
Depth (ft)	128.5	4.5	13.5	18.5	28.5	48.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0		100.0	100.0
2" SIEVE (50mm)		100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0		100.0	100.0
1" SIEVE (25mm)		100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0		100.0	100.0
#10 SIEVE (2.00mm)		100.0	100.0		100.0	100.0
#20 SIEVE (0.85mm)		99.8	99.8	100.0	100.0	100.0
#40" SIEVE (425um)		98.7	99.5	99.8	99.9	99.8
#60 SIEVE (250um)		84.5	99.0	99.6	99.7	99.1
#100 SIEVE (150um)		69.7	97.8	99.3	99.5	95.7
#140 SIEVE (106um)		50.3	95.1	98.9	99.2	91.9
#200 SIEVE (75um)	77.8	29.5	87.8	98.1	98.2	86.0
Clay				41.0	60.0	41.6
Silt				57.0	38.3	44.4
Total Sand		70.5	12.2	1.9	1.8	14.0
Total Gravel		0.0	0.0		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	36	NP	48	59	86	41
Plastic Limit	13	NP	21	21	27	13
Plasticity Index	23	NP	27	38	59	28
USCS	CL	SM	CL	CH	CH	CL
AASHTO	A-6(16)	A-2-4(0)	A-7-6(25)	A-7-6(42)	A-7-6(68)	A-7-6(23)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-60	BW-60	BW-60	BW-60	BW-60	BW-60
Station	744+80.4	744+80.4	744+80.4	744+80.4	744+80.4	744+80.4
Offset	LT 64.9	LT 64.9	LT 64.9	LT 64.9	LT 64.9	LT 64.9
Sample ID	SS-11	SS-13	SS-15	SS-18	SS-21	SS-24
Depth (ft)	53.5	68.5	78.5	93.5	108.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	97.2	100.0	96.9	100.0	
3/8" SIEVE (9.5mm)	100.0	91.6	100.0	93.6	100.0	
#4 SIEVE (4.75mm)	100.0	81.3	96.2	82.4	100.0	
#10 SIEVE (2.00mm)	100.0	74.4	88.8	70.7	100.0	
#20 SIEVE (0.85mm)	99.9	68.6	76.7	43.2	99.6	
#40" SIEVE (425um)	99.7	55.9	46.3	29.5	95.5	
#60 SIEVE (250um)	98.4	15.4	14.9	22.1	83.6	
#100 SIEVE (150um)	79.9	9.3	6.8	19.1	35.0	
#140 SIEVE (106um)	56.4	4.6	5.4	18.0	18.1	
#200 SIEVE (75um)	40.7	4.0	4.4	17.3	12.2	82.0
Clay						
Silt						
Total Sand	59.3	77.4	91.8	65.1	87.8	
Total Gravel	0.0	18.7	3.8	17.6	0.0	
ATTERBERG LIMITS						
Liquid Limit	32	NP	NP	NP	NP	38
Plastic Limit	13	NP	NP	NP	NP	17
Plasticity Index	19	NP	NP	NP	NP	21
USCS	SC	SP	SP	SM	SM	CL
AASHTO	A-6(3)	A-3(0)	A-1-b(0)	A-1-b(0)	A-2-4(0)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-60	BW-61	BW-61	BW-61	BW-61	BW-61
Station	744+80.4	747+34.0	747+34.0	747+34.0	747+34.0	747+34.0
Offset	LT 64.9	RT 06.1	RT 06.1	RT 06.1	RT 06.1	RT 06.1
Sample ID	SS-25	SS-4	SS-6	SS-9	T-3	T-4
Depth (ft)	128.5	4.5	8.5	28.5	48.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.8	99.9	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.6	99.7	99.2	99.9	99.6	99.9
#40" SIEVE (425um)	99.0	98.1	97.4	99.7	98.1	99.6
#60 SIEVE (250um)	94.5	72.8	70.3	99.5	95.3	99.0
#100 SIEVE (150um)	68.3	38.9	34.5	99.3	92.9	98.2
#140 SIEVE (106um)	61.8	18.7	15.6	99.0	91.7	97.2
#200 SIEVE (75um)	59.8	11.2	9.8	98.5	90.6	96.7
Clay					61.0	59.6
Silt					29.5	37.1
Total Sand	40.2	88.8	90.2	1.5	9.4	3.3
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	26	NP	NP	85	110	86
Plastic Limit	11	NP	NP	26	37	19
Plasticity Index	15	NP	NP	59	73	67
USCS	CL	SP-SM	SP-SM	CH	CH	CH
AASHTO	A-6(6)	A-2-4(0)	A-3(0)	A-7-6(67)	A-7-5(79)	A-7-6(73)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-61	BW-61	BW-61	BW-61	BW-61	BW-62
Station	747+34.0	747+34.0	747+34.0	747+34.0	747+34.0	750+42.3
Offset	RT 06.1	RT 06.1	RT 06.1	RT 06.1	RT 06.1	LT 19.6
Sample ID	SS-14	SS-15	SS-16	SS-20	SS-24	SS-3
Depth (ft)	73.5	78.5	83.5	103.5	123.5	3.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	96.1	100.0	100.0	94.7	94.5	100.0
1/2" SIEVE (12.5mm)	87.0	91.6	96.4	85.9	92.4	100.0
3/8" SIEVE (9.5mm)	77.0	90.5	91.0	75.0	92.4	100.0
#4 SIEVE (4.75mm)	66.6	87.7	86.6	51.0	92.2	100.0
#10 SIEVE (2.00mm)	60.8	80.6	84.8	31.5	91.2	99.9
#20 SIEVE (0.85mm)	56.6	64.2	79.6	19.9	87.4	99.8
#40" SIEVE (425um)	47.2	23.5	58.3	12.7	78.7	99.0
#60 SIEVE (250um)	18.7	5.7	9.5	7.4	61.2	80.3
#100 SIEVE (150um)	11.0	2.9	3.5	4.5	23.2	49.7
#140 SIEVE (106um)	10.1	2.6	2.9	3.6	14.0	26.6
#200 SIEVE (75um)	9.5	2.3	2.6	3.0	10.9	15.4
Clay						
Silt						
Total Sand	57.1	85.4	84.0	48.0	81.3	84.6
Total Gravel	33.4	12.3	13.4	49.0	7.8	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	SP-SM	SP	SP	GW	SP-SM	SM
AASHTO	A-1-b(0)	A-1-b(0)	A-3(0)	A-1-a(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-62	BW-62	BW-62	BW-62	BW-62	BW-62
Station	750+42.3	750+42.3	750+42.3	750+42.3	750+42.3	750+42.3
Offset	LT 19.6	LT 19.6	LT 19.6	LT 19.6	LT 19.6	LT 19.6
Sample ID	SS-8	T-1	SS-12	T-3	SS-15	SS-17
Depth (ft)	18.5	28.5	48.5	58.5	73.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	97.2	97.9
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	91.6	95.1
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	90.2	92.9
#20 SIEVE (0.85mm)	99.9	100.0	98.8	99.9	88.8	87.7
#40" SIEVE (425um)	99.5	99.6	95.5	99.6	73.3	73.6
#60 SIEVE (250um)	97.4	99.0	93.0	98.6	17.1	39.8
#100 SIEVE (150um)	96.0	98.4	91.3	97.0	7.5	11.3
#140 SIEVE (106um)	94.6	97.9	90.4	95.8	6.6	8.3
#200 SIEVE (75um)	86.4	97.3	89.6	94.5	6.1	7.1
Clay	16.2	46.8	47.1	56.6		
Silt	70.2	50.5	42.5	37.9		
Total Sand	13.6	2.7	10.4	5.5	85.5	88.0
Total Gravel	0.0	0.0	0.0	0.0	8.4	4.9
ATTERBERG LIMITS						
Liquid Limit	NP	85	84	47	NP	NP
Plastic Limit	NP	24	41	16	NP	NP
Plasticity Index	NP	61	43	31	NP	NP
USCS	ML	CH	MH	CL	SP-SM	SP-SM
AASHTO	A-4(0)	A-7-6(68)	A-7-5(48)	A-7-6(31)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-62	BW-62	BW-63	BW-63	BW-63	BW-63
Station	750+42.3	750+42.3	753+26.8	753+26.8	753+26.8	753+26.8
Offset	LT 19.6	LT 19.6	LT 16.8	LT 16.8	LT 16.8	LT 16.8
Sample ID	SS-20	SS-24	SS-2	SS-5	SS-7	SS-8
Depth (ft)	98.5	118.5	1.5	6.0	13.5	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	89.6	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	85.6	100.0	100.0	97.8	100.0	
3/8" SIEVE (9.5mm)	81.4	100.0	100.0	96.8	100.0	
#4 SIEVE (4.75mm)	76.1	98.6	100.0	96.2	100.0	
#10 SIEVE (2.00mm)	66.1	97.8	100.0	96.0	100.0	
#20 SIEVE (0.85mm)	51.9	96.5	100.0	95.9	99.8	
#40" SIEVE (425um)	28.6	92.8	98.7	95.0	99.1	
#60 SIEVE (250um)	12.1	85.3	78.4	81.5	93.9	
#100 SIEVE (150um)	7.1	54.9	37.5	45.1	89.6	
#140 SIEVE (106um)	5.8	37.6	20.6	20.2	81.6	
#200 SIEVE (75um)	4.8	21.1	14.0	10.7	63.5	85.4
Clay			5.0	3.2	15.5	
Silt			9.0	7.6	48.0	
Total Sand	71.3	77.5	86.0	85.5	36.5	
Total Gravel	23.9	1.4	0.0	3.8	0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	52
Plastic Limit	NP	NP	NP	NP	NP	22
Plasticity Index	NP	NP	NP	NP	NP	30
USCS	SP	SM	SM	SP-SM	ML	CH
AASHTO	A-1-b(0)	A-2-4(0)	A-2-4(0)	A-2-4(0)	A-4(0)	A-7-6(27)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-63	BW-63	BW-63	BW-63	BW-63	BW-63
Station	753+26.8	753+26.8	753+26.8	753+26.8	753+26.8	753+26.8
Offset	LT 16.8	LT 16.8	LT 16.8	LT 16.8	LT 16.8	LT 16.8
Sample ID	T-2	SS-12	T-5	SS-15	SS-17	SS-18
Depth (ft)	33.5	58.5	63.5	83.5	93.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0		100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0		100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0	95.7	100.0
3/8" SIEVE (9.5mm)	100.0		100.0	100.0	92.5	100.0
#4 SIEVE (4.75mm)	100.0		100.0	100.0	85.7	100.0
#10 SIEVE (2.00mm)	100.0		100.0	99.5	78.5	100.0
#20 SIEVE (0.85mm)	99.8		99.9	98.6	60.3	100.0
#40" SIEVE (425um)	99.5		99.3	92.4	32.3	99.7
#60 SIEVE (250um)	98.8		98.6	62.9	18.3	98.1
#100 SIEVE (150um)	97.8		98.3	14.0	13.6	97.3
#140 SIEVE (106um)	97.0		98.0	6.4	12.6	96.6
#200 SIEVE (75um)	95.6	97.3	97.6	4.4	11.8	95.0
Clay	32.2		53.9			52.9
Silt	63.4		43.7			42.1
Total Sand	4.4		2.4	95.6	74.0	5.0
Total Gravel	0.0		0.0	0.0	14.3	0.0
ATTERBERG LIMITS						
Liquid Limit	90	65	64	NP	NP	75
Plastic Limit	25	24	23	NP	NP	24
Plasticity Index	65	41	41	NP	NP	51
USCS	CH	CH	CH	SP	SP-SM	CH
AASHTO	A-7-6(72)	A-7-6(46)	A-7-6(46)	A-3(0)	A-1-b(0)	A-7-6(55)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-63	BW-63	BW-63	BW-63	BW-63	BW-64
Station	753+26.8	753+26.8	753+26.8	753+26.8	753+26.8	756+84.2
Offset	LT 16.8	LT 16.8	LT 16.8	LT 16.8	LT 16.8	RT 21.2
Sample ID	SS-19	SS-22	SS-24	SS-25	SS-27	SS-3
Depth (ft)	103.5	118.5	128.5	133.5	143.5	3.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	85.4	100.0	100.0	100.0	100.0	98.0
#4 SIEVE (4.75mm)	63.5	99.8	100.0	100.0	100.0	97.6
#10 SIEVE (2.00mm)	53.1	99.7	99.8	100.0	100.0	97.4
#20 SIEVE (0.85mm)	44.6	99.2	97.0	99.9	100.0	97.4
#40" SIEVE (425um)	32.6	94.1	93.2	98.6	99.8	96.6
#60 SIEVE (250um)	15.2	66.9	89.4	97.2	99.6	85.5
#100 SIEVE (150um)	8.5	19.5	87.1	94.2	99.0	44.9
#140 SIEVE (106um)	7.4	10.8	86.1	91.3	94.7	27.5
#200 SIEVE (75um)	6.7	8.5	83.5	77.9	83.3	18.3
Clay						
Silt						
Total Sand	56.8	91.3	16.5	22.1	16.7	79.2
Total Gravel	36.5	0.2	0.0	0.0	0.0	2.4
ATTERBERG LIMITS						
Liquid Limit	NP	NP	38	25	20	NP
Plastic Limit	NP	NP	16	20	17	NP
Plasticity Index	NP	NP	22	5	3	NP
USCS	SP-SM	SP-SM	CL	CL-ML	ML	SM
AASHTO	A-1-b(0)	A-3(0)	A-6(18)	A-4(2)	A-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-64	BW-64	BW-64	BW-64	BW-64	BW-64
Station	756+84.2	756+84.2	756+84.2	756+84.2	756+84.2	756+84.2
Offset	RT 21.2	RT 21.2	RT 21.2	RT 21.2	RT 21.2	RT 21.2
Sample ID	SS-5	SS-7	SS-8	T-3	SS-10	T-4
Depth (ft)	6.0	13.5	23.5	38.5	43.5	53.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.9	100.0	99.7	97.0	100.0
#40" SIEVE (425um)	99.5	99.7	99.9	99.5	94.7	99.9
#60 SIEVE (250um)	96.9	99.4	99.7	98.9	92.6	99.5
#100 SIEVE (150um)	87.2	98.5	99.5	97.1	91.1	97.2
#140 SIEVE (106um)	68.8	96.4	99.3	94.3	90.3	94.5
#200 SIEVE (75um)	38.9	87.2	98.8	87.5	89.6	87.4
Clay				33.4		36.6
Silt				54.1		50.8
Total Sand	61.1	12.8	1.2	12.5	10.4	12.6
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	43	91	55	91	47
Plastic Limit	NP	23	30	20	54	17
Plasticity Index	NP	20	61	35	37	30
USCS	SM	CL	CH	CH	MH	CL
AASHTO	A-4(0)	A-7-6(18)	A-7-5(72)	A-7-6(33)	A-7-5(45)	A-7-6(27)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-64	BW-64	BW-64	BW-64	BW-64	BW-67
Station	756+84.2	756+84.2	756+84.2	756+84.2	756+84.2	766+91.9
Offset	RT 21.2	RT 21.2	RT 21.2	RT 21.2	RT 21.2	RT 30.4
Sample ID	T-5	SS-16	SS-18	SS-21	SS-23	SS-4
Depth (ft)	68.5	83.5	93.5	108.5	118.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	94.7	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	97.6	97.4	93.7	100.0
#4 SIEVE (4.75mm)	100.0	98.5	82.6	91.8	90.8	100.0
#10 SIEVE (2.00mm)	100.0	97.9	71.1	89.5	90.1	100.0
#20 SIEVE (0.85mm)	100.0	97.4	65.7	85.9	89.5	99.9
#40" SIEVE (425um)	100.0	73.9	55.1	71.7	73.7	99.2
#60 SIEVE (250um)	99.8	10.2	19.2	28.1	15.9	93.7
#100 SIEVE (150um)	99.1	7.1	7.2	8.4	6.6	41.4
#140 SIEVE (106um)	97.5	6.4	5.7	6.2	5.6	15.1
#200 SIEVE (75um)	94.6	5.9	4.6	5.2	4.9	6.3
Clay	49.0					
Silt	45.6					
Total Sand	5.4	92.6	78.0	86.6	85.9	93.7
Total Gravel	0.0	1.5	17.4	8.2	9.2	0.0
ATTERBERG LIMITS						
Liquid Limit	53	NP	NP	NP	NP	NP
Plastic Limit	19	NP	NP	NP	NP	NP
Plasticity Index	34	NP	NP	NP	NP	NP
USCS	CH	SP-SM	SP	SP-SM	SP	SP-SM
AASHTO	A-7-6(35)	A-3(0)	A-3(0)	A-3(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-67	BW-67	BW-67	BW-67	BW-67	BW-67
Station	766+91.9	766+91.9	766+91.9	766+91.9	766+91.9	766+91.9
Offset	RT 30.4	RT 30.4	RT 30.4	RT 30.4	RT 30.4	RT 30.4
Sample ID	SS-5	SS-7	T-1	SS-9	T-3	T-4
Depth (ft)	6.0	13.5	23.5	28.5	43.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.9	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.8	100.0	99.5	99.3	100.0
#40" SIEVE (425um)	99.3	99.5	99.9	99.1	98.7	99.9
#60 SIEVE (250um)	93.6	98.8	99.8	98.6	97.9	99.8
#100 SIEVE (150um)	42.0	96.1	99.6	97.9	96.9	99.5
#140 SIEVE (106um)	16.3	91.2	99.4	97.3	95.9	98.5
#200 SIEVE (75um)	7.5	64.9	98.2	96.3	93.4	96.0
Clay			33.5		41.9	52.3
Silt			64.7		51.5	43.7
Total Sand	92.5	35.1	1.8	3.7	6.6	4.0
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	67	85	81	61
Plastic Limit	NP	NP	26	31	38	22
Plasticity Index	NP	NP	41	54	43	39
USCS	SP-SM	ML	CH	CH	MH	CH
AASHTO	A-3(0)	A-4(0)	A-7-6(47)	A-7-5(62)	A-7-5(49)	A-7-6(42)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-67	BW-67	BW-67	BW-67	BW-78	BW-78
Station	766+91.9	766+91.9	766+91.9	766+91.9	798+32.8	798+32.8
Offset	RT 30.4	RT 30.4	RT 30.4	RT 30.4	RT 05.1	RT 05.1
Sample ID	SS-14	SS-17	SS-19	SS-22	SS-2	SS-4
Depth (ft)	73.5	88.5	98.5	113.5	1.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	93.5	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	89.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	98.8	68.2	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	97.4	50.3	99.9	99.9	99.9	99.9
#20 SIEVE (0.85mm)	94.1	34.1	99.7	99.7	99.8	99.8
#40" SIEVE (425um)	67.7	19.6	99.4	94.1	99.6	99.6
#60 SIEVE (250um)	20.5	9.1	97.2	33.3	87.2	87.2
#100 SIEVE (150um)	11.5	5.4	88.0	9.4	43.9	40.7
#140 SIEVE (106um)	10.5	4.3	76.2	8.4	26.0	22.3
#200 SIEVE (75um)	9.7	3.4	58.2	7.4	20.7	12.2
Clay					9.9	3.5
Silt					10.8	8.7
Total Sand	89.1	64.7	41.8	92.6	79.3	87.8
Total Gravel	1.2	31.8	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	28	NP	NP
Plastic Limit	NP	NP	NP	11	NP	NP
Plasticity Index	NP	NP	NP	17	NP	NP
USCS	SP-SM	SP	ML	SP-SC	SM	SM
AASHTO	A-3(0)	A-1-a(0)	A-4(0)	A-2-6(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-78	BW-78	BW-78	BW-78	BW-78	BW-78
Station	798+32.8	798+32.8	798+32.8	798+32.8	798+32.8	798+32.8
Offset	RT 05.1	RT 05.1	RT 05.1	RT 05.1	RT 05.1	RT 05.1
Sample ID	SS-6	T-1	T-2	SS-11	SS-14	SS-16
Depth (ft)	8.5	23.5	33.5	48.5	63.5	73.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0			100.0
2 1/2" SIEVE (63mm)	100.0		100.0			100.0
2" SIEVE (50mm)	100.0		100.0			100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0			100.0
1" SIEVE (25mm)	100.0	94.0	100.0			100.0
3/4" SIEVE (19mm)	100.0	88.0	100.0			100.0
1/2" SIEVE (12.5mm)	100.0	83.9	100.0			100.0
3/8" SIEVE (9.5mm)	100.0	78.4	100.0			97.6
#4 SIEVE (4.75mm)	100.0	63.7	100.0			95.6
#10 SIEVE (2.00mm)	100.0	49.9	100.0			94.7
#20 SIEVE (0.85mm)	100.0	41.5	100.0			90.2
#40" SIEVE (425um)	99.3	35.9	99.9			62.3
#60 SIEVE (250um)	66.2	33.6	99.6			12.4
#100 SIEVE (150um)	26.6	32.4	93.8			6.2
#140 SIEVE (106um)	15.5	31.8	90.5			5.2
#200 SIEVE (75um)	9.2	31.3	87.6	67.4	94.5	4.7
Clay	2.5	19.0	46.1			
Silt	6.7	12.4	41.5			
Total Sand	90.8	32.3	12.4			90.9
Total Gravel	0.0	30.4	0.0			4.4
ATTERBERG LIMITS						
Liquid Limit	NP	NP	77	81	80	NP
Plastic Limit	NP	NP	24	52	28	NP
Plasticity Index	NP	NP	53	29	52	NP
USCS	SP-SM	GM	CH	MH	CH	SP
AASHTO	A-3(0)	A-2-4(0)	A-7-6(52)	A-7-5(23)	A-7-6(58)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-78	BW-78	BW-78	BW-78	BW-78	BW-78
Station	798+32.8	798+32.8	798+32.8	798+32.8	798+32.8	798+32.8
Offset	RT 05.1	RT 05.1	RT 05.1	RT 05.1	RT 05.1	RT 05.1
Sample ID	SS-17	SS-19	SS-20	SS-21	SS-24	SS-28
Depth (ft)	78.5	88.5	93.5	98.5	113.5	133.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	82.9	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	91.8	82.9	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	78.0	82.9	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	51.5	82.7	100.0	100.0	99.7	100.0
#10 SIEVE (2.00mm)	40.3	82.6	100.0	99.9	99.5	100.0
#20 SIEVE (0.85mm)	32.7	82.3	100.0	99.8	99.2	100.0
#40" SIEVE (425um)	23.1	81.9	99.8	99.5	97.1	99.8
#60 SIEVE (250um)	8.2	81.4	99.4	98.7	77.7	99.2
#100 SIEVE (150um)	3.5	81.0	96.3	51.8	24.7	96.6
#140 SIEVE (106um)	2.8	80.4	81.5	16.2	11.9	95.3
#200 SIEVE (75um)	2.5	79.4	58.4	9.4	7.4	93.9
Clay						
Silt						
Total Sand	49.0	3.3	41.6	90.6	92.3	6.1
Total Gravel	48.5	17.3	0.0	0.0	0.3	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	66	NP	NP	NP	52
Plastic Limit	NP	25	NP	NP	NP	20
Plasticity Index	NP	41	NP	NP	NP	32
USCS	SP	CH	ML	SP-SM	SP-SM	CH
AASHTO	A-1-a(0)	A-7-6(34)	A-4(0)	A-3(0)	A-3(0)	A-7-6(33)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-78	BW-79	BW-79	BW-79	BW-79	BW-79
Station	798+32.8	801+32.7	801+32.7	801+32.7	801+32.7	801+32.7
Offset	RT 05.1	RT 03.6	RT 03.6	RT 03.6	RT 03.6	RT 03.6
Sample ID	SS-31	SS-1	SS-4	SS-7	SS-8	SS-9
Depth (ft)	148.5	0.0	4.5	13.5	18.5	28.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.9	100.0	99.8
#10 SIEVE (2.00mm)	100.0	100.0	99.8	99.9	100.0	99.8
#20 SIEVE (0.85mm)	99.8	99.9	99.4	99.8	99.8	99.7
#40" SIEVE (425um)	99.4	99.6	98.1	99.0	99.1	99.6
#60 SIEVE (250um)	94.6	95.9	72.6	60.6	89.2	98.6
#100 SIEVE (150um)	66.7	74.3	28.9	16.3	75.9	97.4
#140 SIEVE (106um)	57.7	49.5	15.8	12.4	73.2	97.0
#200 SIEVE (75um)	52.6	32.3	10.0	10.7	64.3	96.0
Clay						
Silt						
Total Sand	47.4	67.7	90.0	89.2	35.7	3.8
Total Gravel	0.0	0.0	0.0	0.1	0.0	0.2
ATTERBERG LIMITS						
Liquid Limit	36	NP	NP	NP	40	85
Plastic Limit	15	NP	NP	NP	21	24
Plasticity Index	21	NP	NP	NP	19	61
USCS	CL	SM	SP-SM	SP-SM	CL	CH
AASHTO	A-6(7)	A-2-4(0)	A-3(0)	A-2-4(0)	A-6(10)	A-7-6(67)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-79	BW-79	BW-79	BW-79	BW-79	BW-79
Station	801+32.7	801+32.7	801+32.7	801+32.7	801+32.7	801+32.7
Offset	RT 03.6	RT 03.6	RT 03.6	RT 03.6	RT 03.6	RT 03.6
Sample ID	T-3	SS-14	SS-16	SS-21	SS-22	SS-23
Depth (ft)	43.5	63.5	73.5	98.5	103.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.9	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.8	100.0	99.8	99.9
#20 SIEVE (0.85mm)	98.0	100.0	99.3	99.8	99.7	99.5
#40" SIEVE (425um)	94.4	97.7	93.3	99.3	99.6	99.1
#60 SIEVE (250um)	89.6	79.8	54.7	98.7	99.2	93.4
#100 SIEVE (150um)	71.3	69.7	24.7	98.1	92.1	36.6
#140 SIEVE (106um)	64.7	66.2	17.3	95.6	83.6	31.1
#200 SIEVE (75um)	60.9	63.1	13.8	87.9	72.0	28.9
Clay	28.2					
Silt	32.6					
Total Sand	39.1	36.9	86.2	12.1	28.0	71.1
Total Gravel	0.0	0.0	0.1	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	40	NP	33	25	18
Plastic Limit	NP	15	NP	12	18	14
Plasticity Index	NP	25	NP	21	7	4
USCS	ML	CL	SM	CL	CL-ML	SC-SM
AASHTO	A-4(0)	A-6(13)	A-2-4(0)	A-6(17)	A-4(3)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-79	BW-80	BW-80	BW-80	BW-80	BW-80
Station	801+32.7	804+32.5	804+32.5	804+32.5	804+32.5	804+32.5
Offset	RT 03.6	RT 03.8	RT 03.8	RT 03.8	RT 03.8	RT 03.8
Sample ID	SS-25	SS-7	SS-8	T-1	SS-9	SS-10
Depth (ft)	118.5	13.5	18.5	23.5	28.5	38.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.9	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.9	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.7	99.9	100.0	100.0	99.9
#40" SIEVE (425um)	94.7	99.0	99.7	100.0	99.9	99.7
#60 SIEVE (250um)	44.4	92.9	99.3	99.8	98.8	89.2
#100 SIEVE (150um)	24.1	86.0	98.8	99.2	93.1	56.9
#140 SIEVE (106um)	13.7	80.4	98.1	98.9	91.0	46.5
#200 SIEVE (75um)	7.6	64.7	95.7	98.2	89.1	39.9
Clay				52.2		
Silt				46.0		
Total Sand	92.4	35.3	4.3	1.8	10.9	60.1
Total Gravel	0.0	0.1	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	61	92	79	27
Plastic Limit	NP	NP	21	28	25	15
Plasticity Index	NP	NP	40	64	54	12
USCS	SP-SM	ML	CH	CH	CH	SC
AASHTO	A-3(0)	A-4(0)	A-7-6(43)	A-7-6(74)	A-7-6(54)	A-6(1)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-80	BW-80	BW-80	BW-80	BW-80	BW-80
Station	804+32.5	804+32.5	804+32.5	804+32.5	804+32.5	804+32.5
Offset	RT 03.8	RT 03.8	RT 03.8	RT 03.8	RT 03.8	RT 03.8
Sample ID	T-3	SS-14	SS-16	SS-18	SS-19	SS-20
Depth (ft)	53.5	63.5	73.5	83.5	88.5	93.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	93.7	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	86.6	100.0	
#4 SIEVE (4.75mm)	100.0	100.0	99.9	81.1	87.7	
#10 SIEVE (2.00mm)	100.0	100.0	98.9	73.7	64.5	
#20 SIEVE (0.85mm)	100.0	99.9	93.9	61.5	33.0	
#40" SIEVE (425um)	99.5	99.7	75.4	34.4	11.5	
#60 SIEVE (250um)	98.7	70.1	14.8	8.9	5.3	
#100 SIEVE (150um)	97.6	30.2	4.9	4.1	2.8	
#140 SIEVE (106um)	97.2	17.9	4.0	3.2	2.1	
#200 SIEVE (75um)	96.7	11.1	3.3	2.7	1.7	92.1
Clay	60.4					
Silt	36.3					
Total Sand	3.3	88.9	96.5	78.4	86.0	
Total Gravel	0.0	0.0	0.1	18.9	12.3	
ATTERBERG LIMITS						
Liquid Limit	67	NP	NP	NP	NP	56
Plastic Limit	22	NP	NP	NP	NP	17
Plasticity Index	45	NP	NP	NP	NP	39
USCS	CH	SP-SM	SP	SP	SP	CH
AASHTO	A-7-6(49)	A-2-4(0)	A-3(0)	A-1-b(0)	A-1-b(0)	A-7-6(38)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-80	BW-80	BW-80	BW-86	BW-86	BW-86
Station	804+32.5	804+32.5	804+32.5	822+32.4	822+32.4	822+32.4
Offset	RT 03.8	RT 03.8	RT 03.8	LT 01.2	LT 01.2	LT 01.2
Sample ID	SS-22	SS-23	SS-25	SS-4	SS-7	T-1
Depth (ft)	103.5	108.5	118.5	4.5	13.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0		100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0		100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0		100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0		100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0		100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0		100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0		100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0		100.0	100.0	99.0
#4 SIEVE (4.75mm)	100.0	100.0		100.0	97.7	98.8
#10 SIEVE (2.00mm)	99.9	100.0		99.2	95.3	98.6
#20 SIEVE (0.85mm)	99.5	99.8		95.9	93.2	98.3
#40" SIEVE (425um)	98.7	99.1		87.2	91.9	98.0
#60 SIEVE (250um)	94.3	84.0		81.8	90.9	97.6
#100 SIEVE (150um)	67.1	39.8		64.4	82.8	97.0
#140 SIEVE (106um)	52.7	31.6		49.2	59.1	95.8
#200 SIEVE (75um)	43.2	26.2	87.1	37.4	35.9	90.0
Clay						25.2
Silt						64.8
Total Sand	56.8	73.8		62.6	61.8	8.8
Total Gravel	0.0	0.0		0.0	2.3	1.2
ATTERBERG LIMITS						
Liquid Limit	37	NP	49	NP	NP	38
Plastic Limit	16	NP	16	NP	NP	21
Plasticity Index	21	NP	33	NP	NP	17
USCS	SC	SM	CL	SM	SM	CL
AASHTO	A-6(5)	A-2-4(0)	A-7-6(29)	A-4(0)	A-4(0)	A-6(16)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-86	BW-86	BW-86	BW-86	BW-86	BW-86
Station	822+32.4	822+32.4	822+32.4	822+32.4	822+32.4	822+32.4
Offset	LT 01.2	LT 01.2	LT 01.2	LT 01.2	LT 01.2	LT 01.2
Sample ID	T-2	T-4	T-5	SS-13	SS-15	SS-19
Depth (ft)	33.5	48.5	58.5	63.5	78.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	99.4
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.9	100.0	95.7
#20 SIEVE (0.85mm)	99.9	99.9	99.9	99.7	99.3	88.6
#40" SIEVE (425um)	99.7	99.7	99.2	96.2	85.2	69.7
#60 SIEVE (250um)	99.4	99.5	97.3	75.4	35.1	29.8
#100 SIEVE (150um)	98.5	99.2	95.0	47.1	10.0	10.8
#140 SIEVE (106um)	97.1	98.4	91.3	32.9	8.0	8.3
#200 SIEVE (75um)	93.5	94.1	84.9	26.1	7.2	7.0
Clay		47.2				
Silt		46.9				
Total Sand	6.5	5.9	15.1	73.9	92.8	92.5
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.6
ATTERBERG LIMITS						
Liquid Limit	68	61	38	NP	NP	NP
Plastic Limit	24	24	18	NP	NP	NP
Plasticity Index	44	37	20	NP	NP	NP
USCS	CH	CH	CL	SM	SP-SM	SP-SM
AASHTO	A-7-6(46)	A-7-6(39)	A-6(17)	A-2-4(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-86	BW-86	BW-87	BW-87	BW-87	BW-87
Station	822+32.4	822+32.4	825+32.5	825+32.5	825+32.5	825+32.5
Offset	LT 01.2	LT 01.2	LT 01.6	LT 01.6	LT 01.6	LT 01.6
Sample ID	SS-20	SS-21	SS-3	SS-8	T-1	SS-12
Depth (ft)	103.5	108.5	3.0	18.5	28.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)		100.0	100.0	99.8	100.0	
#10 SIEVE (2.00mm)		100.0	99.0	99.2	100.0	
#20 SIEVE (0.85mm)		99.9	97.9	99.0	99.9	
#40" SIEVE (425um)		99.7	96.8	98.6	99.8	
#60 SIEVE (250um)		99.0	95.9	98.2	99.7	
#100 SIEVE (150um)		94.9	92.5	97.1	99.4	
#140 SIEVE (106um)		87.7	88.0	92.8	98.1	
#200 SIEVE (75um)	69.4	78.6	79.1	79.4	97.0	93.0
Clay					52.9	
Silt					44.0	
Total Sand		21.4	20.9	20.4	3.0	
Total Gravel		0.0	0.0	0.2	0.0	
ATTERBERG LIMITS						
Liquid Limit	36	33	NP	NP	71	45
Plastic Limit	14	13	NP	NP	26	18
Plasticity Index	22	20	NP	NP	45	27
USCS	CL	CL	ML	ML	CH	CL
AASHTO	A-6(13)	A-6(14)	A-4(0)	A-4(0)	A-7-6(51)	A-7-6(26)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-87	BW-87	BW-87	BW-87	BW-87	BW-87
Station	825+32.5	825+32.5	825+32.5	825+32.5	825+32.5	825+32.5
Offset	LT 01.6	LT 01.6	LT 01.6	LT 01.6	LT 01.6	LT 01.6
Sample ID	SS-13	SS-15	SS-17	SS-19	SS-21	SS-23
Depth (ft)	53.5	68.5	78.5	88.5	98.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0			
2 1/2" SIEVE (63mm)	100.0	100.0	100.0			
2" SIEVE (50mm)	100.0	100.0	100.0			
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0			
1" SIEVE (25mm)	100.0	100.0	100.0			
3/4" SIEVE (19mm)	100.0	100.0	100.0			
1/2" SIEVE (12.5mm)	100.0	100.0	100.0			
3/8" SIEVE (9.5mm)	100.0	100.0	93.7			
#4 SIEVE (4.75mm)	100.0	99.6	85.6			
#10 SIEVE (2.00mm)	100.0	97.7	79.0			
#20 SIEVE (0.85mm)	99.9	87.2	62.6			
#40" SIEVE (425um)	99.8	59.3	33.9			
#60 SIEVE (250um)	99.6	42.3	15.6			
#100 SIEVE (150um)	99.2	38.3	11.4			
#140 SIEVE (106um)	98.8	36.9	10.7			
#200 SIEVE (75um)	97.0	34.6	10.2	3.8	71.4	93.7
Clay						
Silt						
Total Sand	3.0	65.0	75.5			
Total Gravel	0.0	0.4	14.4			
ATTERBERG LIMITS						
Liquid Limit	57	NP	NP	NP	41	57
Plastic Limit	18	NP	NP	NP	17	21
Plasticity Index	39	NP	NP	NP	24	36
USCS	CH	SM	SW-SM		CL	CH
AASHTO	A-7-6(41)	A-2-4(0)	A-1-b(0)	A-3(0)	A-7-6(15)	A-7-6(37)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-88	BW-88	BW-88	BW-88	BW-88	BW-88
Station	828+36.7	828+36.7	828+36.7	828+36.7	828+36.7	828+36.7
Offset	RT 22.6	RT 22.6	RT 22.6	RT 22.6	RT 22.6	RT 22.6
Sample ID	SS-5	SS-8	T-1	T-3	SS-16	SS-19
Depth (ft)	6.0	18.5	23.5	43.5	78.5	93.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.7	
#10 SIEVE (2.00mm)	99.9	100.0	100.0	100.0	97.9	
#20 SIEVE (0.85mm)	99.5	99.8	100.0	99.8	96.5	
#40" SIEVE (425um)	98.5	99.6	99.9	97.5	86.6	
#60 SIEVE (250um)	87.0	99.2	99.7	91.3	28.3	
#100 SIEVE (150um)	62.3	98.2	99.6	87.3	11.7	
#140 SIEVE (106um)	47.4	95.3	99.3	86.3	9.6	
#200 SIEVE (75um)	30.7	82.6	98.4	85.2	8.3	23.8
Clay			48.1			
Silt			50.4			
Total Sand	69.3	17.4	1.6	14.8	91.4	
Total Gravel	0.0	0.0	0.0	0.0	0.3	
ATTERBERG LIMITS						
Liquid Limit	NP	32	74	72	NP	NP
Plastic Limit	NP	23	27	21	NP	NP
Plasticity Index	NP	9	47	51	NP	NP
USCS	SM	CL	CH	CH	SP-SM	SM
AASHTO	A-2-4(0)	A-4(7)	A-7-6(54)	A-7-6(47)	A-3(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-88	BW-88	BW-88	BW-88	BW-89	BW-89
Station	828+36.7	828+36.7	828+36.7	828+36.7	831+34.9	831+34.9
Offset	RT 22.6	RT 22.6	RT 22.6	RT 22.6	LT 08.6	LT 08.6
Sample ID	SS-21	SS-24	SS-25	SS-30	SS-2	SS-7
Depth (ft)	103.5	118.5	123.5	148.5	1.5	13.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0		100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0		100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0		100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0		100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0		99.5
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0		98.9
#20 SIEVE (0.85mm)	100.0	99.9	99.8	100.0		98.4
#40" SIEVE (425um)	99.7	99.5	98.6	96.5		97.8
#60 SIEVE (250um)	98.8	98.9	97.2	50.3		97.2
#100 SIEVE (150um)	70.9	97.8	95.9	14.3		94.1
#140 SIEVE (106um)	28.2	91.7	91.5	9.8		79.2
#200 SIEVE (75um)	15.4	75.7	83.0	7.8	74.7	38.1
Clay						
Silt						
Total Sand	84.6	24.3	17.0	92.2		61.4
Total Gravel	0.0	0.0	0.0	0.0		0.5
ATTERBERG LIMITS						
Liquid Limit	NP	43	41	NP	105	NP
Plastic Limit	NP	14	13	NP	27	NP
Plasticity Index	NP	29	28	NP	78	NP
USCS	SM	CL	CL	SP-SM	CH	SM
AASHTO	A-2-4(0)	A-7-6(20)	A-7-6(22)	A-3(0)	A-7-6(62)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-89	BW-89	BW-89	BW-89	BW-89	BW-89
Station	831+34.9	831+34.9	831+34.9	831+34.9	831+34.9	831+34.9
Offset	LT 08.6	LT 08.6	LT 08.6	LT 08.6	LT 08.6	LT 08.6
Sample ID	T-1	T-4	SS-11	SS-14	SS-18	SS-22
Depth (ft)	18.5	43.5	58.5	73.5	93.5	113.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0		100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0		100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0		100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0		100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0		99.2	99.2	100.0	100.0
#20 SIEVE (0.85mm)	99.7		96.1	83.4	100.0	99.6
#40" SIEVE (425um)	99.3		85.8	58.9	99.9	99.0
#60 SIEVE (250um)	98.8		59.8	39.3	99.7	98.4
#100 SIEVE (150um)	95.6		33.8	15.5	99.1	87.2
#140 SIEVE (106um)	87.0		29.9	9.5	98.2	56.5
#200 SIEVE (75um)	69.3	88.1	28.1	6.9	96.3	42.8
Clay						
Silt						
Total Sand	30.7		71.9	93.1	3.7	57.2
Total Gravel	0.0		0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	61	38	NP	56	24
Plastic Limit	NP	20	18	NP	17	13
Plasticity Index	NP	41	20	NP	39	11
USCS	ML	CH	SC	SP-SM	CH	SC
AASHTO	A-4(0)	A-7-6(39)	A-2-6(1)	A-3(0)	A-7-6(41)	A-6(1)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-90	BW-90	BW-90	BW-90	BW-90	BW-90
Station	834+30.9	834+30.9	834+30.9	834+30.9	834+30.9	834+30.9
Offset	RT 09.9	RT 09.9	RT 09.9	RT 09.9	RT 09.9	RT 09.9
Sample ID	SS-1	SS-6	SS-8	SS-11	SS-16	SS-18
Depth (ft)	0.0	8.5	28.5	43.5	68.5	78.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	93.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	88.5	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	97.7	77.6	99.6
#10 SIEVE (2.00mm)	100.0	100.0	99.7	92.1	64.8	99.4
#20 SIEVE (0.85mm)	98.8	99.8	97.3	84.0	56.4	99.3
#40" SIEVE (425um)	97.9	99.5	86.5	55.3	42.3	99.1
#60 SIEVE (250um)	96.8	99.2	69.8	25.4	27.5	96.2
#100 SIEVE (150um)	94.0	96.9	48.8	8.4	7.9	30.0
#140 SIEVE (106um)	92.6	91.3	45.0	5.4	4.7	26.8
#200 SIEVE (75um)	88.9	77.7	43.2	4.1	3.4	25.4
Clay	45.8	13.8	20.1	1.0		
Silt	43.1	63.9	23.0	3.1		
Total Sand	11.1	22.3	56.8	93.5	74.2	74.2
Total Gravel	0.0	0.0	0.0	2.3	22.4	0.4
ATTERBERG LIMITS						
Liquid Limit	102	NP	28	NP	NP	NP
Plastic Limit	33	NP	13	NP	NP	NP
Plasticity Index	69	NP	15	NP	NP	NP
USCS	CH	ML	SC	SP	SP	SM
AASHTO	A-7-5(71)	A-4(0)	A-6(3)	A-3(0)	A-1-b(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-90	BW-90	BW-90	BW-90	BW-91	BW-91
Station	834+30.9	834+30.9	834+30.9	834+30.9	837+17.1	837+17.1
Offset	RT 09.9	RT 09.9	RT 09.9	RT 09.9	LT 06.5	LT 06.5
Sample ID	SS-19	SS-21	SS-24	SS-26	SS-3	SS-8
Depth (ft)	83.5	93.5	108.5	118.5	3.0	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0			100.0	100.0	
2 1/2" SIEVE (63mm)	100.0			100.0	100.0	
2" SIEVE (50mm)	100.0			100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0			100.0	100.0	
1" SIEVE (25mm)	100.0			100.0	100.0	
3/4" SIEVE (19mm)	100.0			100.0	100.0	
1/2" SIEVE (12.5mm)	100.0			100.0	100.0	
3/8" SIEVE (9.5mm)	100.0			100.0	98.3	
#4 SIEVE (4.75mm)	100.0			100.0	98.0	
#10 SIEVE (2.00mm)	99.9			99.9	97.3	
#20 SIEVE (0.85mm)	99.8			99.8	97.0	
#40" SIEVE (425um)	99.7			99.5	96.4	
#60 SIEVE (250um)	99.4			97.9	94.3	
#100 SIEVE (150um)	97.4			94.0	66.4	
#140 SIEVE (106um)	93.1			83.7	38.3	
#200 SIEVE (75um)	84.6	46.8	89.9	58.9	23.7	92.1
Clay						
Silt						
Total Sand	15.4			41.1	74.3	
Total Gravel	0.0			0.0	2.0	
ATTERBERG LIMITS						
Liquid Limit	54	30	54	29	NP	73
Plastic Limit	17	14	17	15	NP	24
Plasticity Index	37	16	37	14	NP	49
USCS	CH	SC	CH	CL	SM	CH
AASHTO	A-7-6(32)	A-6(4)	A-7-6(35)	A-6(5)	A-2-4(0)	A-7-6(51)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-91	BW-91	BW-91	BW-91	BW-91	BW-92
Station	837+17.1	837+17.1	837+17.1	837+17.1	837+17.1	840+33.2
Offset	LT 06.5	LT 06.5	LT 06.5	LT 06.5	LT 06.5	RT 02.5
Sample ID	T-2	SS-14	SS-17	SS-21	SS-25	SS-4
Depth (ft)	38.5	58.5	73.5	93.5	113.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0			100.0
2 1/2" SIEVE (63mm)		100.0	100.0			100.0
2" SIEVE (50mm)		100.0	100.0			100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0			100.0
1" SIEVE (25mm)		100.0	100.0			100.0
3/4" SIEVE (19mm)		100.0	100.0			100.0
1/2" SIEVE (12.5mm)		100.0	89.3			100.0
3/8" SIEVE (9.5mm)		100.0	89.3			100.0
#4 SIEVE (4.75mm)		99.3	84.9			100.0
#10 SIEVE (2.00mm)		97.5	82.7			99.9
#20 SIEVE (0.85mm)		93.0	81.4			99.3
#40" SIEVE (425um)		70.9	80.4			93.1
#60 SIEVE (250um)		20.1	69.4			78.9
#100 SIEVE (150um)		6.9	21.3			31.7
#140 SIEVE (106um)		5.1	15.6			11.1
#200 SIEVE (75um)	89.8	4.1	14.4	52.1	74.3	6.0
Clay						2.2
Silt						3.8
Total Sand		95.2	70.5			94.0
Total Gravel		0.7	15.1			0.0
ATTERBERG LIMITS						
Liquid Limit	56	NP	NP	35	37	NP
Plastic Limit	19	NP	NP	20	17	NP
Plasticity Index	37	NP	NP	15	20	NP
USCS	CH	SP	SM	CL	CL	SP-SM
AASHTO	A-7-6(36)	A-3(0)	A-2-4(0)	A-6(5)	A-6(13)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-92	BW-92	BW-92	BW-92	BW-92	BW-92
Station	840+33.2	840+33.2	840+33.2	840+33.2	840+33.2	840+33.2
Offset	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5	RT 02.5
Sample ID	SS-7	SS-9	SS-11	T-4	T-6	SS-21
Depth (ft)	13.5	28.5	43.5	73.5	90.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	97.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	91.4	100.0	100.0
#4 SIEVE (4.75mm)	99.8	100.0	99.9	88.8	100.0	100.0
#10 SIEVE (2.00mm)	99.7	100.0	99.6	88.3	99.4	100.0
#20 SIEVE (0.85mm)	99.3	99.8	98.0	87.9	99.1	99.2
#40" SIEVE (425um)	98.9	99.1	89.3	85.0	98.2	98.8
#60 SIEVE (250um)	98.2	97.2	58.9	46.7	86.3	93.8
#100 SIEVE (150um)	96.3	92.5	15.5	26.2	78.5	43.9
#140 SIEVE (106um)	92.9	89.5	10.2	20.5	71.4	27.3
#200 SIEVE (75um)	81.5	84.4	8.3	17.5	61.6	20.2
Clay	14.3	37.2				
Silt	67.1	47.2				
Total Sand	18.3	15.6	91.6	71.4	38.4	79.8
Total Gravel	0.2	0.0	0.1	11.2	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	32	51	NP	61	59	24
Plastic Limit	19	23	NP	26	21	17
Plasticity Index	13	28	NP	35	38	7
USCS	CL	CH	SP-SM	SC	CH	SC-SM
AASHTO	A-6(9)	A-7-6(25)	A-3(0)	A-2-7(1)	A-7-6(21)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-92	BW-93	BW-93	BW-93	BW-93	BW-93
Station	840+33.2	843+28.3	843+28.3	843+28.3	843+28.3	843+28.3
Offset	RT 02.5	RT 06.2	RT 06.2	RT 06.2	RT 06.2	RT 06.2
Sample ID	SS-23	SS-5	SS-8	T-2	SS-12	SS-17
Depth (ft)	108.5	6.0	18.5	28.5	48.5	73.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	94.4	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	89.6	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	71.3	100.0	99.0	94.1
#10 SIEVE (2.00mm)		100.0	46.7	100.0	97.6	91.7
#20 SIEVE (0.85mm)		99.8	32.7	100.0	97.2	88.6
#40" SIEVE (425um)		94.4	26.7	98.0	94.4	65.1
#60 SIEVE (250um)		72.8	23.8	93.1	42.7	28.4
#100 SIEVE (150um)		42.3	21.1	91.8	9.0	12.9
#140 SIEVE (106um)		31.2	19.9	91.4	6.2	6.6
#200 SIEVE (75um)	69.3	23.7	19.2	90.9	5.1	4.4
Clay						
Silt						
Total Sand		76.3	52.2	9.1	93.9	89.8
Total Gravel		0.0	28.7	0.0	1.0	5.9
ATTERBERG LIMITS						
Liquid Limit	28	NP	NP	76	NP	NP
Plastic Limit	14	NP	NP	33	NP	NP
Plasticity Index	14	NP	NP	43	NP	NP
USCS	CL	SM	SM	CH	SP-SM	SP
AASHTO	A-6(7)	A-2-4(0)	A-1-b(0)	A-7-5(46)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-93	BW-93	BW-93	BW-94	BW-94	BW-94
Station	843+28.3	843+28.3	843+28.3	846+35.5	846+35.5	846+35.5
Offset	RT 06.2	RT 06.2	RT 06.2	LT 04.9	LT 04.9	LT 04.9
Sample ID	SS-19	SS-22	SS-30	SS-5	SS-8	SS-9
Depth (ft)	88.5	103.5	143.5	6.0	18.5	28.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	99.4	
#4 SIEVE (4.75mm)	100.0	100.0	99.6	100.0	97.6	
#10 SIEVE (2.00mm)	100.0	100.0	99.5	99.6	97.4	
#20 SIEVE (0.85mm)	99.8	99.9	99.4	97.7	96.0	
#40" SIEVE (425um)	99.5	98.6	95.1	88.4	94.8	
#60 SIEVE (250um)	98.0	75.5	36.9	63.3	92.8	
#100 SIEVE (150um)	92.1	20.9	14.4	31.6	88.1	
#140 SIEVE (106um)	89.2	11.8	10.0	16.0	86.1	
#200 SIEVE (75um)	86.7	9.4	7.6	11.8	84.5	53.5
Clay						
Silt						
Total Sand	13.3	90.6	92.0	88.2	13.1	
Total Gravel	0.0	0.0	0.4	0.0	2.4	
ATTERBERG LIMITS						
Liquid Limit	53	NP	NP	NP	62	35
Plastic Limit	21	NP	NP	NP	25	16
Plasticity Index	32	NP	NP	NP	37	19
USCS	CH	SP-SM	SP-SM	SP-SM	CH	CL
AASHTO	A-7-6(30)	A-3(0)	A-3(0)	A-2-4(0)	A-7-6(34)	A-6(7)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-94	BW-94	BW-94	BW-94	BW-94	BW-94
Station	846+35.5	846+35.5	846+35.5	846+35.5	846+35.5	846+35.5
Offset	LT 04.9	LT 04.9	LT 04.9	LT 04.9	LT 04.9	LT 04.9
Sample ID	SS-11	SS-16	SS-19	ST-3	SS-22	SS-26
Depth (ft)	38.5	63.5	78.5	90.5	93.5	113.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0		100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0		100.0
2" SIEVE (50mm)	100.0		100.0	100.0		100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0		100.0
1" SIEVE (25mm)	100.0		100.0	100.0		100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0		100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0		100.0
3/8" SIEVE (9.5mm)	100.0		100.0	100.0		100.0
#4 SIEVE (4.75mm)	100.0		100.0	100.0		100.0
#10 SIEVE (2.00mm)	100.0		99.9	100.0		100.0
#20 SIEVE (0.85mm)	99.9		99.6	99.9		100.0
#40" SIEVE (425um)	99.7		99.1	99.6		97.7
#60 SIEVE (250um)	92.7		89.6	99.3		52.8
#100 SIEVE (150um)	41.4		23.3	98.9		28.8
#140 SIEVE (106um)	11.7		10.1	98.1		22.8
#200 SIEVE (75um)	4.9	41.6	7.3	96.5	42.9	18.2
Clay						
Silt						
Total Sand	95.1		92.7	3.5		81.8
Total Gravel	0.0		0.0	0.0		0.0
ATTERBERG LIMITS						
Liquid Limit	NP	36	NP	67	28	NP
Plastic Limit	NP	18	NP	28	19	NP
Plasticity Index	NP	18	NP	39	9	NP
USCS	SP	SC	SP-SM	CH	SC	SM
AASHTO	A-3(0)	A-6(3)	A-3(0)	A-7-6(44)	A-4(1)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-95	BW-95	BW-95	BW-95	BW-95	BW-95
Station	849+45.7	849+45.7	849+45.7	849+45.7	849+45.7	849+45.7
Offset	RT 05.9	RT 05.9	RT 05.9	RT 05.9	RT 05.9	RT 05.9
Sample ID	SS-3	SS-7	T-3	SS-14	SS-19	SS-21
Depth (ft)	3.0	13.5	28.5	53.5	78.5	88.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	93.8	100.0	
#4 SIEVE (4.75mm)	100.0	100.0	100.0	84.7	100.0	
#10 SIEVE (2.00mm)	100.0	100.0	100.0	78.6	99.9	
#20 SIEVE (0.85mm)	99.6	99.9	99.8	70.1	98.7	
#40" SIEVE (425um)	91.7	99.4	97.7	50.4	96.6	
#60 SIEVE (250um)	51.6	96.6	76.0	22.7	78.5	
#100 SIEVE (150um)	23.4	92.1	40.4	7.8	27.4	
#140 SIEVE (106um)	18.6	90.8	32.0	5.3	21.5	
#200 SIEVE (75um)	16.6	88.1	29.5	4.0	18.4	44.9
Clay	6.4	31.6	16.1			
Silt	10.2	56.5	13.4			
Total Sand	83.4	11.9	70.5	80.7	81.6	
Total Gravel	0.0	0.0	0.0	15.3	0.0	
ATTERBERG LIMITS						
Liquid Limit	NP	52	26	NP	NP	33
Plastic Limit	NP	22	11	NP	NP	16
Plasticity Index	NP	30	15	NP	NP	17
USCS	SM	CH	SC	SP	SM	SC
AASHTO	A-2-4(0)	A-7-6(28)	A-2-6(1)	A-1-b(0)	A-2-4(0)	A-6(4)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-95	BW-95	BW-96	BW-96	BW-96	BW-96
Station	849+45.7	849+45.7	850+93.6	850+93.6	850+93.6	850+93.6
Offset	RT 05.9	RT 05.9	RT 36.5	RT 36.5	RT 36.5	RT 36.5
Sample ID	SS-23	SS-26	SS-2	SS-5	T-2	SS-15
Depth (ft)	98.5	113.5	1.5	6.0	28.5	58.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	94.7
#10 SIEVE (2.00mm)		100.0	100.0	100.0	99.9	82.4
#20 SIEVE (0.85mm)		99.8	99.5	99.7	99.9	68.4
#40" SIEVE (425um)		99.6	93.1	97.1	99.2	34.2
#60 SIEVE (250um)		97.6	67.4	83.0	85.3	11.3
#100 SIEVE (150um)		90.0	26.5	26.9	67.7	4.5
#140 SIEVE (106um)		73.4	19.4	13.8	64.3	3.2
#200 SIEVE (75um)	35.9	55.7	16.5	10.4	62.4	2.6
Clay					55.9	
Silt					6.5	
Total Sand		44.3	83.5	89.6	37.6	92.1
Total Gravel		0.0	0.0	0.0	0.0	5.3
ATTERBERG LIMITS						
Liquid Limit	27	29	NP	NP	47	NP
Plastic Limit	16	18	NP	NP	21	NP
Plasticity Index	11	11	NP	NP	26	NP
USCS	SC	CL	SM	SP-SM	CL	SP
AASHTO	A-6(0)	A-6(3)	A-2-4(0)	A-3(0)	A-7-6(14)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-96	BW-96	BW-96	BW-97	BW-97	BW-97
Station	850+93.6	850+93.6	850+93.6	855+28.8	855+28.8	855+28.8
Offset	RT 36.5	RT 36.5	RT 36.5	CL	CL	CL
Sample ID	SS-22	SS-24	SS-26	SS-2	SS-6	SS-7
Depth (ft)	93.5	103.5	113.5	1.5	8.5	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	
#10 SIEVE (2.00mm)		100.0	100.0	99.8	99.9	
#20 SIEVE (0.85mm)		99.8	100.0	99.3	99.6	
#40" SIEVE (425um)		99.3	99.4	94.1	96.0	
#60 SIEVE (250um)		98.9	89.5	73.6	82.0	
#100 SIEVE (150um)		97.2	80.4	41.2	26.4	
#140 SIEVE (106um)		82.4	68.1	28.0	8.0	
#200 SIEVE (75um)	93.0	55.1	56.7	21.5	4.1	73.5
Clay						
Silt						
Total Sand		44.9	43.3	78.5	95.9	
Total Gravel		0.0	0.0	0.0	0.0	
ATTERBERG LIMITS						
Liquid Limit	61	NP	31	NP	NP	69
Plastic Limit	20	NP	12	NP	NP	20
Plasticity Index	41	NP	19	NP	NP	49
USCS	CH	ML	CL	SM	SP	CH
AASHTO	A-7-6(42)	A-4(0)	A-6(7)	A-2-4(0)	A-3(0)	A-7-6(36)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-97	BW-97	BW-97	BW-97	BW-98	BW-98
Station	855+28.8	855+28.8	855+28.8	855+28.8	858+31.0	858+31.0
Offset	CL	CL	CL	CL	LT 05.8	LT 05.8
Sample ID	SS-14	T-3	SS-23	SS-26	SS-1	SS-3
Depth (ft)	58.5	75.5	103.5	118.5	0.0	3.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	94.2	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	87.2	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	84.9	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	73.6	100.0	99.6	96.8	100.0	100.0
#10 SIEVE (2.00mm)	69.8	100.0	99.6	96.7	99.9	100.0
#20 SIEVE (0.85mm)	62.7	99.5	99.2	96.5	98.9	99.6
#40" SIEVE (425um)	27.0	99.0	98.2	93.9	94.5	93.8
#60 SIEVE (250um)	8.7	98.5	92.5	52.7	74.7	61.9
#100 SIEVE (150um)	5.2	96.3	70.0	23.5	49.0	30.8
#140 SIEVE (106um)	4.1	93.5	55.4	20.0	42.4	22.9
#200 SIEVE (75um)	3.5	90.1	45.8	17.6	38.1	19.5
Clay						
Silt						
Total Sand	70.0	9.9	53.8	79.2	61.9	80.5
Total Gravel	26.4	0.0	0.4	3.2	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	36	35	NP	NP	NP
Plastic Limit	NP	13	16	NP	NP	NP
Plasticity Index	NP	23	19	NP	NP	NP
USCS	SP	CL	SC	SM	SM	SM
AASHTO	A-1-b(0)	A-6(20)	A-6(5)	A-2-4(0)	A-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-98	BW-98	BW-98	BW-98	BW-98	BW-98
Station	858+31.0	858+31.0	858+31.0	858+31.0	858+31.0	858+31.0
Offset	LT 05.8	LT 05.8	LT 05.8	LT 05.8	LT 05.8	LT 05.8
Sample ID	SS-5	T-1	SS-8	SS-10	SS-12	SS-15
Depth (ft)	6.0	18.5	23.5	38.5	48.5	63.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.6	100.0	100.0	100.0	97.0	94.6
#10 SIEVE (2.00mm)	99.5	100.0	100.0	100.0	90.5	94.1
#20 SIEVE (0.85mm)	99.1	99.7	99.3	99.9	79.2	93.8
#40" SIEVE (425um)	93.3	98.1	94.9	99.7	55.6	93.4
#60 SIEVE (250um)	58.7	93.8	82.7	99.2	24.4	92.8
#100 SIEVE (150um)	21.0	87.9	62.8	97.0	8.2	91.5
#140 SIEVE (106um)	13.0	83.0	50.8	89.6	6.0	89.8
#200 SIEVE (75um)	10.2	78.8	42.7	69.2	4.8	82.2
Clay		48.6				
Silt		30.2				
Total Sand	89.4	21.2	57.3	30.8	92.2	12.4
Total Gravel	0.4	0.0	0.0	0.0	3.0	5.4
ATTERBERG LIMITS						
Liquid Limit	NP	67	30	NP	NP	29
Plastic Limit	NP	21	13	NP	NP	18
Plasticity Index	NP	46	17	NP	NP	11
USCS	SP-SM	CH	SC	ML	SP	CL
AASHTO	A-3(0)	A-7-6(38)	A-6(3)	A-4(0)	A-3(0)	A-6(7)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-98	BW-98	BW-98	BW-98	BW-99	BW-99
Station	858+31.0	858+31.0	858+31.0	858+31.0	861+38.2	861+38.2
Offset	LT 05.8	LT 05.8	LT 05.8	LT 05.8	LT 05.6	LT 05.6
Sample ID	SS-18	SS-23	SS-27	SS-30	SS-2	SS-4
Depth (ft)	78.5	103.5	123.5	138.5	1.5	4.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.9	100.0	99.9	99.7	100.0
#20 SIEVE (0.85mm)	98.0	99.5	99.9	99.5	99.1	99.7
#40" SIEVE (425um)	97.0	98.8	97.4	90.0	92.4	95.1
#60 SIEVE (250um)	96.2	97.6	72.2	33.7	63.4	74.0
#100 SIEVE (150um)	76.1	95.8	15.7	12.7	35.4	34.0
#140 SIEVE (106um)	51.8	93.2	10.1	9.5	29.0	18.9
#200 SIEVE (75um)	42.4	89.3	8.1	7.7	24.9	13.8
Clay						
Silt						
Total Sand	57.6	10.7	91.9	92.3	75.1	86.2
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	44	NP	NP	NP	NP
Plastic Limit	NP	18	NP	NP	NP	NP
Plasticity Index	NP	26	NP	NP	NP	NP
USCS	SM	CL	SP-SM	SP-SM	SM	SM
AASHTO	A-4(0)	A-7-6(24)	A-3(0)	A-3(0)	A-2-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-99	BW-99	BW-99	BW-99	BW-99	BW-99
Station	861+38.2	861+38.2	861+38.2	861+38.2	861+38.2	861+38.2
Offset	LT 05.6	LT 05.6	LT 05.6	LT 05.6	LT 05.6	LT 05.6
Sample ID	SS-5	SS-6	T-1	SS-9	SS-11	SS-15
Depth (ft)	6.0	8.5	23.5	28.5	43.5	63.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.9	100.0
#10 SIEVE (2.00mm)	100.0	99.9	100.0	99.6	99.6	99.8
#20 SIEVE (0.85mm)	99.6	99.8	99.7	99.4	98.4	99.6
#40" SIEVE (425um)	95.4	97.4	96.8	99.1	90.8	99.3
#60 SIEVE (250um)	78.1	79.7	85.9	97.6	54.2	88.2
#100 SIEVE (150um)	34.7	29.8	66.5	95.0	15.1	57.2
#140 SIEVE (106um)	16.7	15.7	57.2	93.3	7.6	50.4
#200 SIEVE (75um)	11.1	11.1	48.2	91.1	5.3	43.1
Clay			21.0			
Silt			27.3			
Total Sand	88.9	88.9	51.8	8.9	94.7	56.9
Total Gravel	0.0	0.0	0.0	0.0	0.1	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	33	76	NP	23
Plastic Limit	NP	NP	14	21	NP	13
Plasticity Index	NP	NP	19	55	NP	10
USCS	SP-SM	SP-SM	SC	CH	SP-SM	SC
AASHTO	A-2-4(0)	A-2-4(0)	A-6(5)	A-7-6(55)	A-3(0)	A-4(1)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-99	BW-99	BW-99	BW-99	BW-100	BW-100
Station	861+38.2	861+38.2	861+38.2	861+38.2	864+33.2	864+33.2
Offset	LT 05.6	LT 05.6	LT 05.6	LT 05.6	LT 01.9	LT 01.9
Sample ID	SS-17	SS-21	SS-23	SS-26	SS-4	SS-6
Depth (ft)	73.5	93.5	103.5	118.5	4.5	8.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.7	100.0	99.2
#10 SIEVE (2.00mm)	99.7	99.5	100.0	99.6	99.9	98.4
#20 SIEVE (0.85mm)	99.3	98.5	98.4	99.4	99.2	97.7
#40" SIEVE (425um)	99.1	97.8	97.2	95.0	90.8	93.0
#60 SIEVE (250um)	98.6	96.2	96.1	47.0	53.1	84.5
#100 SIEVE (150um)	92.9	76.4	94.2	12.3	19.7	79.0
#140 SIEVE (106um)	68.4	57.3	92.6	9.0	15.7	76.3
#200 SIEVE (75um)	50.6	38.9	89.9	7.7	13.5	66.9
Clay						
Silt						
Total Sand	49.4	61.1	10.1	92.0	86.5	32.2
Total Gravel	0.0	0.0	0.0	0.3	0.0	0.8
ATTERBERG LIMITS						
Liquid Limit	NP	NP	53	NP	NP	25
Plastic Limit	NP	NP	22	NP	NP	21
Plasticity Index	NP	NP	31	NP	NP	4
USCS	ML	SM	CH	SP-SM	SM	CL-ML
AASHTO	A-4(0)	A-4(0)	A-7-6(30)	A-3(0)	A-2-4(0)	A-4(1)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-100	BW-100	BW-100	BW-100	BW-100	BW-100
Station	864+33.2	864+33.2	864+33.2	864+33.2	864+33.2	864+33.2
Offset	LT 01.9	LT 01.9	LT 01.9	LT 01.9	LT 01.9	LT 01.9
Sample ID	T-1	T-2	SS-12	SS-17	SS-18	SS-22
Depth (ft)	13.5	23.5	48.5	73.5	78.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0				100.0
2 1/2" SIEVE (63mm)	100.0	100.0				100.0
2" SIEVE (50mm)	100.0	100.0				100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0				100.0
1" SIEVE (25mm)	100.0	100.0				100.0
3/4" SIEVE (19mm)	100.0	100.0				100.0
1/2" SIEVE (12.5mm)	100.0	100.0				100.0
3/8" SIEVE (9.5mm)	100.0	100.0				100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.5	99.9	99.9	100.0
#10 SIEVE (2.00mm)	100.0	100.0	97.0	99.3	99.5	100.0
#20 SIEVE (0.85mm)	99.8	99.8	87.6	97.9	99.0	99.2
#40" SIEVE (425um)	99.1	98.4	61.5	96.6	98.5	91.2
#60 SIEVE (250um)	96.7	92.7	20.7	95.9	95.8	77.5
#100 SIEVE (150um)	93.8	81.1	6.1	69.3	26.2	73.1
#140 SIEVE (106um)	92.1	64.7	4.4	59.6	21.2	69.6
#200 SIEVE (75um)	84.0	47.0	3.5	55.7	19.4	65.1
Clay	22.9	23.9				
Silt	61.1	23.1				
Total Sand	16.0	53.0	96.0	44.1	80.5	34.9
Total Gravel	0.0	0.0				0.0
ATTERBERG LIMITS						
Liquid Limit	38	34	NP	23	NP	33
Plastic Limit	20	15	NP	13	NP	18
Plasticity Index	18	19	NP	10	NP	15
USCS	CL	SC	SP	CL	SM	CL
AASHTO	A-6(15)	A-6(5)	A-3(0)	A-4(2)	A-2-4(0)	A-6(7)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-100	BW-101	BW-101A	BW-101A	BW-101A	BW-101A
Station	864+33.2	867+22.3	867+34.4	867+34.4	867+34.4	867+34.4
Offset	LT 01.9	RT 03.4	CL	CL	CL	CL
Sample ID	SS-25	T-1	SS-8	T-2	SS-9	SS-12
Depth (ft)	113.5	15.5	18.5	20.5	23.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	99.5	100.0
#4 SIEVE (4.75mm)	100.0	97.7	99.7	100.0	98.8	97.2
#10 SIEVE (2.00mm)	100.0	92.0	99.6	100.0	98.5	93.1
#20 SIEVE (0.85mm)	99.9	88.1	99.1	99.9	97.9	88.1
#40" SIEVE (425um)	99.7	84.8	96.0	99.0	93.6	72.7
#60 SIEVE (250um)	99.4	80.0	87.3	95.7	82.1	24.1
#100 SIEVE (150um)	98.8	74.2	74.2	85.4	63.8	10.2
#140 SIEVE (106um)	98.4	68.9	64.3	79.3	50.9	6.8
#200 SIEVE (75um)	98.2	64.4	56.9	75.6	41.7	5.0
Clay		35.9		53.3		
Silt		28.5		22.3		
Total Sand	1.8	33.2	42.8	24.4	57.2	92.2
Total Gravel	0.0	2.3	0.3	0.0	1.2	2.8
ATTERBERG LIMITS						
Liquid Limit	52	58	48	51	27	NP
Plastic Limit	20	21	14	20	12	NP
Plasticity Index	32	37	34	31	15	NP
USCS	CH	CH	CL	CH	SC	SP
AASHTO	A-7-6(35)	A-7-6(22)	A-7-6(15)	A-7-6(23)	A-6(2)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-101A	BW-101A	BW-101A	BW-101A	BW-101A	BW-101A
Station	867+34.4	867+34.4	867+34.4	867+34.4	867+34.4	867+34.4
Offset	CL	CL	CL	CL	CL	CL
Sample ID	SS-19	T-4	SS-21	SS-25	SS-26	SS-27
Depth (ft)	78.5	83.5	93.5	113.5	118.5	123.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.9	99.5	100.0	100.0	99.9	100.0
#40" SIEVE (425um)	99.8	98.5	98.7	99.8	99.6	99.9
#60 SIEVE (250um)	99.4	96.1	60.9	99.2	99.0	99.7
#100 SIEVE (150um)	74.4	73.9	7.6	96.7	98.3	98.7
#140 SIEVE (106um)	62.4	69.7	5.4	92.8	97.6	90.1
#200 SIEVE (75um)	57.1	67.8	4.2	87.3	96.9	70.0
Clay		37.2				
Silt		30.6				
Total Sand	42.9	32.2	95.8	12.7	3.1	30.0
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	48	54	NP
Plastic Limit	NP	NP	NP	17	25	NP
Plasticity Index	NP	NP	NP	31	29	NP
USCS	ML	ML	SP	CL	CH	ML
AASHTO	A-4(0)	A-4(0)	A-3(0)	A-7-6(28)	A-7-6(32)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-102	BW-102	BW-102	BW-102	BW-102	BW-102
Station	870+26.4	870+26.4	870+26.4	870+26.4	870+26.4	870+26.4
Offset	RT 04.5	RT 04.5	RT 04.5	RT 04.5	RT 04.5	RT 04.5
Sample ID	SS-4	SS-5	T-1	T-2	T-3	SS-10
Depth (ft)	4.5	6.0	8.5	18.5	28.5	43.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.9	100.0	100.0
#10 SIEVE (2.00mm)	98.3	99.8	100.0	99.8	100.0	99.9
#20 SIEVE (0.85mm)	95.7	99.5	99.8	99.6	99.9	98.7
#40" SIEVE (425um)	83.6	98.7	99.4	98.4	99.8	93.3
#60 SIEVE (250um)	60.3	97.3	98.8	95.3	99.4	83.0
#100 SIEVE (150um)	52.2	95.4	97.1	90.9	98.6	28.8
#140 SIEVE (106um)	48.6	91.8	94.1	85.8	97.3	16.4
#200 SIEVE (75um)	39.3	78.3	83.1	80.9	95.2	11.1
Clay			22.3	43.7	68.5	
Silt			60.8	37.1	26.7	
Total Sand	60.7	21.7	16.9	19.0	4.8	88.9
Total Gravel	0.0	0.0	0.0	0.1	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	33	33	65	75	NP
Plastic Limit	NP	20	22	21	23	NP
Plasticity Index	NP	13	11	44	52	NP
USCS	SM	CL	CL	CH	CH	SP-SM
AASHTO	A-4(0)	A-6(9)	A-6(9)	A-7-6(37)	A-7-6(56)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-102	BW-102	BW-102	BW-102	BW-103	BW-103
Station	870+26.4	870+26.4	870+26.4	870+26.4	873+26.5	873+26.5
Offset	RT 04.5	RT 04.5	RT 04.5	RT 04.5	RT 03.0	RT 03.0
Sample ID	SS-15	SS-18	SS-21	SS-24	SS-4	SS-5
Depth (ft)	68.5	83.5	98.5	113.5	4.5	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	98.8	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	98.4	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	98.2	99.4	100.0	100.0	99.7	99.6
#20 SIEVE (0.85mm)	98.1	98.3	99.7	100.0	99.5	99.3
#40" SIEVE (425um)	95.8	94.9	98.7	99.9	98.8	98.8
#60 SIEVE (250um)	76.9	81.7	97.9	99.6	94.7	97.8
#100 SIEVE (150um)	52.2	19.5	96.6	99.0	88.5	95.2
#140 SIEVE (106um)	48.2	11.1	94.9	98.1	83.2	91.5
#200 SIEVE (75um)	46.1	9.2	92.3	97.1	68.8	78.9
Clay						
Silt						
Total Sand	52.4	90.8	7.7	2.9	31.2	21.1
Total Gravel	1.6	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	32	NP	40	57	NP	40
Plastic Limit	14	NP	16	24	NP	26
Plasticity Index	18	NP	24	33	NP	14
USCS	SC	SP-SM	CL	CH	ML	ML
AASHTO	A-6(4)	A-3(0)	A-6(22)	A-7-6(37)	A-4(0)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-103	BW-103	BW-103	BW-103	BW-103	BW-103
Station	873+26.5	873+26.5	873+26.5	873+26.5	873+26.5	873+26.5
Offset	RT 03.0	RT 03.0	RT 03.0	RT 03.0	RT 03.0	RT 03.0
Sample ID	T-1	T-2	SS-9	SS-14	T-4	SS-18
Depth (ft)	8.0	18.5	38.5	63.5	70.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.3	100.0	99.9
#20 SIEVE (0.85mm)	99.9	99.9	99.6	94.5	84.2	99.8
#40" SIEVE (425um)	99.7	98.4	96.5	71.6	61.6	45.0
#60 SIEVE (250um)	99.3	90.9	75.0	29.8	57.3	8.9
#100 SIEVE (150um)	98.4	78.5	23.7	11.5	51.1	5.2
#140 SIEVE (106um)	97.2	62.1	11.2	6.3	48.6	4.0
#200 SIEVE (75um)	90.7	49.3	7.1	4.2	46.8	3.2
Clay	24.2	27.0			25.4	
Silt	66.4	22.2			21.4	
Total Sand	9.3	50.7	92.9	95.8	53.2	96.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	33	33	NP	NP	58	NP
Plastic Limit	21	13	NP	NP	18	NP
Plasticity Index	12	20	NP	NP	40	NP
USCS	CL	SC	SP-SM	SP	SC	SP
AASHTO	A-6(11)	A-6(6)	A-3(0)	A-3(0)	A-7-6(13)	A-1-b(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-103	BW-103	BW-103	BW-103	BW-104	BW-104
Station	873+26.5	873+26.5	873+26.5	873+26.5	876+34.7	876+34.7
Offset	RT 03.0	RT 03.0	RT 03.0	RT 03.0	RT 06.7	RT 06.7
Sample ID	SS-23	SS-25	SS-28	SS-30	SS-3	T-1
Depth (ft)	113.5	123.5	138.5	148.5	3.0	8.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.8	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	99.4	100.0
#20 SIEVE (0.85mm)	99.9	99.9	99.8	99.8	98.8	99.7
#40" SIEVE (425um)	99.6	99.6	99.0	99.7	96.1	98.6
#60 SIEVE (250um)	98.6	95.7	96.5	99.5	88.3	95.7
#100 SIEVE (150um)	88.5	83.5	84.5	84.0	76.5	93.7
#140 SIEVE (106um)	74.6	77.1	74.3	45.2	71.4	92.2
#200 SIEVE (75um)	60.9	71.5	59.9	23.8	58.9	85.9
Clay						24.1
Silt						61.8
Total Sand	39.1	28.5	40.1	76.2	40.9	14.1
Total Gravel	0.0	0.0	0.0	0.0	0.2	0.0
ATTERBERG LIMITS						
Liquid Limit	39	44	26	NP	NP	NP
Plastic Limit	17	18	19	NP	NP	NP
Plasticity Index	22	26	7	NP	NP	NP
USCS	CL	CL	CL-ML	SM	ML	ML
AASHTO	A-6(11)	A-7-6(17)	A-4(2)	A-2-4(0)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-104	BW-104	BW-104	BW-104	BW-105	BW-105
Station	876+34.7	876+34.7	876+34.7	876+34.7	879+34.4	879+34.4
Offset	RT 06.7	RT 06.7	RT 06.7	RT 06.7	RT 03.4	RT 03.4
Sample ID	SS-9	SS-14	SS-18	T-4	SS-6	T-1
Depth (ft)	34.5	59.5	79.5	101.5	8.5	18.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0		100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0		100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0		100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0		100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0		100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0		100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0		100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0		100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.9	100.0	97.6	100.0	100.0
#10 SIEVE (2.00mm)	99.9	99.4	99.9	92.3	99.9	100.0
#20 SIEVE (0.85mm)	99.2	95.4	98.9	88.9	99.7	99.4
#40" SIEVE (425um)	95.5	74.6	86.0	80.8	98.5	90.7
#60 SIEVE (250um)	89.5	37.3	34.9	65.3	95.8	65.8
#100 SIEVE (150um)	81.5	21.2	6.9	56.2	93.4	49.5
#140 SIEVE (106um)	74.6	19.3	4.4	53.2	90.8	46.6
#200 SIEVE (75um)	69.5	18.3	3.4	51.0	75.1	42.3
Clay				28.6		22.9
Silt				22.5		19.4
Total Sand	30.5	81.7	96.6	46.5	24.9	57.7
Total Gravel	0.0		0.0	2.4	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	37	NP	NP	52	41	27
Plastic Limit	18	NP	NP	21	21	12
Plasticity Index	19	NP	NP	31	20	15
USCS	CL	SM	SP	CH	CL	SC
AASHTO	A-6(11)	A-2-4(0)	A-3(0)	A-7-6(12)	A-7-6(14)	A-6(2)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-105	BW-105	BW-105	BW-105	BW-106	BW-106
Station	879+34.4	879+34.4	879+34.4	879+34.4	882+31.1	882+31.1
Offset	RT 03.4	RT 03.4	RT 03.4	RT 03.4	RT 01.0	RT 01.0
Sample ID	SS-11	T-2	T-3	T-5	SS-3	T-2
Depth (ft)	38.5	70.5	78.5	98.5	3.0	15.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.5	100.0	100.0	100.0	99.9	100.0
#10 SIEVE (2.00mm)	97.8	100.0	100.0	100.0	99.8	99.8
#20 SIEVE (0.85mm)	84.2	100.0	100.0	100.0	99.5	99.0
#40" SIEVE (425um)	54.3	99.9	99.9	99.9	96.0	90.5
#60 SIEVE (250um)	22.6	99.6	99.5	99.8	90.6	75.2
#100 SIEVE (150um)	12.4	96.4	94.0	99.5	87.6	68.7
#140 SIEVE (106um)	11.0	89.5	87.0	98.8	83.1	66.2
#200 SIEVE (75um)	10.3	75.3	79.2	97.5	65.3	59.5
Clay		35.1	33.9	59.8		29.1
Silt		40.2	45.3	37.7		30.4
Total Sand	89.2	24.7	20.8	2.5	34.6	40.5
Total Gravel	0.5	0.0	0.0	0.0	0.1	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	38	73	78	35	38
Plastic Limit	NP	19	28	28	24	15
Plasticity Index	NP	19	45	50	11	23
USCS	SW-SM	CL	CH	CH	CL	CL
AASHTO	A-3(0)	A-6(13)	A-7-6(38)	A-7-6(58)	A-6(6)	A-6(11)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-106	BW-106	BW-106	BW-106	BW-106	BW-106
Station	882+31.1	882+31.1	882+31.1	882+31.1	882+31.1	882+31.1
Offset	RT 01.0	RT 01.0	RT 01.0	RT 01.0	RT 01.0	RT 01.0
Sample ID	T-3	SS-10	SS-16	T-6	SS-21	SS-24
Depth (ft)	27.0	40.0	70.0	100.0	105.0	120.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	90.8	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	82.8	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.8	100.0	74.9	100.0
#20 SIEVE (0.85mm)	99.4	99.4	99.3	99.2	70.9	99.9
#40" SIEVE (425um)	99.0	96.1	96.8	95.1	65.4	99.6
#60 SIEVE (250um)	98.1	37.7	84.6	86.6	53.8	98.7
#100 SIEVE (150um)	95.9	8.0	46.3	76.8	37.9	97.6
#140 SIEVE (106um)	94.0	5.8	34.7	71.1	24.2	95.7
#200 SIEVE (75um)	91.3	4.3	30.0	66.1	17.5	92.0
Clay	62.2			38.9		
Silt	29.1			27.2		
Total Sand	8.7	95.7	70.0	33.9	65.3	8.0
Total Gravel	0.0	0.0	0.0	0.0	17.2	0.0
ATTERBERG LIMITS						
Liquid Limit	60	NP	37	52	NP	51
Plastic Limit	28	NP	19	21	NP	19
Plasticity Index	32	NP	18	31	NP	32
USCS	CH	SP	SC	CH	SM	CH
AASHTO	A-7-6(34)	A-3(0)	A-2-6(1)	A-7-6(19)	A-2-4(0)	A-7-6(31)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-107	BW-107	BW-107	BW-107	BW-107	BW-107
Station	885+35.1	885+35.1	885+35.1	885+35.1	885+35.1	885+35.1
Offset	RT 13.4	RT 13.4	RT 13.4	RT 13.4	RT 13.4	RT 13.4
Sample ID	T-1	SS-7	SS-8	T-3	T-4	SS-13
Depth (ft)	10.5	11.5	21.5	28.5	36.0	51.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.3	99.6	99.9	100.0	100.0	100.0
#20 SIEVE (0.85mm)	98.9	99.1	96.1	100.0	99.6	98.1
#40" SIEVE (425um)	96.4	95.9	69.4	99.7	98.8	83.3
#60 SIEVE (250um)	91.9	91.0	26.0	98.8	96.7	38.5
#100 SIEVE (150um)	89.6	88.8	16.1	96.2	92.5	15.0
#140 SIEVE (106um)	86.3	86.3	15.0	93.2	88.0	7.6
#200 SIEVE (75um)	66.8	69.7	14.0	89.0	81.4	4.9
Clay						
Silt						
Total Sand	33.1	30.2	86.0	11.0	18.6	95.1
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	33	NP	84	71	NP
Plastic Limit	NP	21	NP	23	21	NP
Plasticity Index	NP	12	NP	61	50	NP
USCS	ML	CL	SM	CH	CH	SP
AASHTO	A-4(0)	A-6(7)	A-2-4(0)	A-7-6(60)	A-7-6(43)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-107	BW-107	BW-107	BW-107	BW-107	BW-108
Station	885+35.1	885+35.1	885+35.1	885+35.1	885+35.1	888+31.2
Offset	RT 13.4	RT 13.4	RT 13.4	RT 13.4	RT 13.4	RT 09.2
Sample ID	SS-15	SS-16	SS-18	SS-20	SS-24	SS-3
Depth (ft)	61.5	66.5	76.5	86.5	106.5	6.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.5	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	98.4	100.0	99.9	100.0	100.0	99.8
#20 SIEVE (0.85mm)	94.5	100.0	99.9	100.0	100.0	99.4
#40" SIEVE (425um)	47.4	99.7	99.5	99.9	99.9	97.7
#60 SIEVE (250um)	11.3	99.0	99.0	98.4	99.0	94.2
#100 SIEVE (150um)	7.0	77.3	79.4	19.9	91.6	90.6
#140 SIEVE (106um)	5.2	48.4	27.4	7.4	78.6	85.0
#200 SIEVE (75um)	4.0	33.1	12.6	5.2	64.8	69.8
Clay						
Silt						
Total Sand	95.5	66.9	87.4	94.8	35.2	30.2
Total Gravel	0.5	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	30	NP
Plastic Limit	NP	NP	NP	NP	12	NP
Plasticity Index	NP	NP	NP	NP	18	NP
USCS	SP	SM	SM	SP-SM	CL	ML
AASHTO	A-1-b(0)	A-2-4(0)	A-2-4(0)	A-3(0)	A-6(9)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-108	BW-108	BW-108	BW-108	BW-108	BW-108
Station	888+31.2	888+31.2	888+31.2	888+31.2	888+31.2	888+31.2
Offset	RT 09.2	RT 09.2	RT 09.2	RT 09.2	RT 09.2	RT 09.2
Sample ID	SS-6	T-3	SS-10	SS-12	SS-19	SS-22
Depth (ft)	23.5	38.5	48.5	58.5	93.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.9	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	96.1	99.7	100.0	97.7	99.9	100.0
#40" SIEVE (425um)	66.3	98.5	99.5	90.5	75.8	99.7
#60 SIEVE (250um)	19.5	96.6	73.8	71.7	14.6	98.9
#100 SIEVE (150um)	11.9	94.6	18.4	32.0	8.4	95.5
#140 SIEVE (106um)	11.2	91.9	9.1	12.7	6.7	82.4
#200 SIEVE (75um)	10.7	86.9	6.1	7.3	5.4	57.2
Clay						
Silt						
Total Sand	89.3	13.1	93.9	92.7	94.6	42.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	72	NP	NP	NP	40
Plastic Limit	NP	24	NP	NP	NP	20
Plasticity Index	NP	48	NP	NP	NP	20
USCS	SP-SM	CH	SP-SM	SP-SM	SP-SM	CL
AASHTO	A-2-4(0)	A-7-6(46)	A-3(0)	A-3(0)	A-3(0)	A-6(9)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-108	BW-108	BW-108	BW-109	BW-109	BW-109
Station	888+31.2	888+31.2	888+31.2	891+31.3	891+31.3	891+31.3
Offset	RT 09.2	RT 09.2	RT 09.2	RT 07.6	RT 07.6	RT 07.6
Sample ID	SS-24	SS-26	SS-30	SS-6	SS-7	SS-11
Depth (ft)	118.5	128.5	148.5	8.5	24.5	44.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	99.7	99.8
#20 SIEVE (0.85mm)	99.9	99.9	100.0	98.5	96.3	97.6
#40" SIEVE (425um)	99.4	99.7	99.5	95.6	71.6	78.8
#60 SIEVE (250um)	98.6	99.2	97.8	90.7	28.3	35.5
#100 SIEVE (150um)	95.0	98.4	96.7	87.9	13.1	7.1
#140 SIEVE (106um)	83.2	96.8	96.3	83.9	11.6	4.9
#200 SIEVE (75um)	63.2	88.1	96.2	66.4	10.4	3.7
Clay						
Silt						
Total Sand	36.8	11.9	3.8	33.6	89.6	96.3
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	45	51	34	NP	NP
Plastic Limit	NP	19	21	22	NP	NP
Plasticity Index	NP	26	30	12	NP	NP
USCS	ML	CL	CH	CL	SP-SM	SP
AASHTO	A-4(0)	A-7-6(24)	A-7-6(32)	A-6(6)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-109	BW-109	BW-109	BW-109	BW-110	BW-110
Station	891+31.3	891+31.3	891+31.3	891+31.3	894+44.3	894+44.3
Offset	RT 07.6	RT 07.6	RT 07.6	RT 07.6	RT 18.5	RT 18.5
Sample ID	T-3	T-4	SS-20	SS-21	SS-4	SS-9
Depth (ft)	76.5	84.5	94.5	99.5	4.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.9	100.0	100.0	98.4	100.0	100.0
#10 SIEVE (2.00mm)	91.4	96.6	100.0	94.7	99.5	100.0
#20 SIEVE (0.85mm)	61.0	93.7	99.3	93.2	99.0	98.9
#40" SIEVE (425um)	40.6	91.2	99.0	92.2	98.5	86.9
#60 SIEVE (250um)	31.8	86.6	98.3	90.7	97.6	69.9
#100 SIEVE (150um)	27.5	80.0	91.0	75.5	91.8	64.0
#140 SIEVE (106um)	25.8	77.5	66.1	66.9	81.4	61.5
#200 SIEVE (75um)	24.7	74.2	49.8	61.4	72.3	39.1
Clay						
Silt						
Total Sand	75.2	25.8	50.2	37.0	27.7	60.9
Total Gravel	0.1	0.0	0.0	1.6	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	67	44	29	NP	49	NP
Plastic Limit	43	18	15	NP	26	NP
Plasticity Index	24	26	14	NP	23	NP
USCS	SM	CL	SC	ML	CL	SM
AASHTO	A-2-7(1)	A-7-6(18)	A-6(4)	A-4(0)	A-7-6(16)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-110	BW-110	BW-110	BW-111	BW-111	BW-111
Station	894+44.3	894+44.3	894+44.3	896+92.9	896+92.9	896+92.9
Offset	RT 18.5	RT 18.5	RT 18.5	RT 36.2	RT 36.2	RT 36.2
Sample ID	SS-11	SS-15	T-1	SS-2	T-1	SS-5
Depth (ft)	33.5	53.5	95.5	5.0	13.0	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.8	99.5	98.1	100.0	99.9	99.8
#10 SIEVE (2.00mm)	98.8	99.1	91.7	99.9	99.9	99.3
#20 SIEVE (0.85mm)	95.8	98.2	87.4	99.2	98.6	94.2
#40" SIEVE (425um)	64.9	83.2	84.6	91.6	79.8	64.8
#60 SIEVE (250um)	26.4	34.1	82.1	79.4	54.1	27.4
#100 SIEVE (150um)	14.4	11.4	79.6	69.1	45.7	11.1
#140 SIEVE (106um)	13.2	8.0	77.0	64.2	44.1	8.0
#200 SIEVE (75um)	11.7	5.9	72.8	45.9	38.0	6.5
Clay					14.7	
Silt					23.3	
Total Sand	88.1	93.6	25.3	54.1	61.9	93.4
Total Gravel	0.2	0.5	1.9	0.0	0.1	0.2
ATTERBERG LIMITS						
Liquid Limit	NP	NP	42	29	31	NP
Plastic Limit	NP	NP	14	18	13	NP
Plasticity Index	NP	NP	28	11	18	NP
USCS	SP-SM	SP-SM	CL	SC	SC	SP-SM
AASHTO	A-2-4(0)	A-3(0)	A-7-6(18)	A-6(2)	A-6(2)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-111	BW-111	BW-111	BW-111	BW-111	BW-111
Station	896+92.9	896+92.9	896+92.9	896+92.9	896+92.9	896+92.9
Offset	RT 36.2	RT 36.2	RT 36.2	RT 36.2	RT 36.2	RT 36.2
Sample ID	SS-10	SS-16	T-2	T-3	SS-19	T-4
Depth (ft)	48.5	78.5	83.0	93.0	103.5	123.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	97.6	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	89.7	99.8	100.0	100.0	99.8	100.0
#10 SIEVE (2.00mm)	84.3	99.5	100.0	100.0	98.7	100.0
#20 SIEVE (0.85mm)	58.4	98.9	100.0	100.0	98.0	100.0
#40" SIEVE (425um)	22.6	98.2	99.9	99.9	97.2	99.9
#60 SIEVE (250um)	6.2	97.7	99.8	99.6	93.9	99.7
#100 SIEVE (150um)	2.4	89.5	99.7	87.2	68.5	91.2
#140 SIEVE (106um)	1.8	78.9	99.5	64.1	52.2	63.7
#200 SIEVE (75um)	1.5	69.7	98.0	54.7	43.7	43.2
Clay						
Silt						
Total Sand	88.2	30.1	2.0	45.3	56.1	56.8
Total Gravel	10.3	0.2	0.0	0.0	0.2	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	28	49	29	27	NP
Plastic Limit	NP	20	17	17	14	NP
Plasticity Index	NP	8	32	12	13	NP
USCS	SP	CL	CL	CL	SC	SM
AASHTO	A-1-b(0)	A-4(4)	A-7-6(34)	A-6(4)	A-6(2)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-112	BW-112	BW-112	BW-112	BW-112	BW-112
Station	900+04.5	900+04.5	900+04.5	900+04.5	900+04.5	900+04.5
Offset	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6
Sample ID	SS-2	SS-4	SS-6	SS-10	SS-12	SS-15
Depth (ft)	3.5	13.5	23.5	43.5	53.5	68.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	98.8	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	99.8	98.6	100.0	100.0	100.0
#20 SIEVE (0.85mm)	95.0	96.5	96.2	98.6	94.5	98.8
#40" SIEVE (425um)	68.2	82.2	64.5	62.8	10.7	89.8
#60 SIEVE (250um)	19.4	39.9	18.2	14.6	3.8	32.0
#100 SIEVE (150um)	6.3	9.7	8.8	3.0	2.3	5.0
#140 SIEVE (106um)	3.3	7.5	8.0	2.3	1.8	3.5
#200 SIEVE (75um)	2.8	7.0	7.4	2.1	1.6	2.8
Clay						
Silt						
Total Sand	97.2	93.0	91.4	97.9	98.4	97.2
Total Gravel	0.0	0.0	1.2	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	SP	SP-SM	SP-SM	SP	SP	SP
AASHTO	A-3(0)	A-3(0)	A-3(0)	A-3(0)	A-1-b(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-112	BW-112	BW-112	BW-112	BW-112	BW-112
Station	900+04.5	900+04.5	900+04.5	900+04.5	900+04.5	900+04.5
Offset	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6	LT 22.6
Sample ID	SS-16	SS-17	SS-18	SS-19	T-2	SS-22
Depth (ft)	78.5	83.5	88.5	93.5	103.0	113.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.9	99.9	100.0	99.7	100.0	99.8
#40" SIEVE (425um)	99.2	99.6	99.6	99.4	100.0	99.4
#60 SIEVE (250um)	98.6	99.4	99.3	98.8	100.0	98.1
#100 SIEVE (150um)	98.3	98.4	94.2	91.8	99.9	89.5
#140 SIEVE (106um)	97.8	94.8	88.1	82.1	99.6	84.1
#200 SIEVE (75um)	93.6	91.2	79.1	71.4	99.3	77.0
Clay						
Silt						
Total Sand	6.4	8.8	20.9	28.6	0.7	23.0
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	49	59	28	34	55	34
Plastic Limit	16	18	15	13	19	13
Plasticity Index	33	41	13	21	36	21
USCS	CL	CH	CL	CL	CH	CL
AASHTO	A-7-6(33)	A-7-6(40)	A-6(8)	A-6(12)	A-7-6(39)	A-6(14)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-112	BW-112	BW-113	BW-113	BW-113	BW-113
Station	900+04.5	900+04.5	902+86.1	902+86.1	902+86.1	902+86.1
Offset	LT 22.6	LT 22.6	RT 03.3	RT 03.3	RT 03.3	RT 03.3
Sample ID	T-3	SS-24	SS-3	SS-5	SS-8	SS-11
Depth (ft)	123.5	128.5	8.5	18.5	33.5	48.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	98.5	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	98.5	100.0	100.0	98.3	99.2	100.0
#10 SIEVE (2.00mm)	98.3	100.0	100.0	97.9	99.2	100.0
#20 SIEVE (0.85mm)	92.9	100.0	95.0	90.1	94.7	95.1
#40" SIEVE (425um)	86.4	99.9	77.7	56.3	61.2	86.9
#60 SIEVE (250um)	84.2	99.9	36.1	19.1	22.2	25.9
#100 SIEVE (150um)	77.6	99.6	13.1	9.5	8.7	3.8
#140 SIEVE (106um)	73.7	94.6	9.6	8.0	7.6	2.5
#200 SIEVE (75um)	71.5	68.6	8.9	7.2	7.2	2.0
Clay						
Silt						
Total Sand	27.0	31.4	91.1	91.1	92.0	98.0
Total Gravel	1.5	0.0	0.0	1.7	0.8	0.0
ATTERBERG LIMITS						
Liquid Limit	44	NP	NP	NP	NP	NP
Plastic Limit	14	NP	NP	NP	NP	NP
Plasticity Index	30	NP	NP	NP	NP	NP
USCS	CL	ML	SP-SM	SP-SM	SP-SM	SP
AASHTO	A-7-6(19)	A-4(0)	A-3(0)	A-3(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-113	BW-113	BW-113	BW-113	BW-113	BW-113
Station	902+86.1	902+86.1	902+86.1	902+86.1	902+86.1	902+86.1
Offset	RT 03.3	RT 03.3	RT 03.3	RT 03.3	RT 03.3	RT 03.3
Sample ID	SS-14	SS-16	SS-17	T-1	T-2	SS-19
Depth (ft)	63.5	73.5	78.5	83.5	93.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	87.0	100.0	100.0	99.1	99.9	100.0
#40" SIEVE (425um)	28.3	99.7	99.8	95.7	99.8	99.6
#60 SIEVE (250um)	18.9	99.4	99.5	93.6	99.6	99.0
#100 SIEVE (150um)	9.6	97.9	99.2	92.2	67.3	95.9
#140 SIEVE (106um)	5.9	90.1	98.1	90.3	48.1	81.2
#200 SIEVE (75um)	4.3	77.4	95.2	86.8	37.0	63.1
Clay						
Silt						
Total Sand	95.7	22.6	4.8	13.2	63.0	36.9
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	42	48	52	NP	NP
Plastic Limit	NP	18	19	18	NP	NP
Plasticity Index	NP	24	29	34	NP	NP
USCS	SP	CL	CL	CH	SM	ML
AASHTO	A-1-b(0)	A-7-6(18)	A-7-6(30)	A-7-6(31)	A-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-113	BW-113	BW-113	BW-113	BW-113	BW-114
Station	902+86.1	902+86.1	902+86.1	902+86.1	902+86.1	906+06.2
Offset	RT 03.3	RT 03.3	RT 03.3	RT 03.3	RT 03.3	RT 08.7
Sample ID	T-3	SS-23	SS-26	SS-29	SS-30	SS-6
Depth (ft)	108.5	123.5	138.5	158.5	168.5	23.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	99.1
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	97.3
#20 SIEVE (0.85mm)	97.2	99.9	100.0	99.1	99.9	94.7
#40" SIEVE (425um)	91.9	98.1	99.8	97.0	95.5	58.7
#60 SIEVE (250um)	89.6	91.0	99.6	91.9	46.9	13.0
#100 SIEVE (150um)	87.6	40.4	94.7	23.0	18.7	4.3
#140 SIEVE (106um)	84.5	20.9	91.4	12.4	13.7	3.3
#200 SIEVE (75um)	78.8	11.4	83.3	9.3	10.9	2.9
Clay						
Silt						
Total Sand	21.2	88.6	16.7	90.7	89.1	96.2
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.9
ATTERBERG LIMITS						
Liquid Limit	71	NP	27	NP	NP	NP
Plastic Limit	16	NP	17	NP	NP	NP
Plasticity Index	55	NP	10	NP	NP	NP
USCS	CH	SP-SM	CL	SP-SM	SP-SM	SP
AASHTO	A-7-6(44)	A-2-4(0)	A-4(6)	A-3(0)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-114	BW-114	BW-114	BW-114	BW-114	BW-114
Station	906+06.2	906+06.2	906+06.2	906+06.2	906+06.2	906+06.2
Offset	RT 08.7	RT 08.7	RT 08.7	RT 08.7	RT 08.7	RT 08.7
Sample ID	SS-9	SS-11	SS-15	SS-17	T-1	SS-18
Depth (ft)	38.5	48.5	68.5	78.5	83.5	88.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.5	95.9	100.0	99.1	100.0	100.0
#10 SIEVE (2.00mm)	97.4	81.3	100.0	97.7	100.0	100.0
#20 SIEVE (0.85mm)	91.3	57.2	93.7	96.5	99.0	99.8
#40" SIEVE (425um)	67.5	20.0	9.2	95.5	91.4	97.7
#60 SIEVE (250um)	22.2	4.7	3.5	94.4	87.3	95.6
#100 SIEVE (150um)	4.2	1.9	2.3	84.9	86.2	80.2
#140 SIEVE (106um)	2.6	1.4	2.0	77.4	85.6	62.4
#200 SIEVE (75um)	2.0	1.1	1.7	70.4	84.1	52.3
Clay						
Silt						
Total Sand	97.5	94.7	98.3	28.7	15.9	47.7
Total Gravel	0.5	4.1	0.0	0.9	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	49	47	31
Plastic Limit	NP	NP	NP	19	23	13
Plasticity Index	NP	NP	NP	30	24	18
USCS	SP	SP	SP	CL	CL	CL
AASHTO	A-3(0)	A-1-b(0)	A-1-b(0)	A-7-6(20)	A-7-6(21)	A-6(6)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-114	BW-114	BW-114	BW-114	BW-114	BW-114
Station	906+06.2	906+06.2	906+06.2	906+06.2	906+06.2	906+06.2
Offset	RT 08.7	RT 08.7	RT 08.7	RT 08.7	RT 08.7	RT 08.7
Sample ID	T-2	SS-19	T-3	SS-21	SS-22	SS-24
Depth (ft)	93.5	98.5	108.5	113.5	118.5	128.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	99.8	99.8	100.0	100.0	100.0	99.8
#40" SIEVE (425um)	99.6	99.3	99.9	99.8	99.8	99.5
#60 SIEVE (250um)	99.2	98.4	99.6	99.4	99.1	99.3
#100 SIEVE (150um)	63.5	95.7	98.5	92.8	72.2	98.4
#140 SIEVE (106um)	36.7	85.2	95.8	80.0	41.4	89.7
#200 SIEVE (75um)	24.0	65.9	89.9	62.4	27.9	51.3
Clay						
Silt						
Total Sand	76.0	34.1	10.1	37.6	72.1	48.7
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	40	41	30	NP	NP
Plastic Limit	NP	23	16	12	NP	NP
Plasticity Index	NP	17	25	18	NP	NP
USCS	SM	CL	CL	CL	SM	ML
AASHTO	A-2-4(0)	A-6(10)	A-7-6(23)	A-6(8)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-115	BW-115	BW-115	BW-115	BW-115	BW-115
Station	909+27.2	909+27.2	909+27.2	909+27.2	909+27.2	909+27.2
Offset	LT 04.7	LT 04.7	LT 04.7	LT 04.7	LT 04.7	LT 04.7
Sample ID	SS-4	T-2	SS-9	SS-17	SS-20	T-4
Depth (ft)	5.0	13.0	33.5	73.5	88.5	100.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	98.8	99.6	95.6	100.0
#10 SIEVE (2.00mm)	100.0	99.8	94.3	98.5	86.0	99.9
#20 SIEVE (0.85mm)	99.3	98.8	88.8	97.1	78.8	98.9
#40" SIEVE (425um)	98.9	89.3	45.1	83.3	65.5	91.8
#60 SIEVE (250um)	98.3	78.1	11.1	35.5	41.4	85.5
#100 SIEVE (150um)	97.1	72.1	7.0	14.6	21.9	84.0
#140 SIEVE (106um)	92.8	69.3	6.1	10.0	14.0	82.9
#200 SIEVE (75um)	86.2	56.5	5.4	7.5	10.6	80.9
Clay						
Silt						
Total Sand	13.8	43.5	93.3	92.2	84.9	19.1
Total Gravel	0.0	0.0	1.2	0.4	4.4	0.0
ATTERBERG LIMITS						
Liquid Limit	48	29	NP	NP	NP	55
Plastic Limit	22	16	NP	NP	NP	19
Plasticity Index	26	13	NP	NP	NP	36
USCS	CL	CL	SP-SM	SP-SM	SP-SM	CH
AASHTO	A-7-6(24)	A-6(4)	A-1-b(0)	A-3(0)	A-2-4(0)	A-7-6(30)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-115	BW-116	BW-116	BW-116	BW-116	BW-116
Station	909+27.2	912+34.5	912+34.5	912+34.5	912+34.5	912+34.5
Offset	LT 04.7	LT 03.9	LT 03.9	LT 03.9	LT 03.9	LT 03.9
Sample ID	SS-25	T-1	T-2	SS-9	SS-15	SS-22
Depth (ft)	113.5	6.0	23.5	33.5	63.5	98.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	99.2	98.7	99.7
#10 SIEVE (2.00mm)	99.9	100.0	100.0	97.5	94.9	98.0
#20 SIEVE (0.85mm)	98.7	98.4	99.7	94.4	83.7	95.4
#40" SIEVE (425um)	96.6	97.6	95.9	67.8	33.6	90.3
#60 SIEVE (250um)	95.2	95.9	88.9	18.7	19.7	86.7
#100 SIEVE (150um)	90.4	85.0	66.4	10.0	13.7	65.1
#140 SIEVE (106um)	57.5	62.5	50.8	8.0	10.9	35.5
#200 SIEVE (75um)	32.3	35.8	38.7	6.4	8.5	23.3
Clay						
Silt						
Total Sand	67.7	64.2	61.3	92.8	90.2	76.4
Total Gravel	0.0	0.0	0.0	0.8	1.3	0.3
ATTERBERG LIMITS						
Liquid Limit	26	32	NP	NP	NP	NP
Plastic Limit	18	18	NP	NP	NP	NP
Plasticity Index	8	14	NP	NP	NP	NP
USCS	SC	SC	SM	SP-SM	SW-SM	SM
AASHTO	A-2-4(0)	A-6(1)	A-4(0)	A-3(0)	A-1-b(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-117	BW-117	BW-117	BW-117	BW-117	BW-117
Station	915+32.6	915+32.6	915+32.6	915+32.6	915+32.6	915+32.6
Offset	LT 04.7	LT 04.7	LT 04.7	LT 04.7	LT 04.7	LT 04.7
Sample ID	SS-2	SS-6	SS-10	SS-19	SS-21	SS-24
Depth (ft)	1.5	13.5	38.5	83.5	93.5	108.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	99.4	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	96.9	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.4	94.3	100.0	100.0
#20 SIEVE (0.85mm)	98.0	99.7	95.7	89.7	97.7	99.7
#40" SIEVE (425um)	96.8	97.5	65.8	68.8	94.7	98.8
#60 SIEVE (250um)	95.8	91.7	20.1	39.4	92.0	97.9
#100 SIEVE (150um)	94.6	83.3	8.0	31.8	90.2	97.1
#140 SIEVE (106um)	91.1	78.1	6.2	26.8	88.3	94.6
#200 SIEVE (75um)	85.9	67.1	5.0	21.5	81.0	88.1
Clay						
Silt						
Total Sand	14.1	32.9	95.0	75.4	19.0	11.9
Total Gravel	0.0	0.0	0.0	3.1	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	54	28	NP	NP	43	23
Plastic Limit	23	14	NP	NP	23	14
Plasticity Index	31	14	NP	NP	20	9
USCS	CH	CL	SP-SM	SM	CL	CL
AASHTO	A-7-6(29)	A-6(7)	A-3(0)	A-2-4(0)	A-7-6(16)	A-4(5)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-118	BW-118	BW-118	BW-118	BW-118	BW-118
Station	918+31.1	918+31.1	918+31.1	918+31.1	918+31.1	918+31.1
Offset	RT 07.1	RT 07.1	RT 07.1	RT 07.1	RT 07.1	RT 07.1
Sample ID	SS-2	SS-6	SS-11	SS-14	T-2	SS-19
Depth (ft)	1.5	18.5	43.5	58.5	75.5	83.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	98.1
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	96.4
#10 SIEVE (2.00mm)	100.0	99.3	99.7	99.8	100.0	94.7
#20 SIEVE (0.85mm)	97.2	98.0	96.4	97.0	100.0	93.5
#40" SIEVE (425um)	95.6	87.6	71.8	49.4	99.7	92.2
#60 SIEVE (250um)	93.8	65.4	21.5	14.8	97.5	84.9
#100 SIEVE (150um)	88.5	42.4	7.4	8.9	91.9	16.0
#140 SIEVE (106um)	84.6	35.2	5.4	6.8	82.8	8.1
#200 SIEVE (75um)	79.4	30.5	4.3	5.2	70.7	6.0
Clay						
Silt						
Total Sand	20.6	69.5	95.7	94.8	29.3	90.5
Total Gravel	0.0	0.0	0.0	0.0	0.0	3.6
ATTERBERG LIMITS						
Liquid Limit	86	NP	NP	NP	32	NP
Plastic Limit	40	NP	NP	NP	20	NP
Plasticity Index	46	NP	NP	NP	12	NP
USCS	MH	SM	SP	SP-SM	CL	SP-SM
AASHTO	A-7-5(42)	A-2-4(0)	A-3(0)	A-1-b(0)	A-6(7)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-118	BW-118	BW-118	BW-118	BW-119	BW-119
Station	918+31.1	918+31.1	918+31.1	918+31.1	921+42.3	921+42.3
Offset	RT 07.1	RT 07.1	RT 07.1	RT 07.1	LT 09.4	LT 09.4
Sample ID	SS-20	SS-25	SS-28	SS-30	SS-4	T-2
Depth (ft)	88.5	113.5	128.5	138.5	4.5	18.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	98.8	100.0	97.7	100.0
#10 SIEVE (2.00mm)	100.0	99.9	97.0	100.0	89.5	100.0
#20 SIEVE (0.85mm)	99.0	99.6	95.1	100.0	85.5	99.4
#40" SIEVE (425um)	96.3	98.6	93.0	99.4	83.4	95.7
#60 SIEVE (250um)	93.8	96.2	90.0	86.3	81.4	86.4
#100 SIEVE (150um)	91.5	81.6	88.2	57.4	78.8	76.8
#140 SIEVE (106um)	87.6	63.5	86.6	42.0	75.8	72.3
#200 SIEVE (75um)	78.5	48.8	81.6	31.1	71.8	66.5
Clay						26.7
Silt						39.7
Total Sand	21.5	51.2	17.2	68.9	25.9	33.5
Total Gravel	0.0	0.0	1.2	0.0	2.3	0.0
ATTERBERG LIMITS						
Liquid Limit	42	NP	35	NP	119	37
Plastic Limit	20	NP	19	NP	39	15
Plasticity Index	22	NP	16	NP	80	22
USCS	CL	SM	CL	SM	CH	CL
AASHTO	A-7-6(17)	A-4(0)	A-6(12)	A-2-4(0)	A-7-5(62)	A-6(12)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-119	BW-119	BW-119	BW-119	BW-119	BW-120
Station	921+42.3	921+42.3	921+42.3	921+42.3	921+42.3	924+34.9
Offset	LT 09.4	LT 09.4	LT 09.4	LT 09.4	LT 09.4	LT 08.3
Sample ID	SS-10	SS-15	SS-18	SS-21	SS-25	SS-3
Depth (ft)	38.5	63.5	78.5	93.5	113.5	3.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	97.6	100.0	98.7	100.0	100.0
#10 SIEVE (2.00mm)	99.1	88.8	99.6	94.9	100.0	100.0
#20 SIEVE (0.85mm)	96.1	77.4	97.4	90.8	99.8	97.8
#40" SIEVE (425um)	77.0	55.2	90.6	88.1	98.8	86.5
#60 SIEVE (250um)	28.5	33.8	78.2	85.7	97.1	74.4
#100 SIEVE (150um)	8.8	25.9	51.1	83.5	94.7	68.7
#140 SIEVE (106um)	6.7	22.8	36.3	81.6	90.2	67.2
#200 SIEVE (75um)	5.4	18.8	24.7	77.2	79.0	65.8
Clay						
Silt						
Total Sand	94.6	78.8	75.3	21.5	21.0	34.2
Total Gravel	0.0	2.4	0.0	1.3	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	43	34	79
Plastic Limit	NP	NP	NP	17	14	34
Plasticity Index	NP	NP	NP	26	20	45
USCS	SP-SM	SM	SM	CL	CL	CH
AASHTO	A-3(0)	A-2-4(0)	A-2-4(0)	A-7-6(19)	A-6(14)	A-7-5(30)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-120	BW-120	BW-120	BW-120	BW-120	BW-120
Station	924+34.9	924+34.9	924+34.9	924+34.9	924+34.9	924+34.9
Offset	LT 08.3	LT 08.3	LT 08.3	LT 08.3	LT 08.3	LT 08.3
Sample ID	SS-7	SS-10	T-2	SS-15	SS-18	SS-21
Depth (ft)	18.5	33.5	45.5	58.5	73.5	88.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	99.1	99.6	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	95.8	97.6	99.6
#10 SIEVE (2.00mm)	99.8	100.0	100.0	90.7	89.8	99.0
#20 SIEVE (0.85mm)	97.8	99.9	99.4	83.9	77.0	98.5
#40" SIEVE (425um)	89.0	82.1	81.0	37.9	53.0	94.7
#60 SIEVE (250um)	66.5	43.0	14.9	11.9	27.1	79.3
#100 SIEVE (150um)	40.7	32.6	2.7	7.7	21.7	21.4
#140 SIEVE (106um)	34.4	28.2	1.6	6.7	20.0	13.5
#200 SIEVE (75um)	30.2	23.1	1.3	5.9	18.7	10.0
Clay						
Silt						
Total Sand	69.8	76.9	98.7	89.9	78.9	89.6
Total Gravel	0.0	0.0	0.0	4.2	2.4	0.4
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	NP	NP
Plastic Limit	NP	NP	NP	NP	NP	NP
Plasticity Index	NP	NP	NP	NP	NP	NP
USCS	SM	SM	SP	SP-SM	SM	SP-SM
AASHTO	A-2-4(0)	A-2-4(0)	A-3(0)	A-1-b(0)	A-2-4(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-120	BW-120	BW-120	BW-121	BW-121	BW-121
Station	924+34.9	924+34.9	924+34.9	928+69.5	928+69.5	928+69.5
Offset	LT 08.3	LT 08.3	LT 08.3	RT 05.8	RT 05.8	RT 05.8
Sample ID	SS-24	SS-25	SS-27	SS-2	SS-8	T-1
Depth (ft)	103.5	108.5	118.5	1.5	18.5	23.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.9	99.9	100.0
#20 SIEVE (0.85mm)	100.0	100.0	99.8	99.1	99.0	99.2
#40" SIEVE (425um)	99.6	99.7	98.0	82.8	95.4	95.3
#60 SIEVE (250um)	98.9	98.3	95.3	27.9	82.6	80.0
#100 SIEVE (150um)	95.8	96.4	88.7	7.8	50.5	36.9
#140 SIEVE (106um)	87.0	93.1	64.8	5.6	40.7	22.5
#200 SIEVE (75um)	74.9	86.5	32.7	5.0	36.6	17.8
Clay						10.5
Silt						7.3
Total Sand	25.1	13.5	67.3	95.0	63.4	82.2
Total Gravel	0.0	0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	31	39	NP	NP	23	NP
Plastic Limit	17	17	NP	NP	14	NP
Plasticity Index	14	22	NP	NP	9	NP
USCS	CL	CL	SM	SP-SM	SC	SM
AASHTO	A-6(9)	A-6(18)	A-2-4(0)	A-3(0)	A-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-121	BW-121	BW-121	BW-121	BW-121	BW-121
Station	928+69.5	928+69.5	928+69.5	928+69.5	928+69.5	928+69.5
Offset	RT 05.8	RT 05.8	RT 05.8	RT 05.8	RT 05.8	RT 05.8
Sample ID	SS-9	T-2	SS-11	T-3	T-4	SS-16
Depth (ft)	28.5	38.0	43.5	63.0	73.5	78.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0		100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0		100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0		100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0		100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0		100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0		100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0		100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0		100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.9		100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.4		100.0	100.0
#20 SIEVE (0.85mm)	99.6	99.7	97.0		98.4	99.9
#40" SIEVE (425um)	96.1	97.5	80.1		89.8	99.5
#60 SIEVE (250um)	85.6	92.1	38.2		69.9	98.2
#100 SIEVE (150um)	65.2	72.9	10.8		40.7	92.1
#140 SIEVE (106um)	50.0	42.7	6.6		31.1	81.2
#200 SIEVE (75um)	37.5	21.2	5.0	99.2	26.1	65.1
Clay		6.9			12.1	
Silt		14.3			14.1	
Total Sand	62.5	78.8	94.9		73.9	34.9
Total Gravel	0.0	0.0	0.1		0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	72	NP	NP
Plastic Limit	NP	NP	NP	26	NP	NP
Plasticity Index	NP	NP	NP	46	NP	NP
USCS	SM	SM	SP-SM	CH	SM	ML
AASHTO	A-4(0)	A-2-4(0)	A-3(0)	A-7-6(53)	A-2-4(0)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-121	BW-121	BW-121	BW-122	BW-122	BW-122
Station	928+69.5	928+69.5	928+69.5	929+97.3	929+97.3	929+97.3
Offset	RT 05.8	RT 05.8	RT 05.8	LT 04.4	LT 04.4	LT 04.4
Sample ID	SS-18	SS-21	SS-23	SS-3	T-1	SS-6
Depth (ft)	88.5	103.5	113.5	10.0	18.0	28.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.7	100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	98.7	100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)	98.1	99.6	99.9	99.5	98.4	94.3
#40" SIEVE (425um)	96.3	96.0	99.4	94.9	93.3	75.6
#60 SIEVE (250um)	62.9	26.6	98.6	87.5	79.5	58.2
#100 SIEVE (150um)	17.6	10.1	97.6	83.1	52.4	40.0
#140 SIEVE (106um)	12.1	7.7	95.7	73.8	42.1	32.4
#200 SIEVE (75um)	9.9	6.4	92.2	60.7	37.3	26.6
Clay				30.8	17.5	
Silt				30.0	19.8	
Total Sand	89.8	93.6	7.8	39.3	62.7	73.2
Total Gravel	0.3	0.0	0.0	0.0	0.0	0.2
ATTERBERG LIMITS						
Liquid Limit	NP	NP	46	54	26	NP
Plastic Limit	NP	NP	16	17	14	NP
Plasticity Index	NP	NP	30	37	12	NP
USCS	SP-SM	SP-SM	CL	CH	SC	SM
AASHTO	A-3(0)	A-3(0)	A-7-6(29)	A-7-6(19)	A-6(1)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-122	BW-122	BW-122	BW-122	BW-122	BW-122
Station	929+97.3	929+97.3	929+97.3	929+97.3	929+97.3	929+97.3
Offset	LT 04.4	LT 04.4	LT 04.4	LT 04.4	LT 04.4	LT 04.4
Sample ID	SS-9	SS-13	T-4	T-5	SS-15	SS-16
Depth (ft)	48.5	68.5	73.0	83.0	88.5	95.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	100.0	96.9
#10 SIEVE (2.00mm)	99.7	100.0	100.0	100.0	100.0	95.1
#20 SIEVE (0.85mm)	95.4	100.0	100.0	100.0	99.5	91.3
#40" SIEVE (425um)	72.8	99.8	100.0	100.0	94.2	71.5
#60 SIEVE (250um)	34.7	99.5	99.9	99.8	90.8	65.0
#100 SIEVE (150um)	8.7	96.2	99.9	99.4	89.7	55.9
#140 SIEVE (106um)	4.0	86.8	99.8	98.6	88.7	44.8
#200 SIEVE (75um)	2.4	66.3	99.8	97.5	87.6	36.1
Clay		20.2		77.3		
Silt		46.1		20.2		
Total Sand	97.6	33.7	0.2	2.5	12.4	60.8
Total Gravel	0.0	0.0	0.0	0.0	0.0	3.1
ATTERBERG LIMITS						
Liquid Limit	NP	28	69	71	54	NP
Plastic Limit	NP	18	26	28	19	NP
Plasticity Index	NP	10	43	43	35	NP
USCS	SP	CL	CH	CH	CH	SM
AASHTO	A-3(0)	A-4(4)	A-7-6(50)	A-7-6(50)	A-7-6(33)	A-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-122	BW-122	BW-123	BW-123	BW-123	BW-123
Station	929+97.3	929+97.3	933+74.3	933+74.3	933+74.3	933+74.3
Offset	LT 04.4	LT 04.4	LT 08.1	LT 08.1	LT 08.1	LT 08.1
Sample ID	SS-19	SS-21	SS-2	SS-3	SS-4	T-2
Depth (ft)	113.5	123.5	5.0	10.0	15.0	23.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	100.0	100.0	99.5	100.0
#10 SIEVE (2.00mm)	100.0	100.0	100.0	99.5	98.8	100.0
#20 SIEVE (0.85mm)	99.7	99.9	98.9	97.8	96.7	100.0
#40" SIEVE (425um)	98.6	99.7	73.3	94.6	94.7	99.9
#60 SIEVE (250um)	95.5	97.3	27.8	85.8	85.8	98.8
#100 SIEVE (150um)	93.7	55.3	9.9	57.6	40.7	88.0
#140 SIEVE (106um)	91.4	34.5	7.5	44.3	23.4	65.6
#200 SIEVE (75um)	85.3	26.0	6.6	33.8	16.2	45.8
Clay						
Silt						
Total Sand	14.7	74.0	93.4	66.2	83.3	54.2
Total Gravel	0.0	0.0	0.0	0.0	0.5	0.0
ATTERBERG LIMITS						
Liquid Limit	43	NP	NP	22	NP	37
Plastic Limit	19	NP	NP	14	NP	15
Plasticity Index	24	NP	NP	8	NP	22
USCS	CL	SM	SP-SM	SC	SM	SC
AASHTO	A-7-6(21)	A-2-4(0)	A-3(0)	A-2-4(0)	A-2-4(0)	A-6(6)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-123	BW-123	BW-123	BW-123	BW-123	BW-123
Station	933+74.3	933+74.3	933+74.3	933+74.3	933+74.3	933+74.3
Offset	LT 08.1	LT 08.1	LT 08.1	LT 08.1	LT 08.1	LT 08.1
Sample ID	SS-7	T-4	SS-10	SS-14	SS-17	SS-19
Depth (ft)	38.5	43.0	58.5	78.5	93.5	103.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	100.0	99.8	100.0	100.0	100.0
#10 SIEVE (2.00mm)	100.0	100.0	99.5	99.9	99.9	100.0
#20 SIEVE (0.85mm)	100.0	100.0	99.4	99.7	99.3	100.0
#40" SIEVE (425um)	99.9	99.9	99.1	99.6	97.5	88.0
#60 SIEVE (250um)	98.2	97.5	95.7	99.1	37.4	16.8
#100 SIEVE (150um)	84.2	77.1	78.2	81.5	14.0	8.6
#140 SIEVE (106um)	58.7	36.0	55.2	56.8	11.4	6.7
#200 SIEVE (75um)	40.6	18.2	34.0	38.4	9.8	5.4
Clay						
Silt						
Total Sand	59.4	81.8	65.7	61.6	90.2	94.6
Total Gravel	0.0	0.0	0.2	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	27	NP	NP	NP	NP	NP
Plastic Limit	16	NP	NP	NP	NP	NP
Plasticity Index	11	NP	NP	NP	NP	NP
USCS	SC	SM	SM	SM	SP-SM	SP-SM
AASHTO	A-6(1)	A-2-4(0)	A-2-4(0)	A-4(0)	A-3(0)	A-3(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-123	BW-123	BW-123	BW-123	BW-123	BW-123
Station	933+74.3	933+74.3	933+74.3	933+74.3	933+74.3	933+74.3
Offset	LT 08.1	LT 08.1	LT 08.1	LT 08.1	LT 08.1	LT 08.1
Sample ID	SS-20	SS-23	T-7	SS-26	SS-29	SS-32
Depth (ft)	108.5	123.5	128.0	143.5	158.5	173.5
TOTAL PASSING (%)						
3" SIEVE (75mm)		100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)		100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)		100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)		100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)		100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)		100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)		100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)		100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)		100.0	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)		100.0	100.0	100.0	100.0	100.0
#20 SIEVE (0.85mm)		100.0	100.0	99.8	100.0	100.0
#40" SIEVE (425um)		99.9	99.7	99.6	99.9	99.9
#60 SIEVE (250um)		99.6	97.6	99.2	99.6	99.0
#100 SIEVE (150um)		98.9	95.4	98.1	93.0	75.0
#140 SIEVE (106um)		97.2	93.2	95.5	66.5	45.6
#200 SIEVE (75um)	66.4	92.7	89.9	90.9	35.7	29.1
Clay						
Silt						
Total Sand		7.3	10.1	9.1	64.3	70.9
Total Gravel		0.0	0.0	0.0	0.0	0.0
ATTERBERG LIMITS						
Liquid Limit	34	44	39	31	NP	NP
Plastic Limit	16	15	18	13	NP	NP
Plasticity Index	18	29	21	18	NP	NP
USCS	CL	CL	CL	CL	SM	SM
AASHTO	A-6(9)	A-7-6(28)	A-6(19)	A-6(15)	A-4(0)	A-2-4(0)

BMT-5

Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-123	BW-126	BW-126	BW-126	BW-126	BW-126
Station	933+74.3	942+39.1	942+39.1	942+39.1	942+39.1	942+39.1
Offset	LT 08.1	LT 02.9	LT 02.9	LT 02.9	LT 02.9	LT 02.9
Sample ID	SS-33	SS-3	T-2	T-3	SS-14	SS-18
Depth (ft)	178.5	3.0	15.5	25.5	48.5	68.5
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	98.7	100.0	100.0	99.7	100.0
#10 SIEVE (2.00mm)	100.0	88.8	100.0	100.0	99.3	100.0
#20 SIEVE (0.85mm)	99.9	72.1	100.0	99.9	99.0	99.2
#40" SIEVE (425um)	99.8	41.6	100.0	99.6	98.7	96.3
#60 SIEVE (250um)	91.6	19.1	99.5	98.2	97.1	91.3
#100 SIEVE (150um)	35.5	8.3	93.6	89.6	85.5	70.7
#140 SIEVE (106um)	21.0	6.0	76.4	71.9	56.2	55.9
#200 SIEVE (75um)	16.2	4.7	47.4	50.9	34.9	40.7
Clay			23.2	27.3		
Silt			24.2	23.6		
Total Sand	83.8	93.9	52.6	49.1	64.8	59.3
Total Gravel	0.0	1.3	0.0	0.0	0.3	0.0
ATTERBERG LIMITS						
Liquid Limit	NP	NP	32	29	NP	NP
Plastic Limit	NP	NP	15	15	NP	NP
Plasticity Index	NP	NP	17	14	NP	NP
USCS	SM	SP	SC	CL	SM	SM
AASHTO	A-2-4(0)	A-1-b(0)	A-6(4)	A-6(4)	A-2-4(0)	A-4(0)

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Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-126	BW-126	BW-127	BW-127	BW-127	BW-127
Station	942+39.1	942+39.1	944+16.6	944+16.6	944+16.6	944+16.6
Offset	LT 02.9	LT 02.9	LT 20.2	LT 20.2	LT 20.2	LT 20.2
Sample ID	SS-23	SS-24	SS-4	SS-9	SS-11	T-1
Depth (ft)	93.5	98.5	4.5	24.0	34.0	39.0
TOTAL PASSING (%)						
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	100.0	99.5	99.7	100.0	99.5	91.5
#10 SIEVE (2.00mm)	99.4	98.3	98.2	100.0	99.5	80.8
#20 SIEVE (0.85mm)	96.2	91.7	91.9	100.0	99.5	78.3
#40" SIEVE (425um)	92.2	85.3	60.4	99.9	99.2	76.8
#60 SIEVE (250um)	89.4	81.8	38.7	99.0	97.5	75.2
#100 SIEVE (150um)	86.0	78.5	29.5	91.4	86.8	69.4
#140 SIEVE (106um)	81.7	75.9	23.2	73.2	66.4	58.7
#200 SIEVE (75um)	62.9	69.7	18.1	51.6	50.2	45.9
Clay						23.4
Silt						22.5
Total Sand	37.1	29.8	81.6	48.4	49.3	45.6
Total Gravel	0.0	0.5	0.3	0.0	0.5	8.5
ATTERBERG LIMITS						
Liquid Limit	NP	NP	NP	NP	27	31
Plastic Limit	NP	NP	NP	NP	14	18
Plasticity Index	NP	NP	NP	NP	13	13
USCS	ML	ML	SM	ML	CL	SC
AASHTO	A-4(0)	A-4(0)	A-2-4(0)	A-4(0)	A-6(3)	A-6(3)

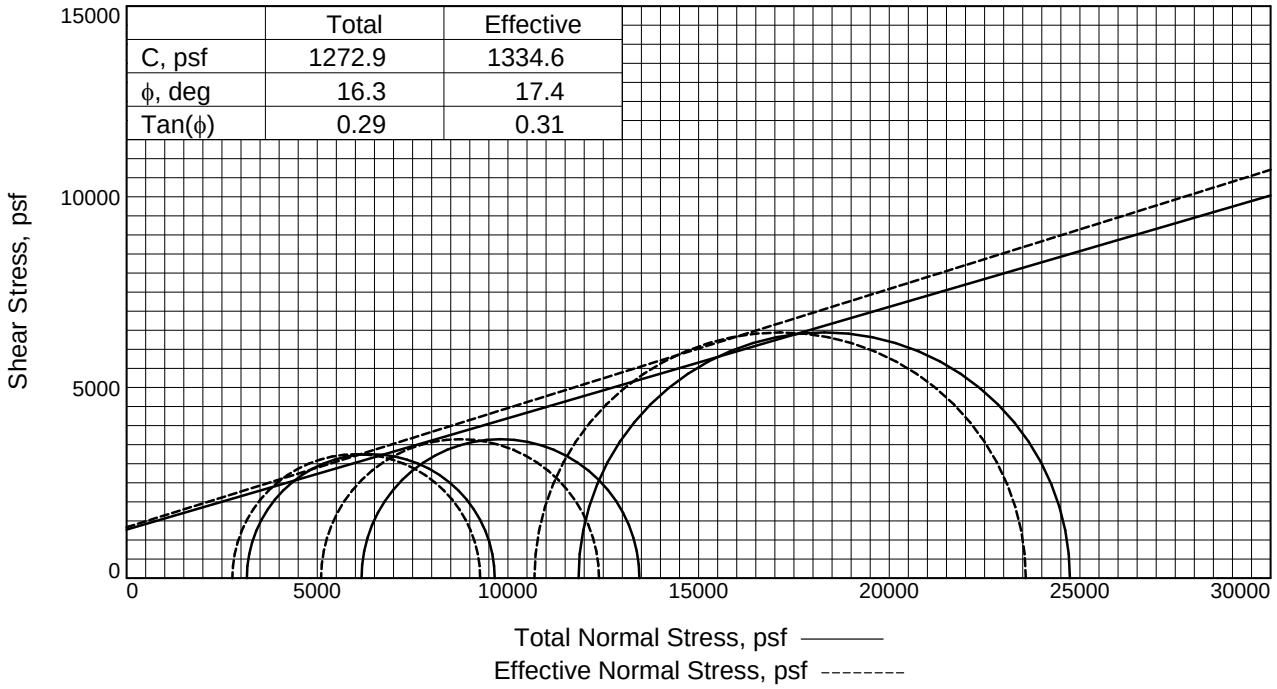
BMT-5

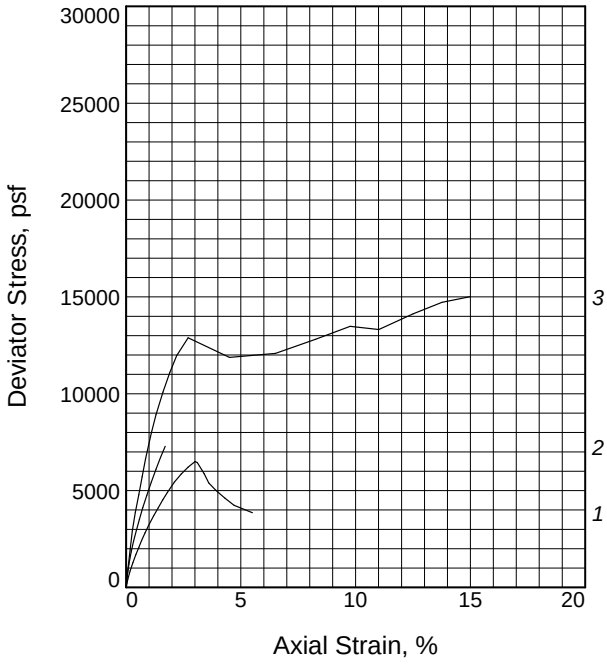
Client: ALDOT
Project: I-10 Mobile River Bridge and Bayway
ALDOT Project No.:15-1101-0228

Project No.: 15-1101-0228
Region: Southwest Region
Date: 01/24/2018

ALABAMA DEPARTMENT OF TRANSPORTATION
SOILS AND BASE COARSE ANALYSIS

Boring No.	BW-127	BW-127	BW-127	BW-127	BW-127
Station	944+16.6	944+16.6	944+16.6	944+16.6	944+16.6
Offset	LT 20.2	LT 20.2	LT 20.2	LT 20.2	LT 20.2
Sample ID	SS-14	SS-16	SS-22	SS-23	SS-24
Depth (ft)	54.0	64.0	99.0	104.0	109.0
TOTAL PASSING (%)					
3" SIEVE (75mm)	100.0	100.0	100.0	100.0	100.0
2 1/2" SIEVE (63mm)	100.0	100.0	100.0	100.0	100.0
2" SIEVE (50mm)	100.0	100.0	100.0	100.0	100.0
1 1/2" SIEVE (37.5mm)	100.0	100.0	100.0	100.0	100.0
1" SIEVE (25mm)	100.0	100.0	100.0	100.0	100.0
3/4" SIEVE (19mm)	100.0	100.0	100.0	100.0	100.0
1/2" SIEVE (12.5mm)	100.0	100.0	100.0	100.0	100.0
3/8" SIEVE (9.5mm)	100.0	100.0	100.0	100.0	100.0
#4 SIEVE (4.75mm)	99.8	100.0	100.0	100.0	100.0
#10 SIEVE (2.00mm)	99.7	100.0	99.9	99.9	100.0
#20 SIEVE (0.85mm)	99.6	99.9	99.5	98.3	100.0
#40" SIEVE (425um)	99.2	99.6	98.3	95.6	99.9
#60 SIEVE (250um)	96.7	95.1	92.5	93.9	99.5
#100 SIEVE (150um)	82.9	65.6	61.3	92.2	87.1
#140 SIEVE (106um)	52.9	40.0	46.1	89.4	31.6
#200 SIEVE (75um)	34.7	23.9	33.9	79.3	12.9
Clay					
Silt					
Total Sand	65.2	76.1	66.1	20.7	87.1
Total Gravel	0.2	0.0	0.0	0.0	0.0
ATTERBERG LIMITS					
Liquid Limit	NP	NP	NP	34	NP
Plastic Limit	NP	NP	NP	18	NP
Plasticity Index	NP	NP	NP	16	NP
USCS	SM	SM	SM	CL	SM
AASHTO	A-2-4(0)	A-2-4(0)	A-2-4(0)	A-6(11)	A-2-4(0)





Specimen No.		1	2	3
Initial	Water Content, %	19.2	16.1	19.8
	Dry Density, pcf	105.9	110.9	102.2
	Saturation, %	90.0	85.9	84.4
	Void Ratio	0.5682	0.4971	0.6252
	Diameter, in.	1.405	1.405	1.422
	Height, in.	2.780	2.770	2.790
At Test	Water Content, %	0.0	21.0	22.3
	Dry Density, pcf	0.0	110.9	102.2
	Saturation, %	0.0	112.4	95.0
	Void Ratio	N/A	0.4971	0.6252
	Diameter, in.	1.405	1.405	1.422
	Height, in.	2.780	2.770	2.790
Strain at peak, %		3.0	1.7	2.7
Eff. Cell Pressure, psf		3153.6	6160.3	11851.2
Fail. Stress, psf		6499.7	7287.2	12886.3
Excess Pore Pr., psf		380.5	1060.9	1157.1
Strain, %		3.0	1.7	2.7
Ult. Stress, psf		6499.7	7287.2	12886.3
Excess Pore Pr., psf		380.5	1060.9	1157.1
Strain, %		3.0	1.7	2.7
$\bar{\sigma}_1$ Failure, psf		9272.8	12386.6	23580.4
$\bar{\sigma}_3$ Failure, psf		2773.1	5099.4	10694.1

Type of Test:
CU with Pore Pressures

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(12))

Specific Gravity= 2.66

Remarks:

Figure _____

Client: ALDOT

Project: Mobile River Bridge

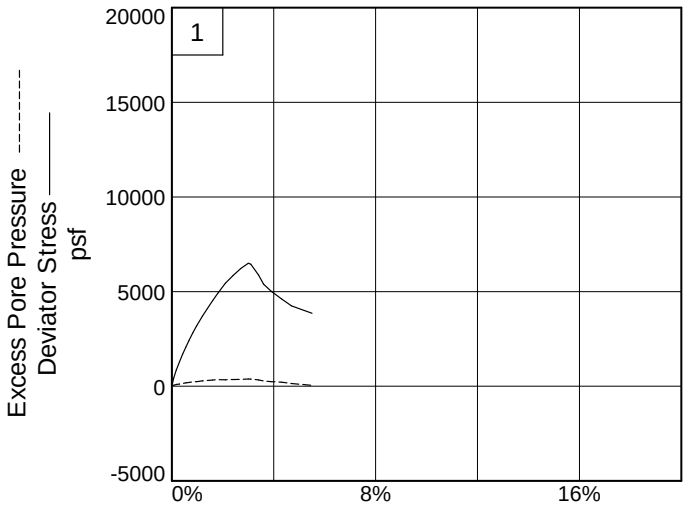
Source of Sample: Lab #7905 **Depth:** 128.0'-130.0'

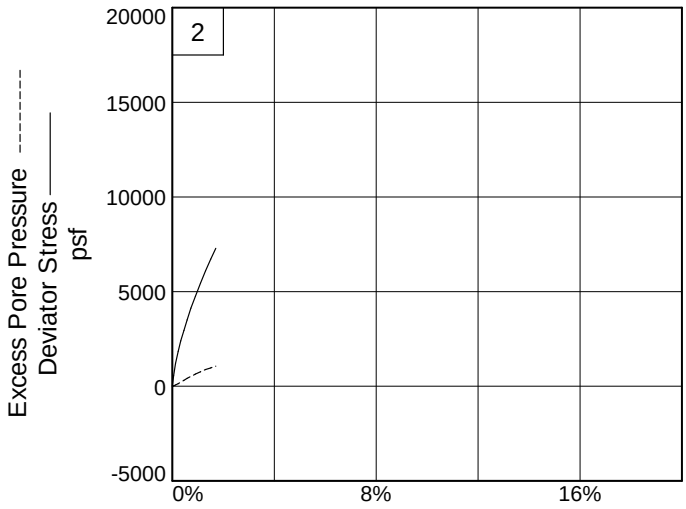
Sample Number: BW-4 T-3

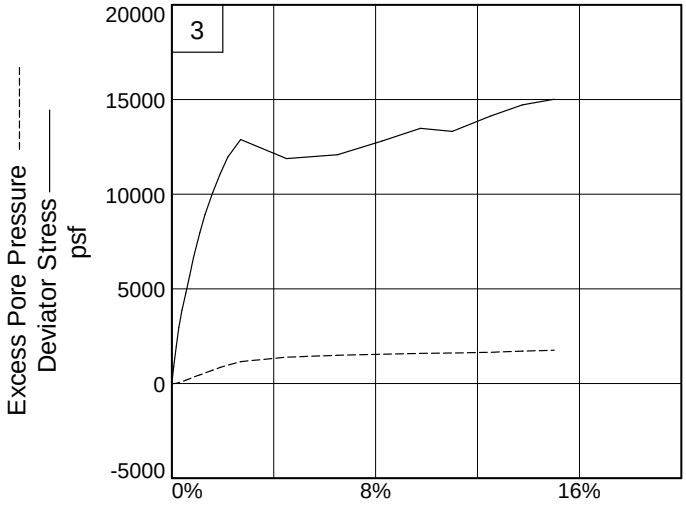
Proj. No.: 1511010228 **Date Sampled:**

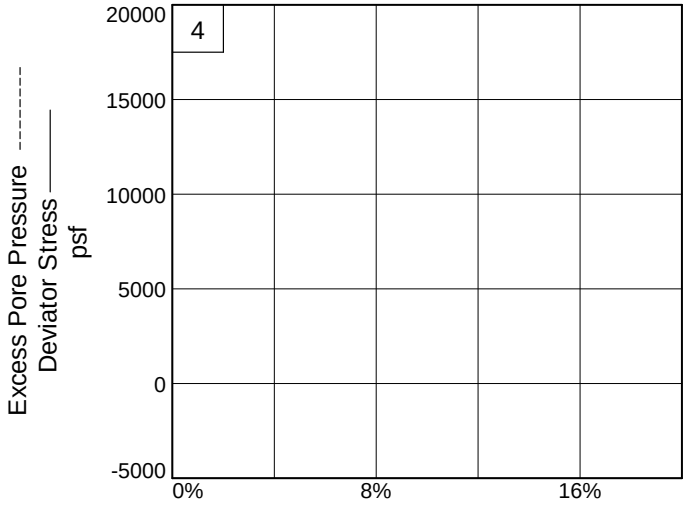
TRIAXIAL SHEAR TEST REPORT

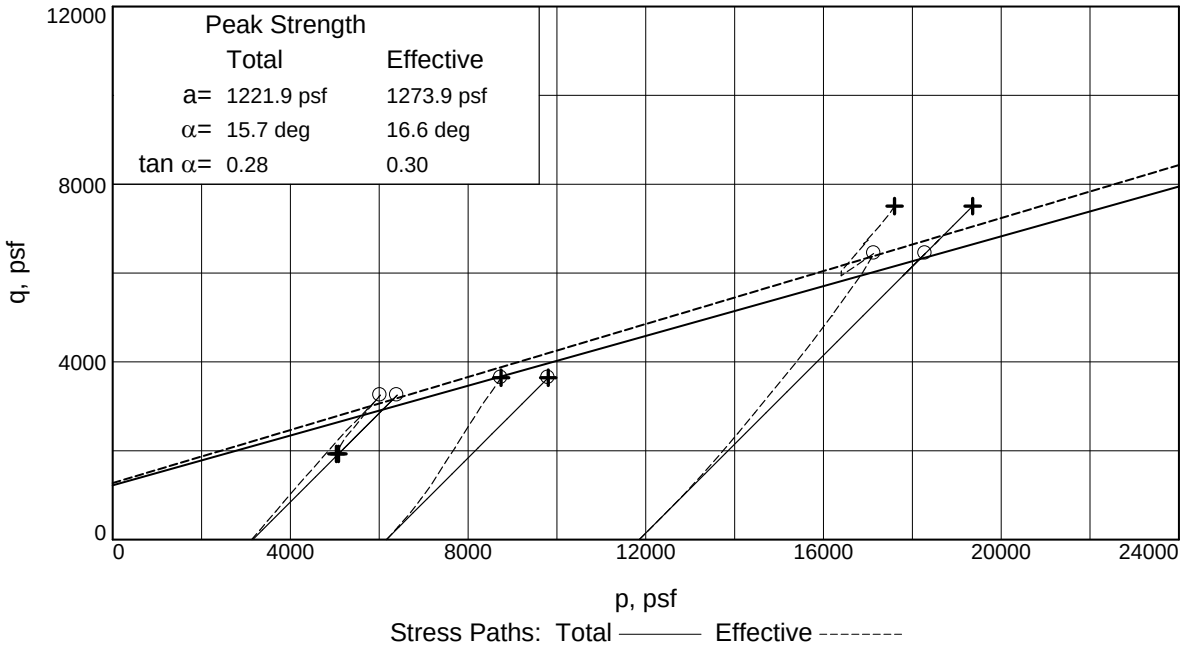
Thompson Engineering
Mobile, Alabama











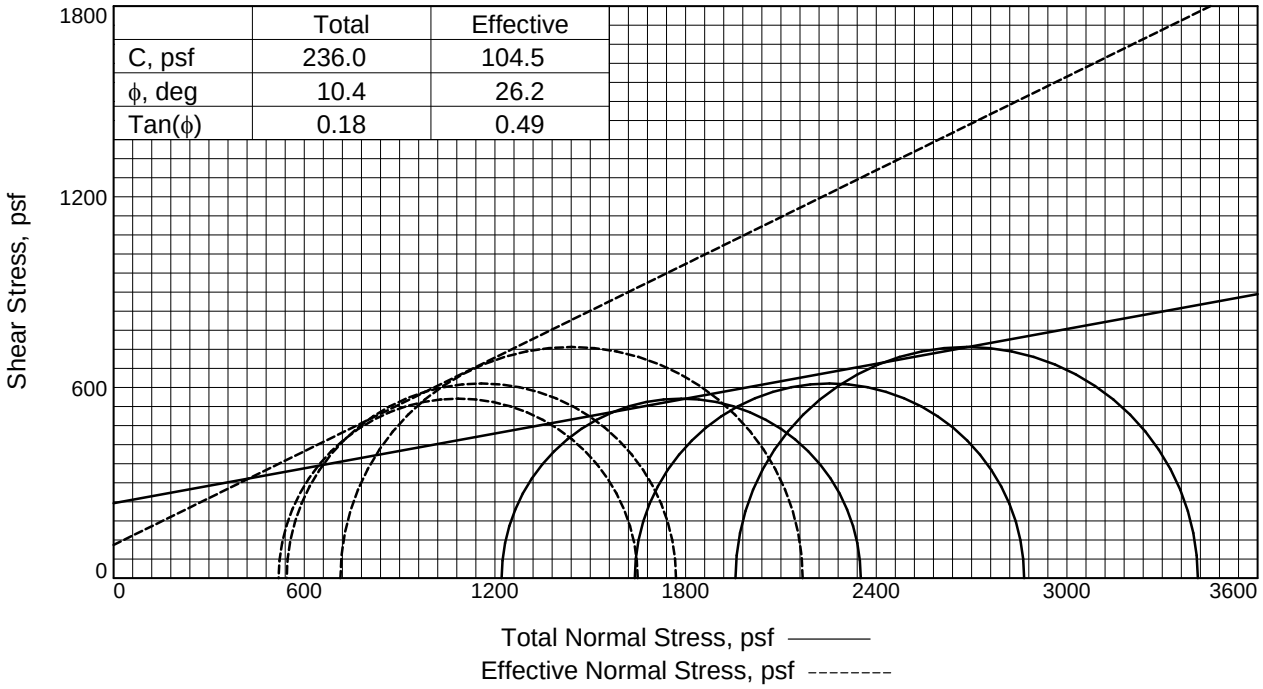
Client: ALDOT

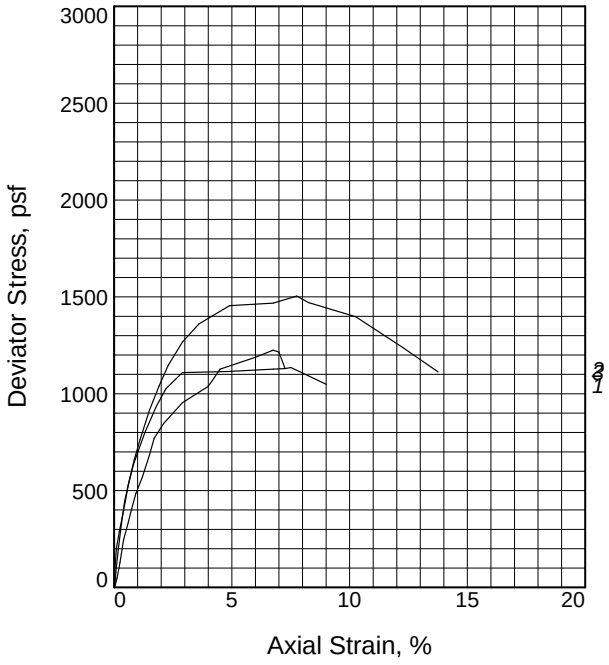
Project: Mobile River Bridge

Source of Sample: Lab #7905 **Depth:** 128.0'-130.0' **Sample Number:** BW-4 T-3

Project No.: 1511010228 **Figure** _____

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Specimen No.		1	2	3
Initial	Water Content, %	71.7	103.1	111.4
	Dry Density, pcf	58.1	44.6	41.5
	Saturation, %	102.7	100.9	98.8
	Void Ratio	1.8563	2.7195	2.9996
	Diameter, in.	1.441	1.443	1.448
	Height, in.	2.730	2.740	2.760
At Test	Water Content, %	69.8	102.2	112.8
	Dry Density, pcf	58.1	44.6	41.5
	Saturation, %	100.0	100.0	100.0
	Void Ratio	1.8563	2.7195	2.9996
	Diameter, in.	1.441	1.443	1.448
	Height, in.	2.730	2.740	2.760
Strain at peak, %		7.3	6.8	4.9
Eff. Cell Pressure, psf		1221.1	1640.2	1957.0
Fail. Stress, psf		1129.9	1225.2	1454.7
Excess Pore Pr., psf		701.8	1095.6	1243.3
Strain, %		7.3	6.8	4.9
Ult. Stress, psf		1129.9	1225.2	1454.7
Excess Pore Pr., psf		701.8	1095.6	1243.3
Strain, %		7.3	6.8	4.9
$\bar{\sigma}_1$ Failure, psf		1649.2	1769.7	2168.4
$\bar{\sigma}_3$ Failure, psf		519.3	544.5	713.6

Type of Test:
CU with Pore Pressures

Sample Type:

Description: ELASTIC SILT(MH A-7-5(163))

Specific Gravity= 2.66

Remarks:

Figure _____

Client: ALDOT

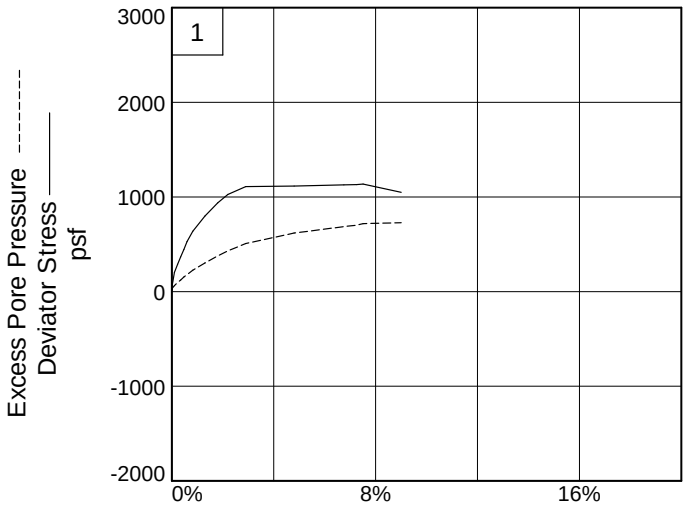
Project: Mobile River Bridge

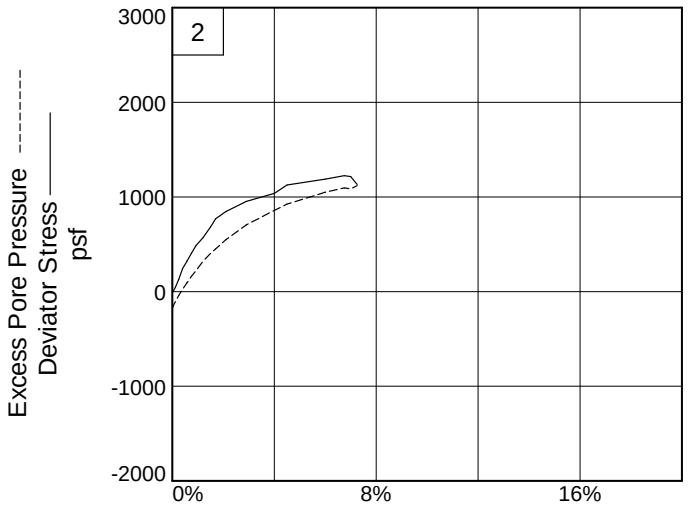
Source of Sample: Lab #7905 **Depth:** 33.5'-35.5'

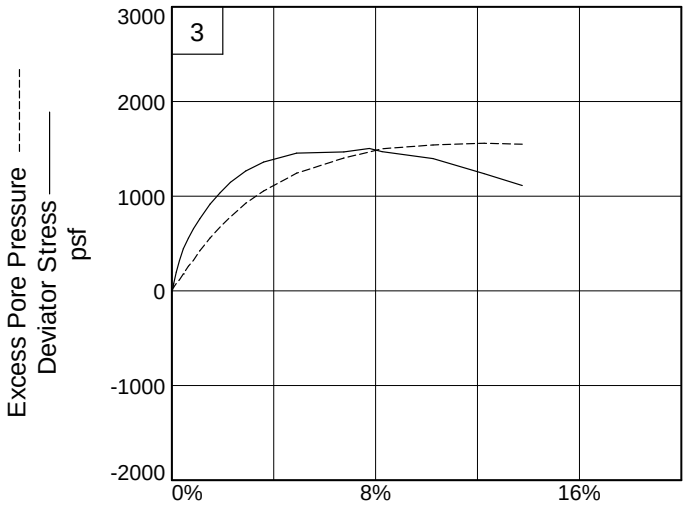
Sample Number: BW-7 T-3

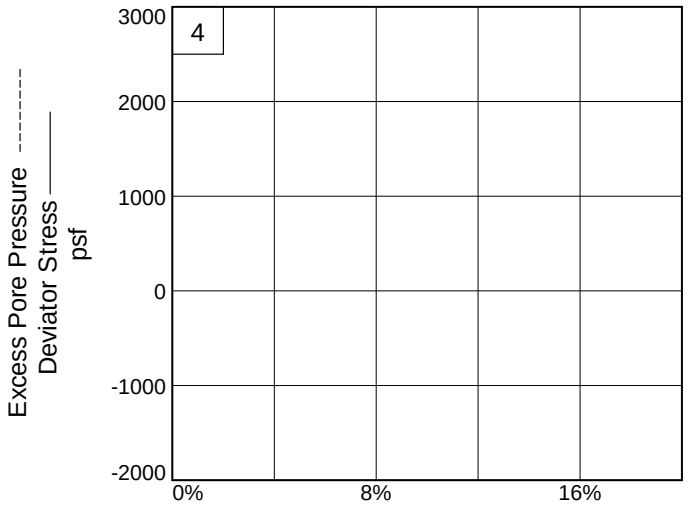
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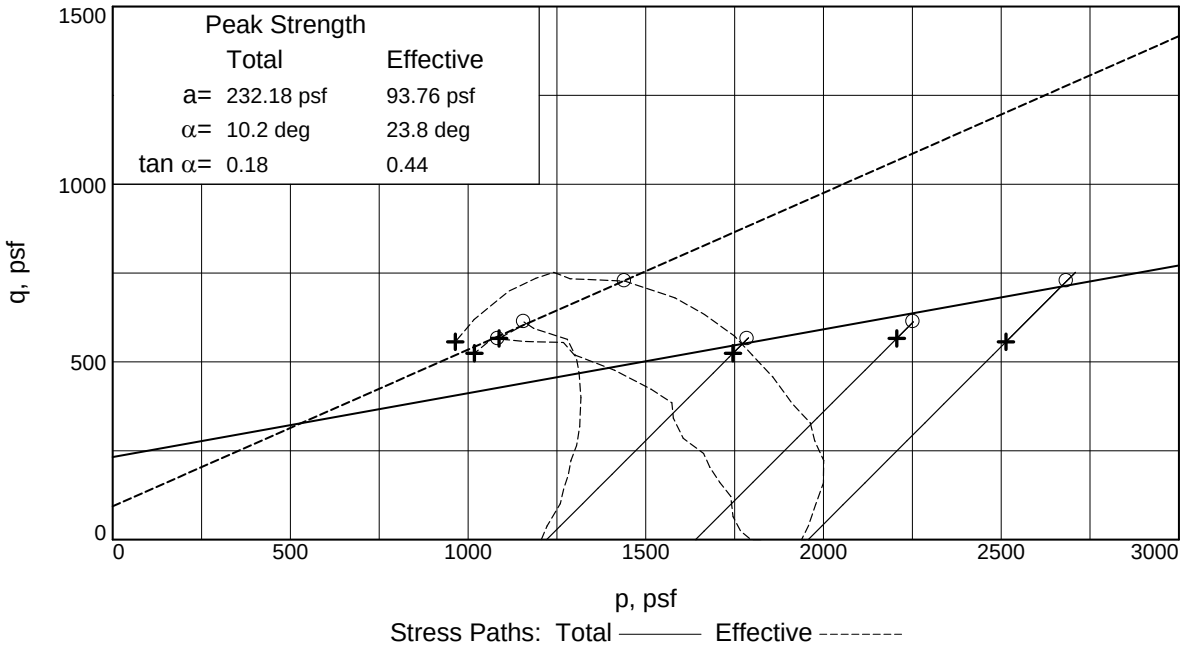
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Thompson Engineering
Mobile, Alabama











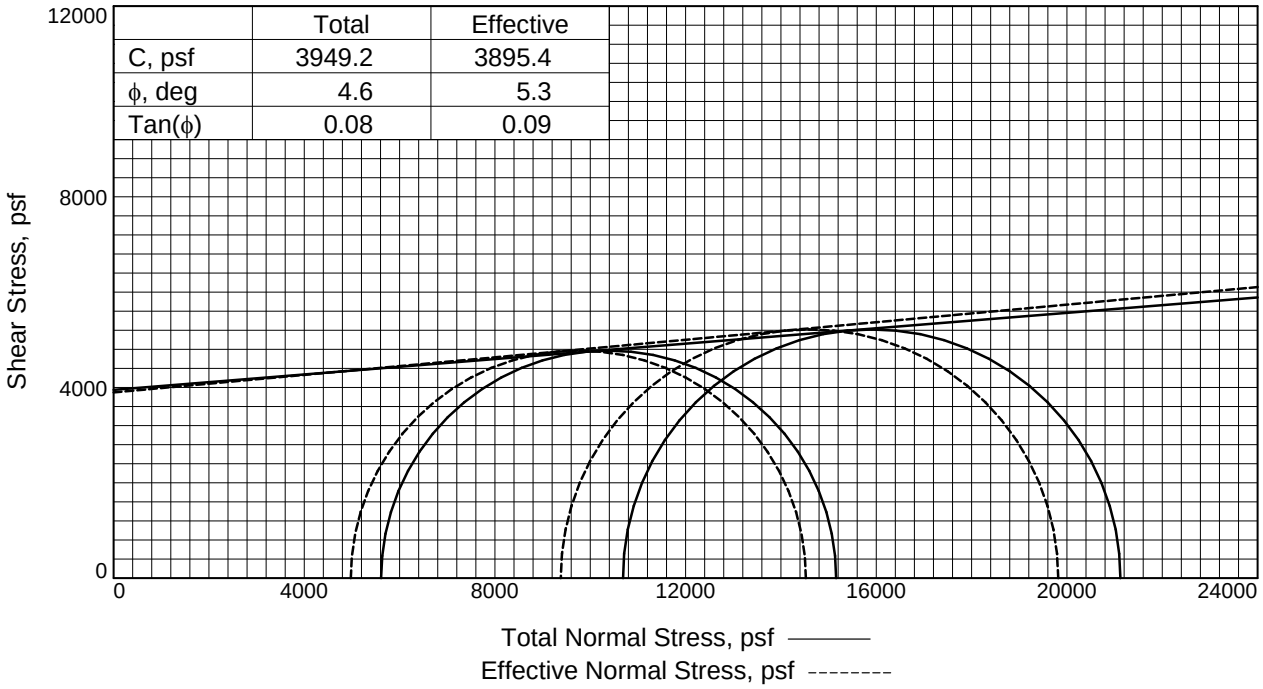
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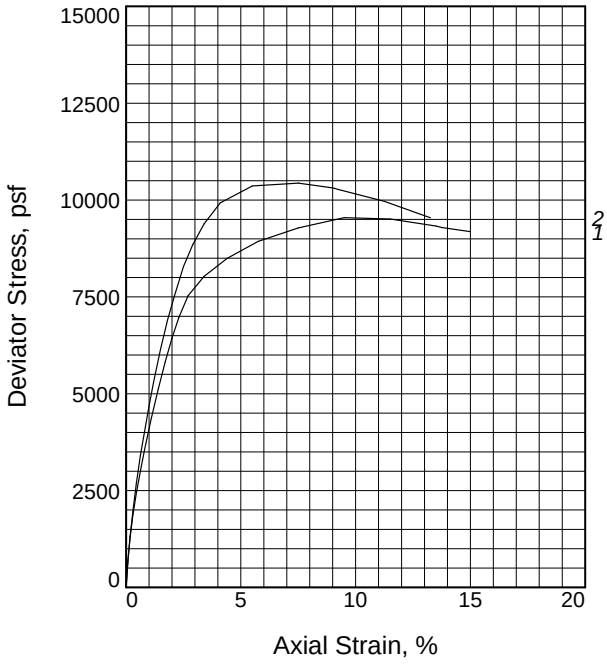
Project: Mobile River Bridge

Source of Sample: Lab #7905 **Depth:** 33.5'-35.5' **Sample Number:** BW-7 T-3

Project No.: 1511010228 **Figure** _____

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Specimen No.		1	2
Initial	Water Content, %	23.0	23.0
	Dry Density, pcf	105.3	106.5
	Saturation, %	106.2	109.1
	Void Ratio	0.5771	0.5595
	Diameter, in.	1.445	1.451
	Height, in.	2.780	2.760
At Test	Water Content, %	23.8	22.6
	Dry Density, pcf	105.3	106.5
	Saturation, %	109.7	107.3
	Void Ratio	0.5771	0.5595
	Diameter, in.	1.445	1.451
	Height, in.	2.780	2.760
Strain at peak, %		9.5	7.5
Eff. Cell Pressure, psf		5611.7	10686.2
Fail. Stress, psf		9546.3	10435.8
Excess Pore Pr., psf		635.5	1305.8
Strain, %		9.5	7.5
Ult. Stress, psf		9546.3	10435.8
Excess Pore Pr., psf		635.5	1305.8
Strain, %		9.5	7.5
$\bar{\sigma}_1$ Failure, psf		14522.5	19816.2
$\bar{\sigma}_3$ Failure, psf		4976.2	9380.4

Type of Test:
CU with Pore Pressures

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(28))

Specific Gravity= 2.66

Remarks: Speciment #3 Was disturbed, and had very low shear value. Result was removed from report.

Figure _____

Client: ALDOT

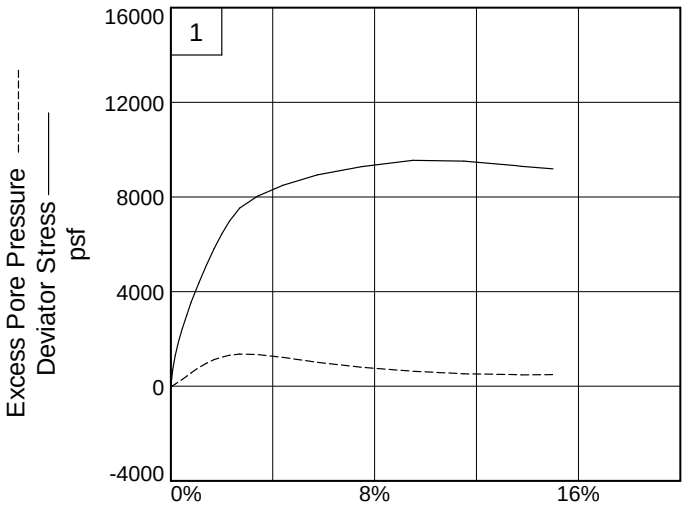
Project: Mobile River Bridge

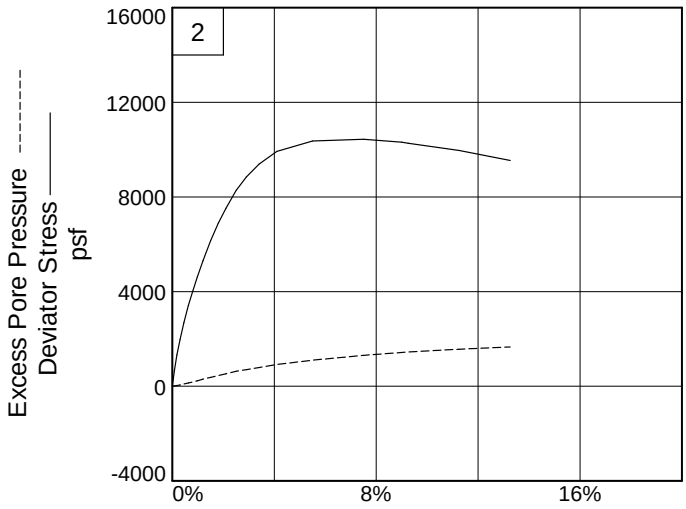
Source of Sample: Lab #7928 **Depth:** 110.0'-112.0'

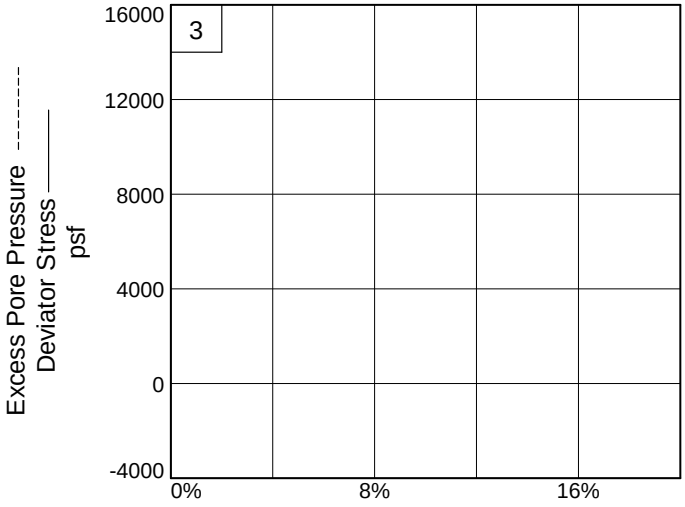
Sample Number: BW-10 T-7

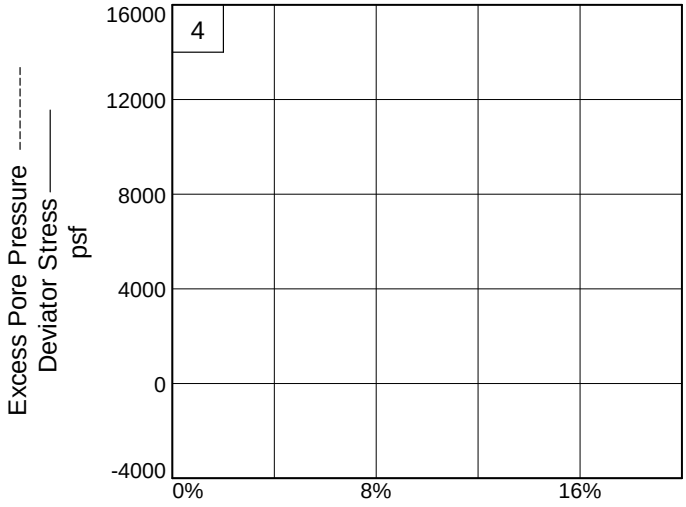
Proj. No.: 1511010228 **Date Sampled:**

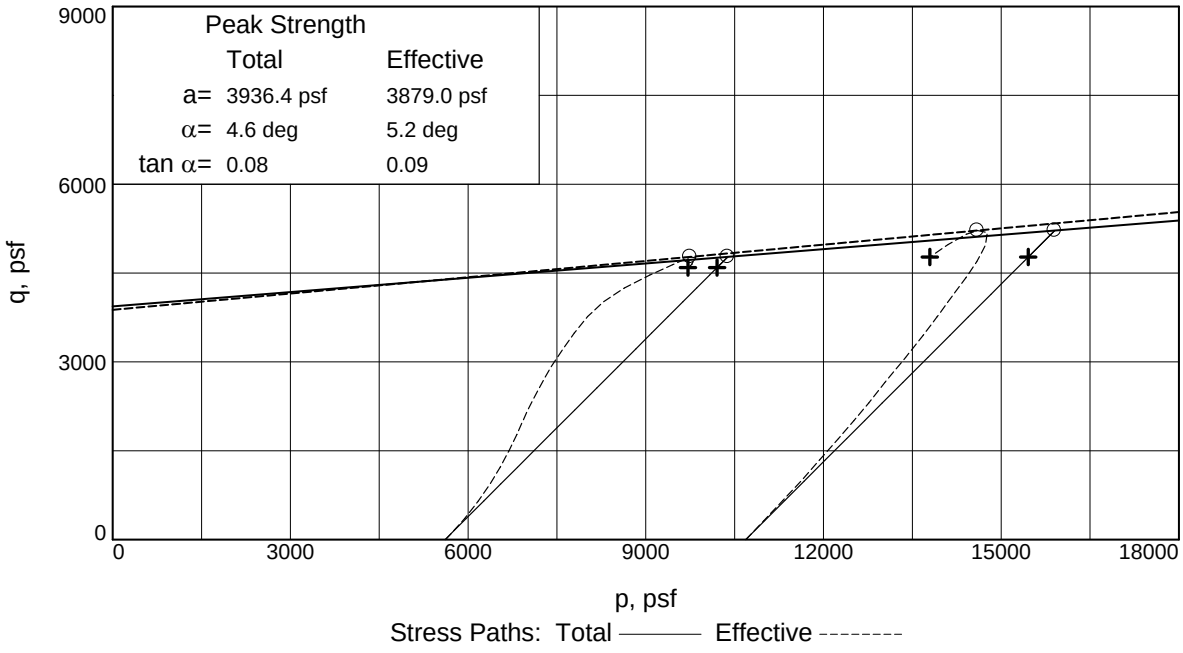
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Thompson Engineering
Mobile, Alabama











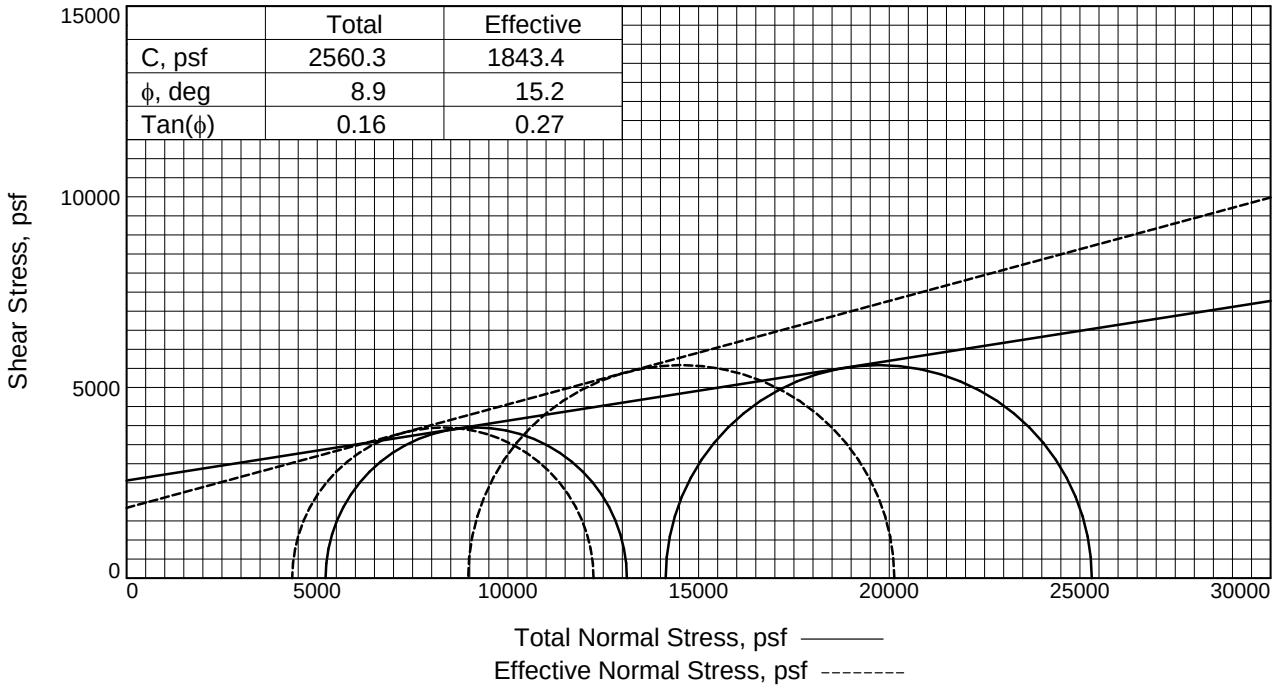
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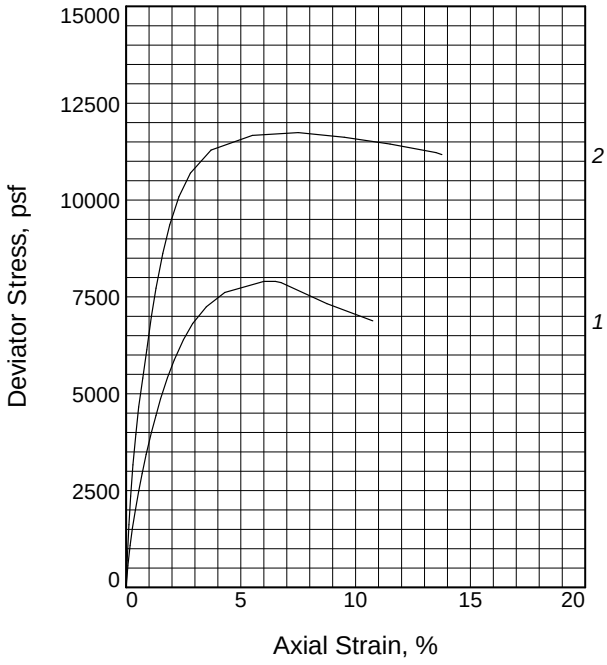
Project: Mobile River Bridge

Source of Sample: Lab #7928 **Depth:** 110.0'-112.0' **Sample Number:** BW-10 T-7

Project No.: 1511010228 **Figure** _____

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Specimen No.		1	2
Initial	Water Content, %	22.4	23.3
	Dry Density, pcf	108.2	104.6
	Saturation, %	111.6	105.4
	Void Ratio	0.5348	0.5882
	Diameter, in.	1.444	1.450
	Height, in.	2.770	2.780
At Test	Water Content, %	23.1	23.0
	Dry Density, pcf	108.2	104.6
	Saturation, %	115.0	104.0
	Void Ratio	0.5348	0.5882
	Diameter, in.	1.444	1.450
	Height, in.	2.770	2.780
Strain at peak, %		6.0	13.8
Back Pressure, psf		1690.6	1843.2
Cell Pressure, psf		6907.7	15978.2
Fail. Stress, psf		7901.5	11174.4
Excess Pore Pr., psf		873.8	5178.4
Ult. Stress, psf			11174.4
Excess Pore Pr., psf			5178.4
$\bar{\sigma}_1$ Failure, psf		12244.8	20131.0
$\bar{\sigma}_3$ Failure, psf		4343.3	8956.6

Type of Test:
CU with Pore Pressures

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(38))

Specific Gravity= 2.66

Remarks: Specimen 2 disturbed, result removed from report.

Figure _____

Client: ALDOT

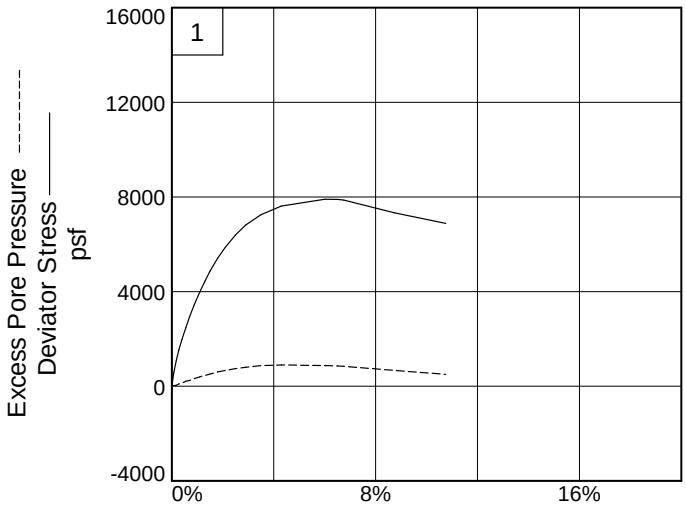
Project: Mobile River Bridge

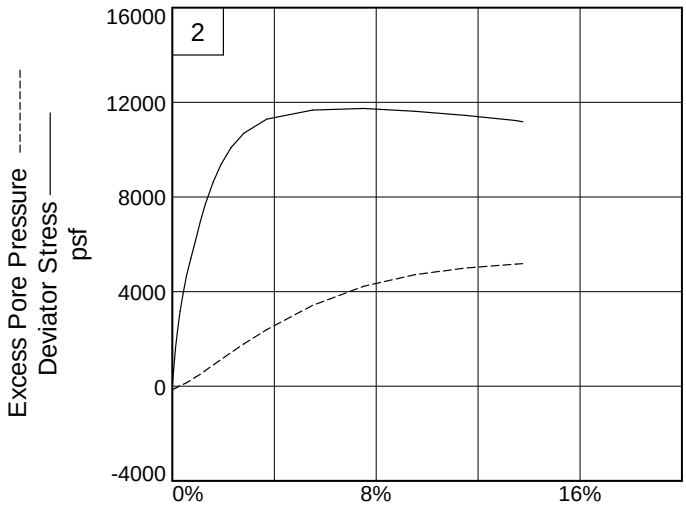
Source of Sample: Lab #7928 **Depth:** 105.0'-107.0'

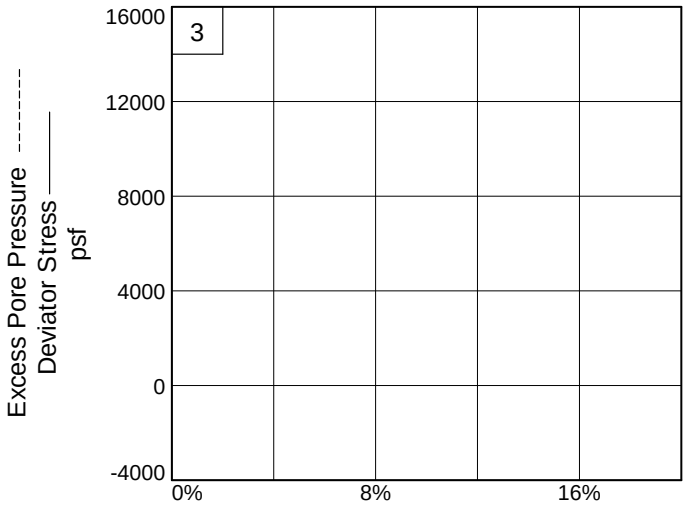
Sample Number: BW-11 T-6

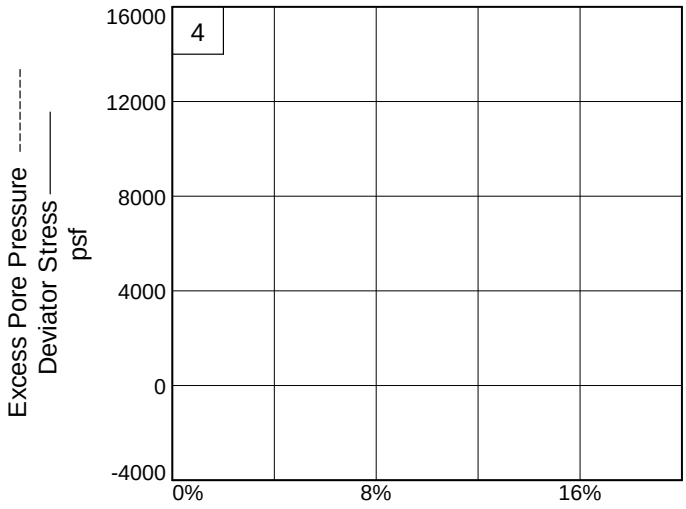
Proj. No.: 1511010228 **Date Sampled:**

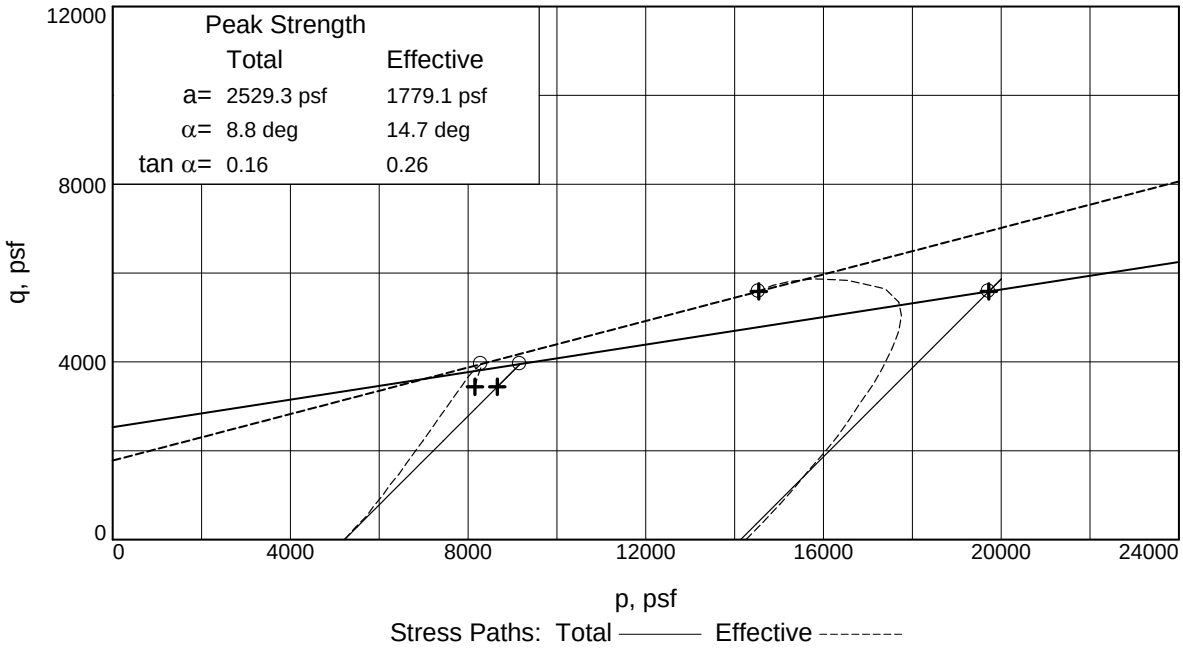
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Thompson Engineering
Mobile, Alabama











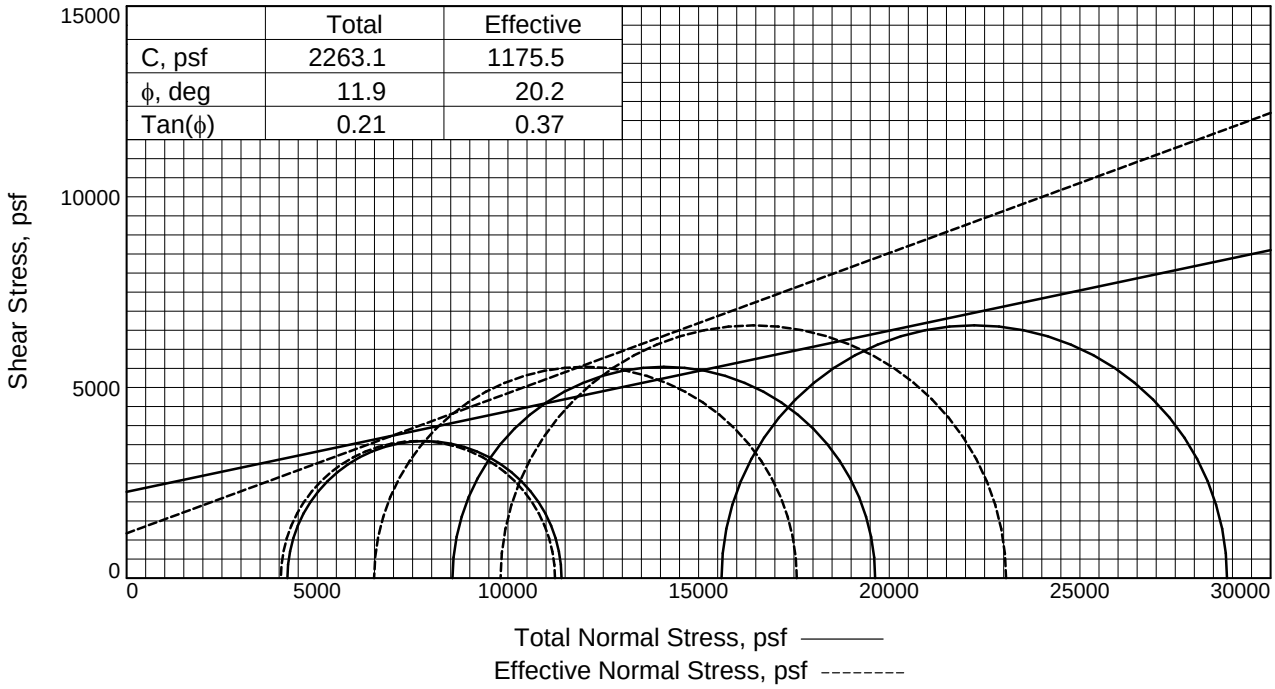
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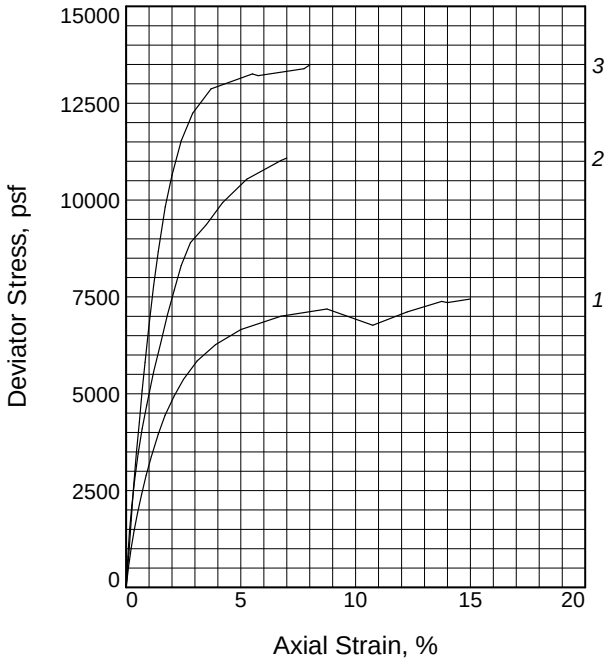
Project: Mobile River Bridge

Source of Sample: Lab #7928 **Depth:** 105.0'-107.0' **Sample Number:** BW-11 T-6

Project No.: 1511010228 **Figure** _____

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Specimen No.		1	2	3
Initial	Water Content, %	19.0	17.3	20.4
	Dry Density, pcf	106.2	109.0	105.4
	Saturation, %	89.9	87.7	94.2
	Void Ratio	0.5634	0.5236	0.5754
	Diameter, in.	1.470	1.346	1.352
	Height, in.	2.800	2.800	2.780
At Test	Water Content, %	21.8	19.7	21.4
	Dry Density, pcf	106.2	109.0	105.4
	Saturation, %	102.8	100.2	99.1
	Void Ratio	0.5634	0.5236	0.5754
	Diameter, in.	1.470	1.346	1.352
	Height, in.	2.800	2.800	2.780
Strain at peak, %		8.8	7.0	5.5
Eff. Cell Pressure, psf		4216.3	8546.4	15599.5
Fail. Stress, psf		7188.5	11083.8	13256.1
Excess Pore Pr., psf		170.6	2055.9	5792.8
Strain, %		8.8	7.0	5.5
Ult. Stress, psf		7188.5	11083.8	13256.1
Excess Pore Pr., psf		170.6	2055.9	5792.8
Strain, %		8.8	7.0	5.5
$\bar{\sigma}_1$ Failure, psf		11234.2	17574.3	23062.9
$\bar{\sigma}_3$ Failure, psf		4045.7	6490.5	9806.7

Type of Test:
CU with Pore Pressures

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with GRAVEL(CH A-7-6(35))

Specific Gravity= 2.66

Remarks:

Figure _____

Client: ALDOT

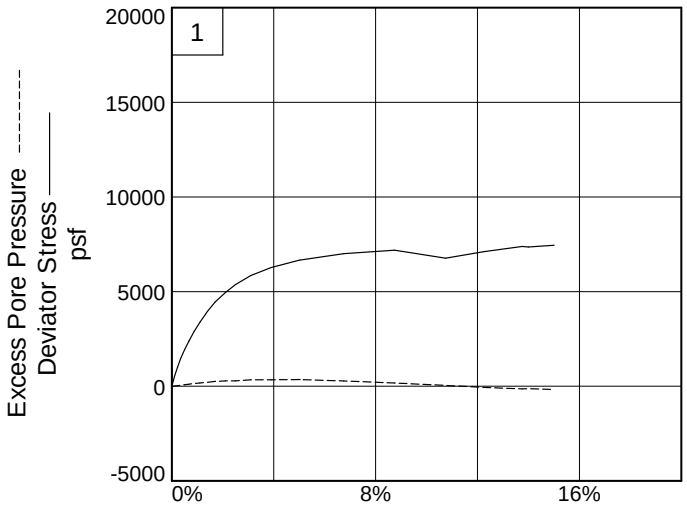
Project: Mobile River Bridge

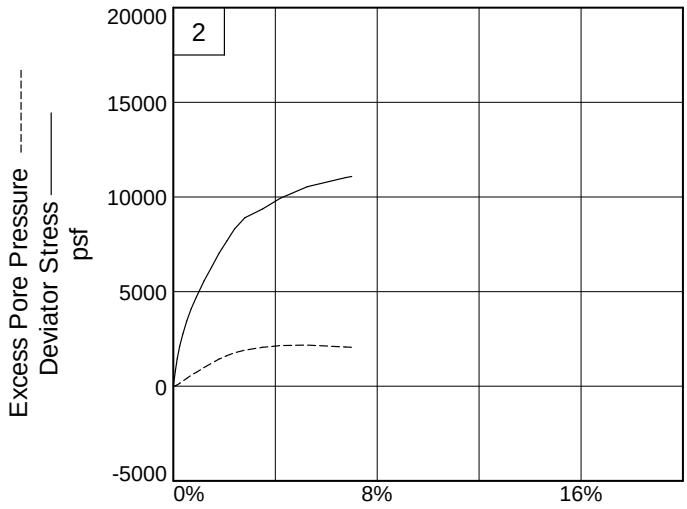
Source of Sample: Lab #7928 **Depth:** 88.0'-90.0'

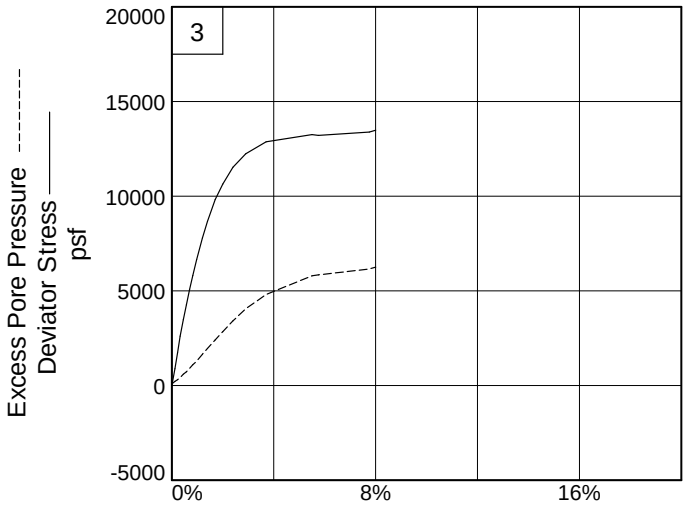
Sample Number: BW-12 T-4

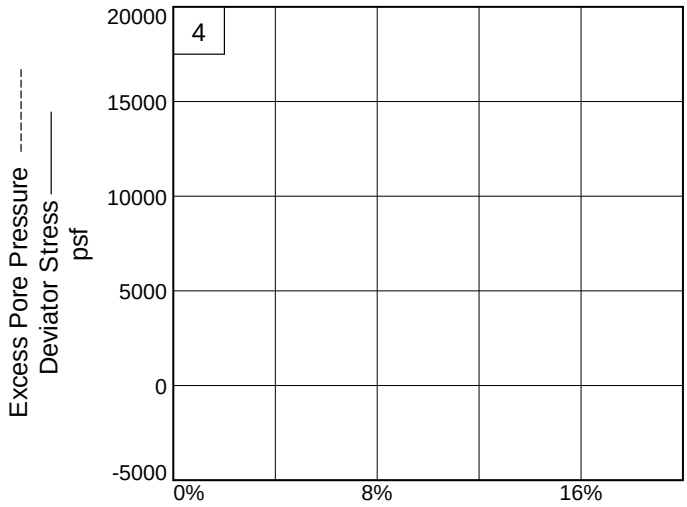
Proj. No.: 1511010228 **Date Sampled:**

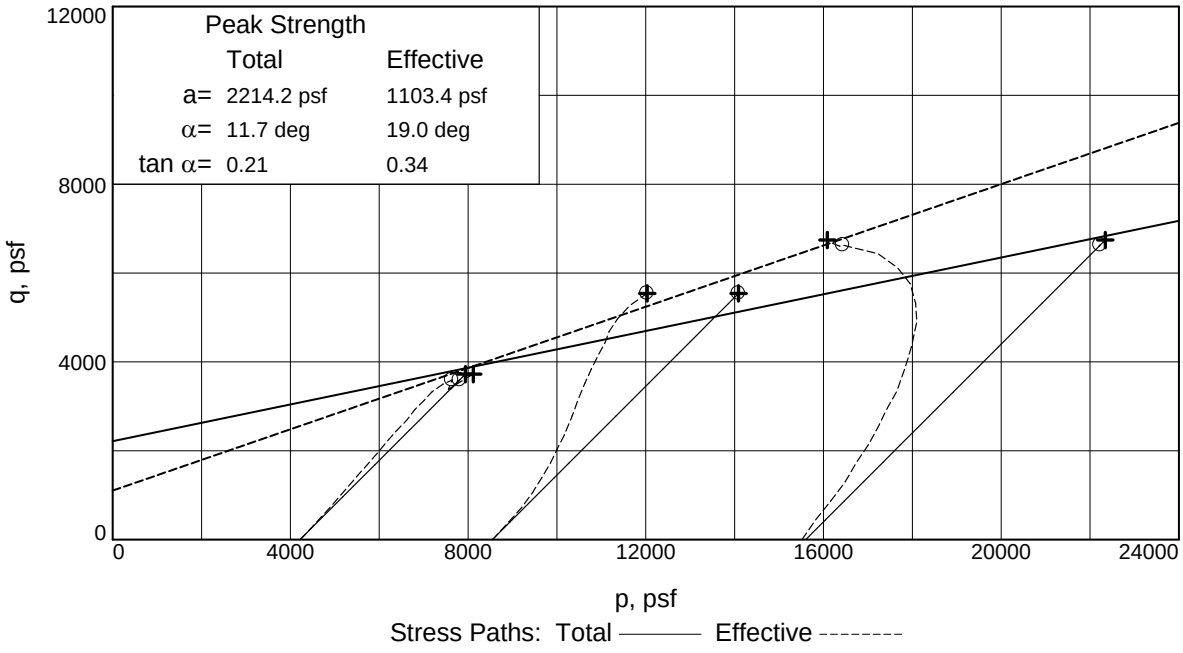
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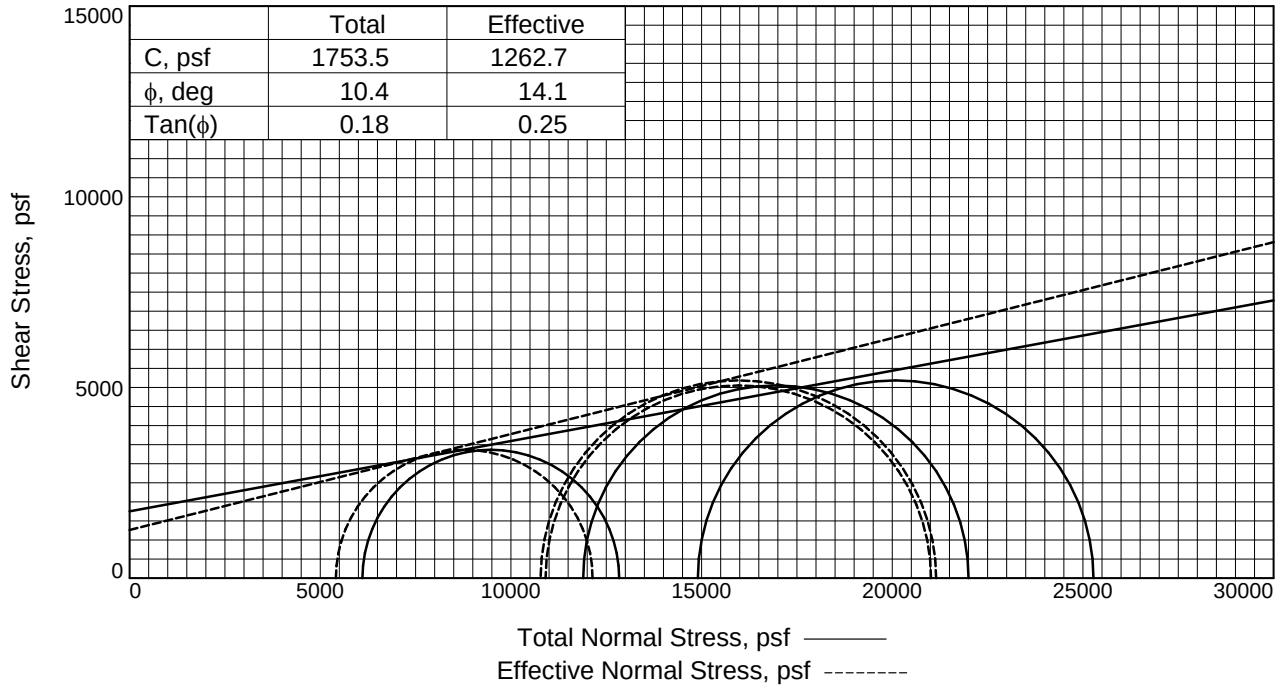
Client: ALDOT

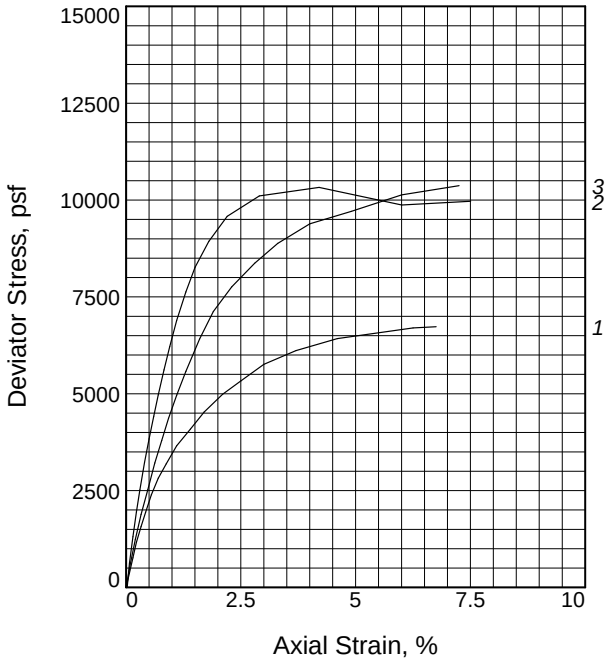
Project: Mobile River Bridge

Source of Sample: Lab #7928 **Depth:** 88.0'-90.0' **Sample Number:** BW-12 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1	2	3
Initial	Water Content, %	20.3	19.3	16.8
	Dry Density, pcf	109.2	111.2	117.1
	Saturation, %	103.9	104.3	106.7
	Void Ratio	0.5208	0.4928	0.4184
	Diameter, in.	1.403	1.409	1.403
	Height, in.	2.780	2.790	2.780
At Test	Water Content, %	22.0	20.6	17.1
	Dry Density, pcf	109.2	111.2	117.1
	Saturation, %	112.6	111.0	108.6
	Void Ratio	0.5208	0.4928	0.4184
	Diameter, in.	1.403	1.409	1.403
	Height, in.	2.780	2.790	2.780
Strain at peak, %		6.8	2.9	7.3
Eff. Cell Pressure, psf		6105.6	11893.0	14902.6
Fail. Stress, psf		6731.4	10106.4	10371.9
Excess Pore Pr., psf		696.7	984.6	4125.3
Strain, %		6.8	2.9	7.3
Ult. Stress, psf		6731.4	10106.4	10371.9
Excess Pore Pr., psf		696.7	984.6	4125.3
Strain, %		6.8	2.9	7.3
$\bar{\sigma}_1$ Failure, psf		12140.3	21014.7	21149.1
$\bar{\sigma}_3$ Failure, psf		5408.9	10908.3	10777.2

Type of Test:
CU with Pore Pressures

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(19))

Specific Gravity= 2.66

Remarks:

Figure _____

Client: ALDOT

Project: Mobile River Bridge

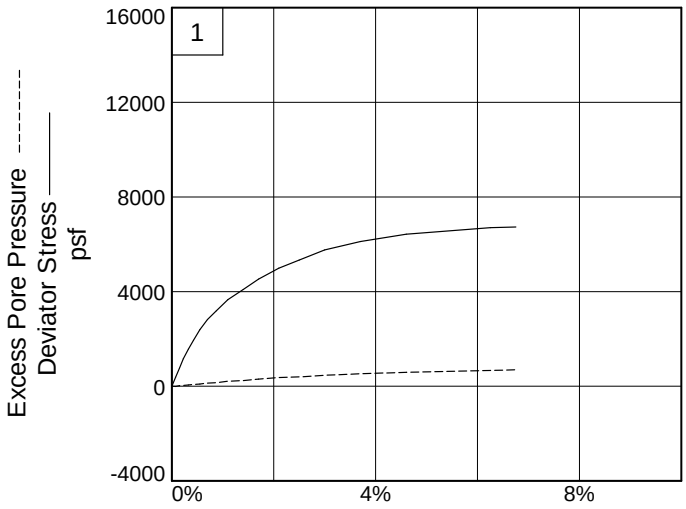
Source of Sample: Lab #7928 **Depth:** 123.0'-125.0'

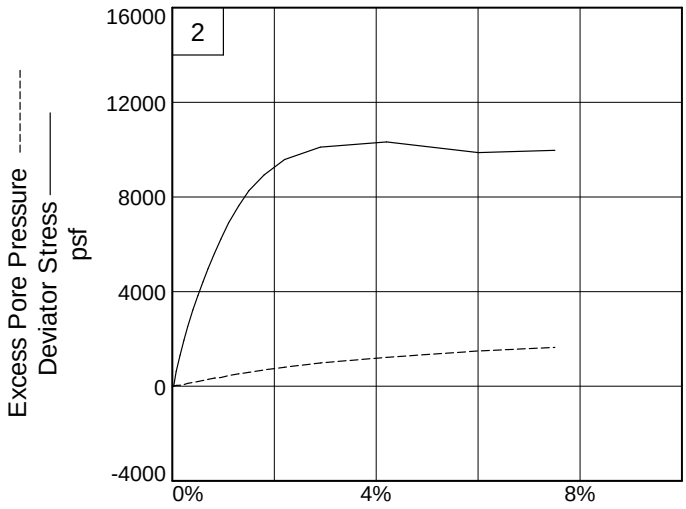
Sample Number: BW-12 T-8

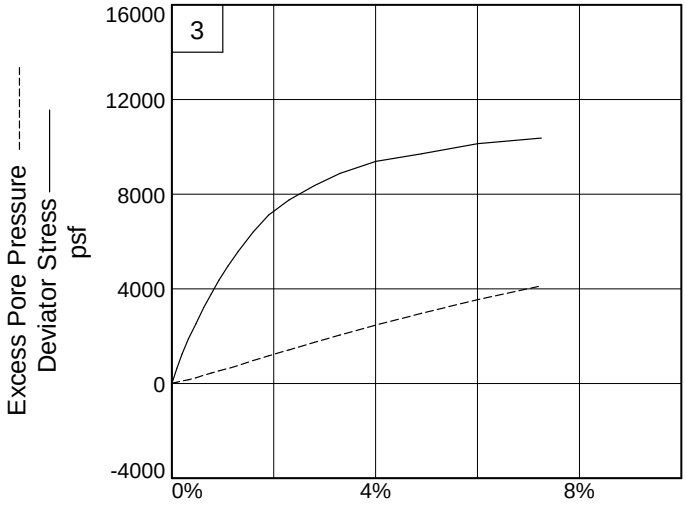
Proj. No.: 1511010228 **Date Sampled:**

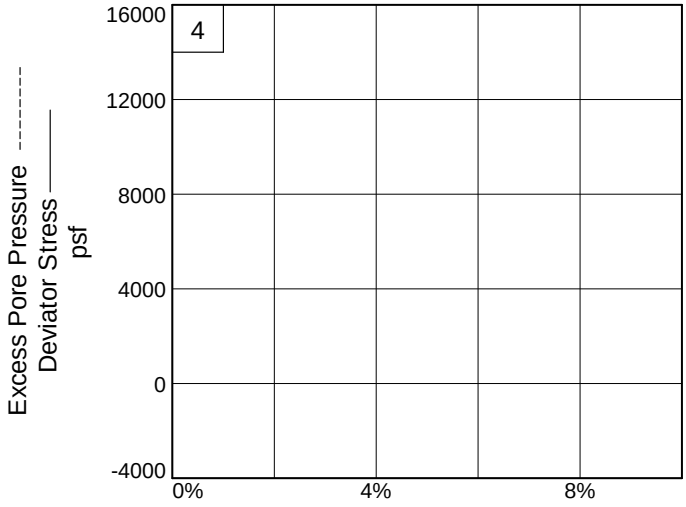
TRIAXIAL SHEAR TEST REPORT

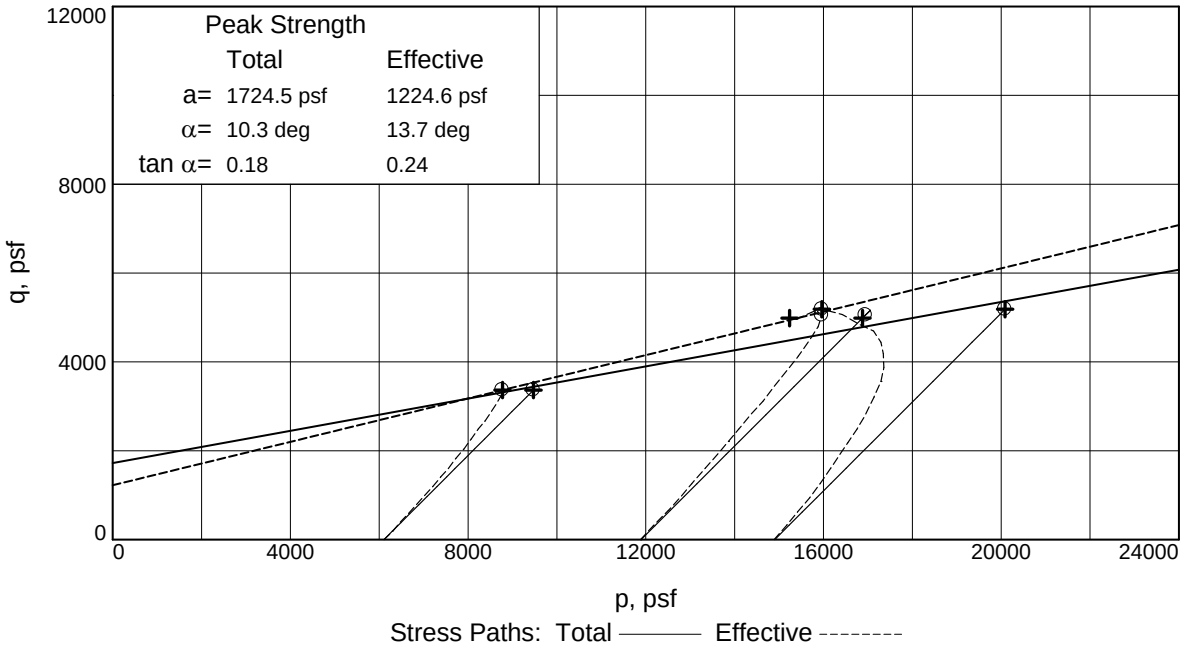
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Mobile, Alabama











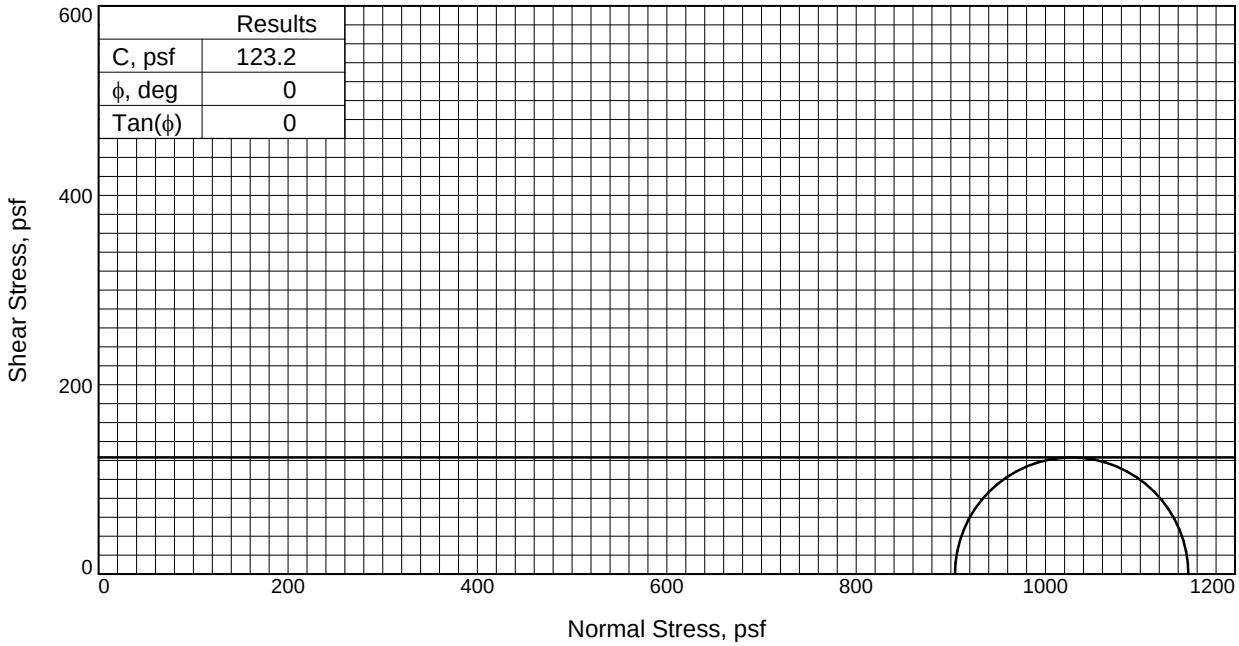
Client: ALDOT

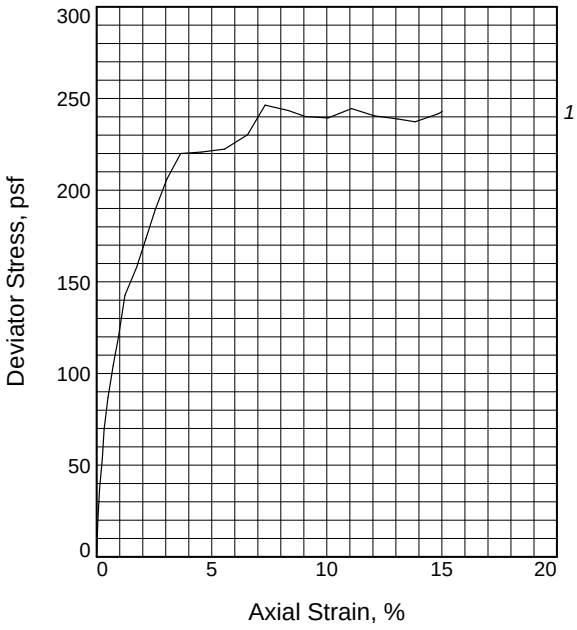
Project: Mobile River Bridge

Source of Sample: Lab #7928 **Depth:** 123.0'-125.0' **Sample Number:** BW-12 T-8

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	50.2
	Dry Density, pcf	74.5
	Saturation, %	108.6
	Void Ratio	1.2292
	Diameter, in.	2.780
	Height, in.	5.599
At Test	Water Content, %	47.8
	Dry Density, pcf	74.5
	Saturation, %	103.5
	Void Ratio	1.2292
	Diameter, in.	2.780
	Height, in.	5.599
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		904.3
Fail. Stress, psf		246.4
Strain, %		7.3
Ult. Stress, psf		246.4
Strain, %		7.3
σ_1 Failure, psf		1150.7
σ_3 Failure, psf		904.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(30))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

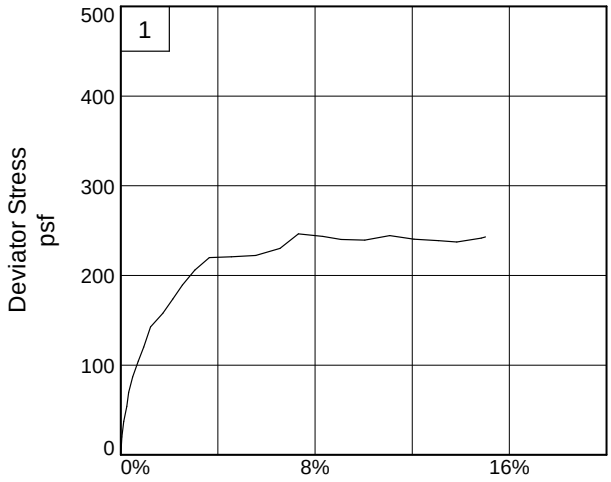
Project: Mobile River Bridge

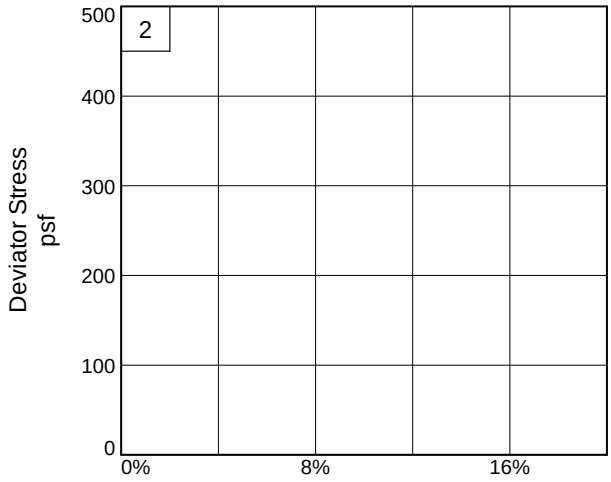
Source of Sample: Lab #7905 **Depth:** 18.0'-20.0'

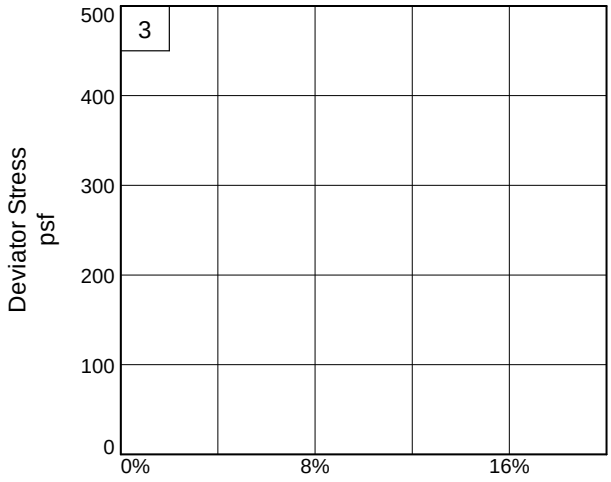
Sample Number: BW-4 T-1

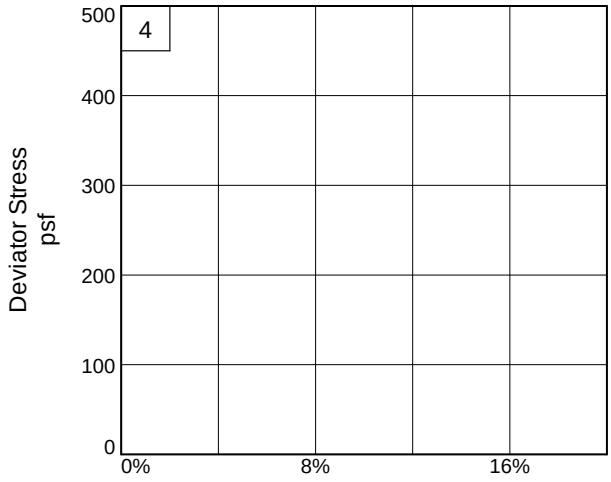
Proj. No.: 1511010228 **Date Sampled:**

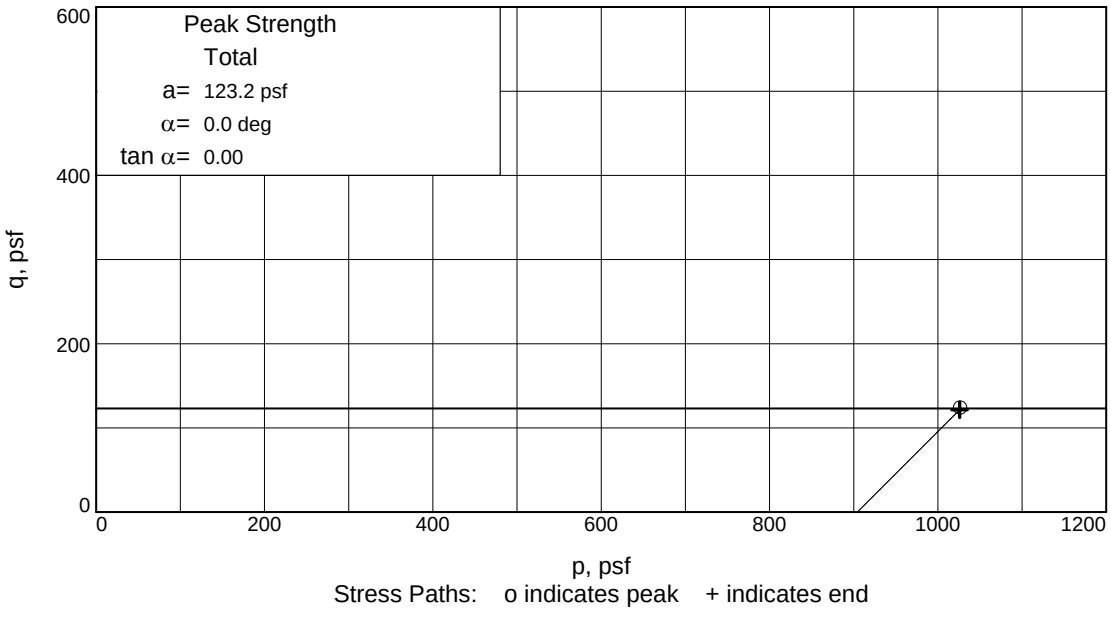
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Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

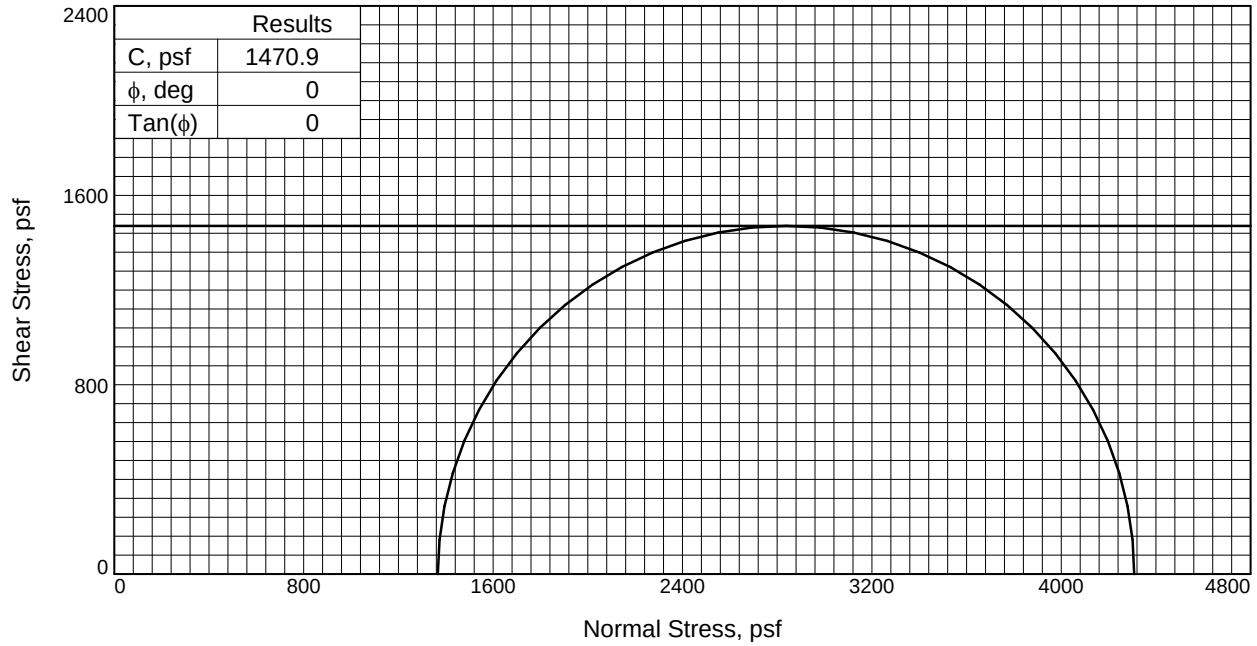
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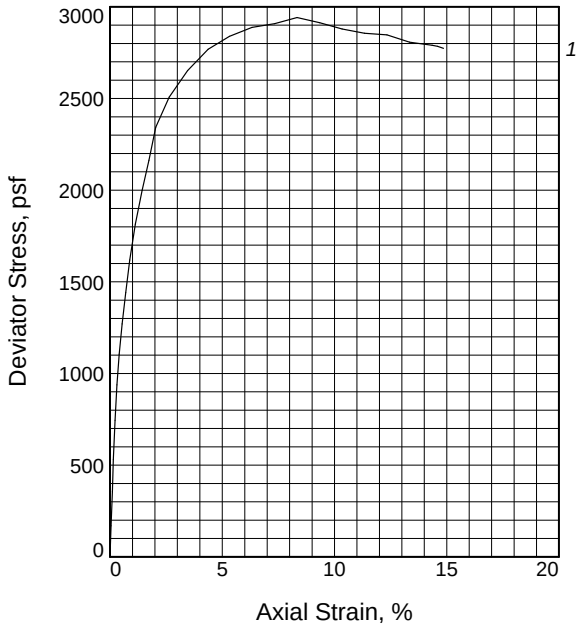
Project: Mobile River Bridge

Source of Sample: Lab #7905 **Depth:** 18.0'-20.0' **Sample Number:** BW-4 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	28.1
	Dry Density, pcf	96.8
	Saturation, %	107.2
	Void Ratio	0.6852
	Diameter, in.	2.799
	Height, in.	5.598
At Test	Water Content, %	30.4
	Dry Density, pcf	96.8
	Saturation, %	116.1
	Void Ratio	0.6852
	Diameter, in.	2.799
	Height, in.	5.598
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		1366.6
Fail. Stress, psf		2941.8
Strain, %		8.3
Ult. Stress, psf		2941.8
Strain, %		8.3
σ_1 Failure, psf		4308.4
σ_3 Failure, psf		1366.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(35))

Specific Gravity= 2.612

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

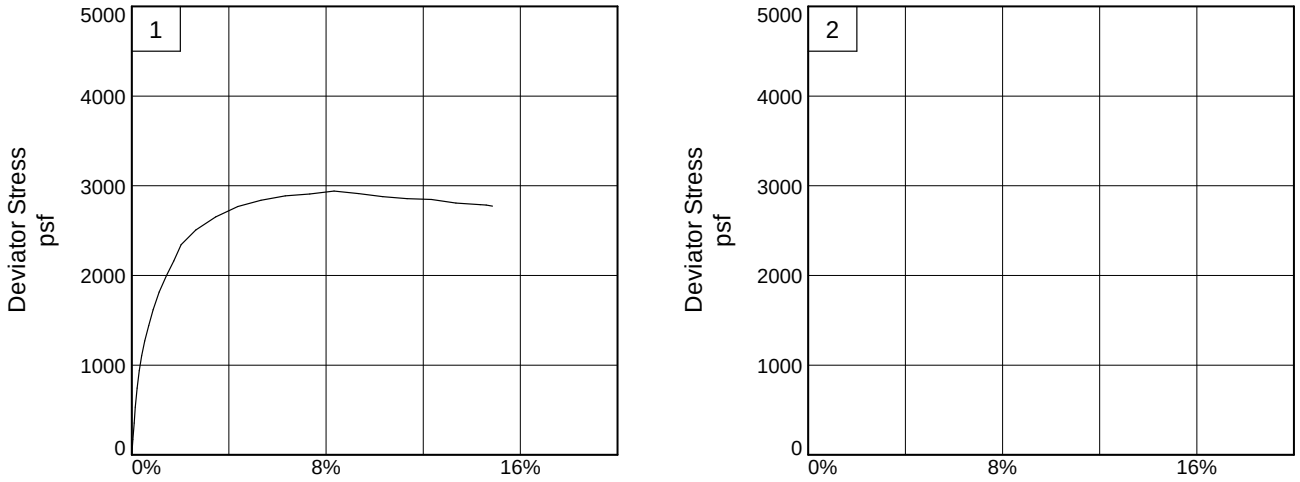
Project: Mobile River Bridge

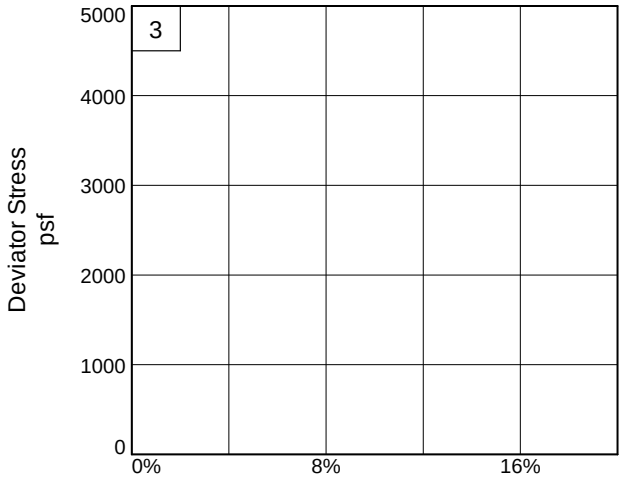
Source of Sample: Lab #7905 **Depth:** 28.0'-30.0'

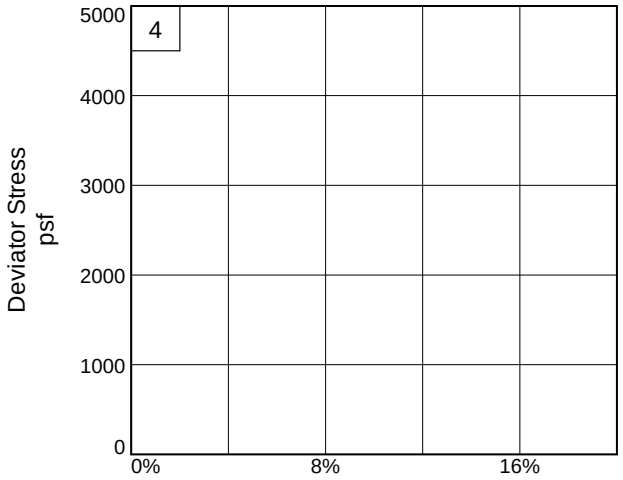
Sample Number: BW-4 T-2

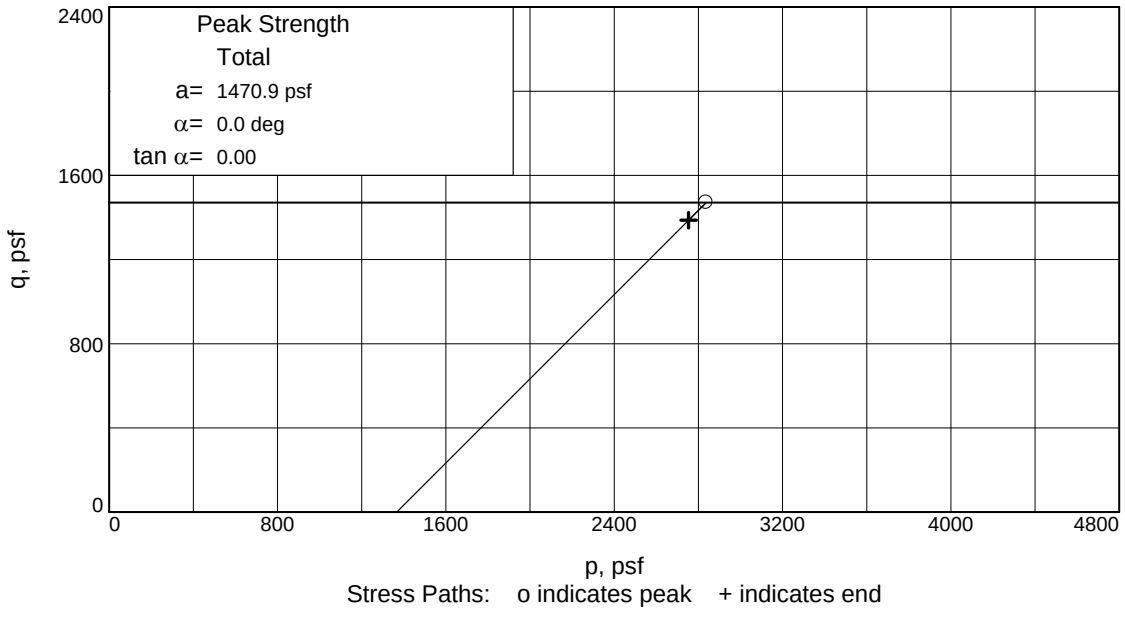
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama





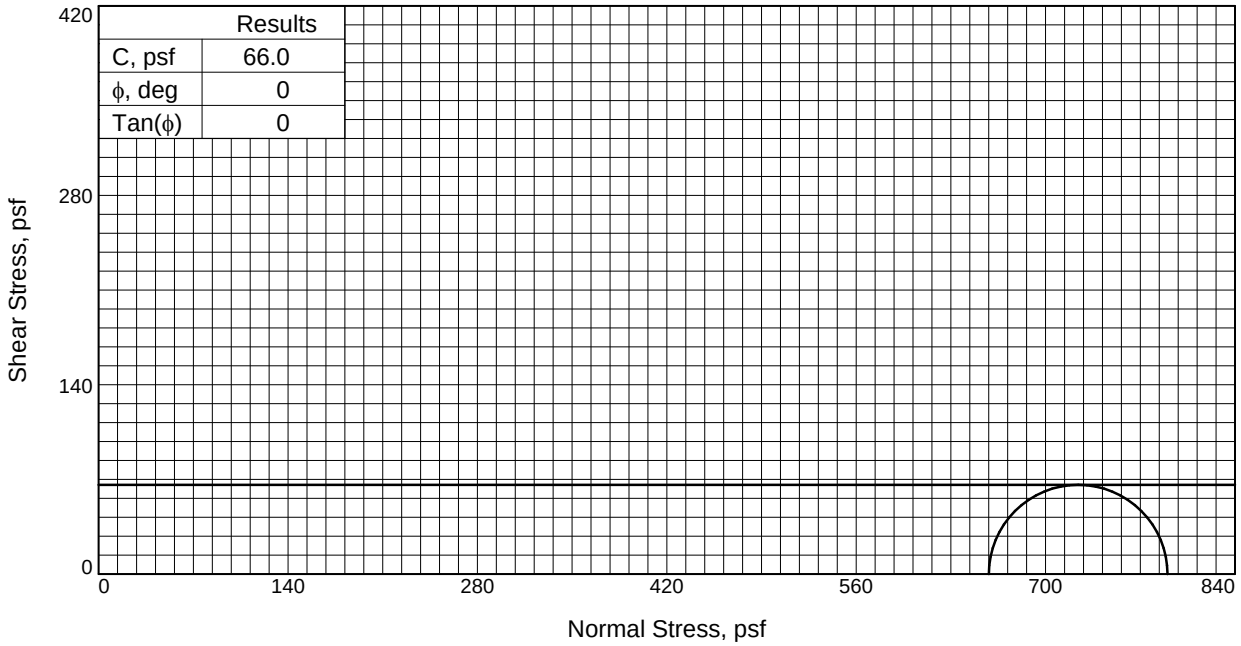


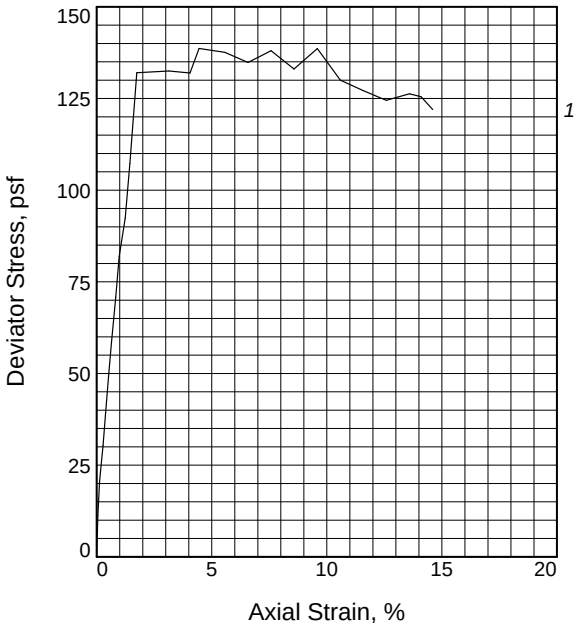


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7905 **Depth:** 28.0'-30.0' **Sample Number:** BW-4 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	118.7
	Dry Density, pcf	40.7
	Saturation, %	102.6
	Void Ratio	3.0755
	Diameter, in.	2.792
	Height, in.	5.590
At Test	Water Content, %	120.6
	Dry Density, pcf	40.7
	Saturation, %	104.3
	Void Ratio	3.0755
	Diameter, in.	2.792
	Height, in.	5.590
Strain at peak, %		1.7
Back Pressure, psf		0.0
Cell Pressure, psf		658.1
Fail. Stress, psf		132.0
Strain, %		1.7
Ult. Stress, psf		132.0
Strain, %		1.7
σ_1 Failure, psf		790.1
σ_3 Failure, psf		658.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(103))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

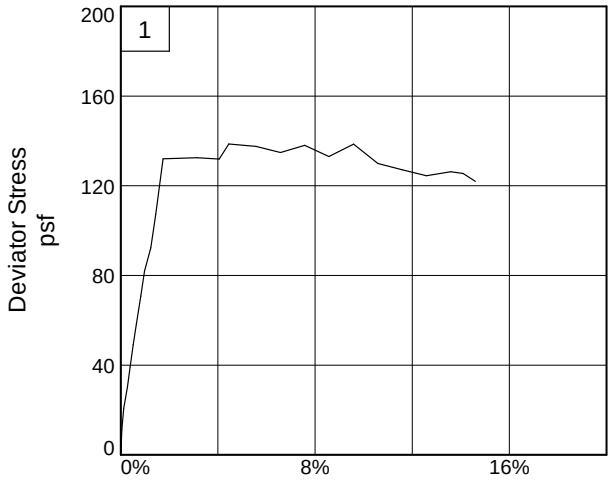
Project: Mobile River Bridge

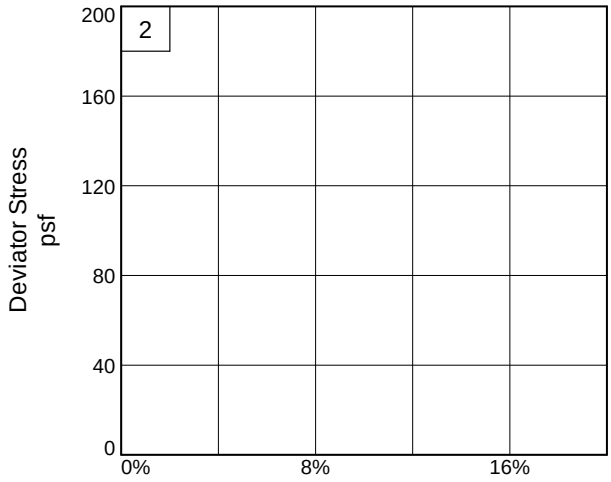
Source of Sample: Lab #7905 **Depth:** 13.5'-15.5'

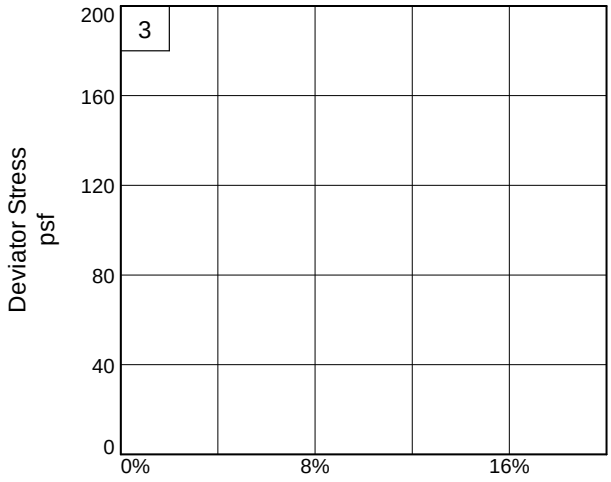
Sample Number: BW-7 T-1

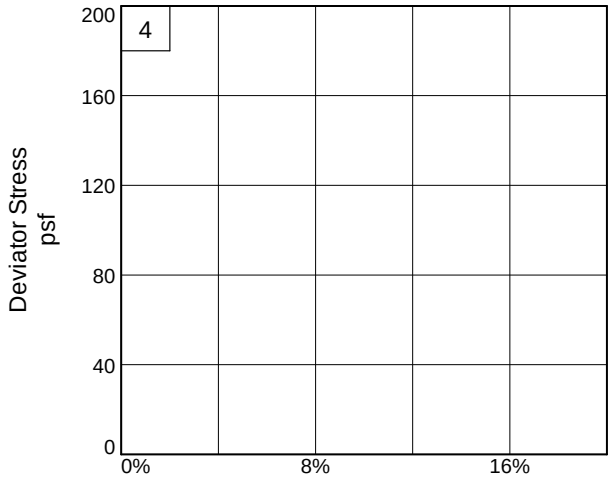
Proj. No.: 1511010228 **Date Sampled:**

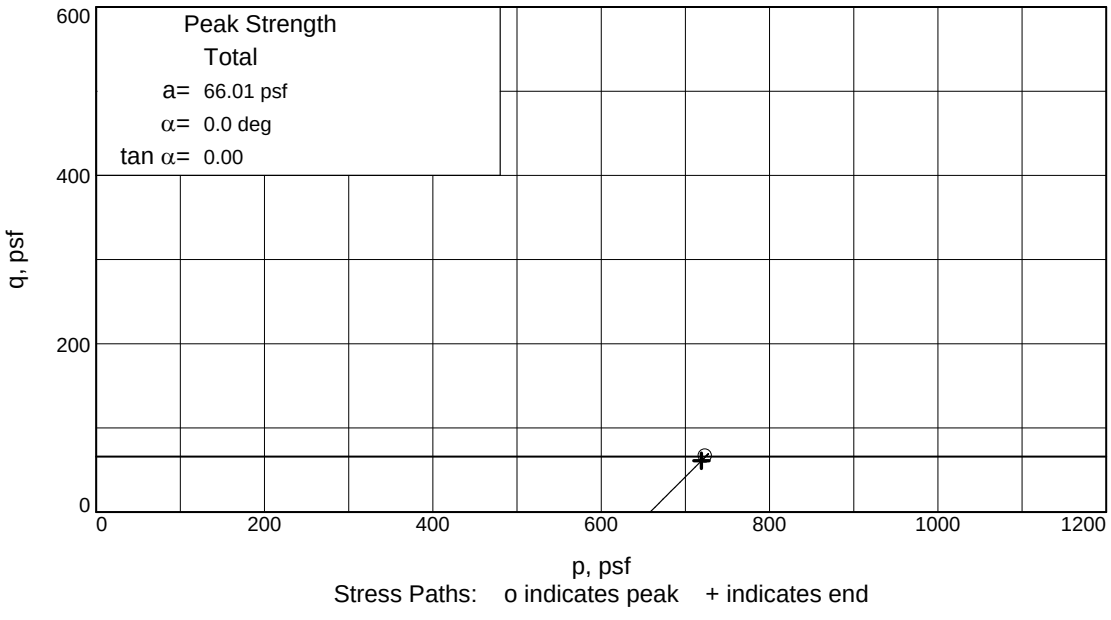
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Mobile, Alabama







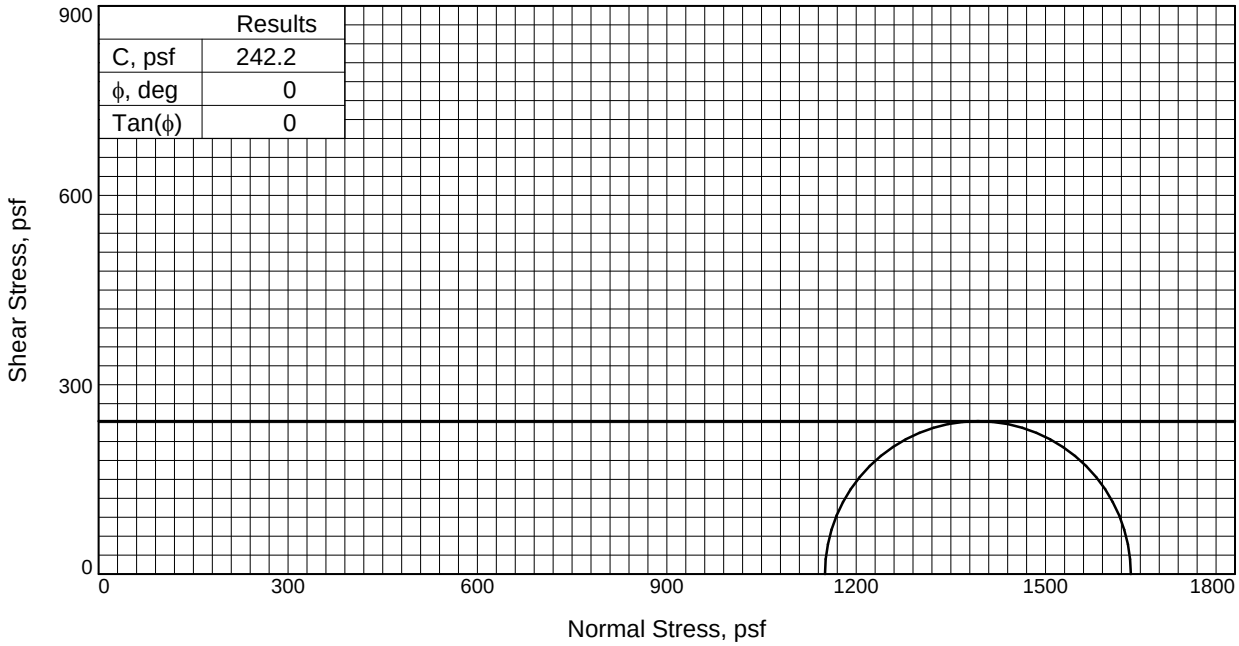


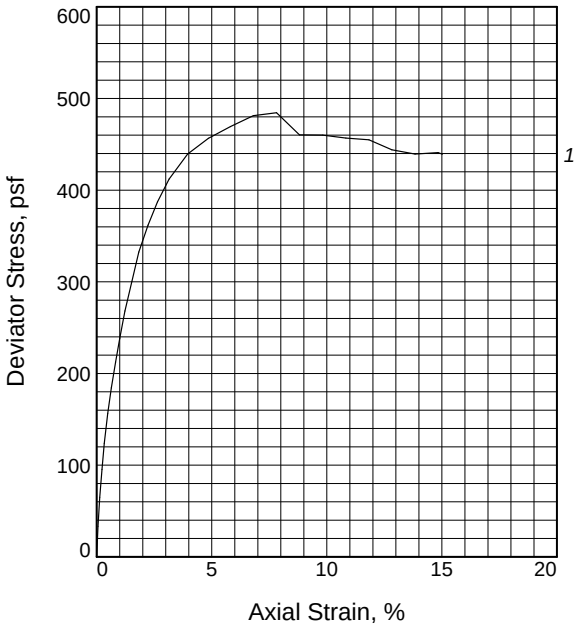


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7905 **Depth:** 13.5'-15.5' **Sample Number:** BW-7 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	37.4
	Dry Density, pcf	84.2
	Saturation, %	102.5
	Void Ratio	0.9711
	Diameter, in.	2.830
	Height, in.	5.554
At Test	Water Content, %	41.1
	Dry Density, pcf	84.2
	Saturation, %	112.6
	Void Ratio	0.9711
	Diameter, in.	2.830
	Height, in.	5.554
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		1150.6
Fail. Stress, psf		484.5
Strain, %		7.8
Ult. Stress, psf		484.5
Strain, %		7.8
σ_1 Failure, psf		1635.0
σ_3 Failure, psf		1150.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(11))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

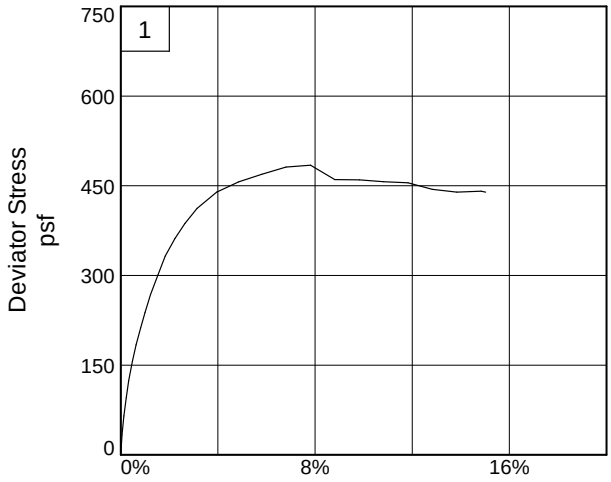
Project: Mobile River Bridge

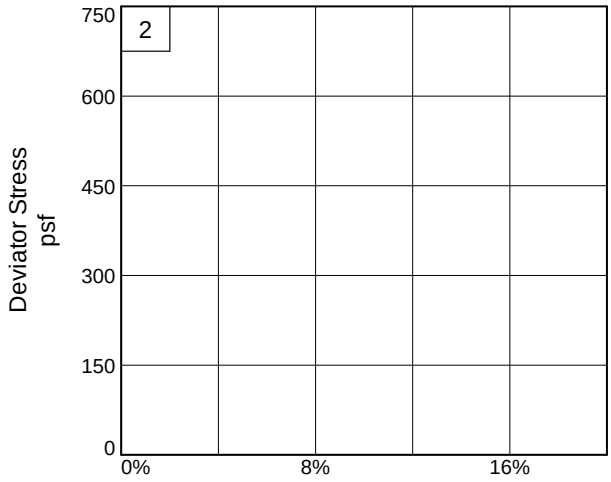
Source of Sample: Lab #7905 **Depth:** 23.5'-25.5'

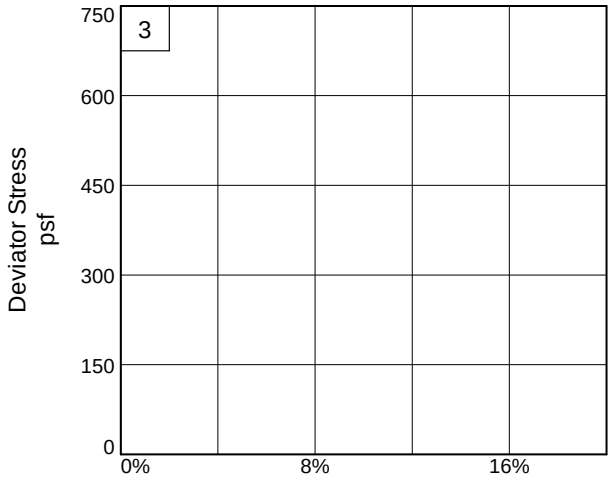
Sample Number: BW-7 T-2

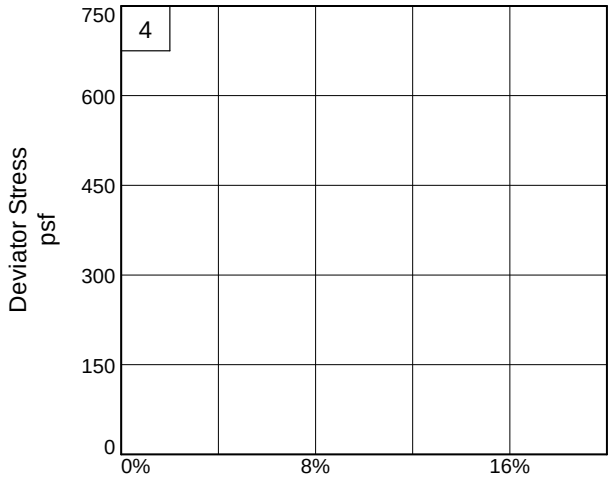
Proj. No.: 1511010228 **Date Sampled:**

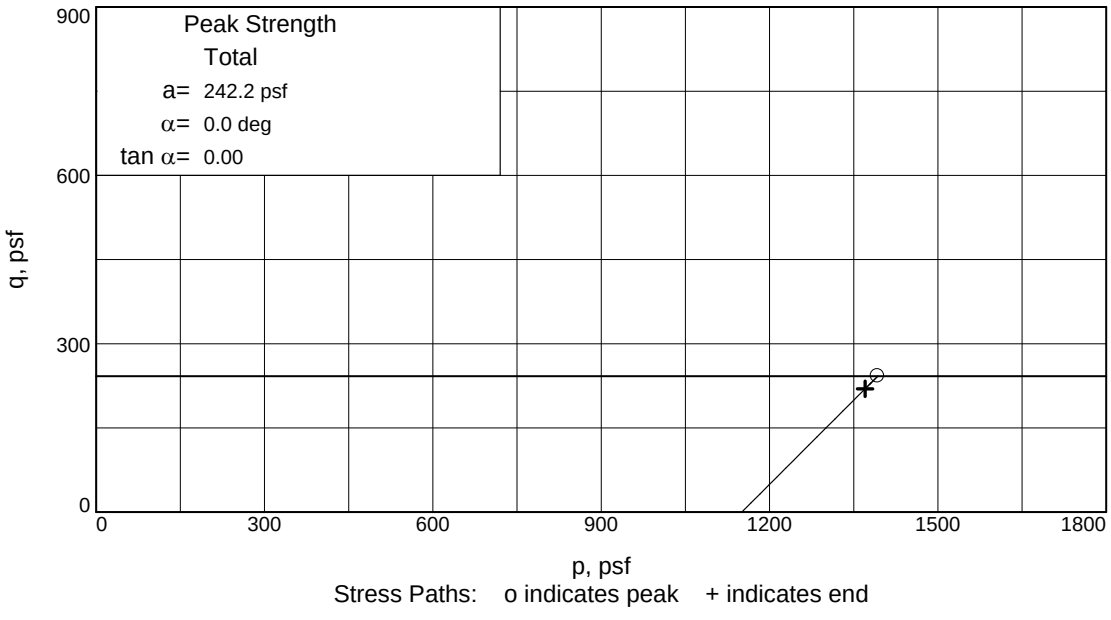
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Thompson Engineering
Mobile, Alabama





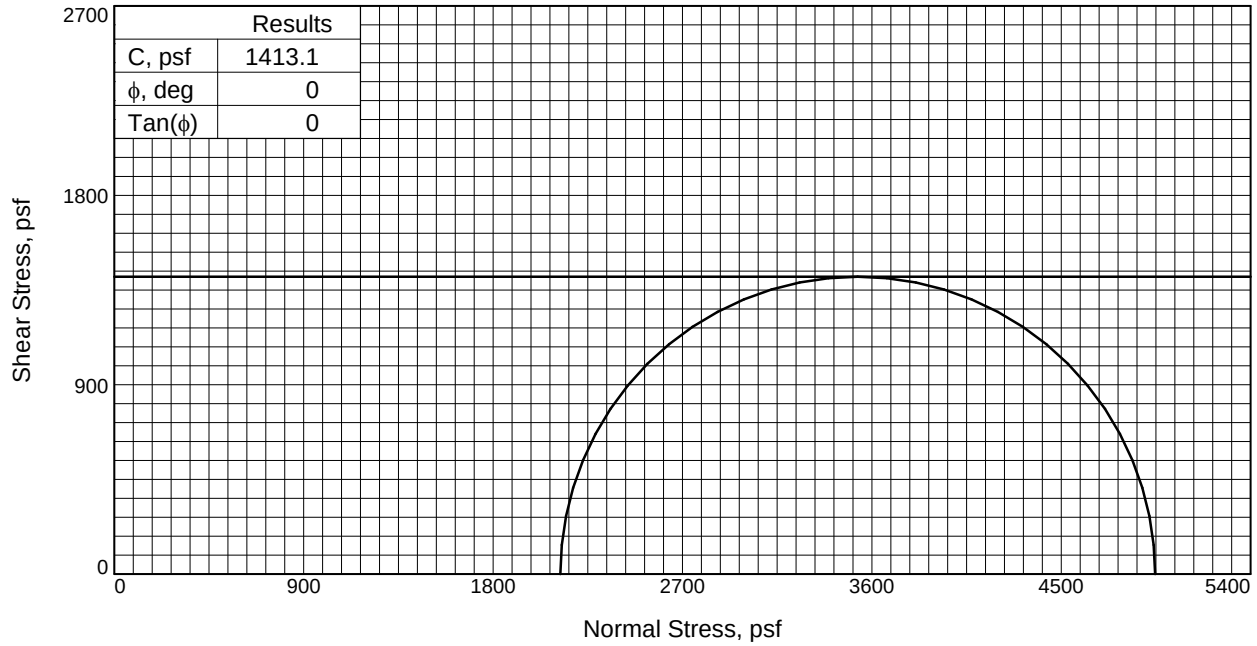


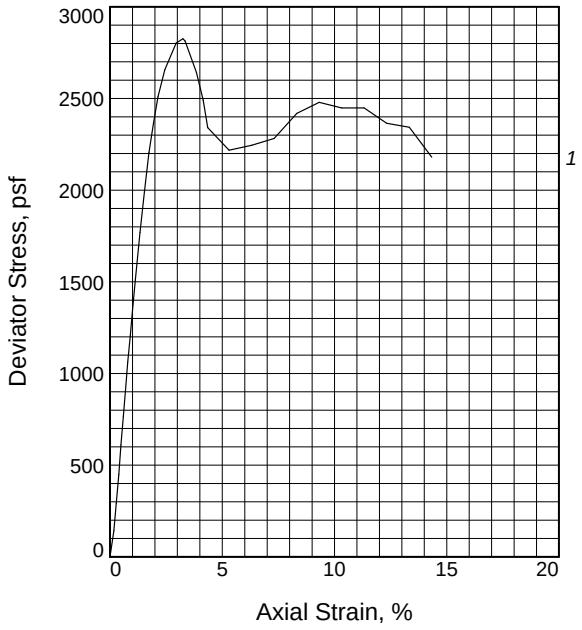




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7905 **Depth:** 23.5'-25.5' **Sample Number:** BW-7 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	185.0
	Dry Density, pcf	26.9
	Saturation, %	95.2
	Void Ratio	5.1670
	Diameter, in.	2.846
	Height, in.	5.697
At Test	Water Content, %	149.8
	Dry Density, pcf	26.9
	Saturation, %	77.1
	Void Ratio	5.1670
	Diameter, in.	2.846
	Height, in.	5.697
Strain at peak, %		3.2
Back Pressure, psf		0.0
Cell Pressure, psf		2119.7
Fail. Stress, psf		2826.1
Strain, %		3.2
Ult. Stress, psf		2826.1
Strain, %		3.2
σ_1 Failure, psf		4945.8
σ_3 Failure, psf		2119.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

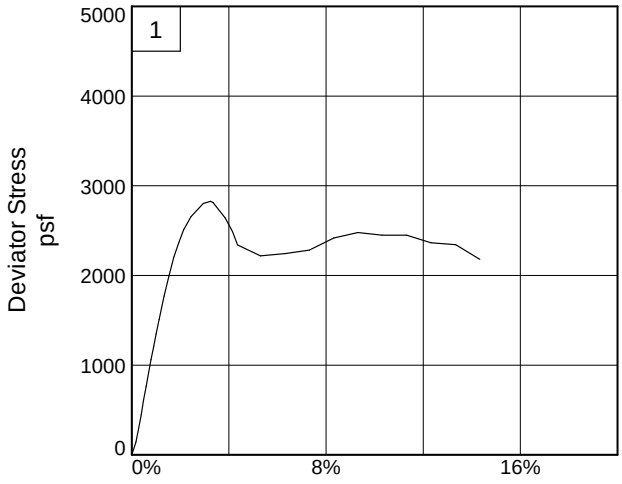
Project: Mobile River Bridge

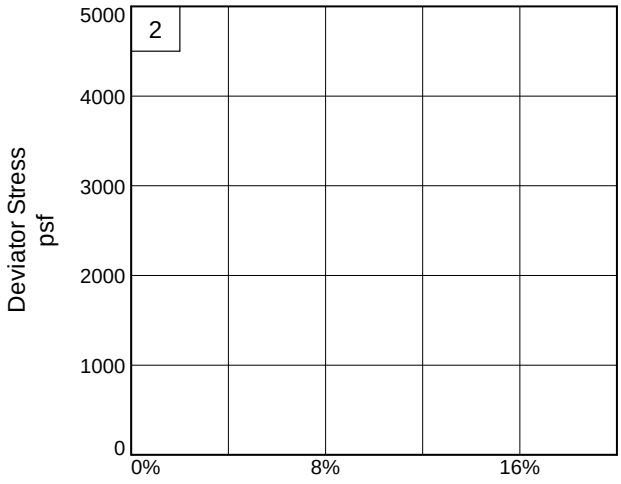
Source of Sample: Lab #7905 **Depth:** 43.5'-45.5'

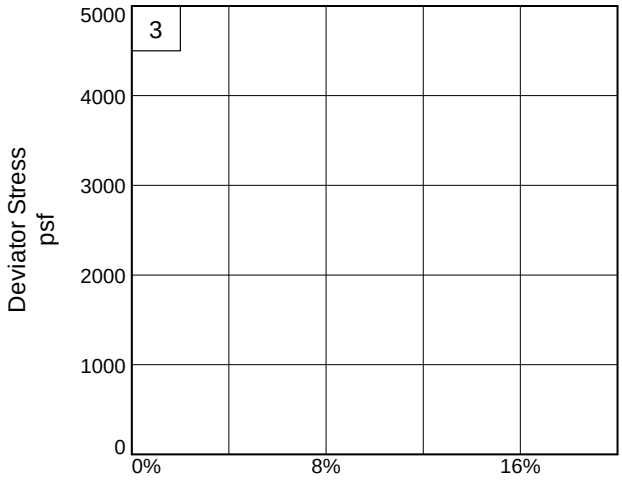
Sample Number: BW-8 T-4

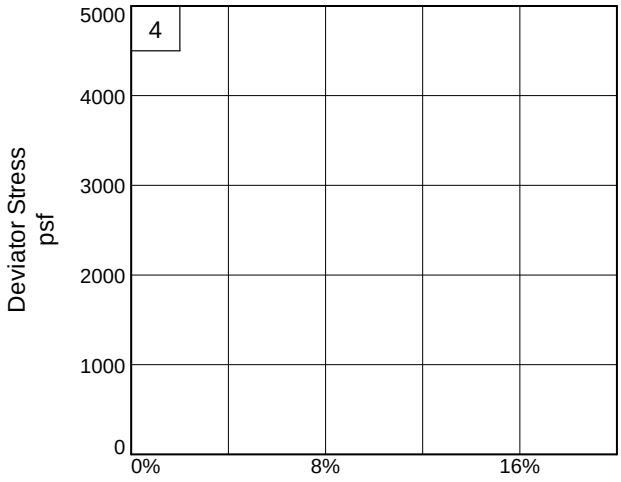
Proj. No.: 1511010228 **Date Sampled:**

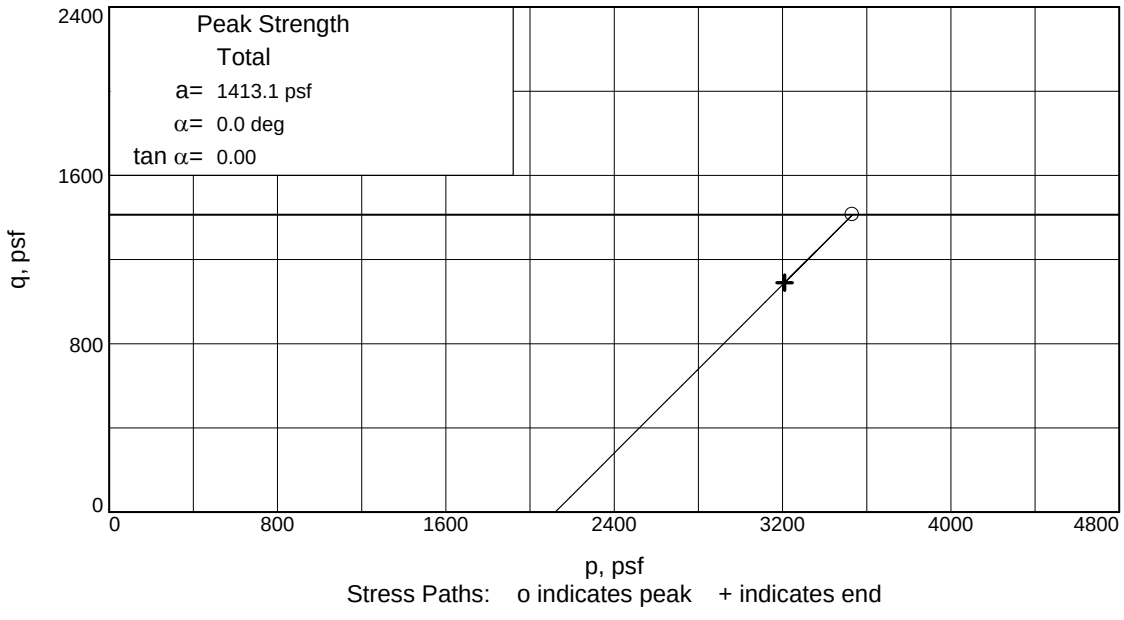
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Thompson Engineering
Mobile, Alabama







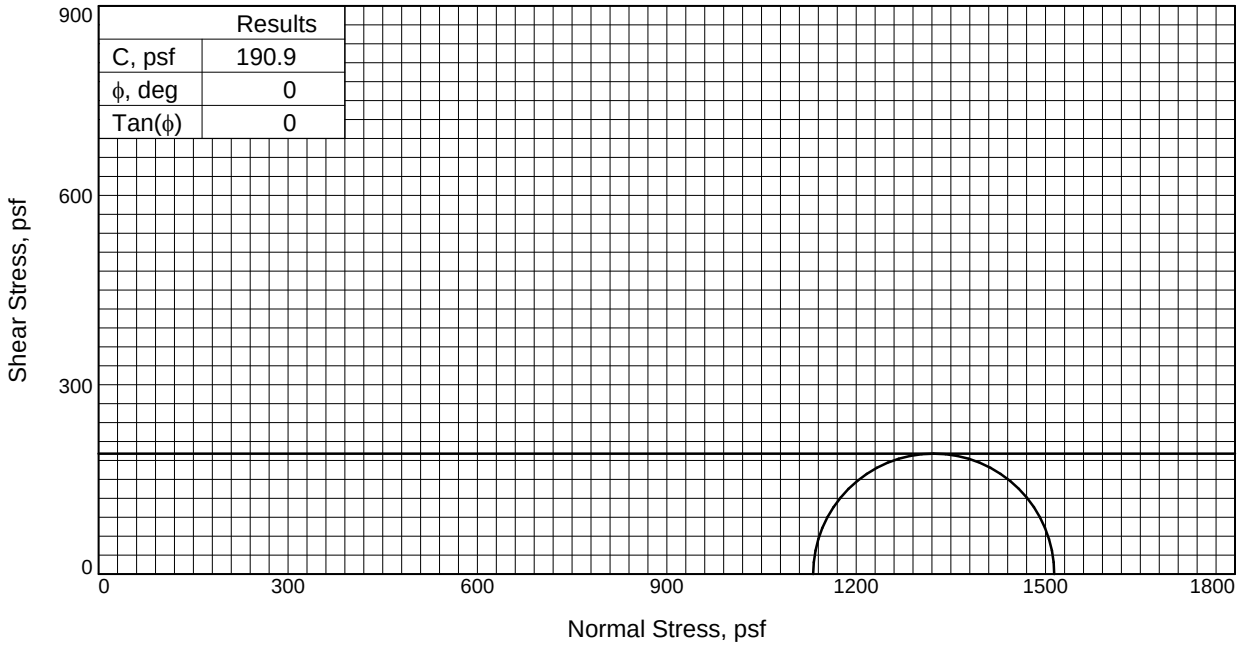


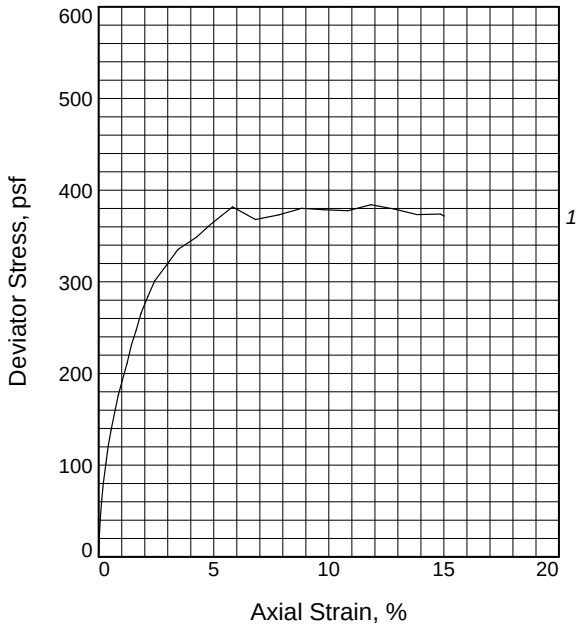


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7905 **Depth:** 43.5'-45.5' **Sample Number:** BW-8 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	37.0
	Dry Density, pcf	87.9
	Saturation, %	107.9
	Void Ratio	0.9362
	Diameter, in.	2.761
	Height, in.	5.559
At Test	Water Content, %	39.6
	Dry Density, pcf	87.9
	Saturation, %	115.5
	Void Ratio	0.9362
	Diameter, in.	2.761
	Height, in.	5.559
Strain at peak, %		5.8
Back Pressure, psf		0.0
Cell Pressure, psf		1131.8
Fail. Stress, psf		381.8
Strain, %		5.8
Ult. Stress, psf		381.8
Strain, %		5.8
σ_1 Failure, psf		1513.6
σ_3 Failure, psf		1131.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(14))

Specific Gravity= 2.727

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

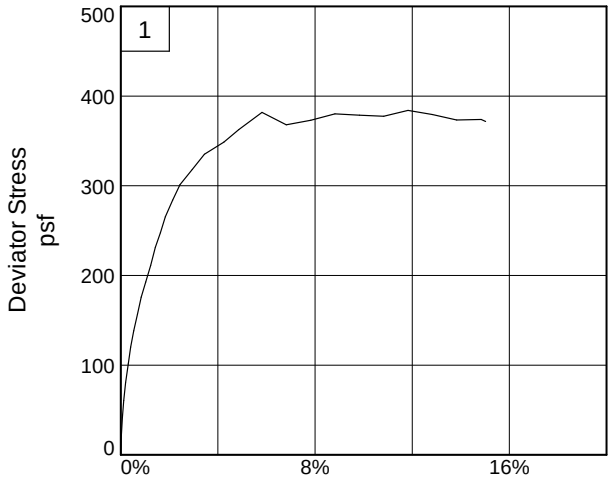
Project: Mobile River Bridge

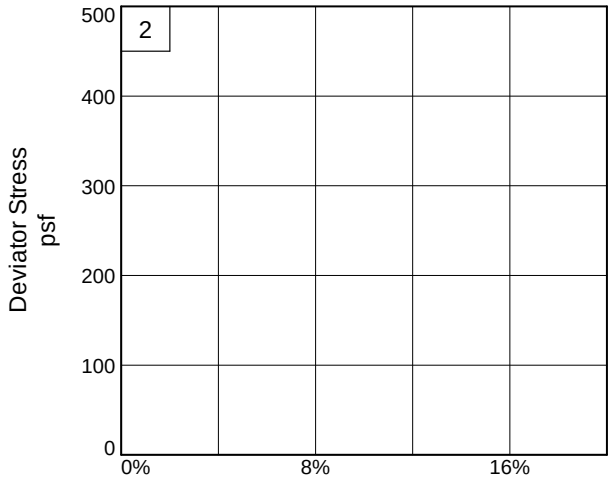
Source of Sample: Lab #7928 **Depth:** 23.0'-25.0'

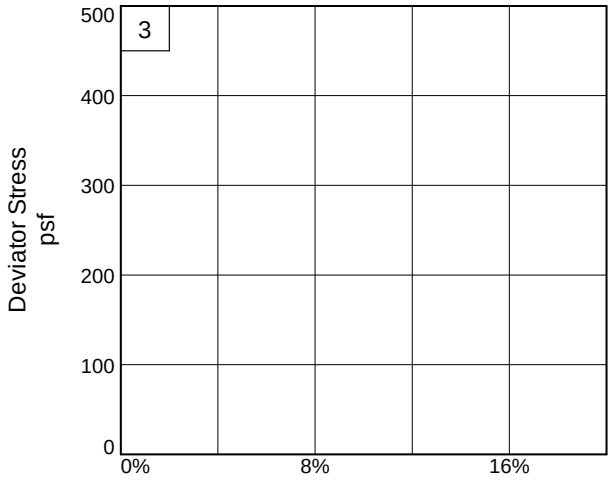
Sample Number: BW-9 T-1

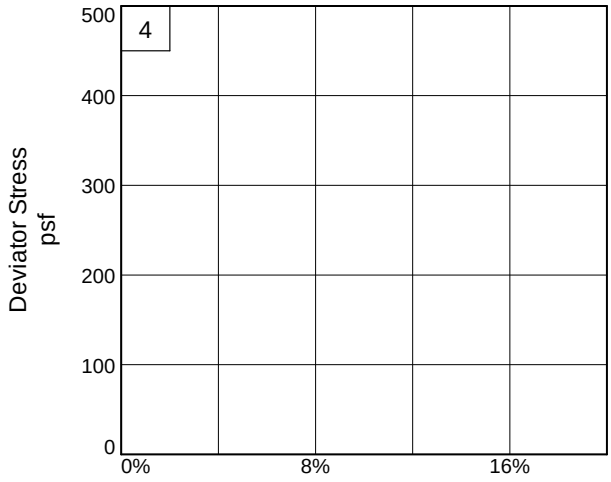
Proj. No.: 1511010228 **Date Sampled:**

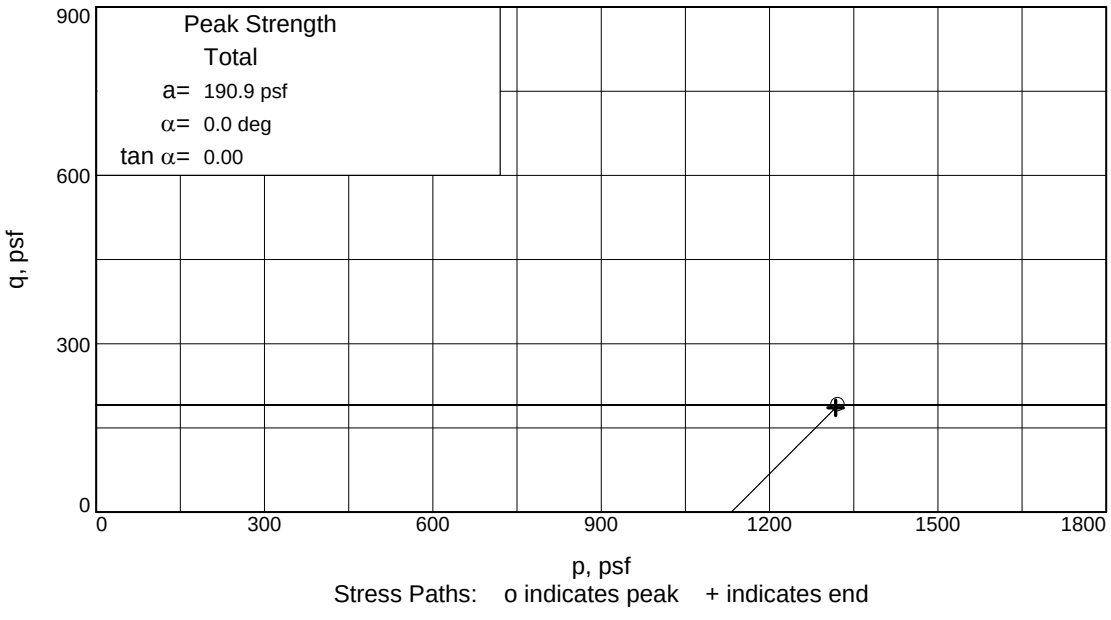
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Mobile, Alabama





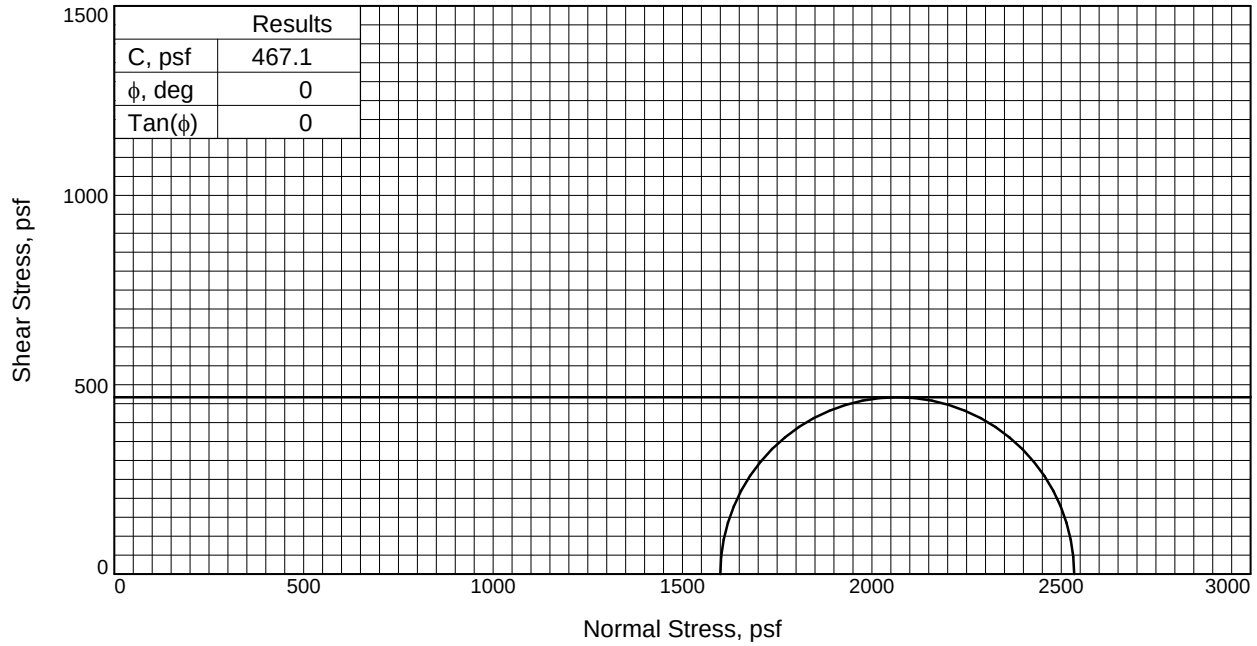


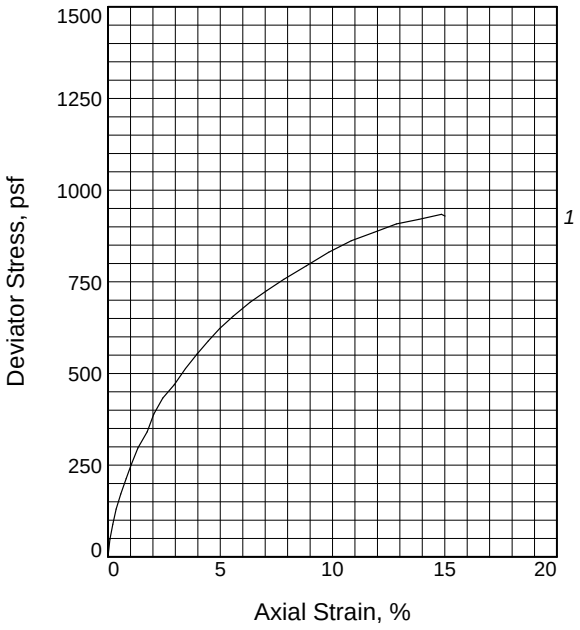




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 23.0'-25.0' **Sample Number:** BW-9 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	28.9
	Dry Density, pcf	100.4
	Saturation, %	117.6
	Void Ratio	0.6535
	Diameter, in.	2.805
	Height, in.	5.540
At Test	Water Content, %	25.6
	Dry Density, pcf	100.4
	Saturation, %	104.3
	Void Ratio	0.6535
	Diameter, in.	2.805
	Height, in.	5.540
Strain at peak, %		14.9
Back Pressure, psf		0.0
Cell Pressure, psf		1599.8
Fail. Stress, psf		934.1
Strain, %		14.9
Ult. Stress, psf		934.1
Strain, %		14.9
σ_1 Failure, psf		2534.0
σ_3 Failure, psf		1599.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

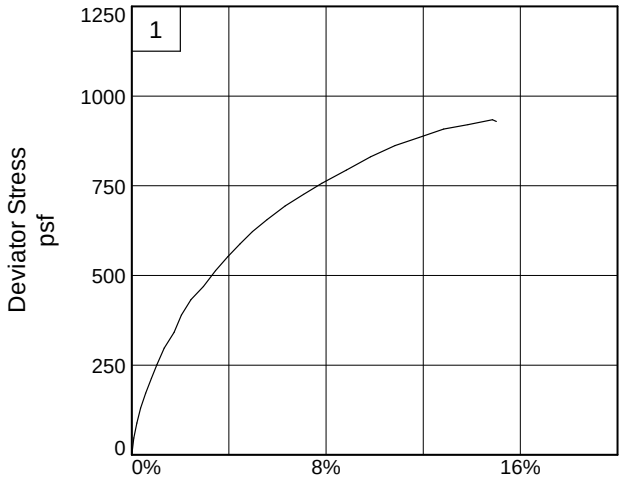
Project: Mobile River Bridge

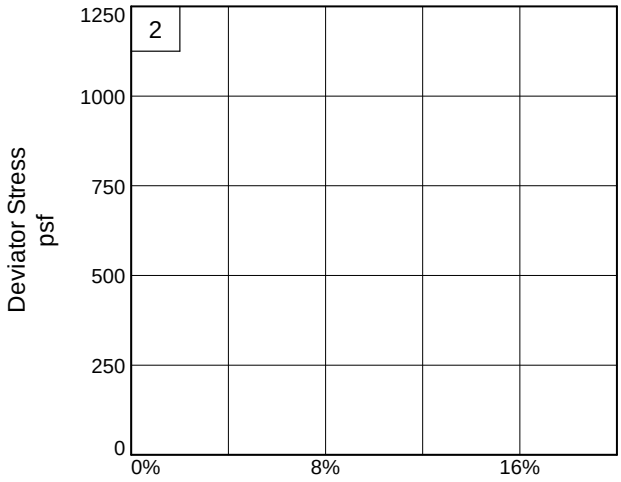
Source of Sample: Lab #7928 **Depth:** 33.0'-35.0'

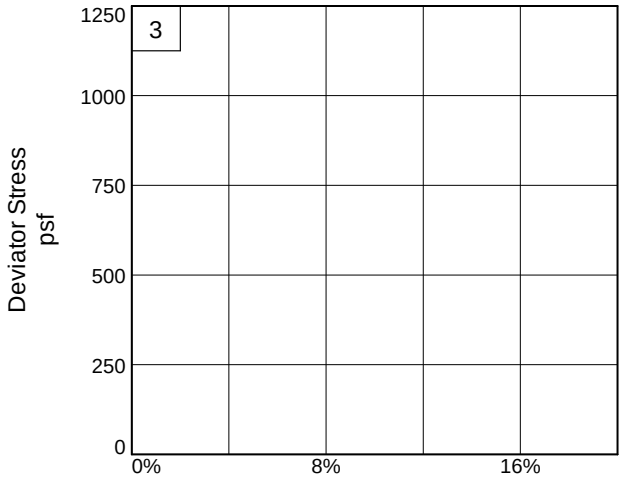
Sample Number: BW-9 T-2

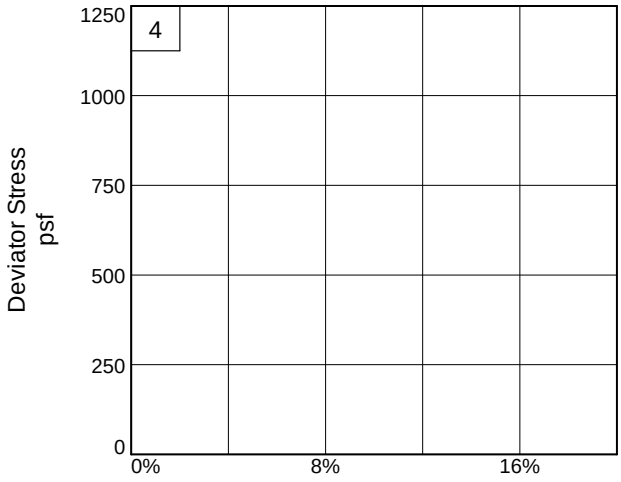
Proj. No.: 1511010228 **Date Sampled:**

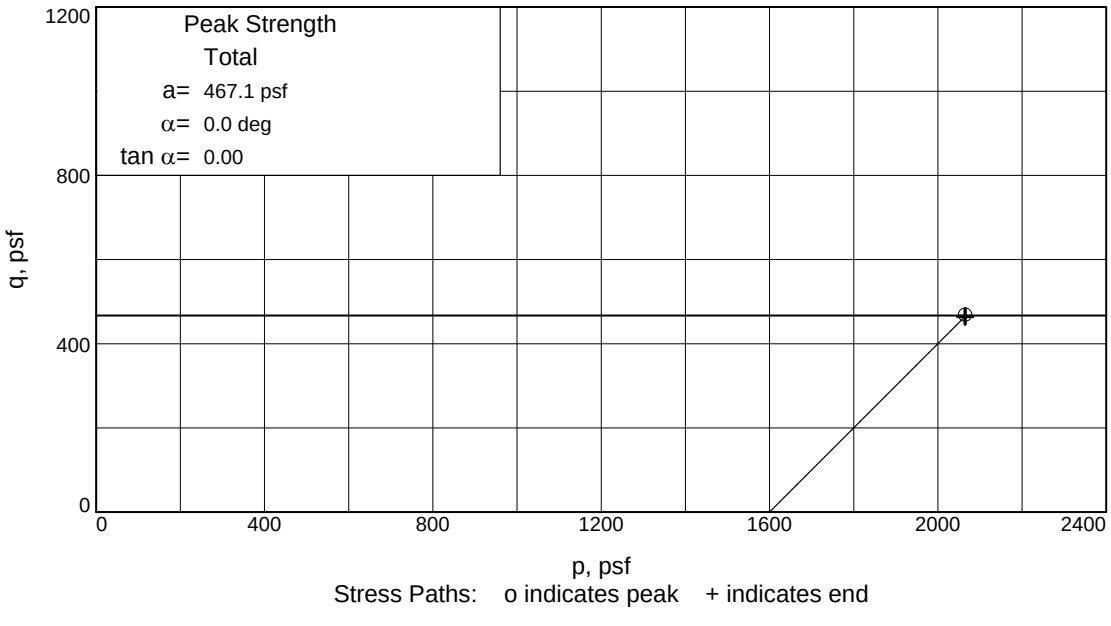
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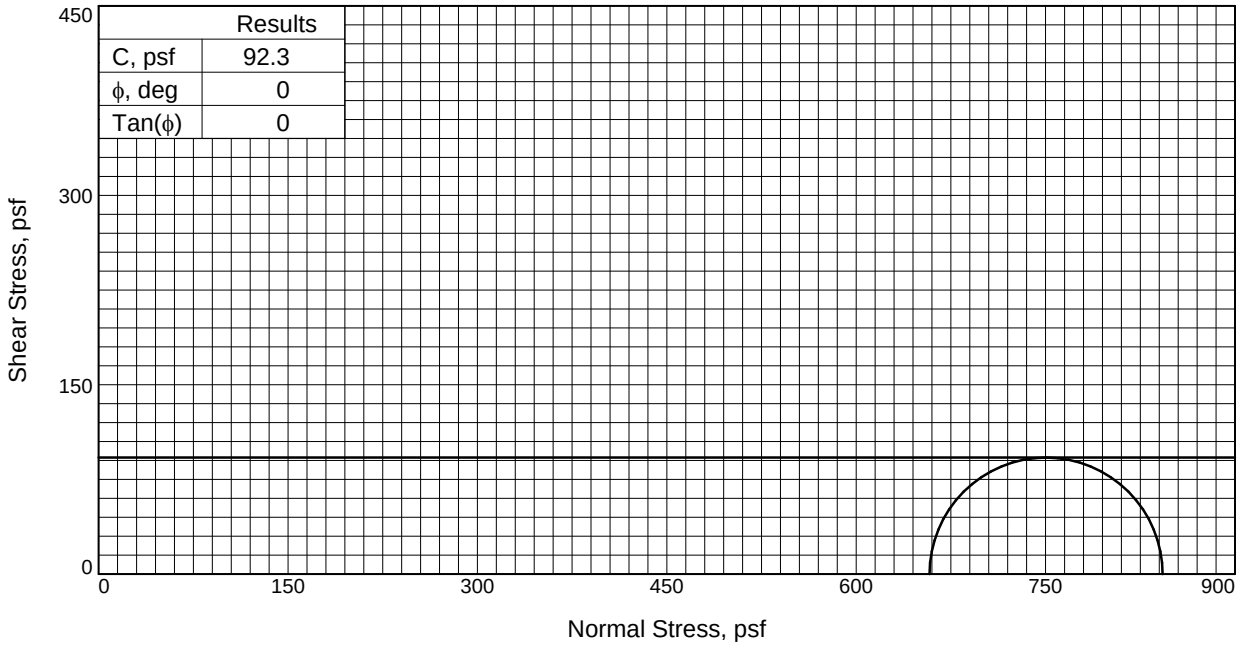


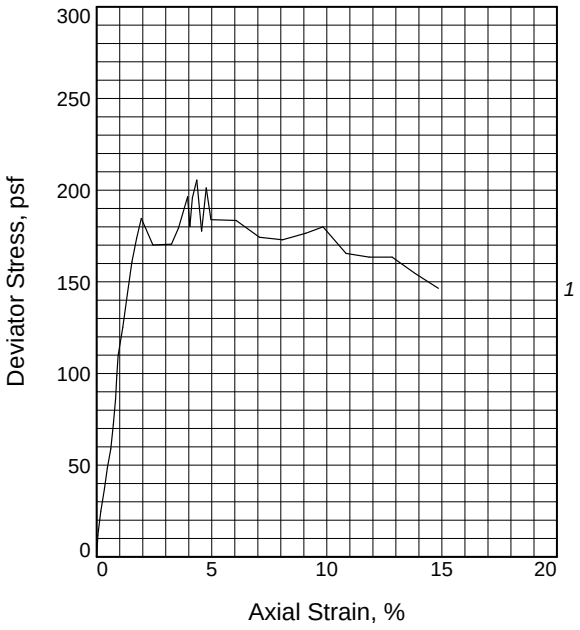


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 33.0'-35.0' **Sample Number:** BW-9 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	115.2
	Dry Density, pcf	42.9
	Saturation, %	106.7
	Void Ratio	2.8726
	Diameter, in.	2.744
	Height, in.	5.341
At Test	Water Content, %	116.0
	Dry Density, pcf	42.9
	Saturation, %	107.4
	Void Ratio	2.8726
	Diameter, in.	2.744
	Height, in.	5.341
Strain at peak, %		1.9
Back Pressure, psf		0.0
Cell Pressure, psf		658.1
Fail. Stress, psf		184.6
Strain, %		1.9
Ult. Stress, psf		184.6
Strain, %		1.9
σ_1 Failure, psf		842.7
σ_3 Failure, psf		658.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(103))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

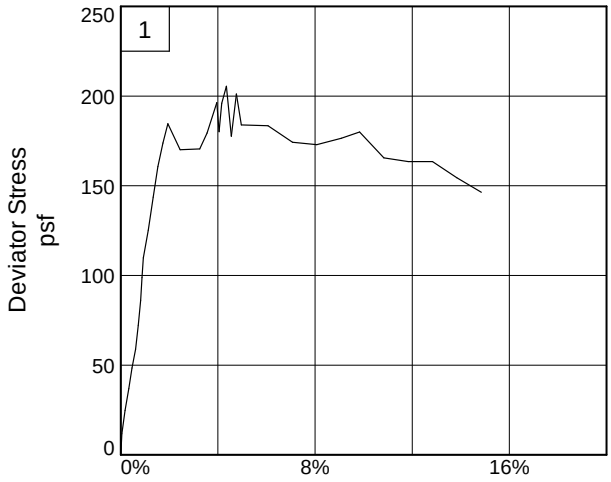
Project: Mobile River Bridge

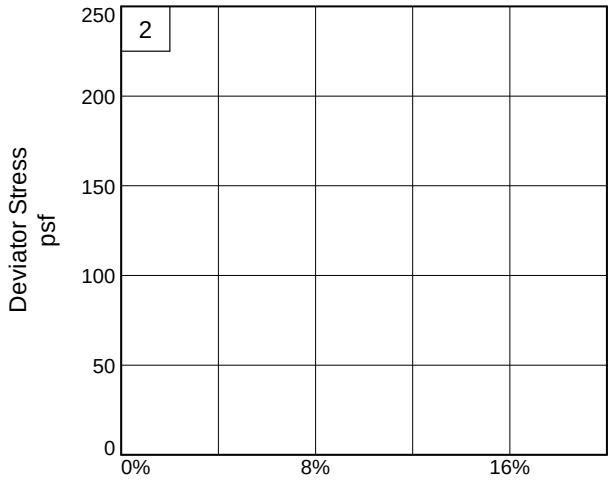
Source of Sample: Lab #7928 **Depth:** 13.0'-15.0'

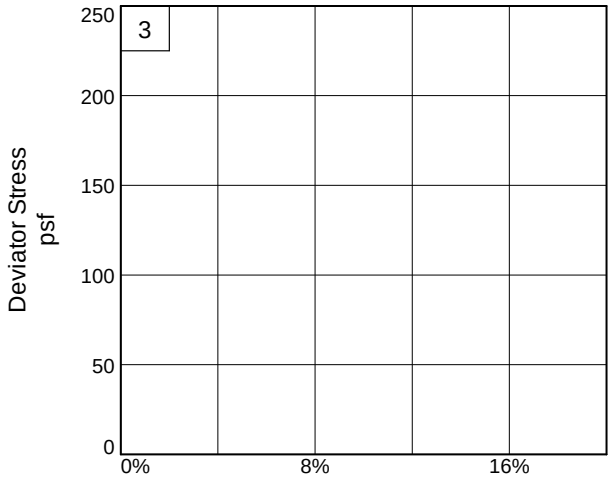
Sample Number: BW-10 T-1

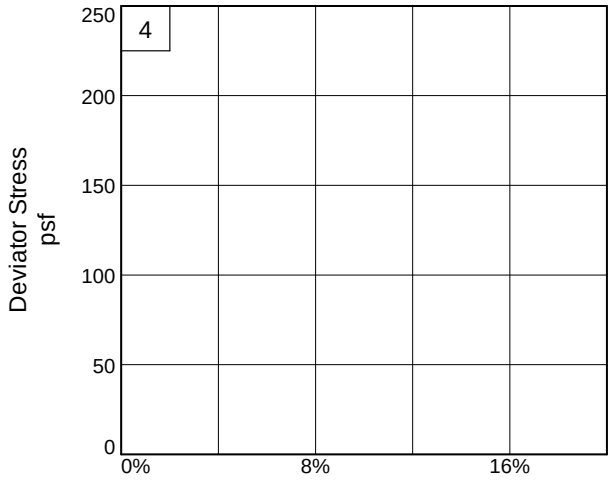
Proj. No.: 1511010228 **Date Sampled:**

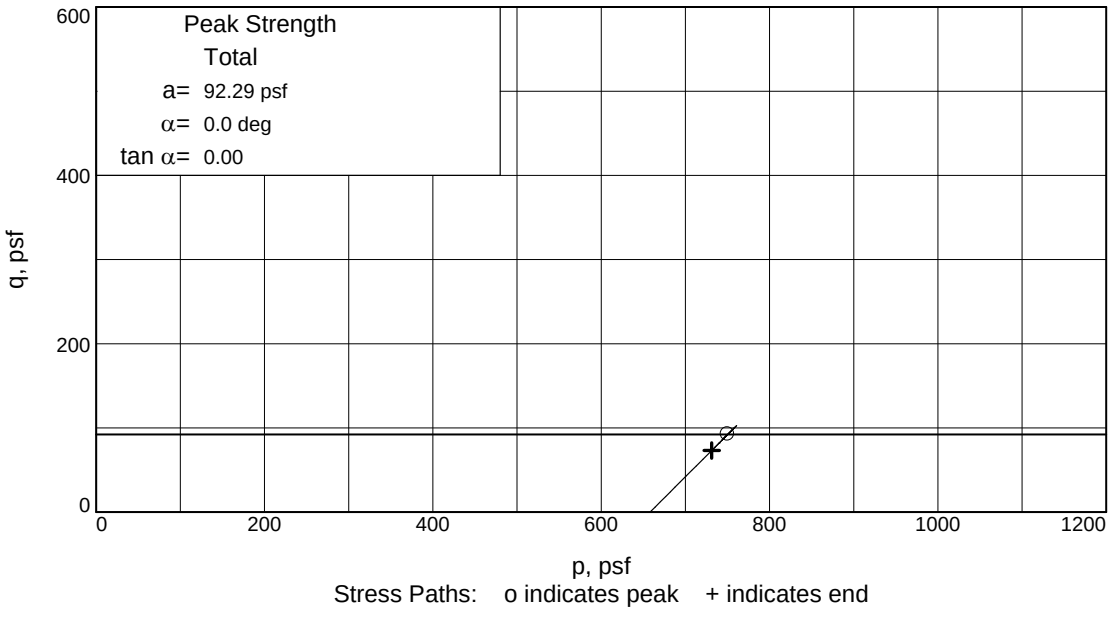
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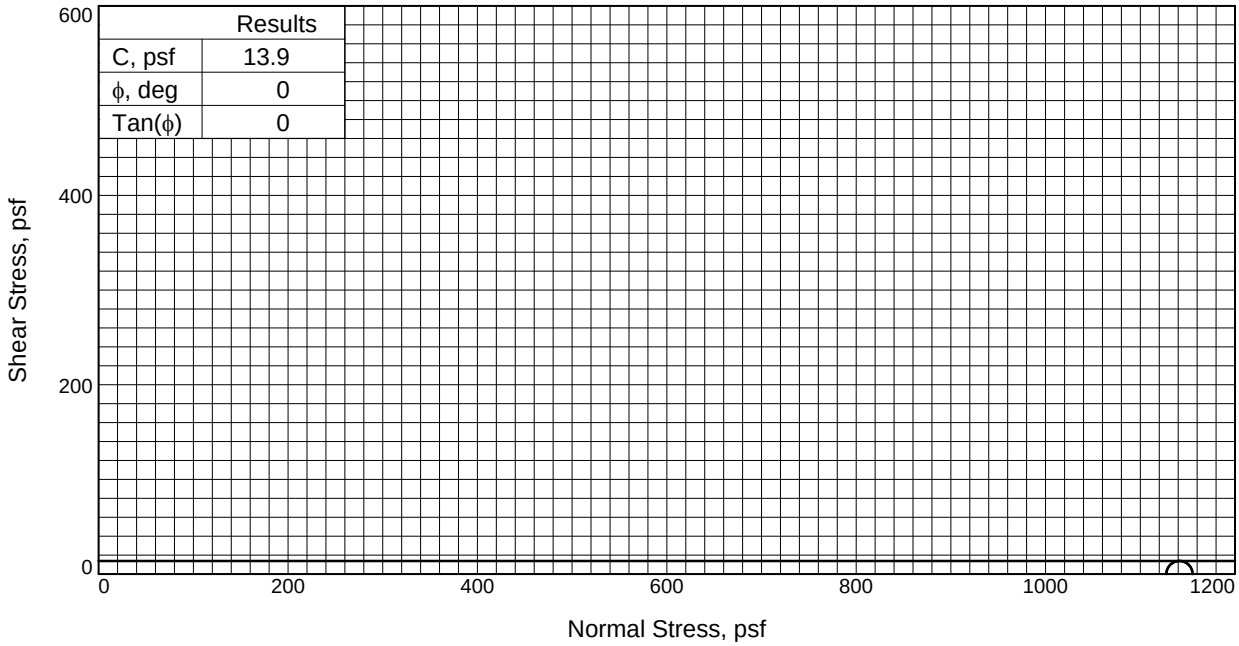


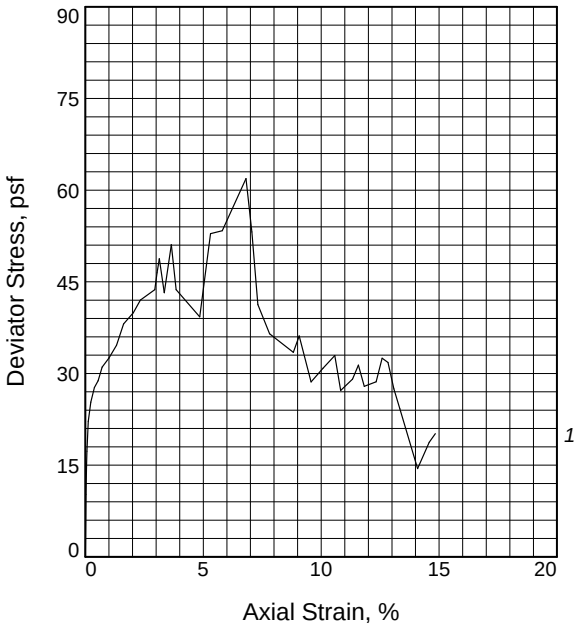




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 13.0'-15.0' **Sample Number:** BW-10 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	81.8
	Dry Density, pcf	54.4
	Saturation, %	106.1
	Void Ratio	2.0504
	Diameter, in.	2.737
	Height, in.	5.318
At Test	Water Content, %	98.4
	Dry Density, pcf	54.4
	Saturation, %	127.7
	Void Ratio	2.0504
	Diameter, in.	2.737
	Height, in.	5.318
Strain at peak, %		0.4
Back Pressure, psf		0.0
Cell Pressure, psf		1127.5
Fail. Stress, psf		27.7
Strain, %		0.4
Ult. Stress, psf		27.7
Strain, %		0.4
σ_1 Failure, psf		1155.2
σ_3 Failure, psf		1127.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(85))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

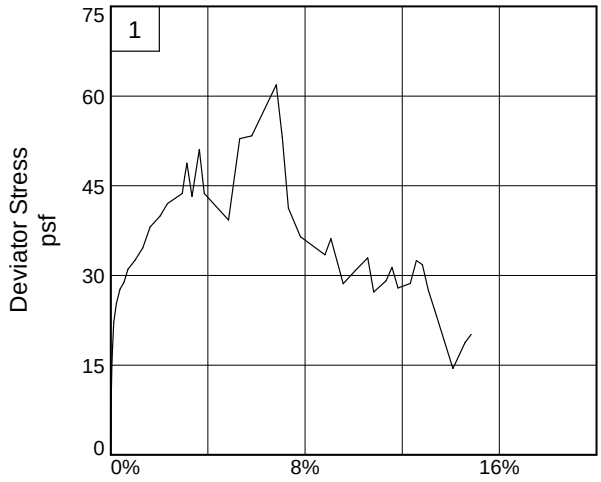
Project: Mobile River Bridge

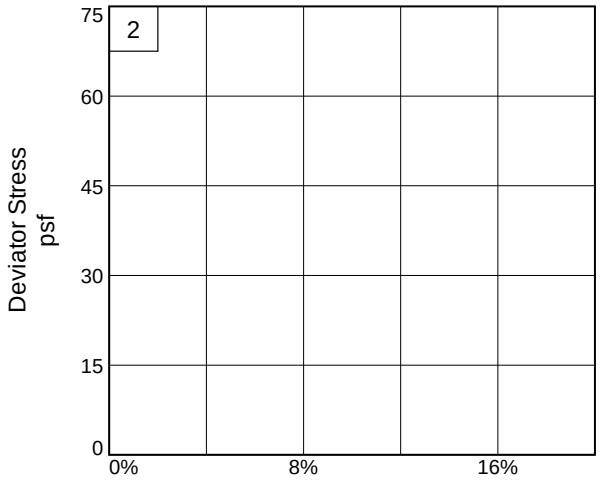
Source of Sample: Lab #7928 **Depth:** 23.0'-25.0'

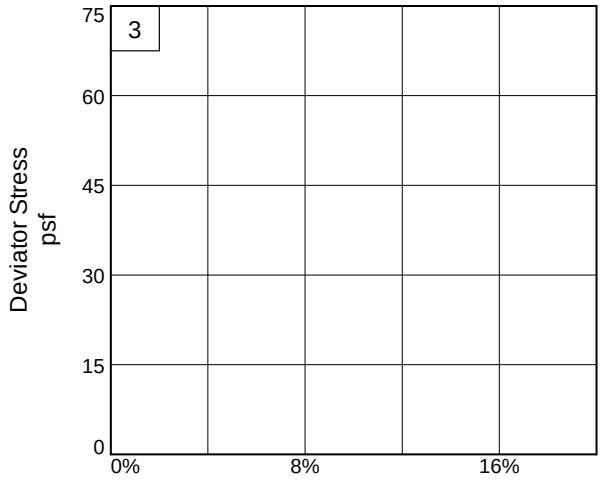
Sample Number: BW-10 T-2

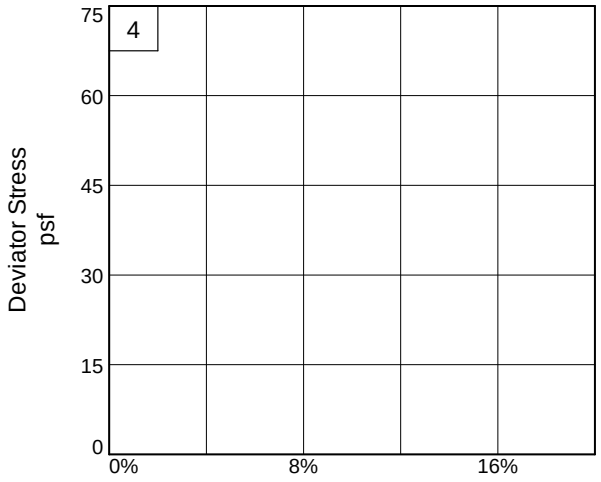
Proj. No.: 1511010228 **Date Sampled:**

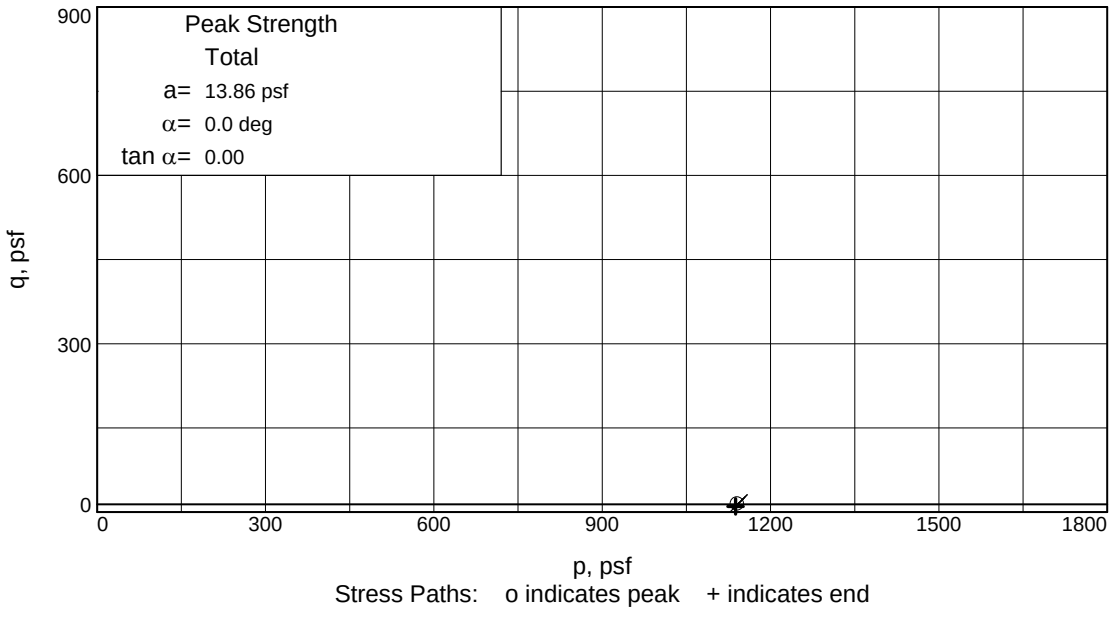
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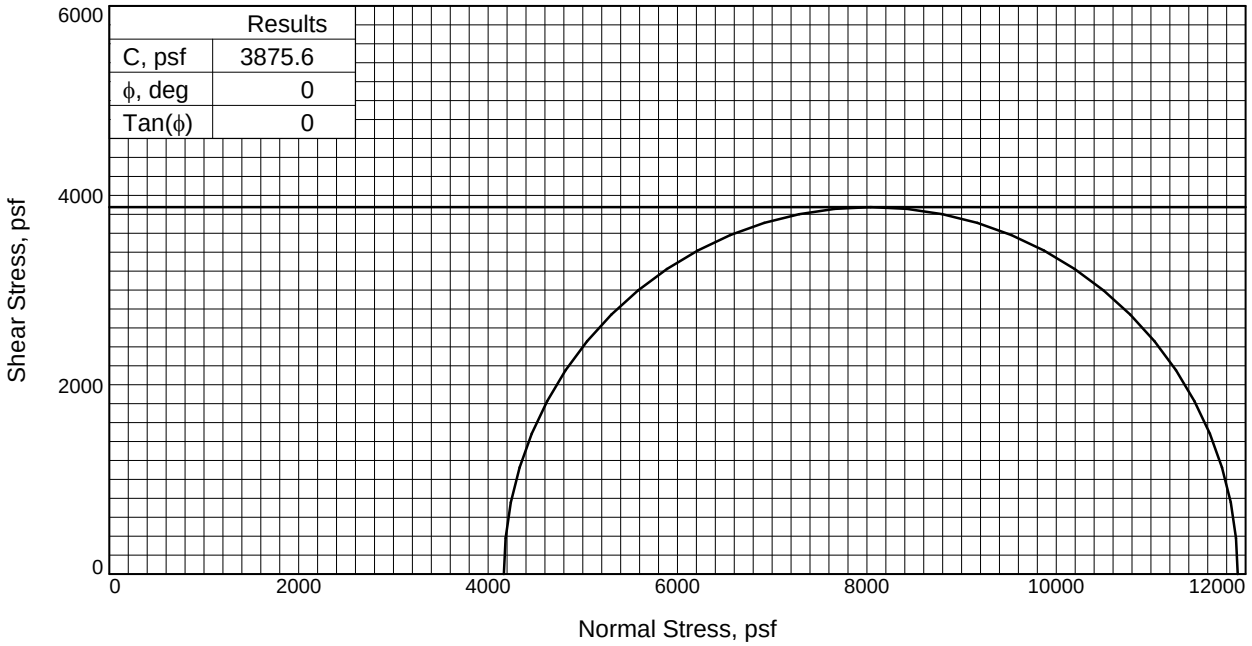


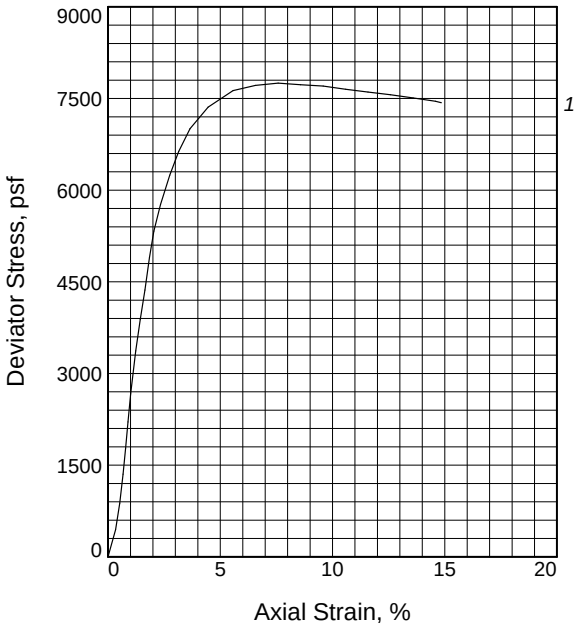




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 23.0'-25.0' **Sample Number:** BW-10 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	27.5
	Dry Density, pcf	96.3
	Saturation, %	102.1
	Void Ratio	0.7102
	Diameter, in.	2.869
	Height, in.	5.675
At Test	Water Content, %	29.0
	Dry Density, pcf	96.3
	Saturation, %	107.6
	Void Ratio	0.7102
	Diameter, in.	2.869
	Height, in.	5.675
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		4165.9
Fail. Stress, psf		7751.2
Strain, %		7.6
Ult. Stress, psf		7751.2
Strain, %		7.6
σ_1 Failure, psf		11917.1
σ_3 Failure, psf		4165.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(16))

Specific Gravity= 2.638

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

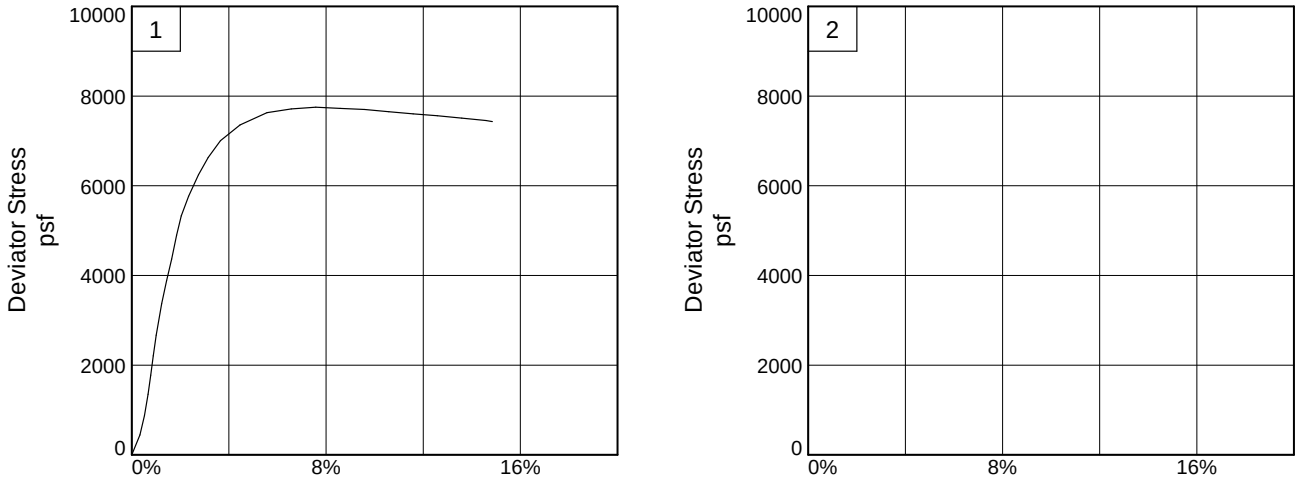
Project: Mobile River Bridge

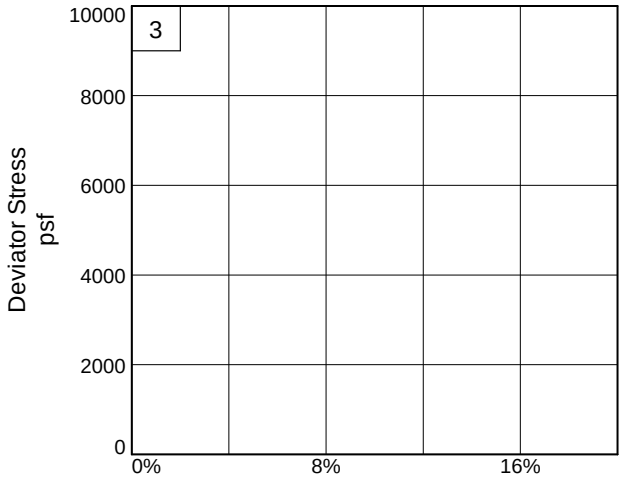
Source of Sample: Lab #7928 **Depth:** 88.0'-90.0'

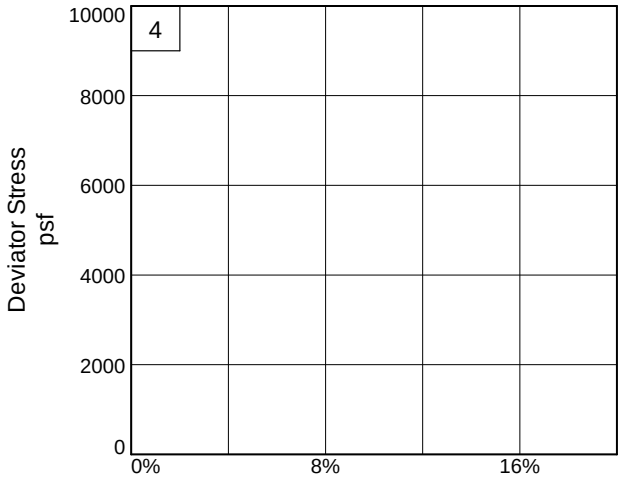
Sample Number: BW-10 T-5

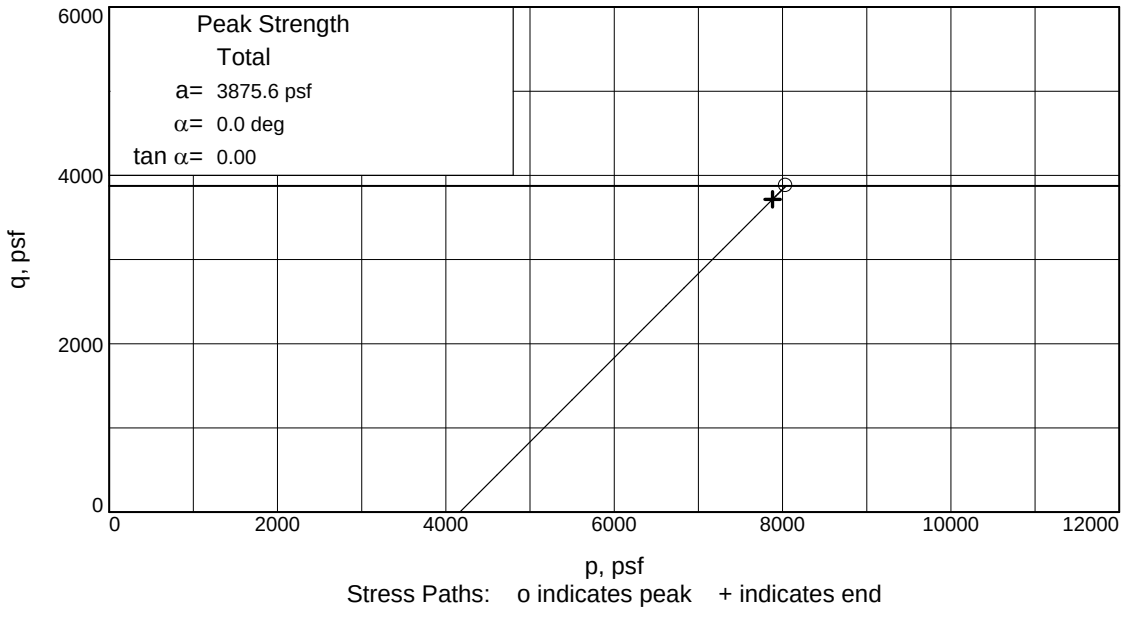
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama





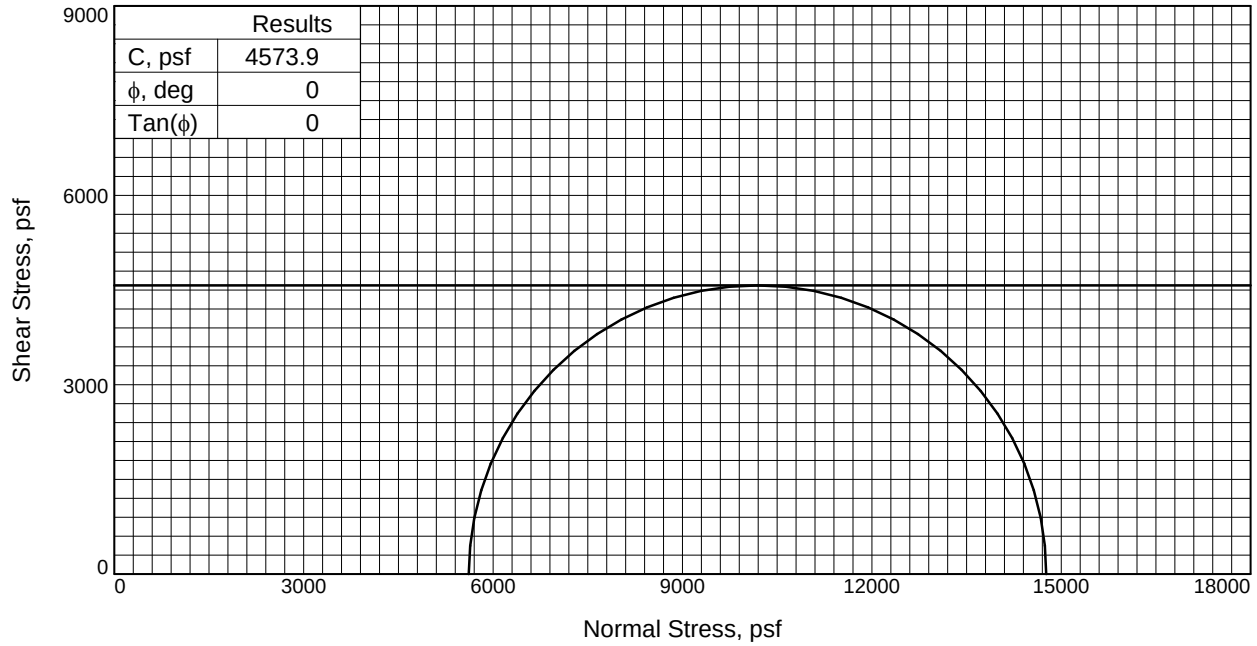


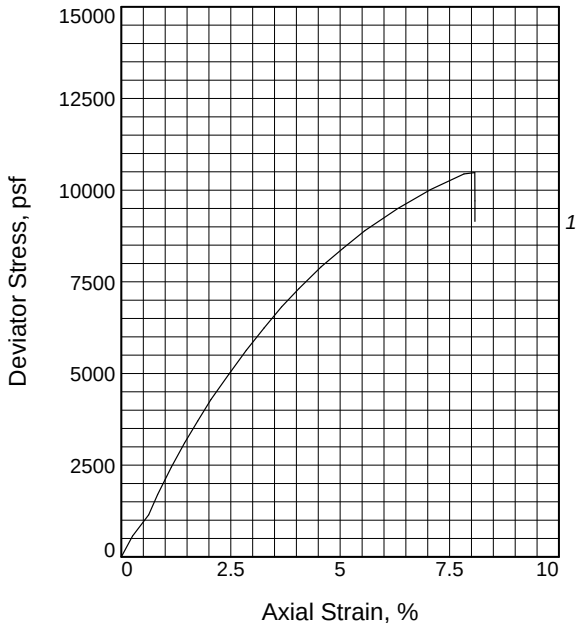


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 88.0'-90.0' **Sample Number:** BW-10 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	18.3
	Dry Density, pcf	113.7
	Saturation, %	103.2
	Void Ratio	0.4782
	Diameter, in.	2.868
	Height, in.	5.553
At Test	Water Content, %	17.6
	Dry Density, pcf	113.7
	Saturation, %	98.9
	Void Ratio	0.4782
	Diameter, in.	2.868
	Height, in.	5.553
Strain at peak, %		8.1
Back Pressure, psf		0.0
Cell Pressure, psf		5614.6
Fail. Stress, psf		9147.7
Strain, %		8.1
Ult. Stress, psf		9147.7
Strain, %		8.1
σ_1 Failure, psf		14762.3
σ_3 Failure, psf		5614.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(23))

Specific Gravity= 2.692

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

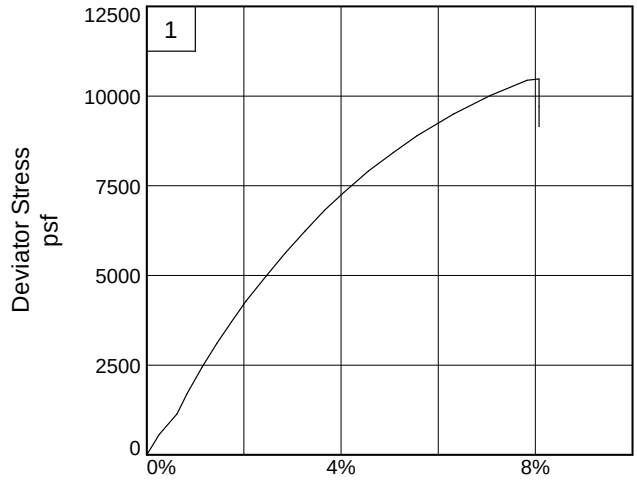
Project: Mobile River Bridge

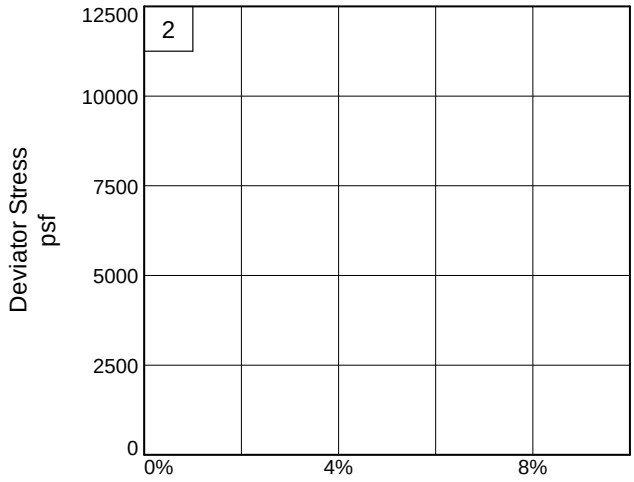
Source of Sample: Lab #7928 **Depth:** 118.0'-120.0'

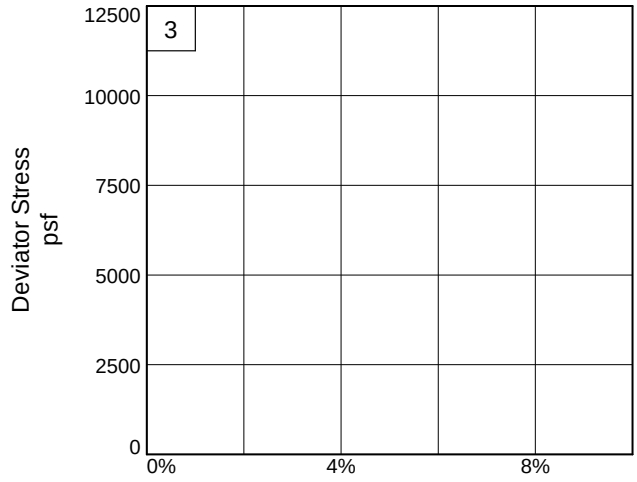
Sample Number: BW-10 T-8

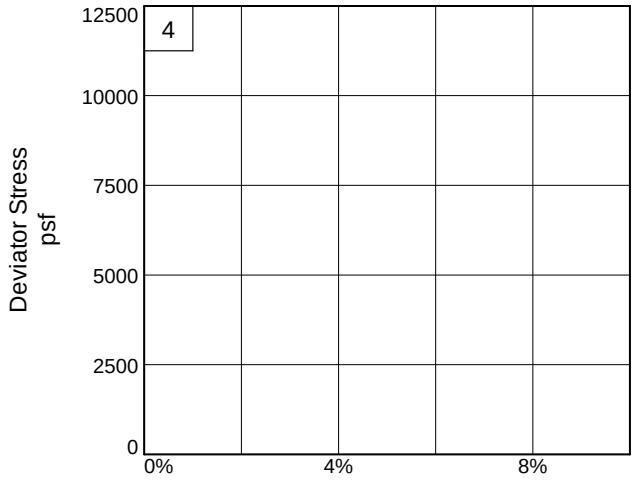
Proj. No.: 1511010228 **Date Sampled:**

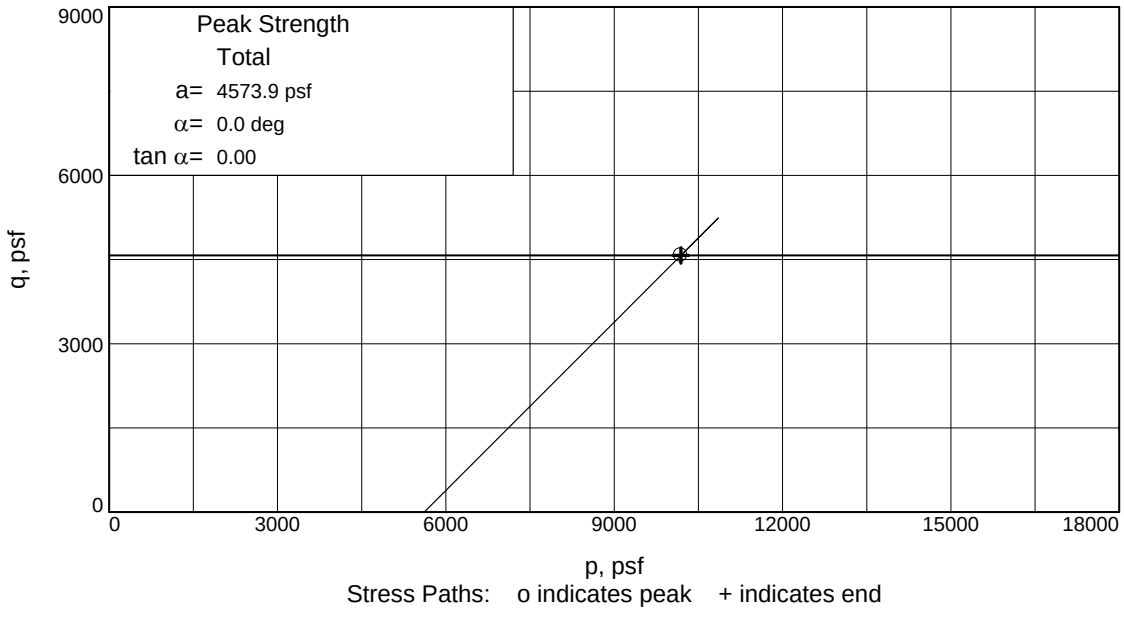
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Thompson Engineering
Mobile, Alabama







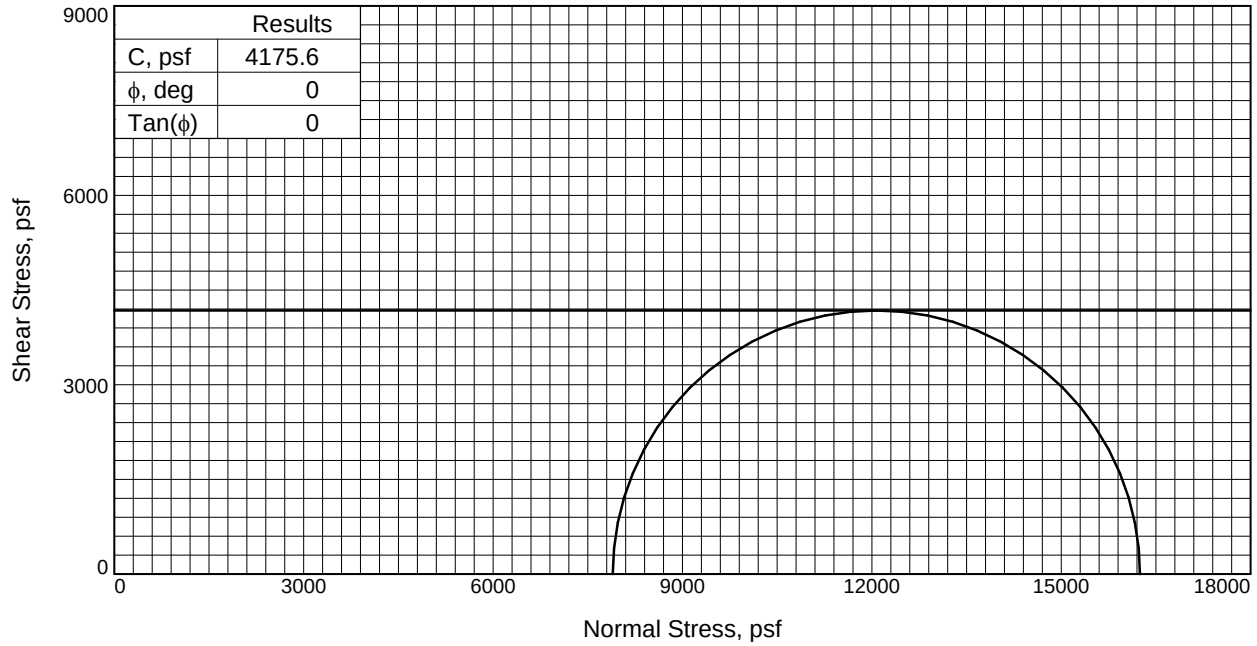


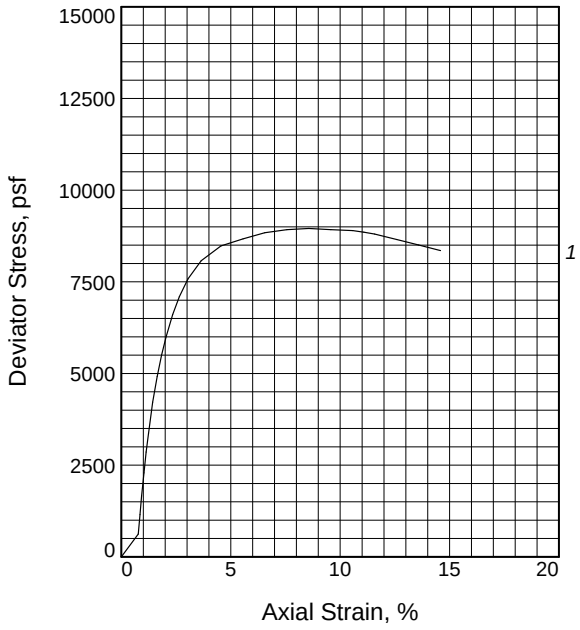


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 118.0'-120.0' **Sample Number:** BW-10 T-8
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	19.2
	Dry Density, pcf	109.5
	Saturation, %	98.9
	Void Ratio	0.5169
	Diameter, in.	2.865
	Height, in.	5.386
At Test	Water Content, %	20.3
	Dry Density, pcf	109.5
	Saturation, %	104.3
	Void Ratio	0.5169
	Diameter, in.	2.865
	Height, in.	5.386
Strain at peak, %		14.6
Back Pressure, psf		0.0
Cell Pressure, psf		7895.5
Fail. Stress, psf		8351.3
Strain, %		14.6
Ult. Stress, psf		8351.3
Strain, %		14.6
σ_1 Failure, psf		16246.8
σ_3 Failure, psf		7895.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(32))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

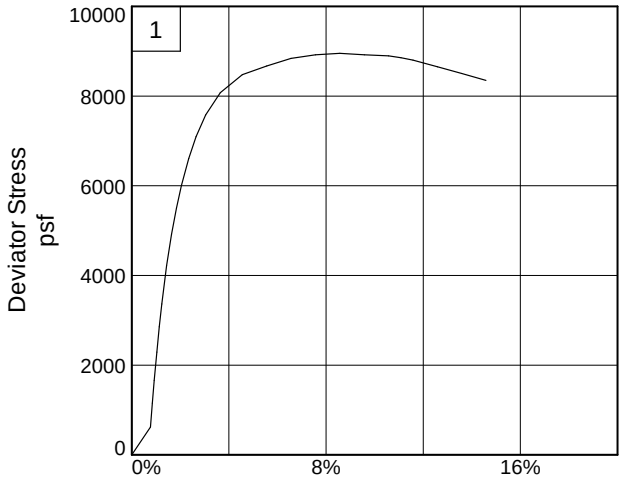
Project: Mobile River Bridge

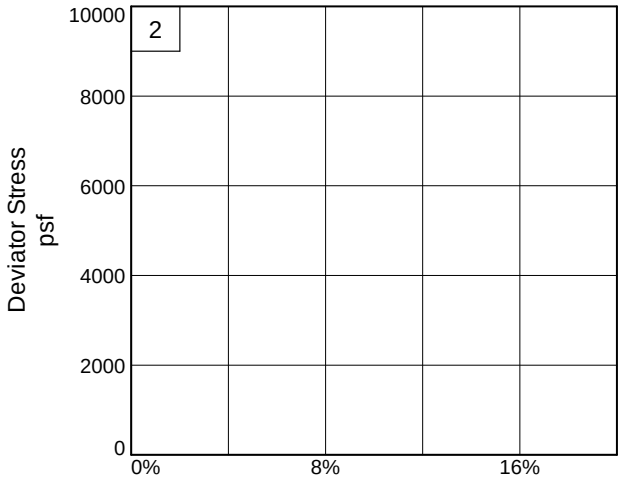
Source of Sample: Lab #7928 **Depth:** 165.0'-167.0'

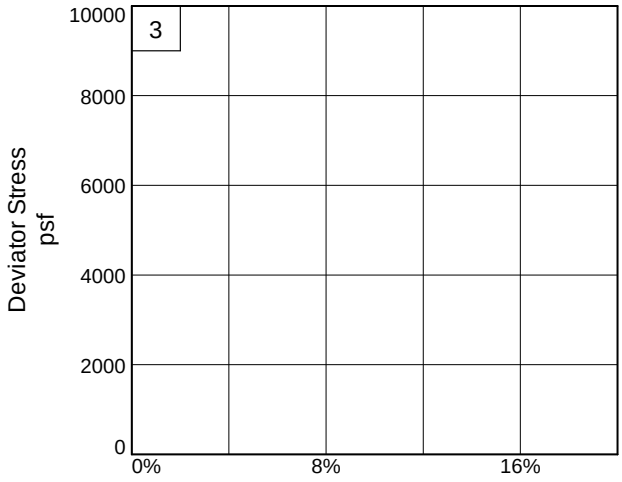
Sample Number: BW-10 T-10

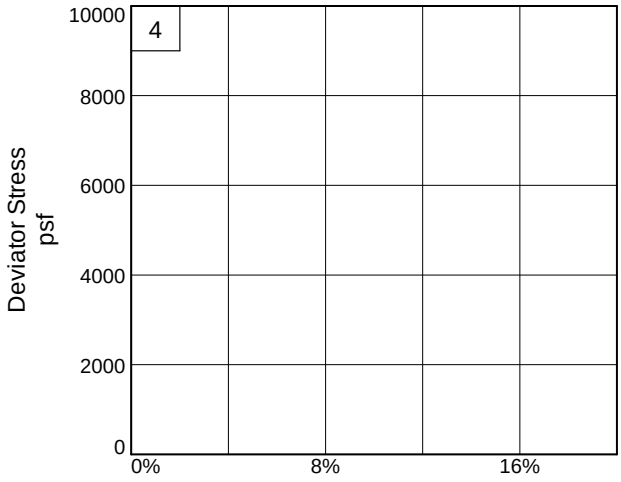
Proj. No.: 1511010228 **Date Sampled:**

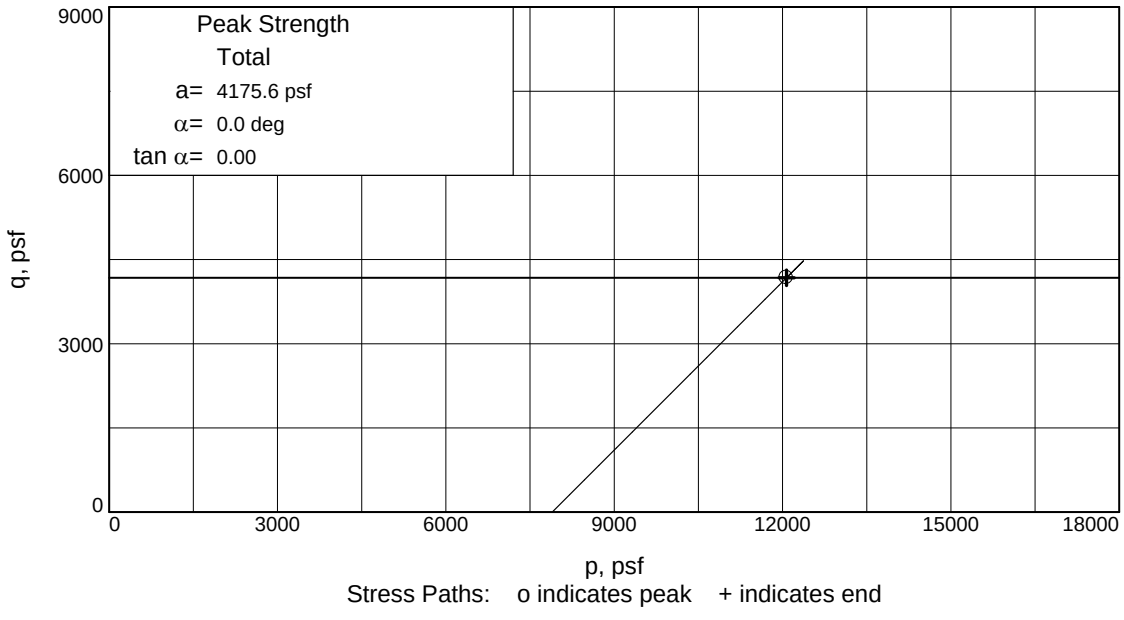
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Mobile, Alabama





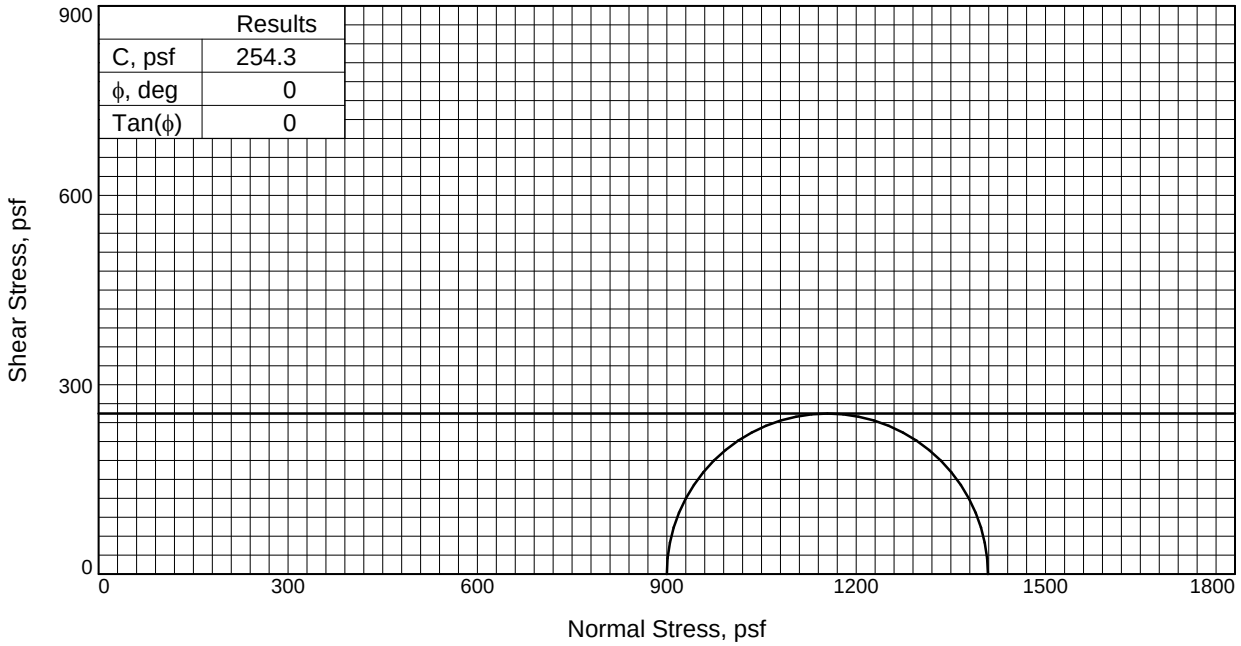


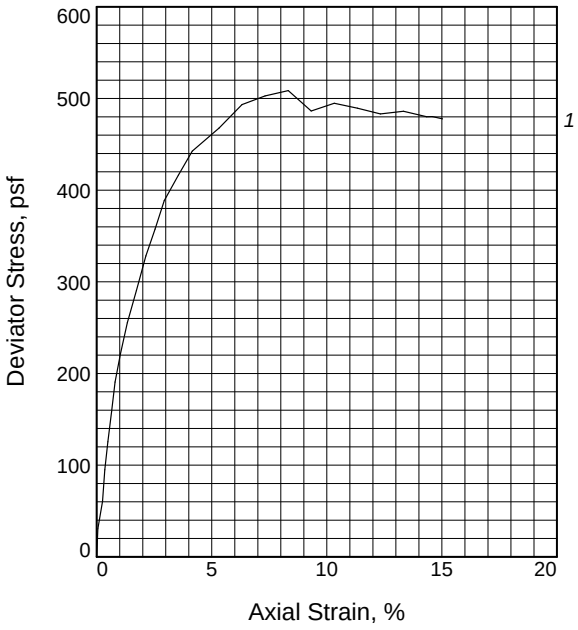




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 165.0'-167.0' **Sample Number:** BW-10 T-10
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	36.3
	Dry Density, pcf	85.7
	Saturation, %	102.3
	Void Ratio	0.9505
	Diameter, in.	2.795
	Height, in.	5.422
At Test	Water Content, %	40.9
	Dry Density, pcf	85.7
	Saturation, %	115.2
	Void Ratio	0.9505
	Diameter, in.	2.795
	Height, in.	5.422
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		900.0
Fail. Stress, psf		508.6
Strain, %		8.3
Ult. Stress, psf		508.6
Strain, %		8.3
σ_1 Failure, psf		1408.6
σ_3 Failure, psf		900.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(22))

Specific Gravity= 2.679

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

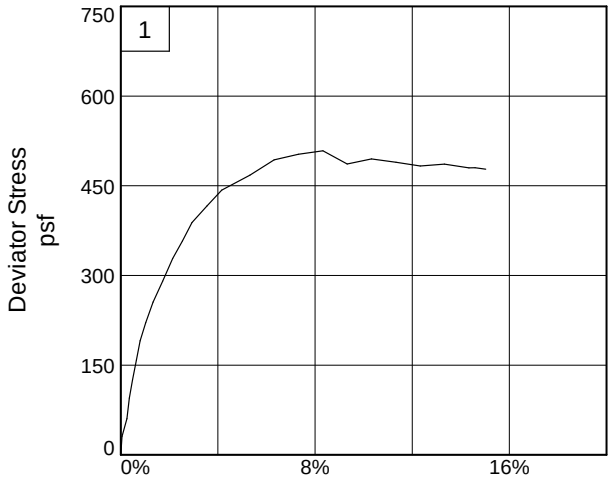
Project: Mobile River Bridge

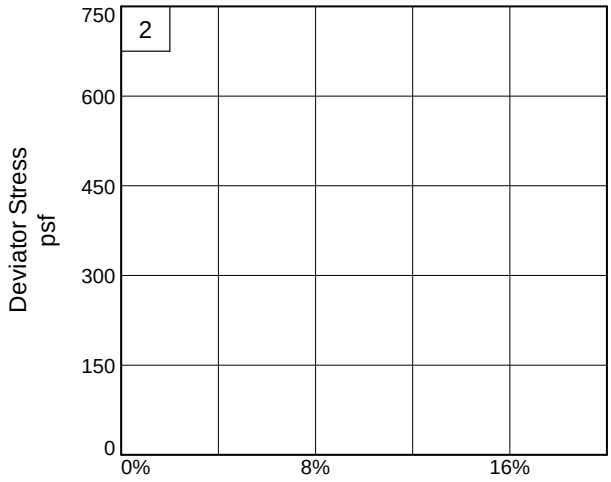
Source of Sample: Lab #7928 **Depth:** 18.0'-20.0'

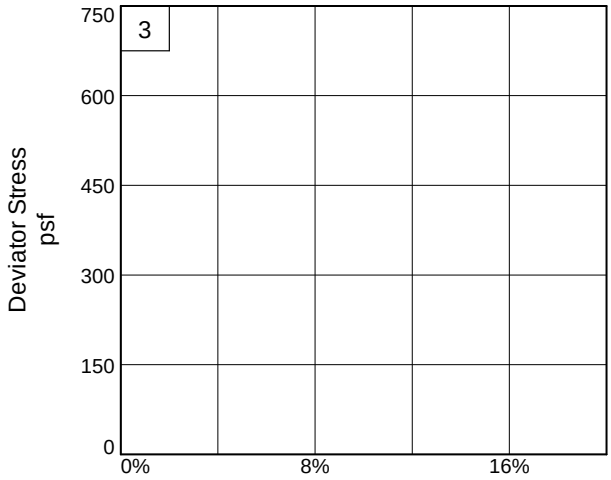
Sample Number: BW-11 T-1

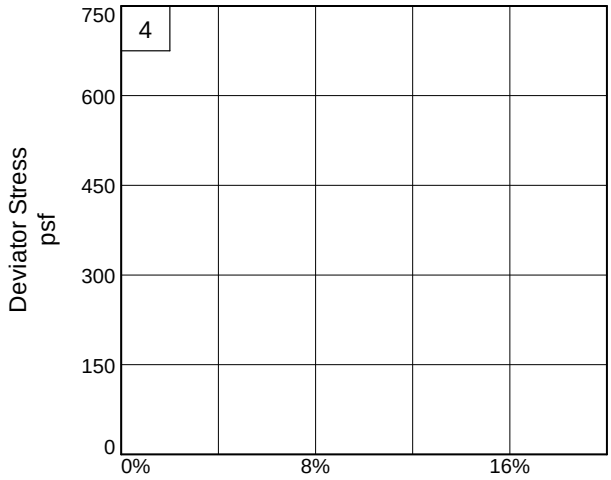
Proj. No.: 1511010228 **Date Sampled:**

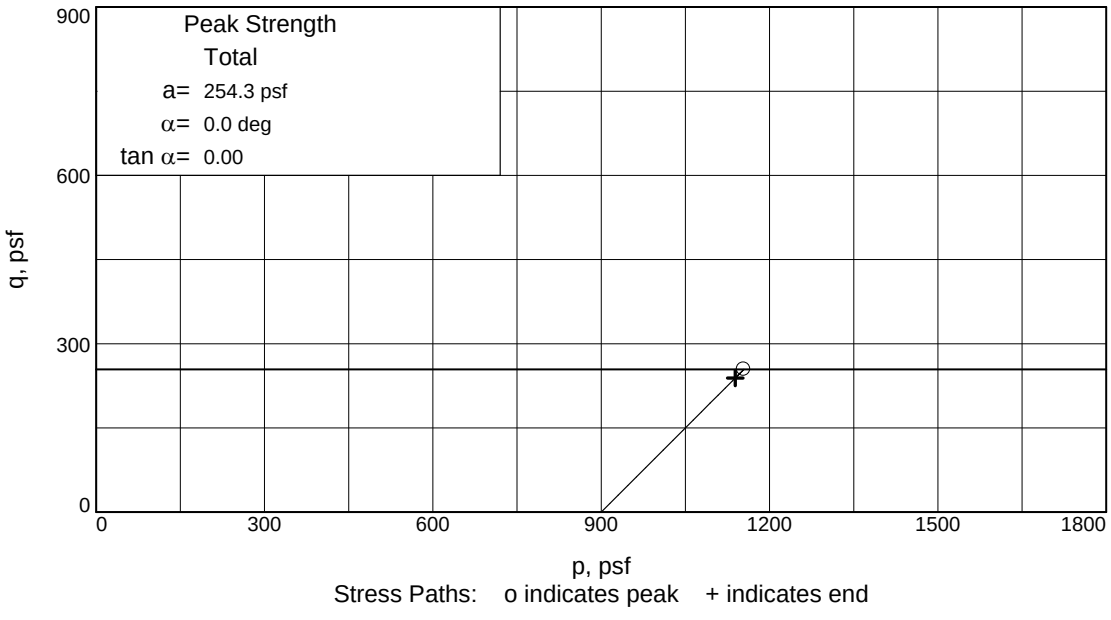
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Mobile, Alabama





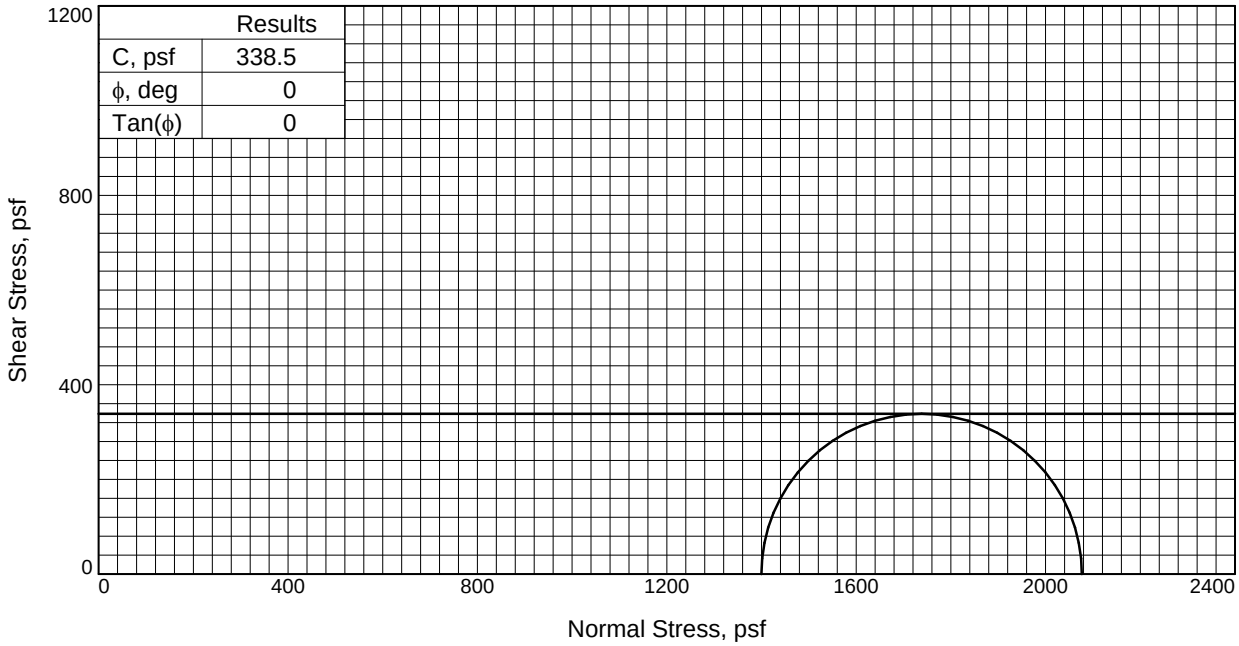


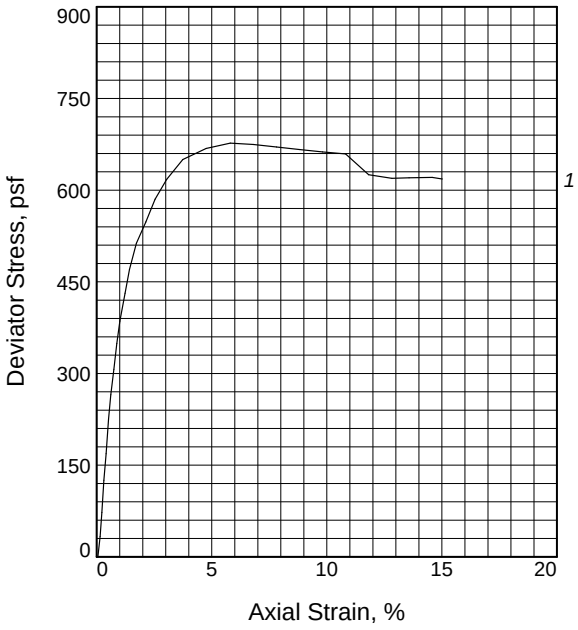




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 18.0'-20.0' **Sample Number:** BW-11 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	48.5
	Dry Density, pcf	75.4
	Saturation, %	107.3
	Void Ratio	1.2025
	Diameter, in.	2.817
	Height, in.	5.412
At Test	Water Content, %	45.6
	Dry Density, pcf	75.4
	Saturation, %	100.8
	Void Ratio	1.2025
	Diameter, in.	2.817
	Height, in.	5.412
Strain at peak, %		5.8
Back Pressure, psf		0.0
Cell Pressure, psf		1399.7
Fail. Stress, psf		676.9
Strain, %		5.8
Ult. Stress, psf		676.9
Strain, %		5.8
σ_1 Failure, psf		2076.6
σ_3 Failure, psf		1399.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-2-6(3))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

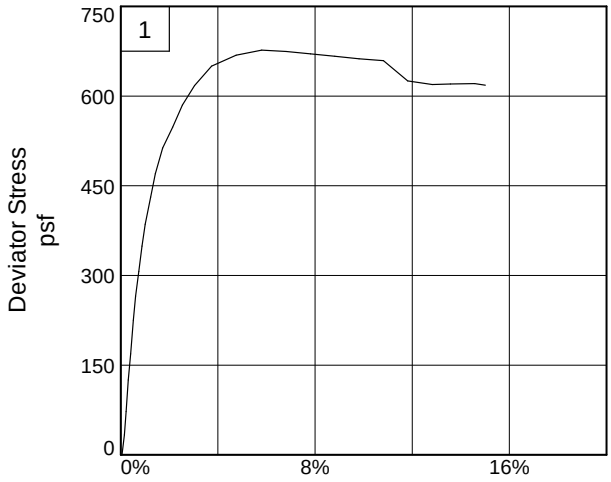
Project: Mobile River Bridge

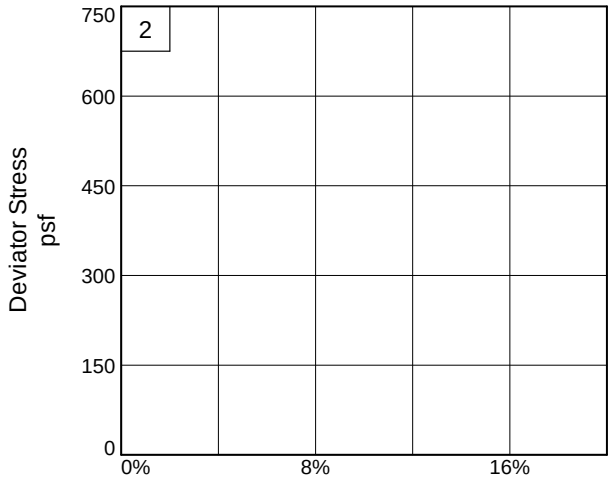
Source of Sample: Lab #7928 **Depth:** 28.0'-30.0'

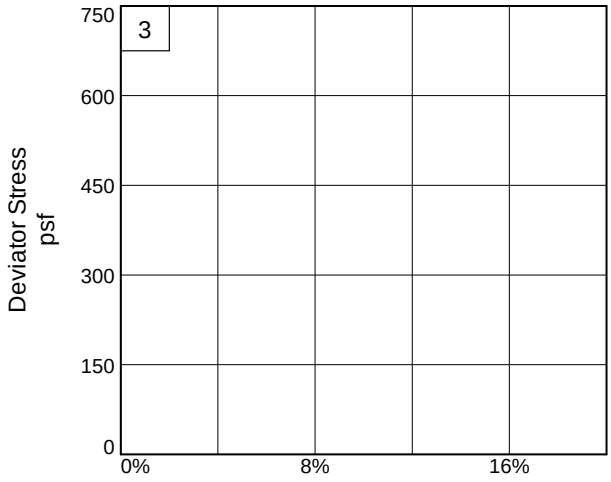
Sample Number: BW-11 T-2

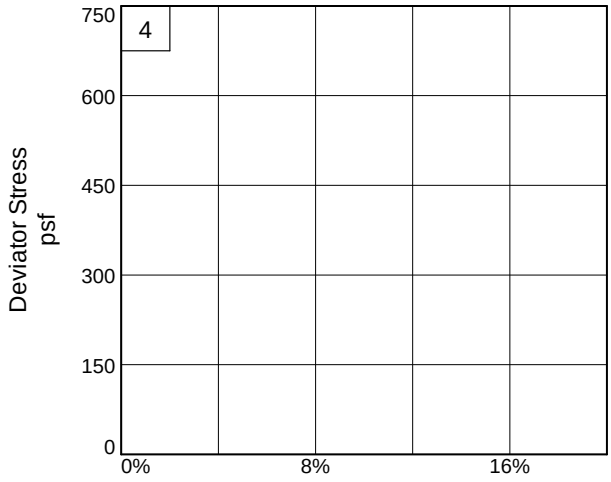
Proj. No.: 1511010228 **Date Sampled:**

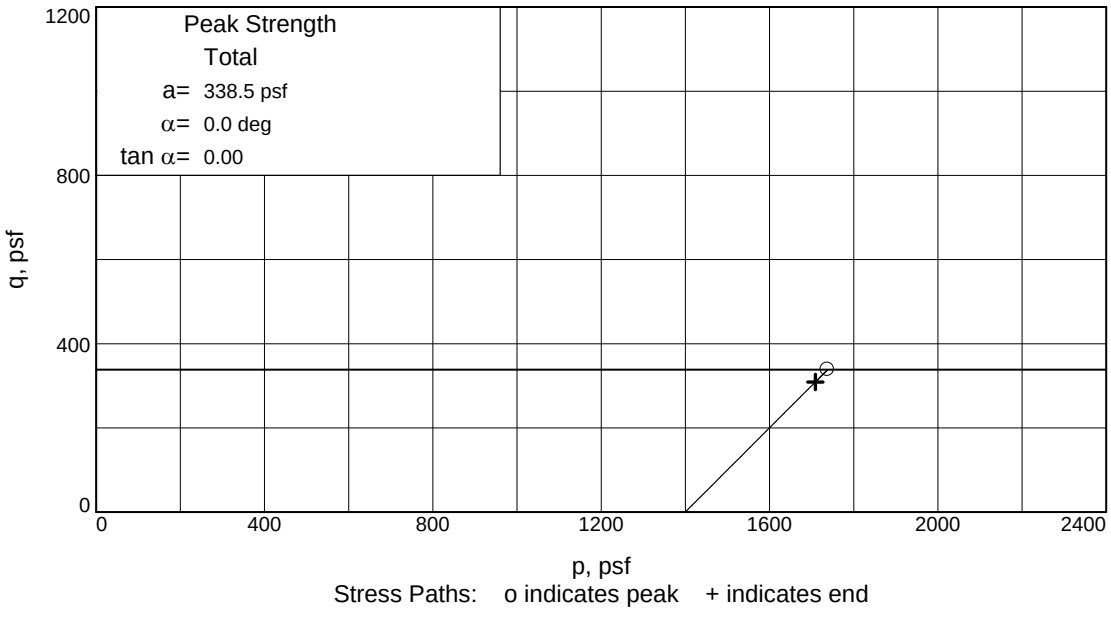
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

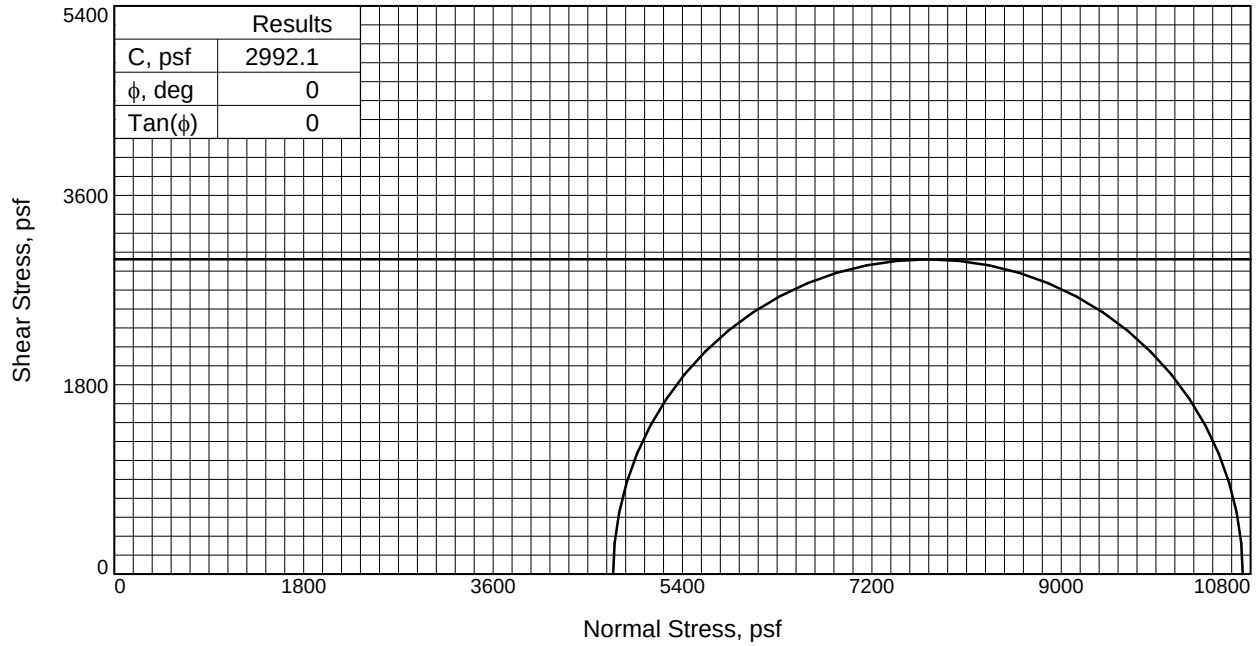
Client: ALDOT

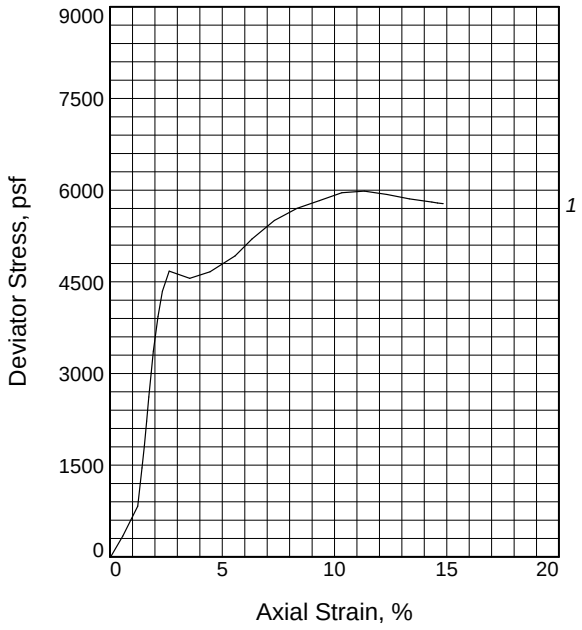
Project: Mobile River Bridge

Source of Sample: Lab #7928 **Depth:** 28.0'-30.0' **Sample Number:** BW-11 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	24.1
	Dry Density, pcf	103.6
	Saturation, %	94.0
	Void Ratio	0.7407
	Diameter, in.	2.856
	Height, in.	5.572
At Test	Water Content, %	24.3
	Dry Density, pcf	103.6
	Saturation, %	94.8
	Void Ratio	0.7407
	Diameter, in.	2.856
	Height, in.	5.572
Strain at peak, %		11.3
Back Pressure, psf		0.0
Cell Pressure, psf		4740.5
Fail. Stress, psf		5984.2
Strain, %		11.3
Ult. Stress, psf		5984.2
Strain, %		11.3
σ_1 Failure, psf		10724.7
σ_3 Failure, psf		4740.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description:

Specific Gravity= 2.888

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

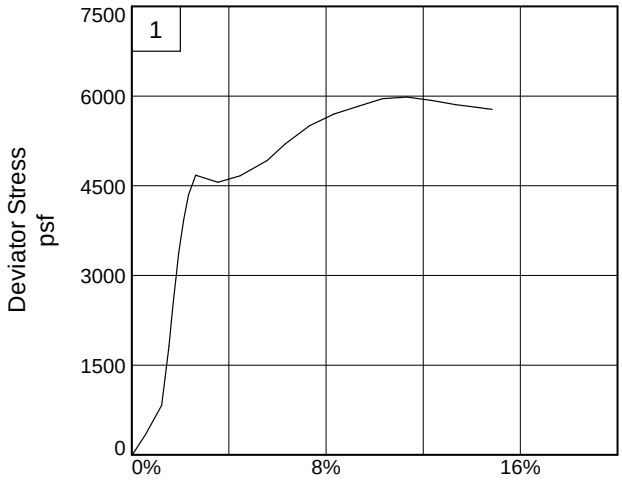
Project: Mobile River Bridge

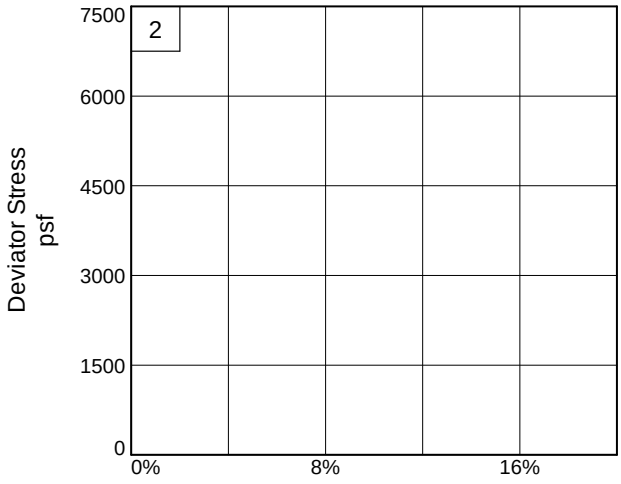
Source of Sample: Lab #7928 **Depth:** 100.0'-102.0'

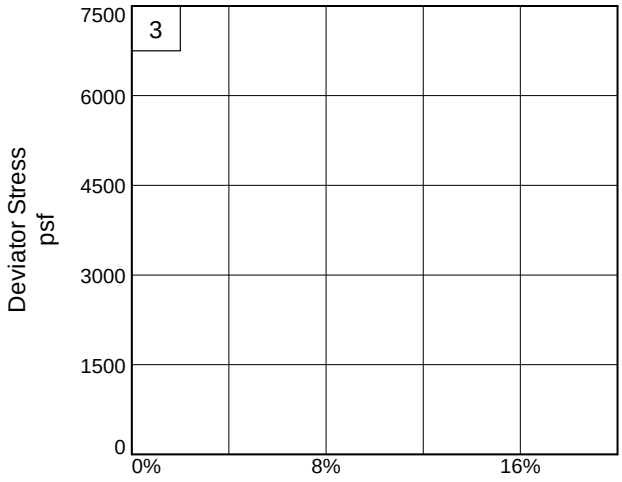
Sample Number: BW-11 T-5

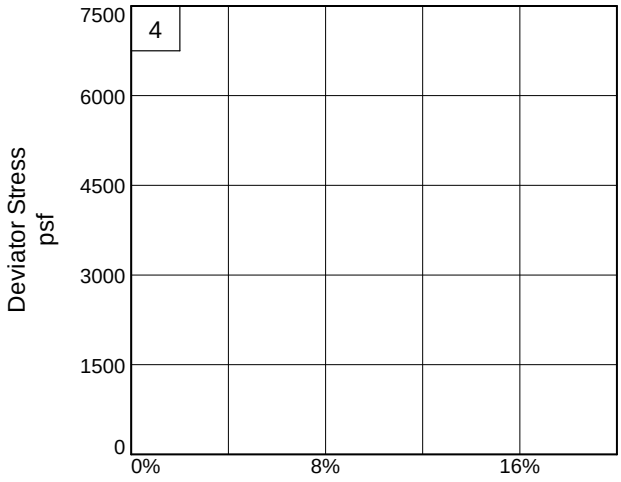
Proj. No.: 1511010228 **Date Sampled:**

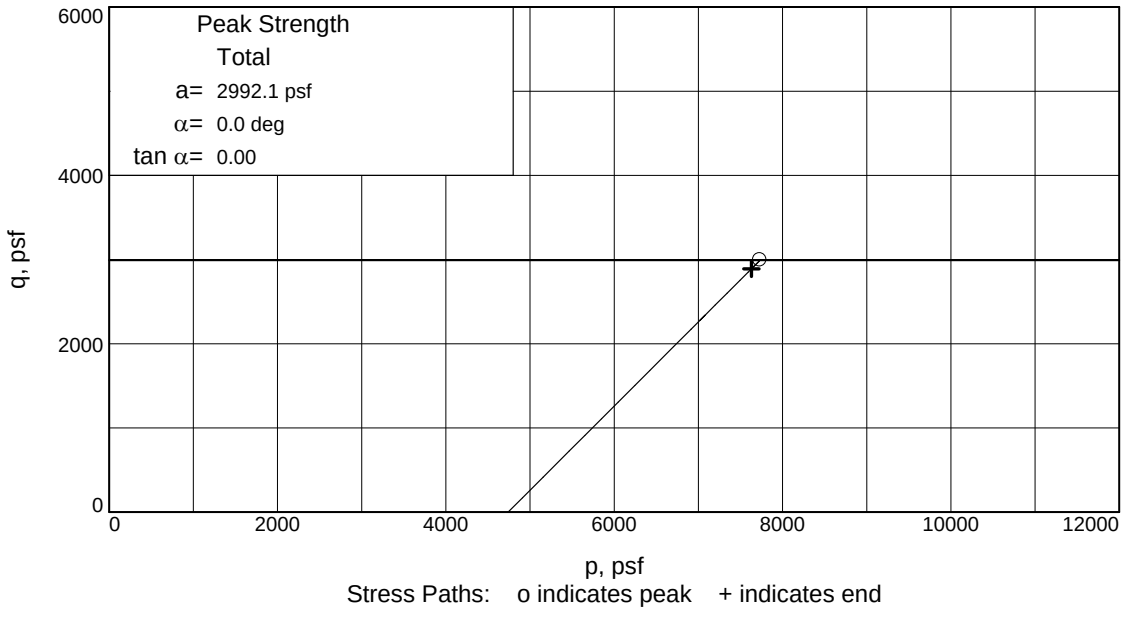
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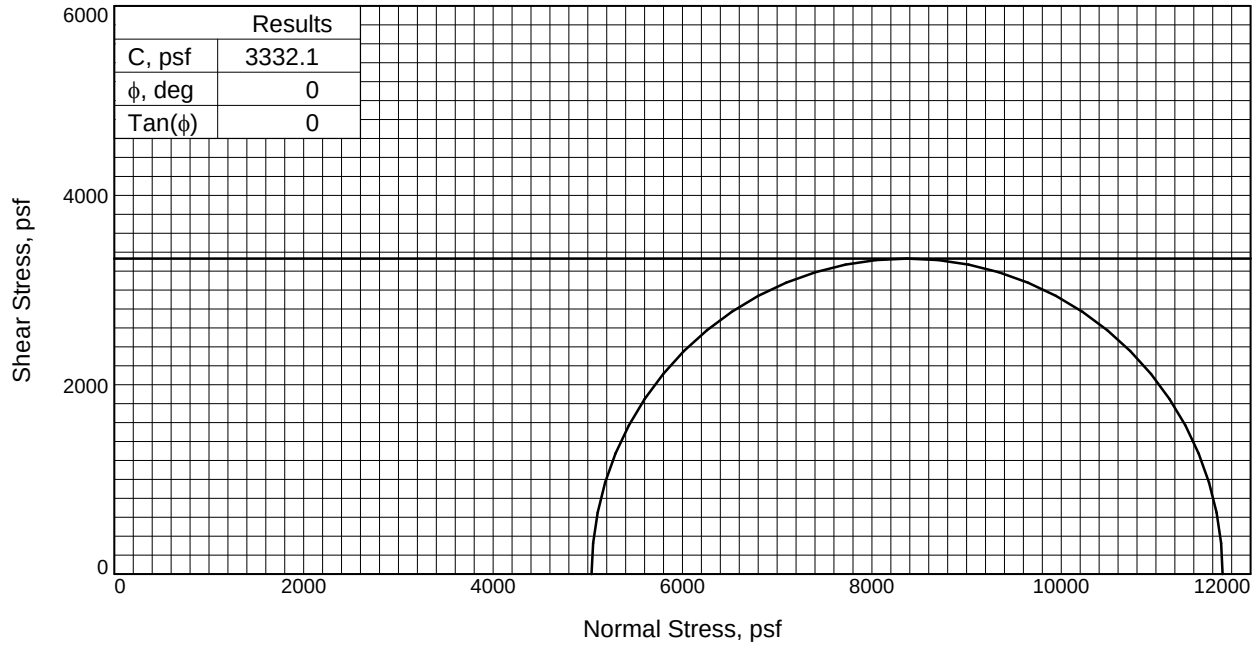


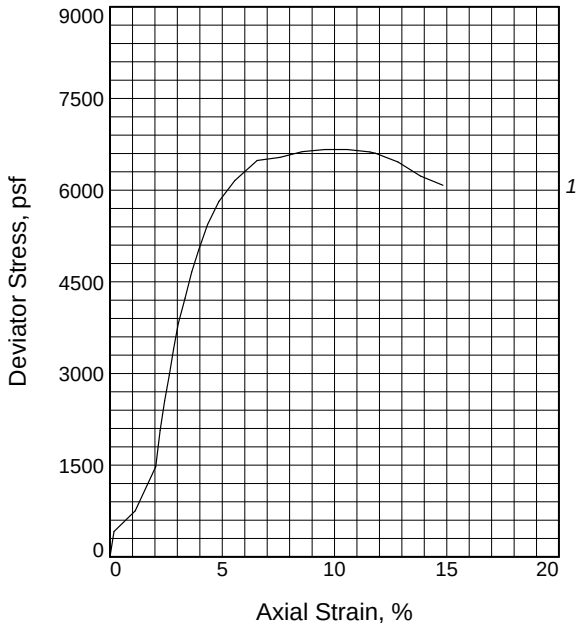




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 100.0'-102.0' **Sample Number:** BW-11 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	21.0
	Dry Density, pcf	107.8
	Saturation, %	103.0
	Void Ratio	0.5410
	Diameter, in.	2.860
	Height, in.	5.398
At Test	Water Content, %	21.5
	Dry Density, pcf	107.8
	Saturation, %	105.9
	Void Ratio	0.5410
	Diameter, in.	2.860
	Height, in.	5.398
Strain at peak, %		10.6
Back Pressure, psf		0.0
Cell Pressure, psf		5040.0
Fail. Stress, psf		6664.2
Strain, %		10.6
Ult. Stress, psf		6664.2
Strain, %		10.6
σ_1 Failure, psf		11704.2
σ_3 Failure, psf		5040.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(33))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

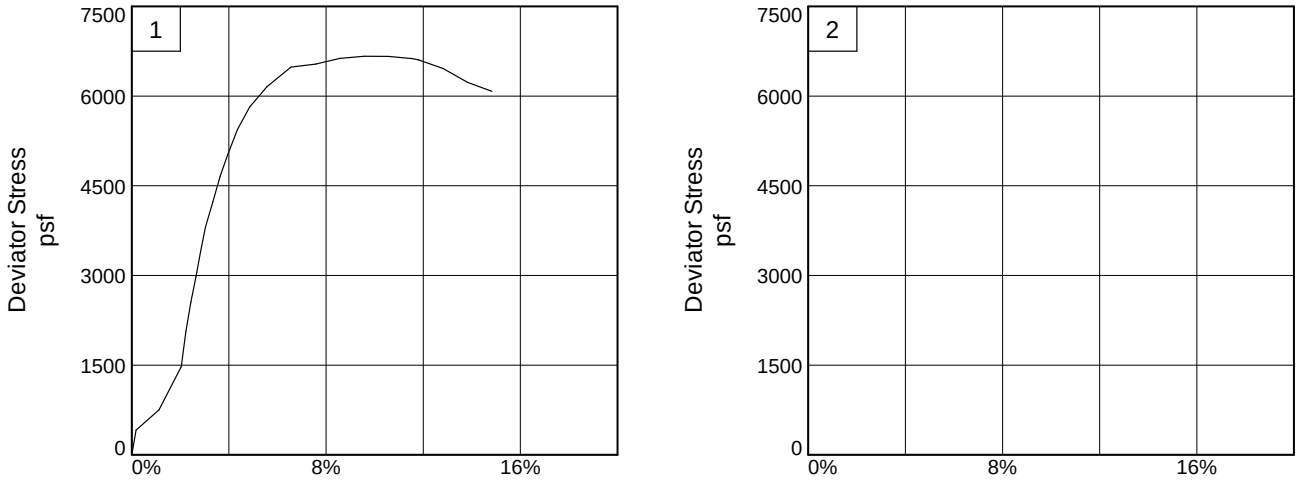
Project: Mobile River Bridge

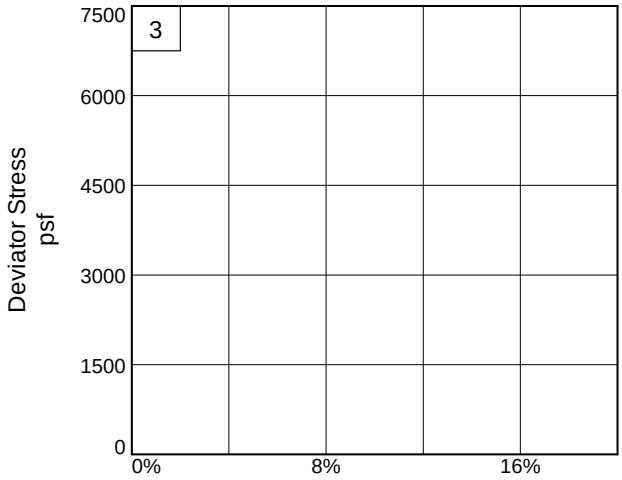
Source of Sample: Lab #7928 **Depth:** 105.0'-107.0'

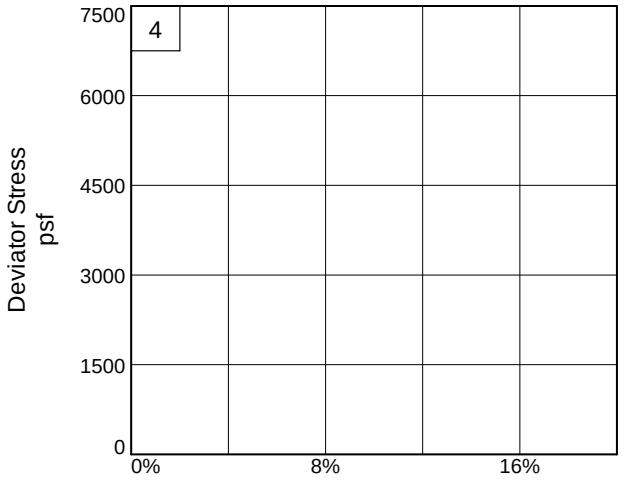
Sample Number: BW-12 T-6

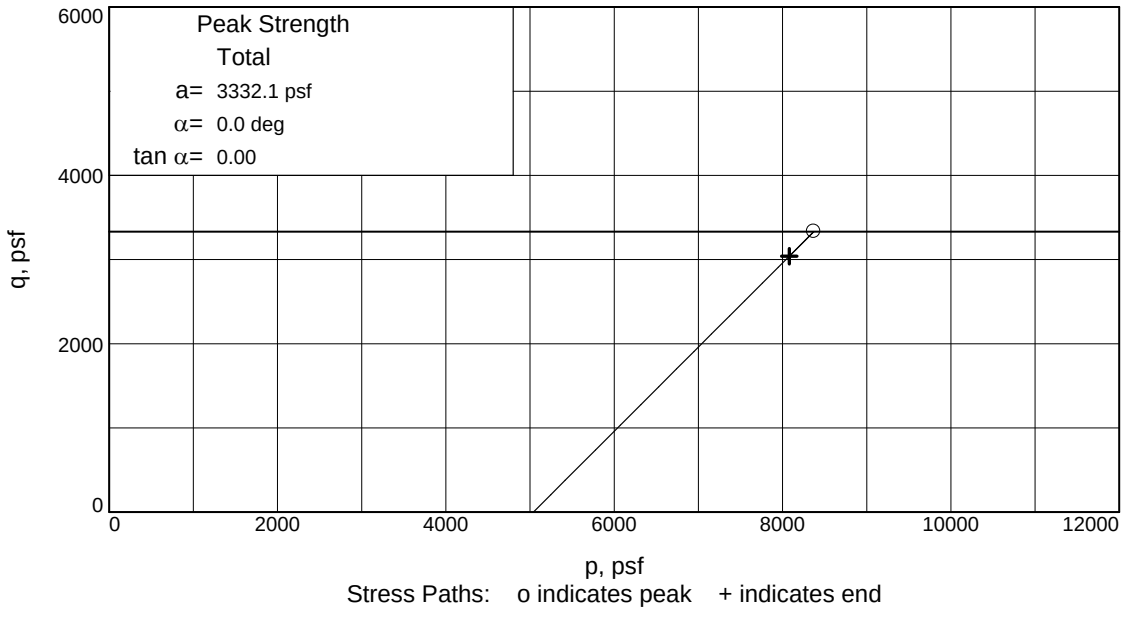
Proj. No.: 1511010228 **Date Sampled:**

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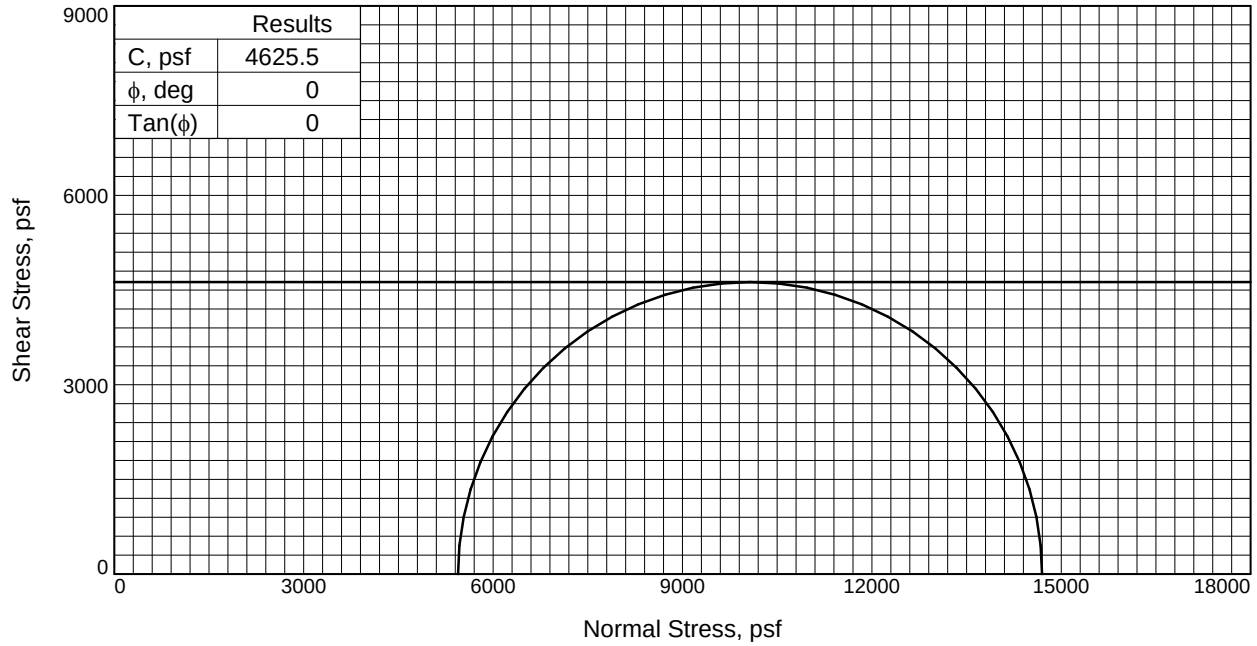


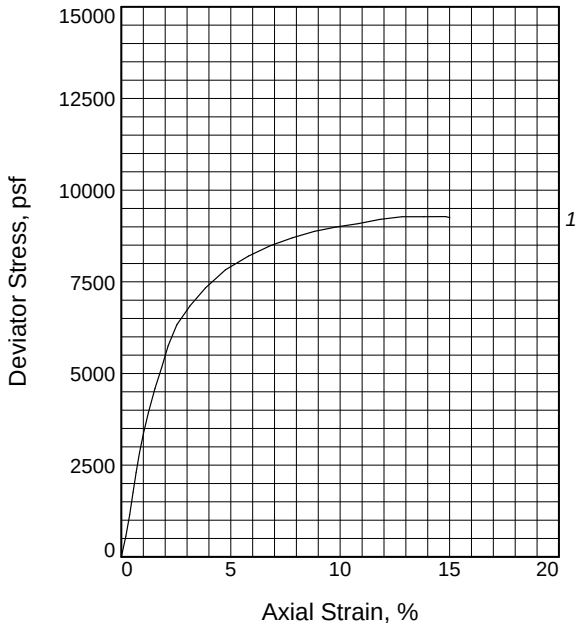




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 105.0'-107.0' **Sample Number:** BW-12 T-6
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	17.3
	Dry Density, pcf	113.9
	Saturation, %	96.5
	Void Ratio	0.4874
	Diameter, in.	2.870
	Height, in.	5.471
At Test	Water Content, %	17.2
	Dry Density, pcf	113.9
	Saturation, %	95.6
	Void Ratio	0.4874
	Diameter, in.	2.870
	Height, in.	5.471
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		5444.6
Fail. Stress, psf		9251.1
Strain, %		15.0
Ult. Stress, psf		9251.1
Strain, %		15.0
σ_1 Failure, psf		14695.7
σ_3 Failure, psf		5444.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(9))

Specific Gravity= 2.713

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

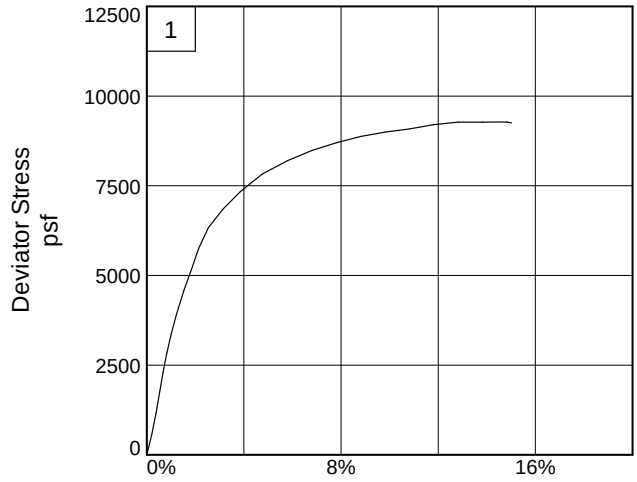
Project: Mobile River Bridge

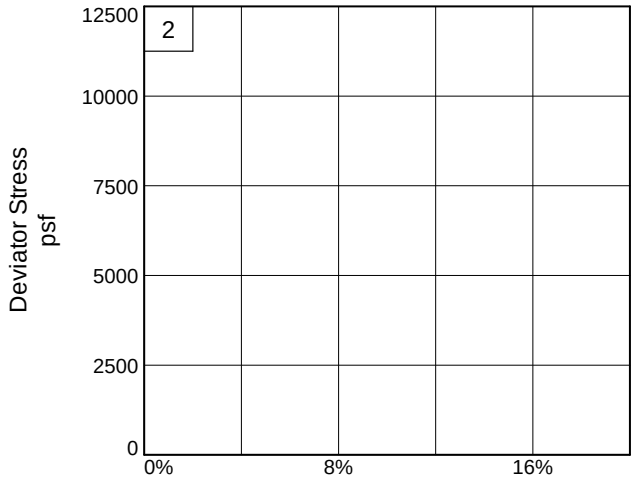
Source of Sample: Lab #7928 **Depth:** 113.0'-115.0'

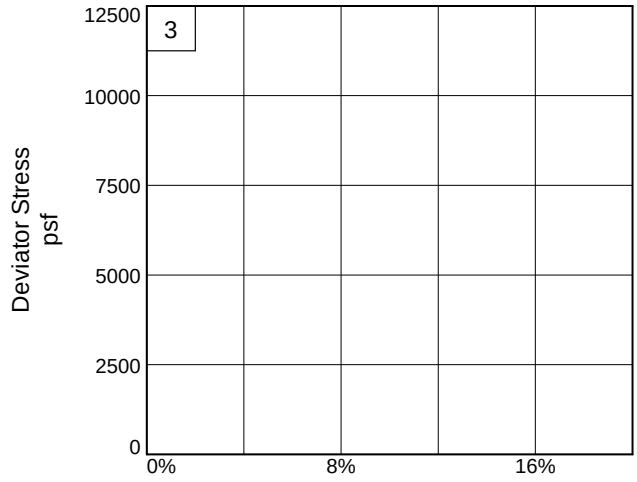
Sample Number: BW-12 T-7

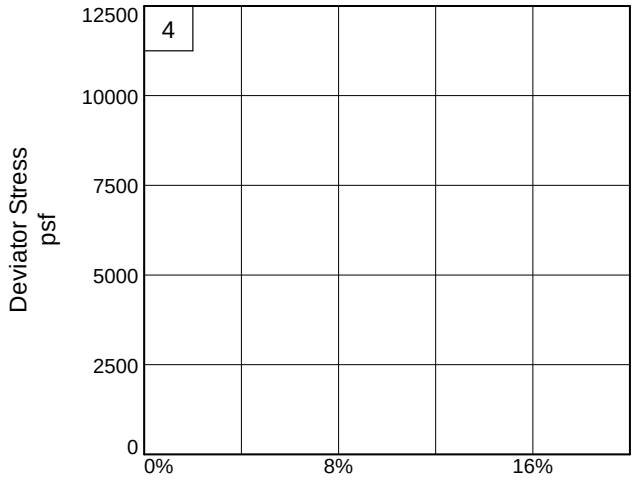
Proj. No.: 1511010228 **Date Sampled:**

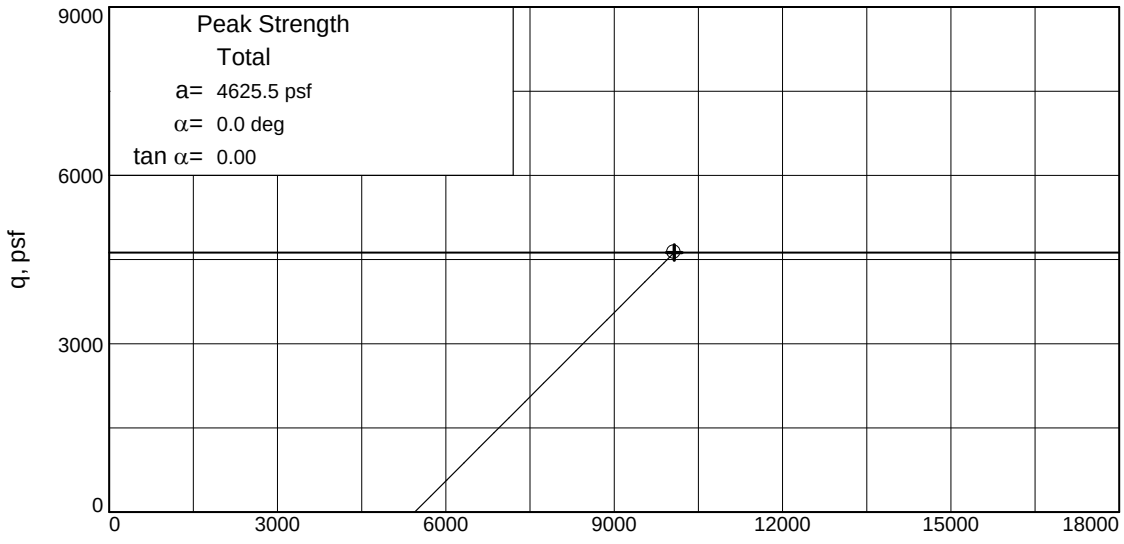
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Mobile, Alabama







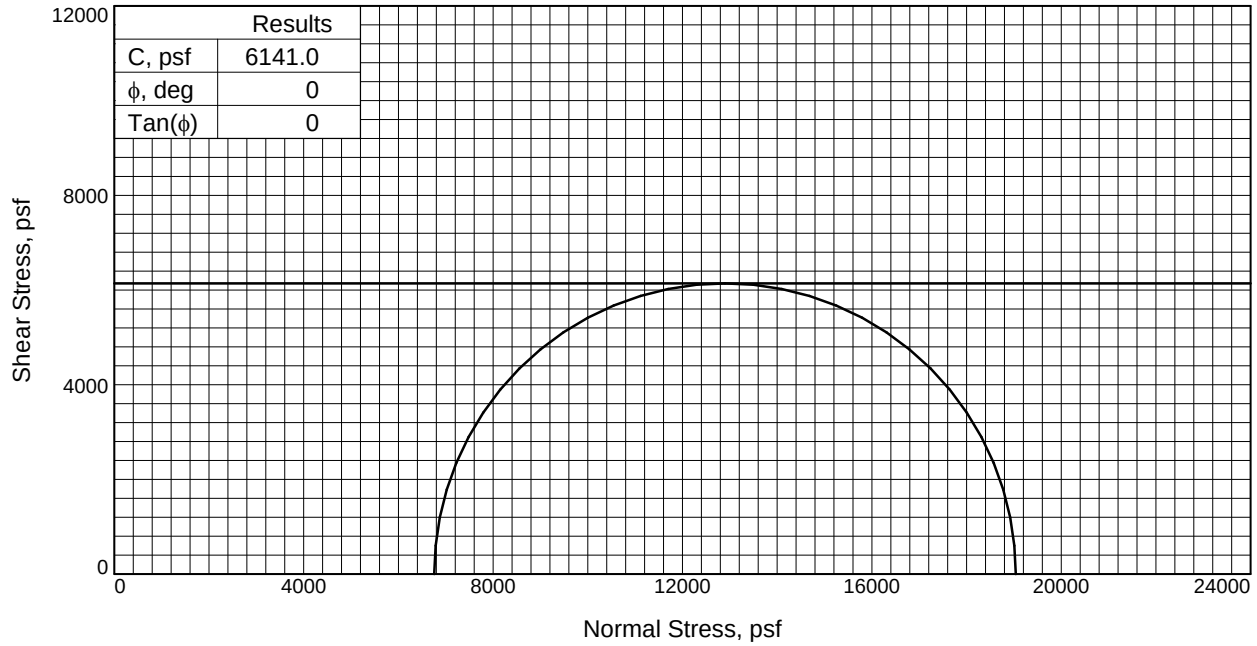


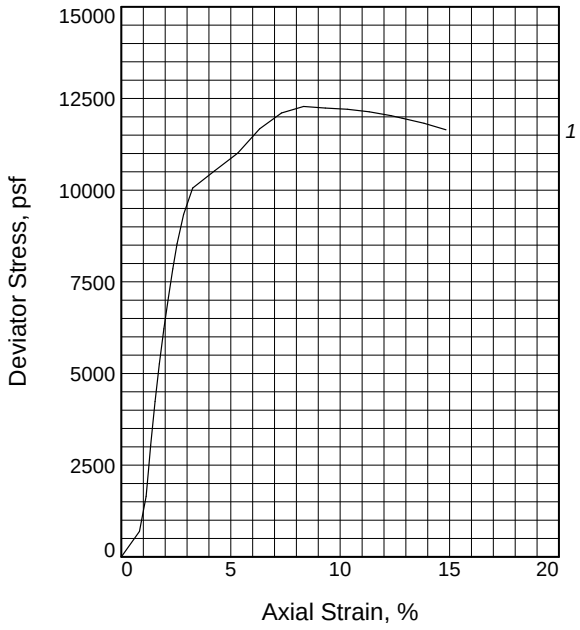


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 113.0'-115.0' **Sample Number:** BW-12 T-7
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	24.0
	Dry Density, pcf	102.7
	Saturation, %	99.7
	Void Ratio	0.6580
	Diameter, in.	2.867
	Height, in.	5.210
At Test	Water Content, %	22.1
	Dry Density, pcf	102.7
	Saturation, %	91.7
	Void Ratio	0.6580
	Diameter, in.	2.867
	Height, in.	5.210
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		6756.5
Fail. Stress, psf		12282.0
Strain, %		8.3
Ult. Stress, psf		12282.0
Strain, %		8.3
σ_1 Failure, psf		19038.4
σ_3 Failure, psf		6756.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(29))

Specific Gravity= 2.728

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

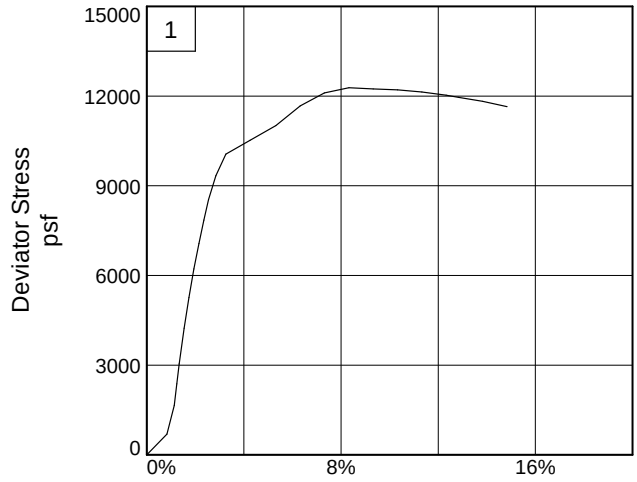
Project: Mobile River Bridge

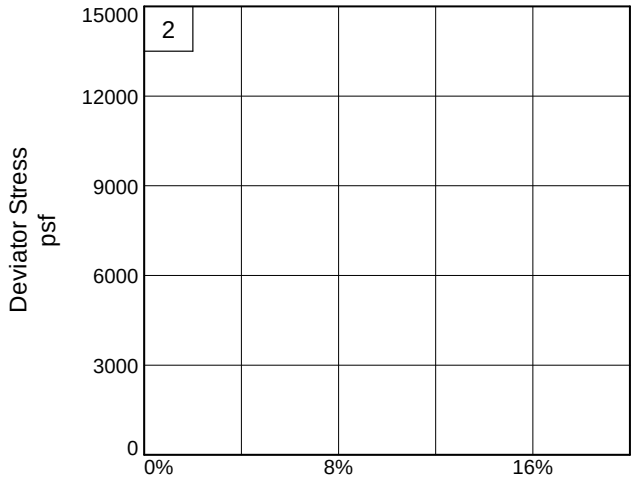
Source of Sample: Lab #7928 **Depth:** 140.0'-142.0'

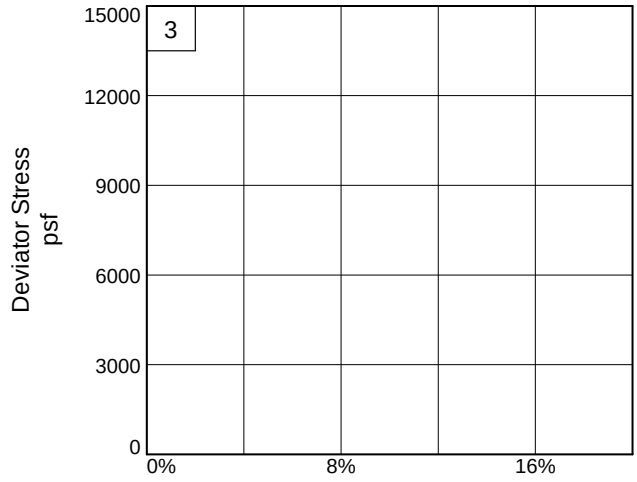
Sample Number: BW-12 T-9

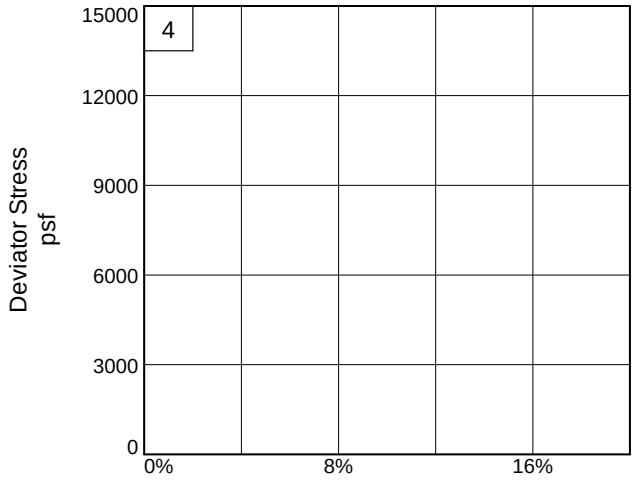
Proj. No.: 1511010228 **Date Sampled:**

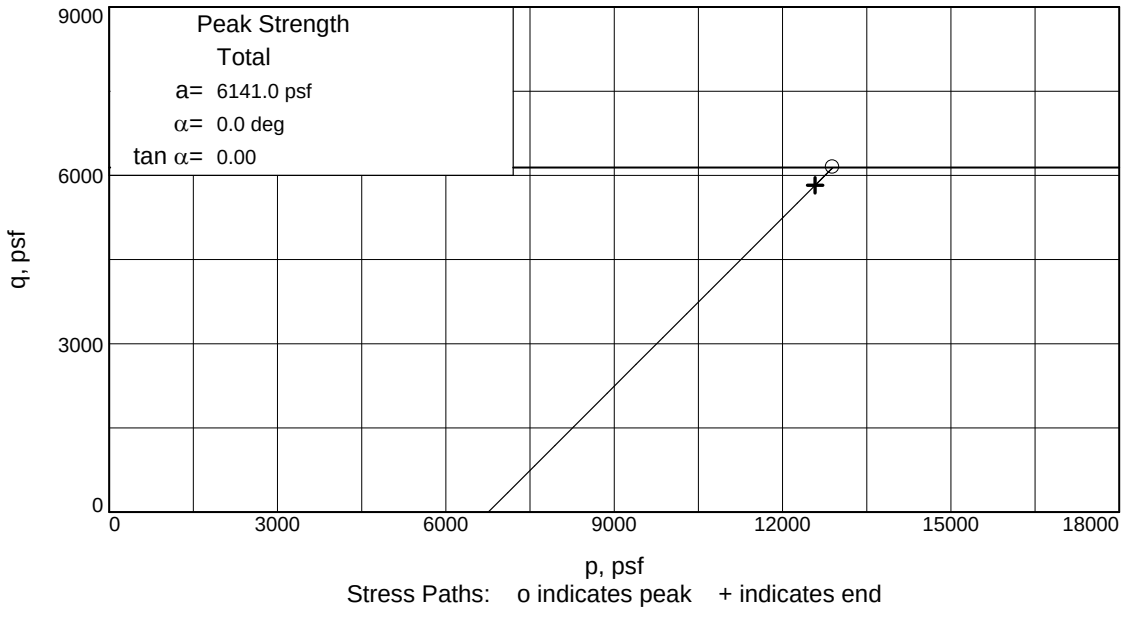
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Mobile, Alabama





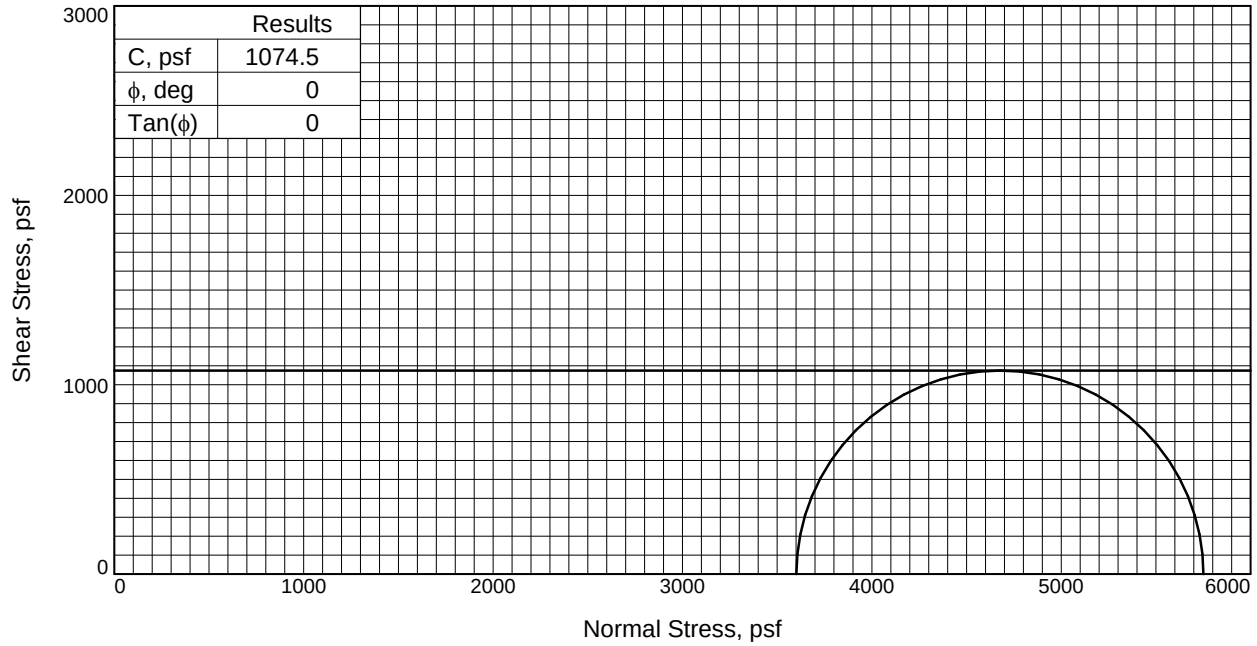


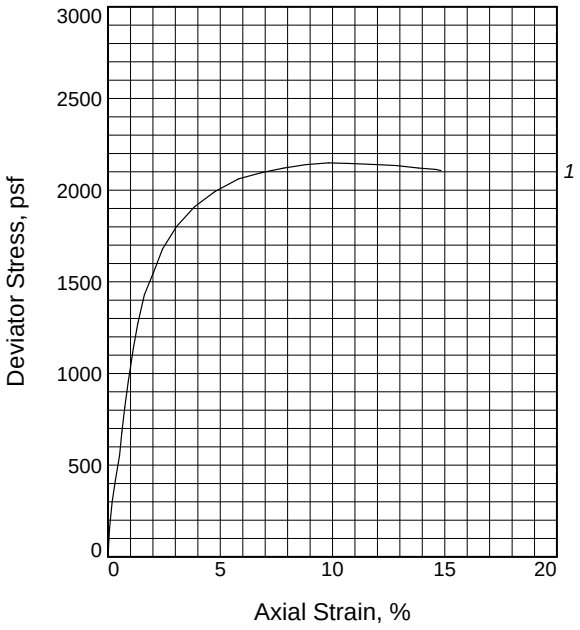




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 140.0'-142.0' **Sample Number:** BW-12 T-9
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	35.2
	Dry Density, pcf	87.4
	Saturation, %	106.9
	Void Ratio	0.8550
	Diameter, in.	2.837
	Height, in.	5.773
At Test	Water Content, %	37.0
	Dry Density, pcf	87.4
	Saturation, %	112.4
	Void Ratio	0.8550
	Diameter, in.	2.837
	Height, in.	5.773
Strain at peak, %		9.8
Back Pressure, psf		0.0
Cell Pressure, psf		3601.4
Fail. Stress, psf		2149.0
Strain, %		9.8
Ult. Stress, psf		2149.0
Strain, %		9.8
σ_1 Failure, psf		5750.4
σ_3 Failure, psf		3601.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(26))

Specific Gravity= 2.598

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

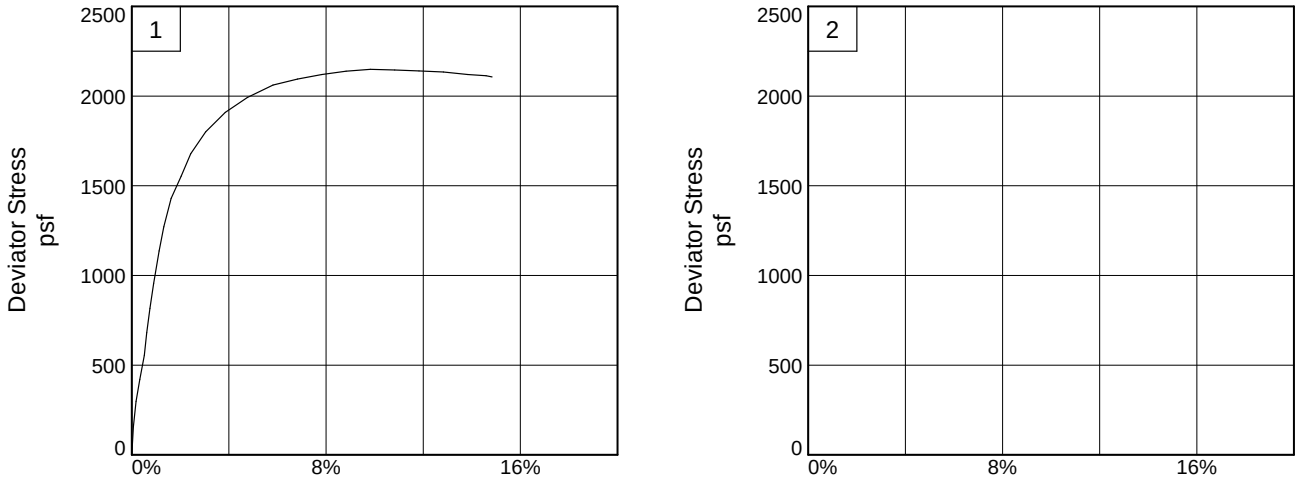
Project: Mobile River Bridge

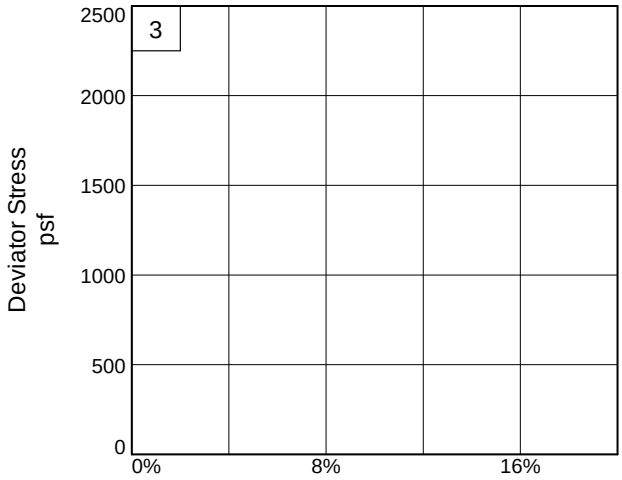
Source of Sample: Lab #7852 **Depth:** 73.0'-75.0'

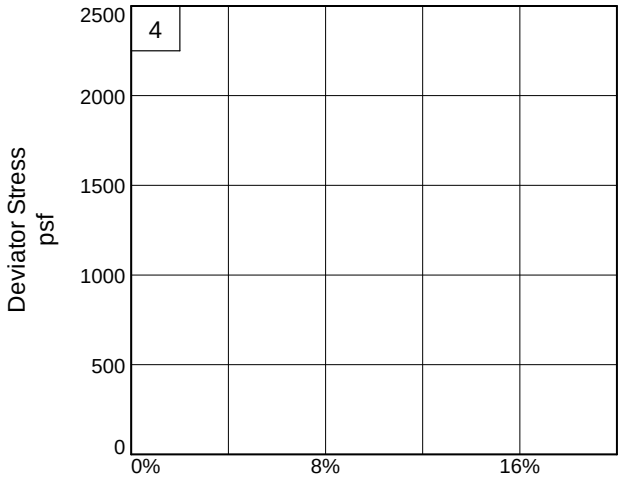
Sample Number: BW-14 T-3

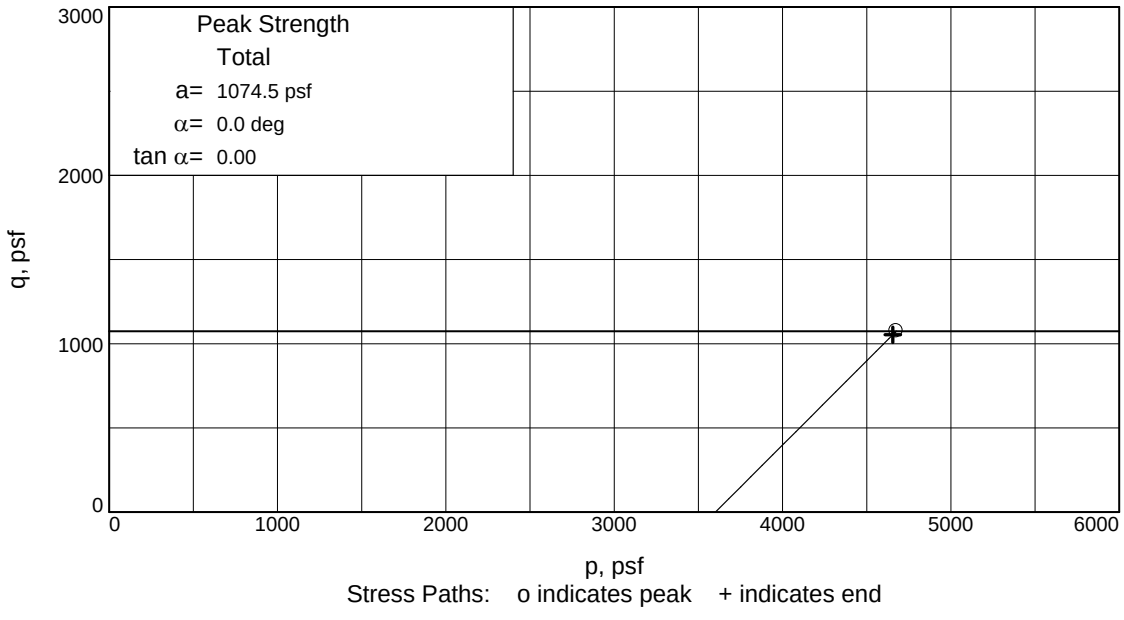
Proj. No.: 1511010228 **Date Sampled:**

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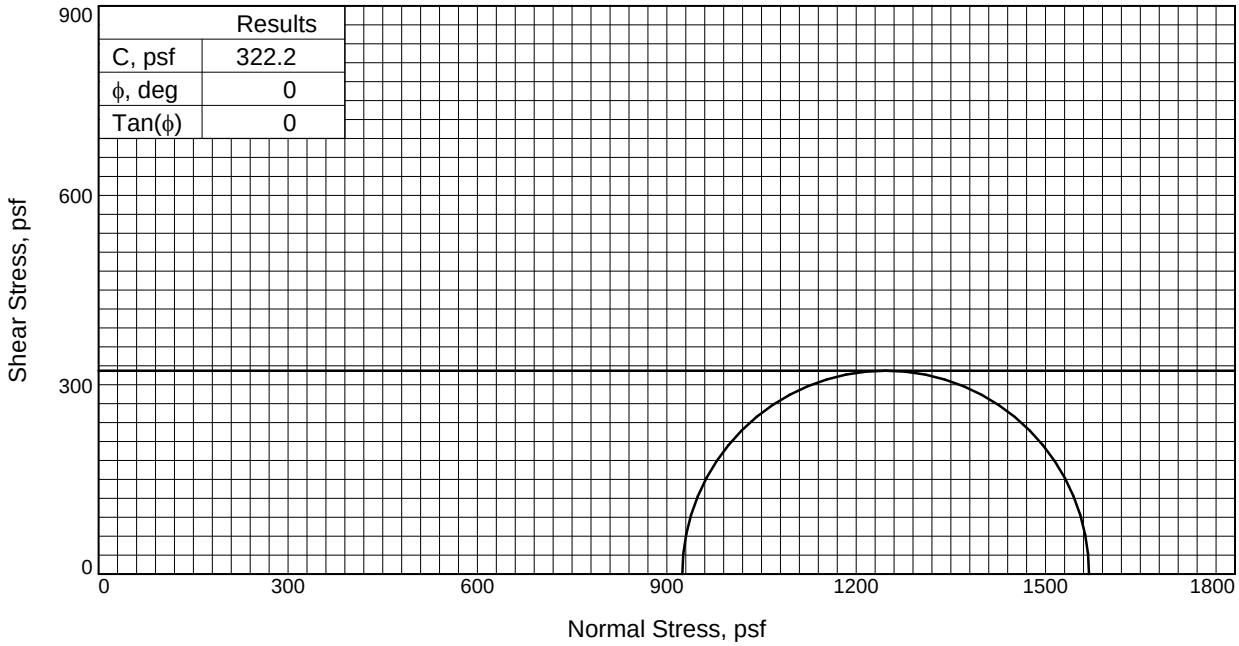


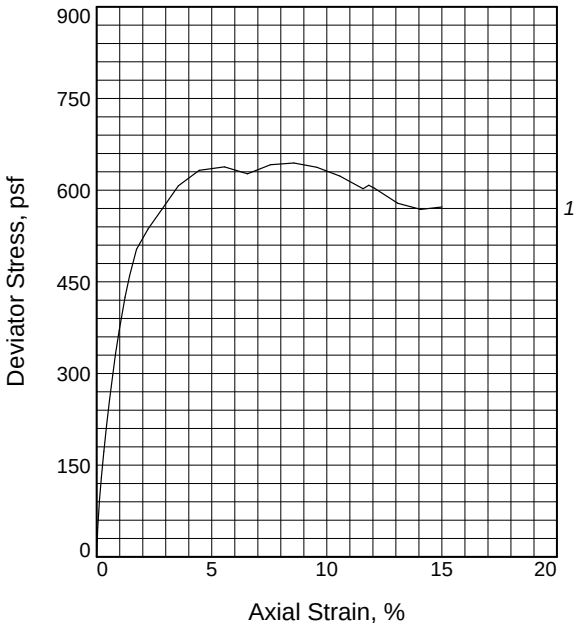




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 73.0'-75.0' **Sample Number:** BW-14 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	35.7
	Dry Density, pcf	86.9
	Saturation, %	102.7
	Void Ratio	0.9402
	Diameter, in.	2.819
	Height, in.	5.552
At Test	Water Content, %	36.1
	Dry Density, pcf	86.9
	Saturation, %	103.7
	Void Ratio	0.9402
	Diameter, in.	2.819
	Height, in.	5.552
Strain at peak, %		8.6
Back Pressure, psf		0.0
Cell Pressure, psf		924.5
Fail. Stress, psf		644.4
Strain, %		8.6
Ult. Stress, psf		644.4
Strain, %		8.6
σ_1 Failure, psf		1568.8
σ_3 Failure, psf		924.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-7-6(10))

Specific Gravity= 2.701

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

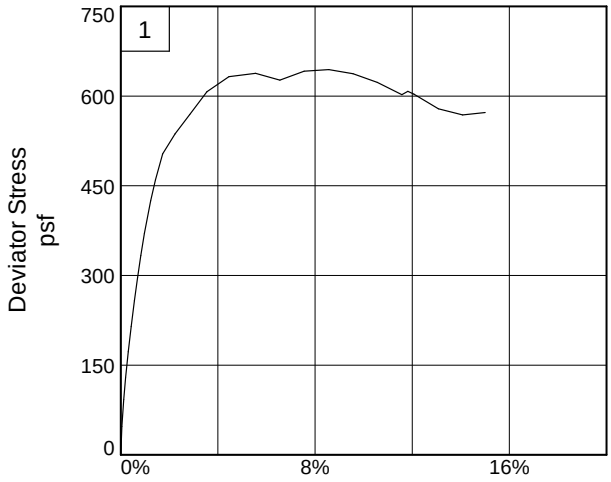
Project: Mobile River Bridge

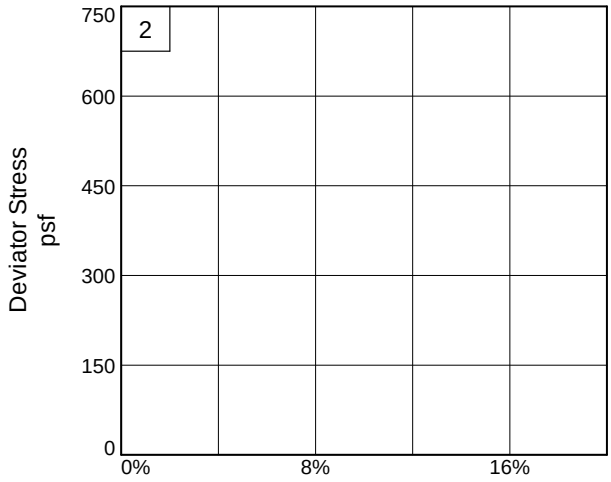
Source of Sample: Lab #7852 **Depth:** 18.5'-20.5'

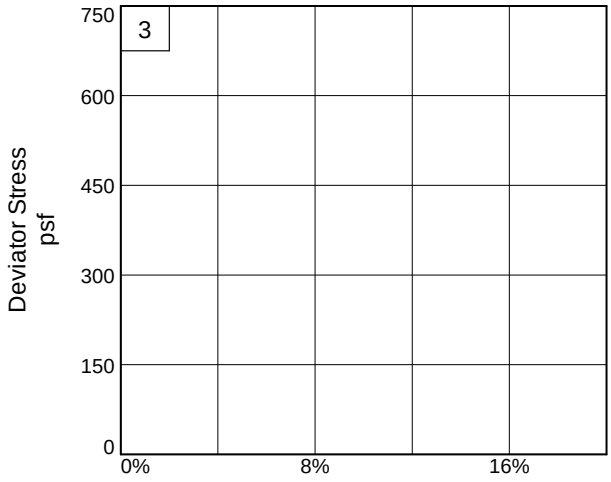
Sample Number: BW-15 T-1

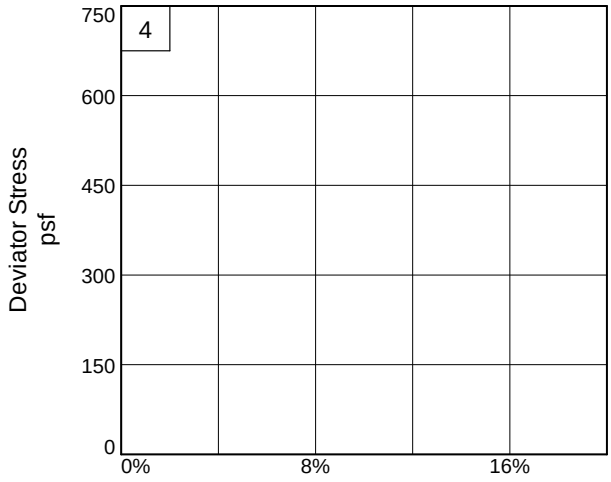
Proj. No.: 1511010228 **Date Sampled:**

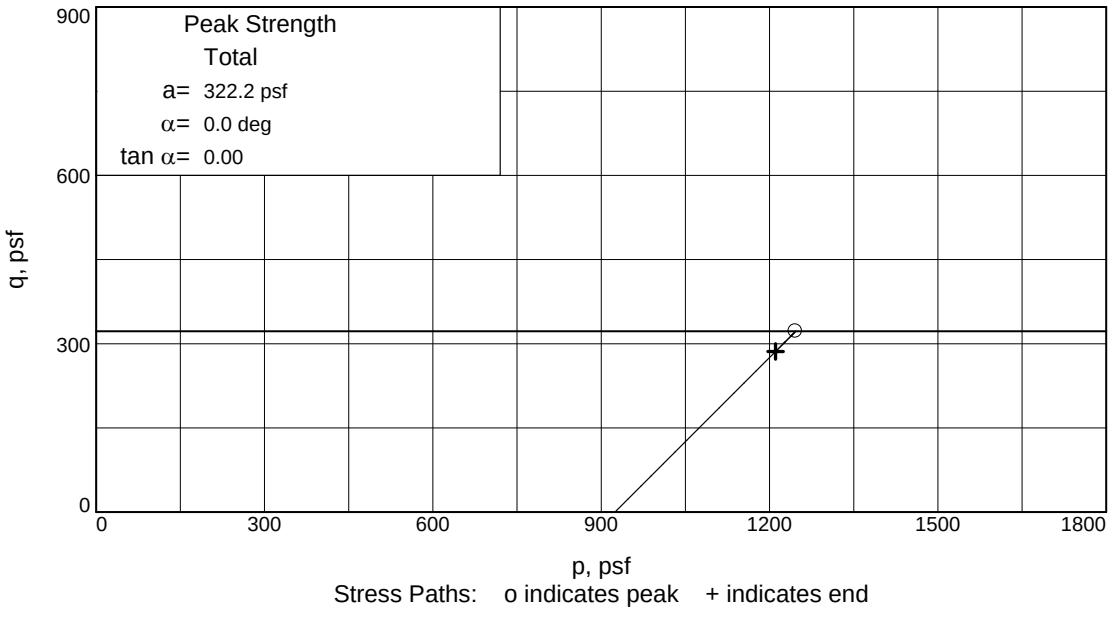
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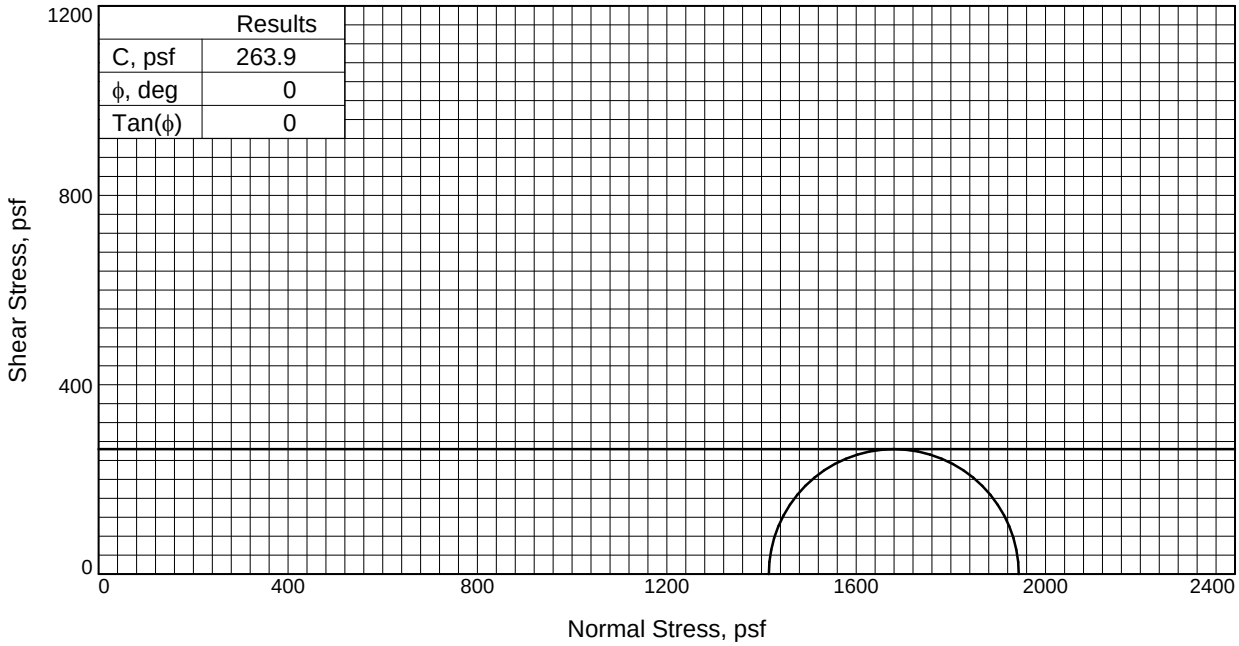


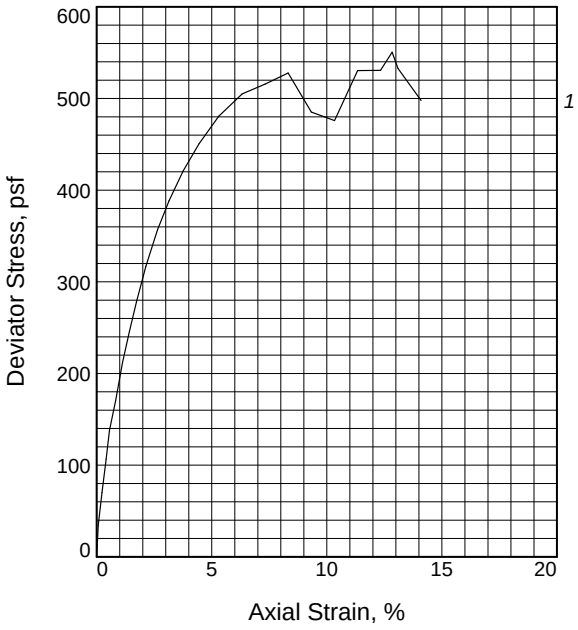




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 18.5'-20.5' **Sample Number:** BW-15 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	30.3
	Dry Density, pcf	95.3
	Saturation, %	108.4
	Void Ratio	0.7450
	Diameter, in.	2.857
	Height, in.	5.224
At Test	Water Content, %	31.1
	Dry Density, pcf	95.3
	Saturation, %	111.3
	Void Ratio	0.7450
	Diameter, in.	2.857
	Height, in.	5.224
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		1415.5
Fail. Stress, psf		527.8
Strain, %		8.3
Ult. Stress, psf		527.8
Strain, %		8.3
σ_1 Failure, psf		1943.4
σ_3 Failure, psf		1415.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.665

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

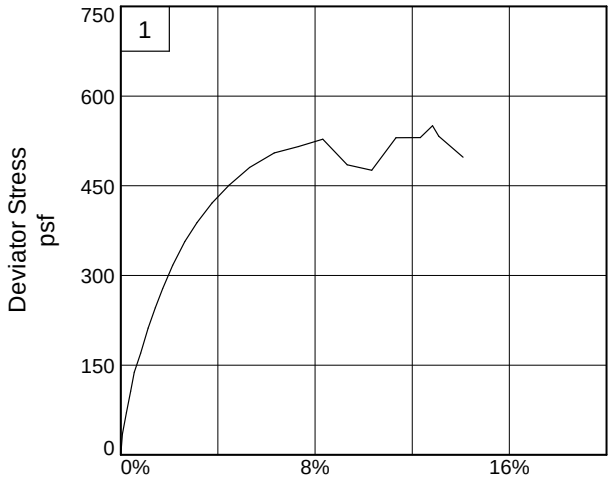
Project: Mobile River Bridge

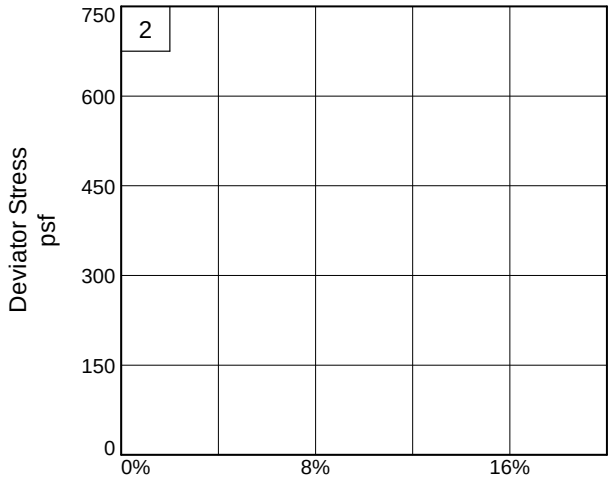
Source of Sample: Lab #7852 **Depth:** 28.5'-30.5'

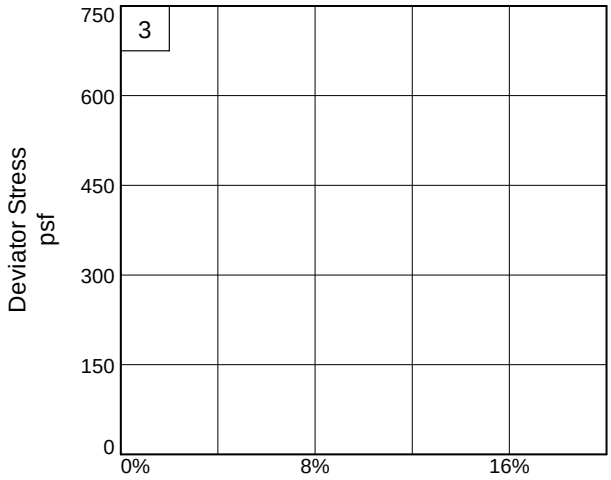
Sample Number: BW-15 T-2

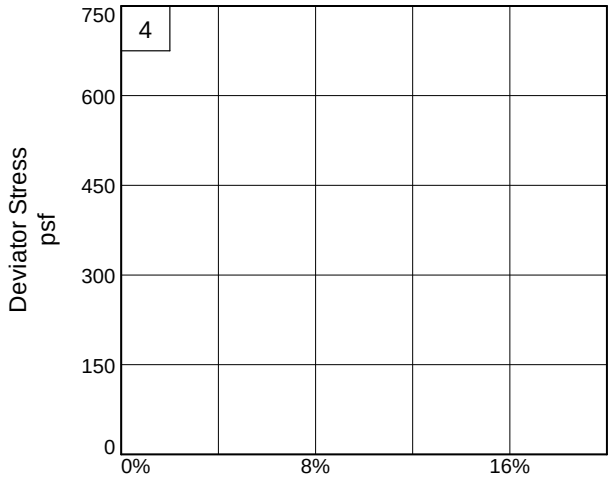
Proj. No.: 1511010228 **Date Sampled:**

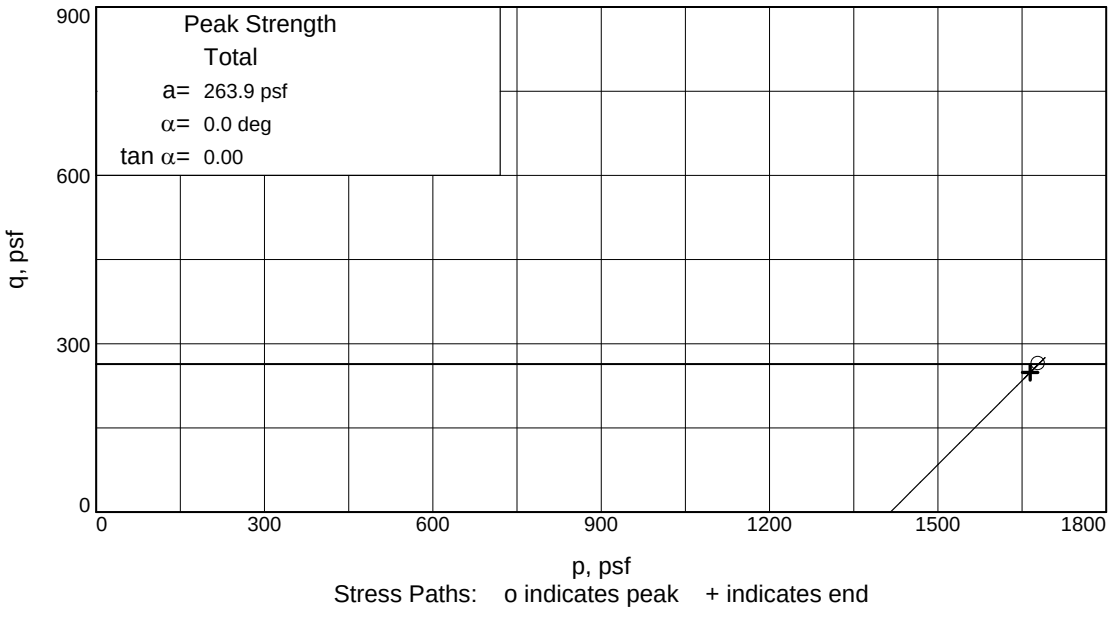
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Stress Paths: o indicates peak + indicates end

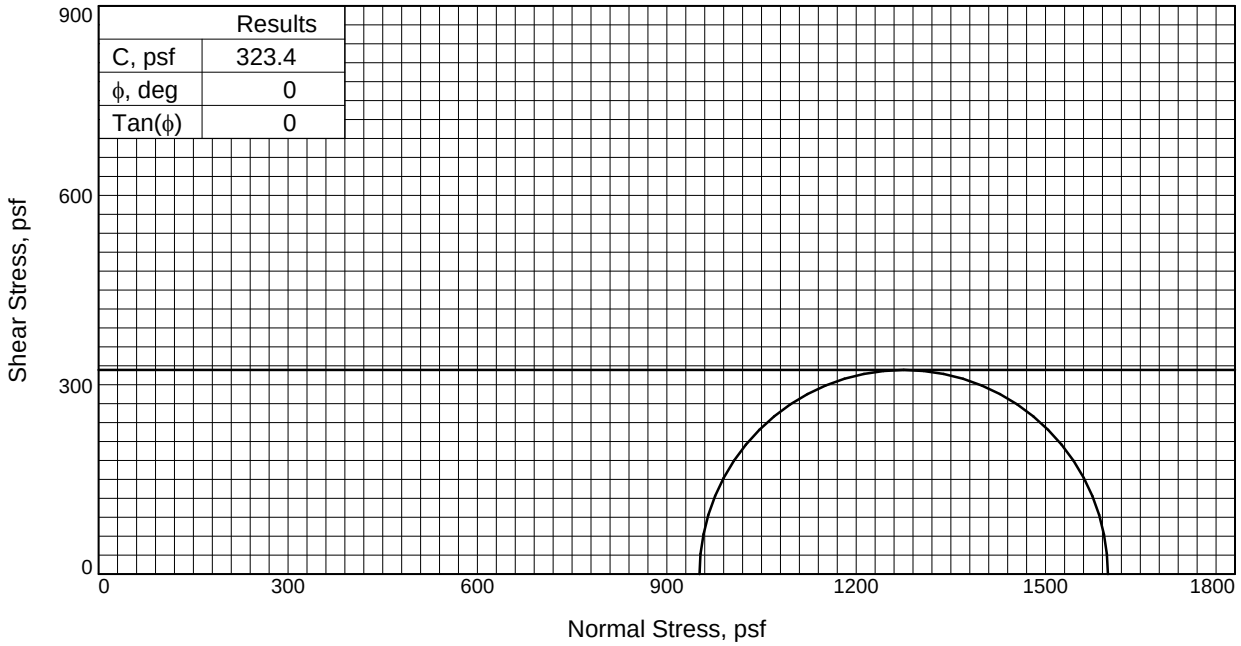
Client: ALDOT

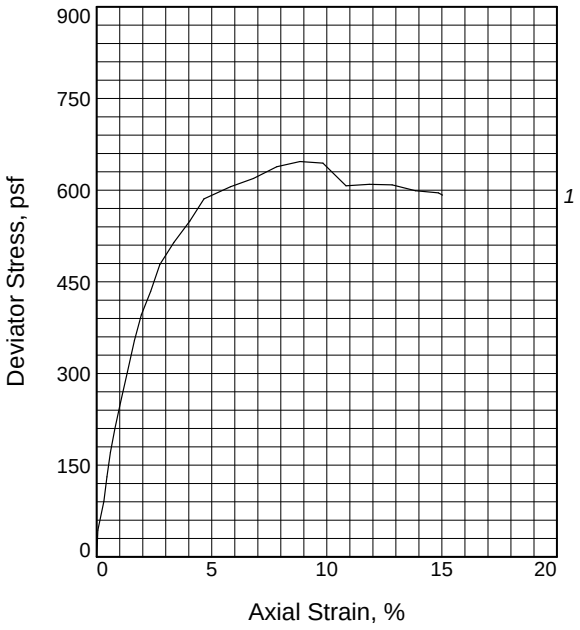
Project: Mobile River Bridge

Source of Sample: Lab #7852 **Depth:** 28.5'-30.5' **Sample Number:** BW-15 T-2

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	36.0
	Dry Density, pcf	89.4
	Saturation, %	111.9
	Void Ratio	0.8572
	Diameter, in.	2.764
	Height, in.	5.403
At Test	Water Content, %	38.1
	Dry Density, pcf	89.4
	Saturation, %	118.3
	Void Ratio	0.8572
	Diameter, in.	2.764
	Height, in.	5.403
Strain at peak, %		8.8
Back Pressure, psf		0.0
Cell Pressure, psf		951.8
Fail. Stress, psf		646.8
Strain, %		8.8
Ult. Stress, psf		646.8
Strain, %		8.8
σ_1 Failure, psf		1598.7
σ_3 Failure, psf		951.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(18))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

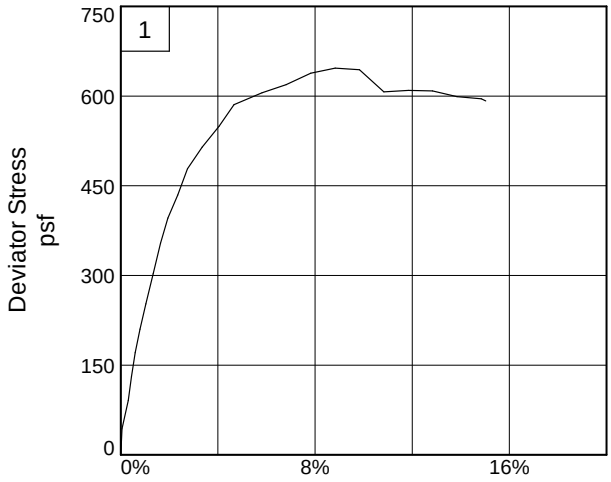
Project: Mobile River Bridge

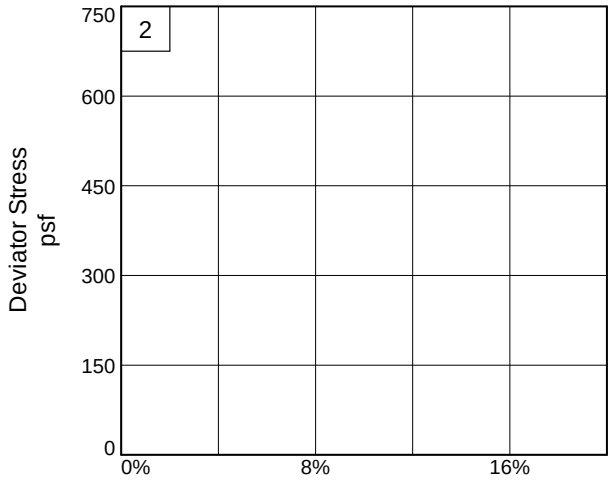
Source of Sample: Lab #7852 **Depth:** 18.5'-20.5'

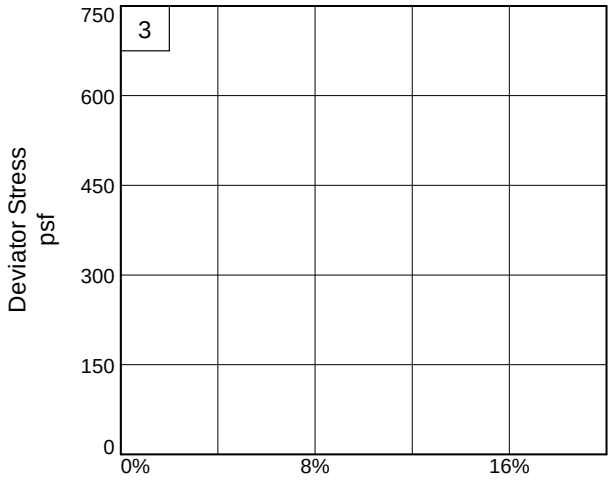
Sample Number: BW-16 T-1

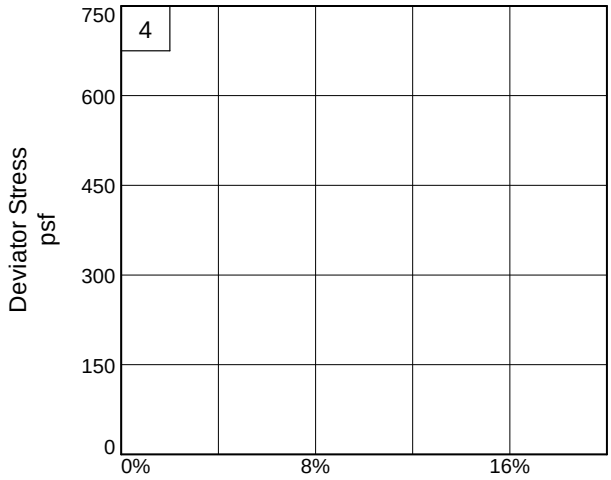
Proj. No.: 1511010228 **Date Sampled:**

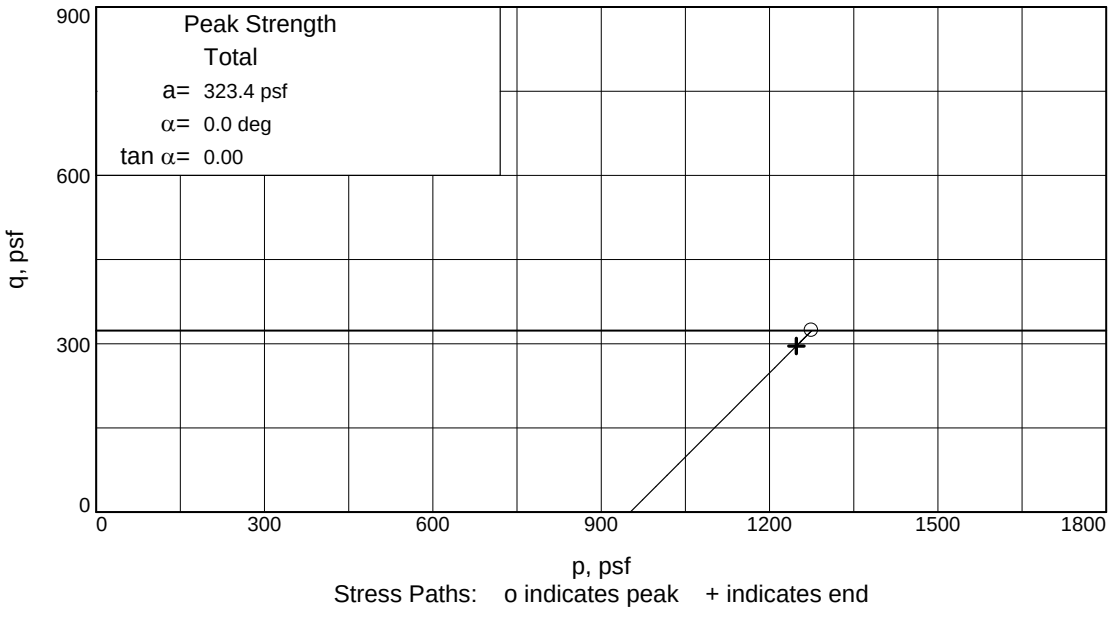
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Thompson Engineering
Mobile, Alabama





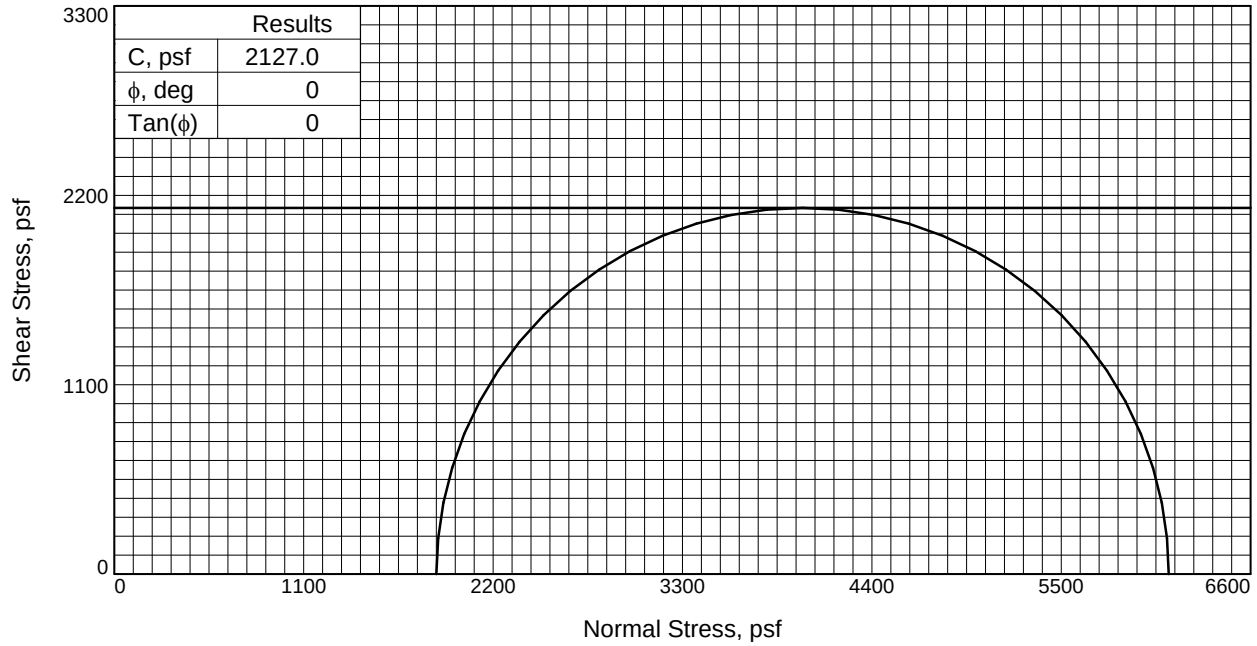


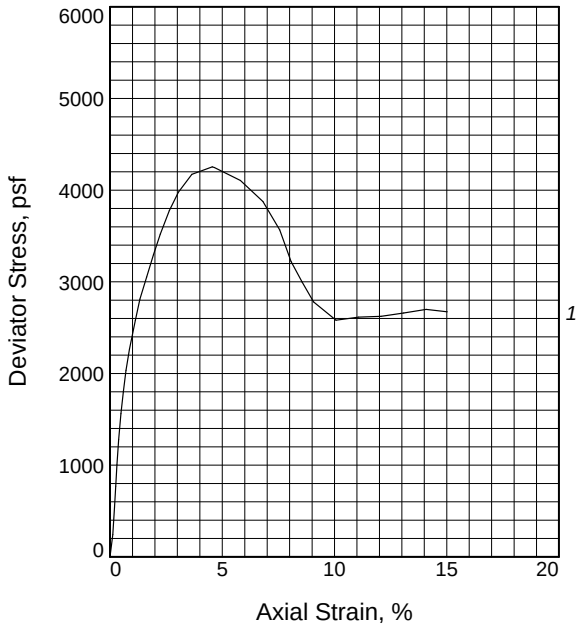




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 18.5'-20.5' **Sample Number:** BW-16 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	33.9
	Dry Density, pcf	89.6
	Saturation, %	119.6
	Void Ratio	0.6839
	Diameter, in.	2.811
	Height, in.	5.507
At Test	Water Content, %	34.5
	Dry Density, pcf	89.6
	Saturation, %	121.9
	Void Ratio	0.6839
	Diameter, in.	2.811
	Height, in.	5.507
Strain at peak, %		4.6
Back Pressure, psf		0.0
Cell Pressure, psf		1870.6
Fail. Stress, psf		4253.9
Strain, %		4.6
Ult. Stress, psf		4253.9
Strain, %		4.6
σ_1 Failure, psf		6124.5
σ_3 Failure, psf		1870.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(95))

Specific Gravity= 2.416

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

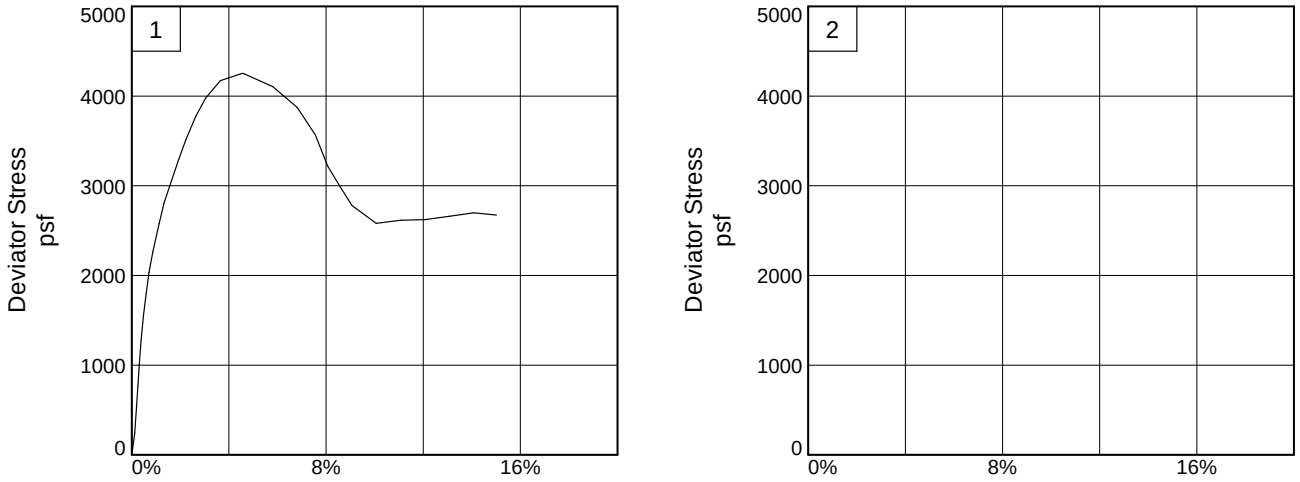
Project: Mobile River Bridge

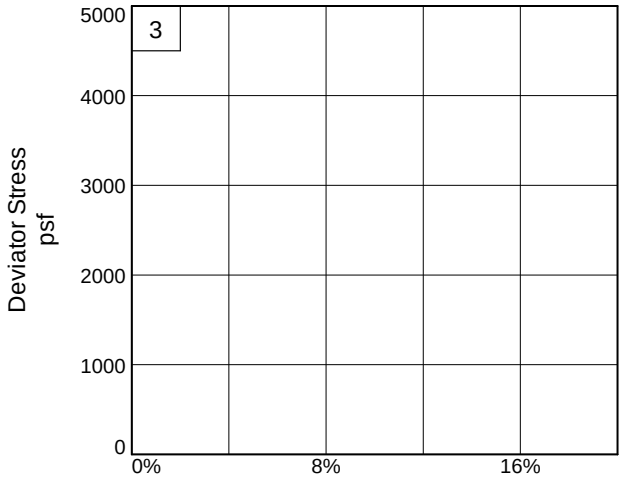
Source of Sample: Lab #7852 **Depth:** 38.5'-40.5'

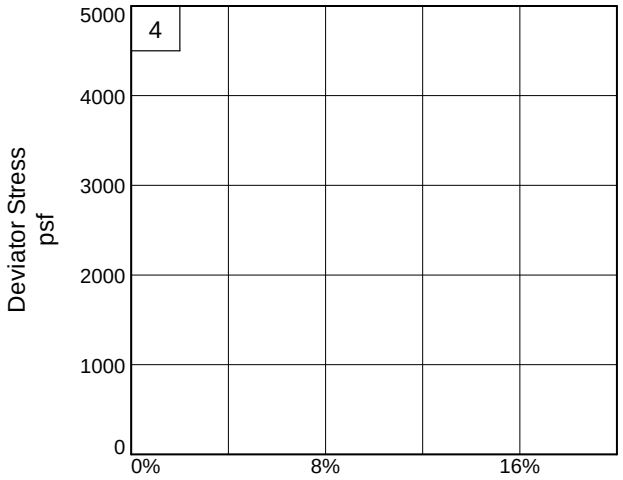
Sample Number: BW-16 T-3

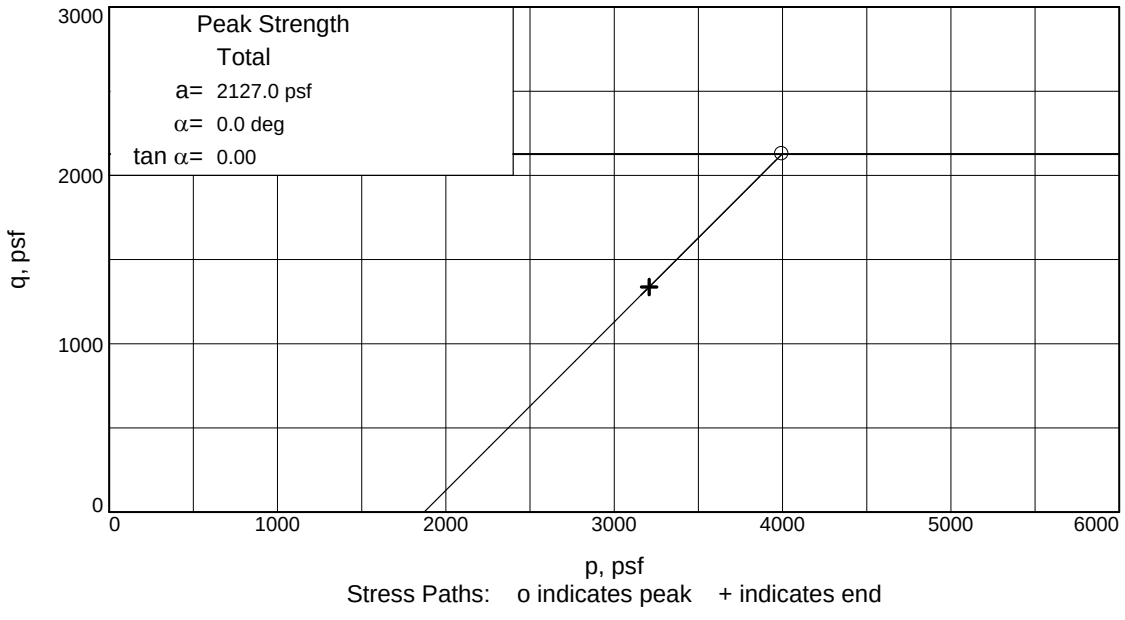
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



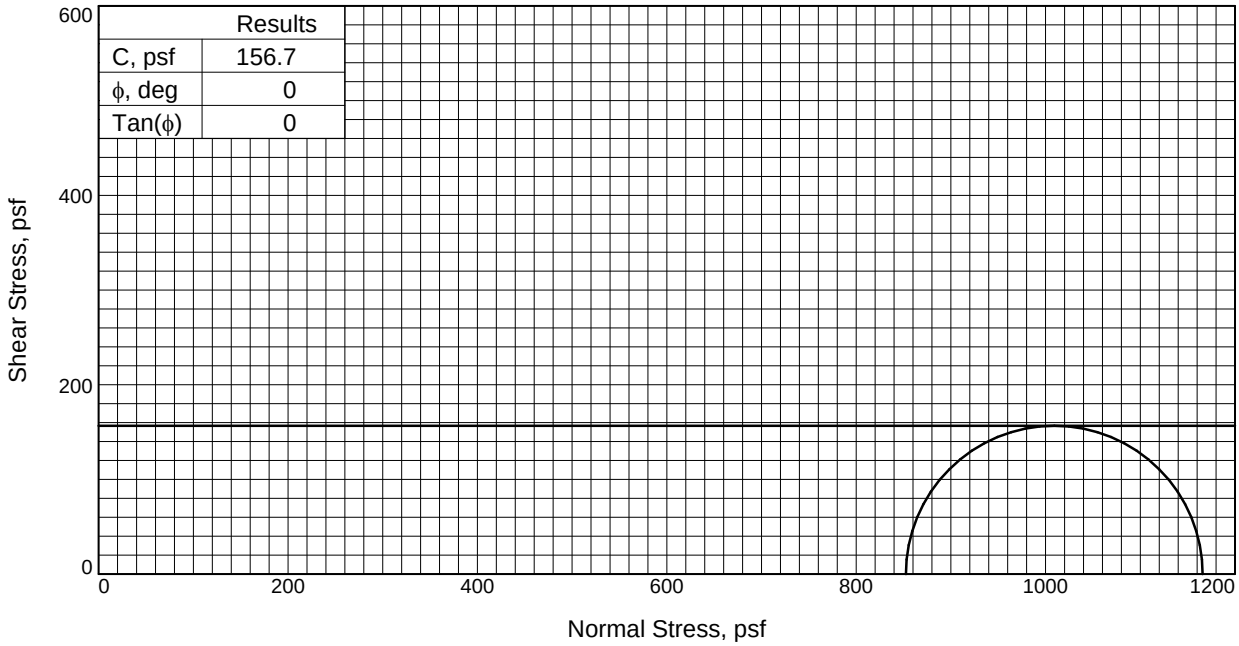


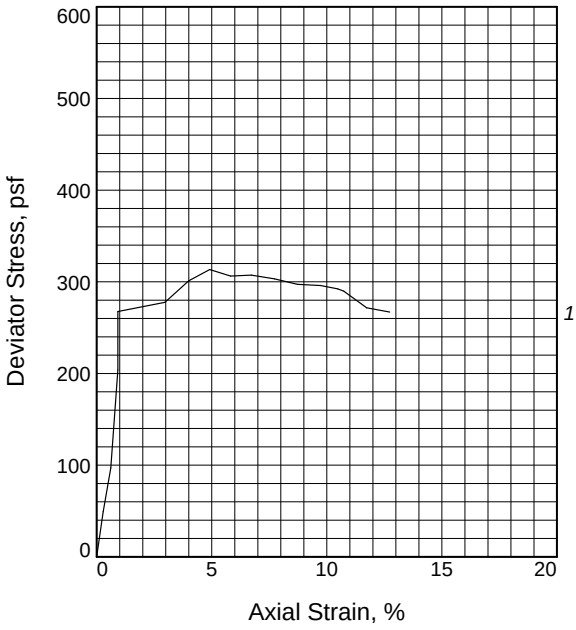




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 38.5'-40.5' **Sample Number:** BW-16 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	31.3
	Dry Density, pcf	95.5
	Saturation, %	112.7
	Void Ratio	0.7388
	Diameter, in.	2.784
	Height, in.	5.660
At Test	Water Content, %	31.6
	Dry Density, pcf	95.5
	Saturation, %	113.8
	Void Ratio	0.7388
	Diameter, in.	2.784
	Height, in.	5.660
Strain at peak, %		4.9
Back Pressure, psf		0.0
Cell Pressure, psf		852.5
Fail. Stress, psf		313.4
Strain, %		4.9
Ult. Stress, psf		313.4
Strain, %		4.9
σ_1 Failure, psf		1165.9
σ_3 Failure, psf		852.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(7))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

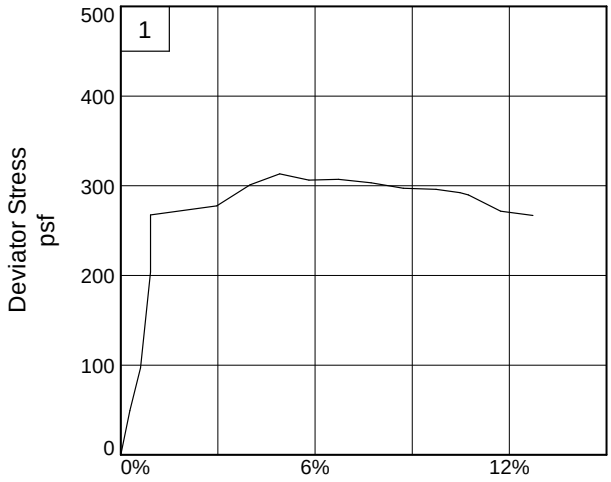
Project: Mobile River Bridge

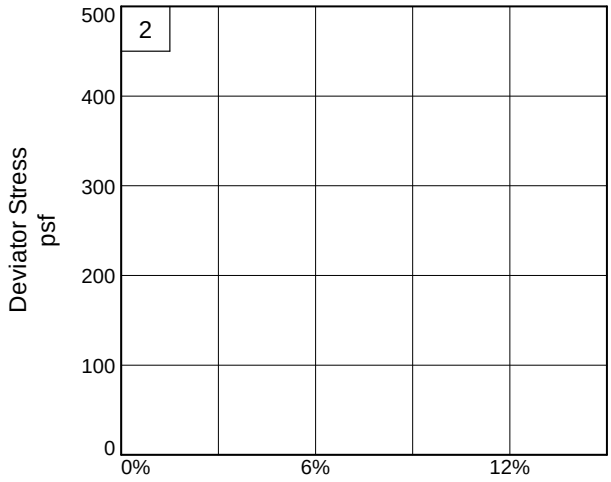
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0'

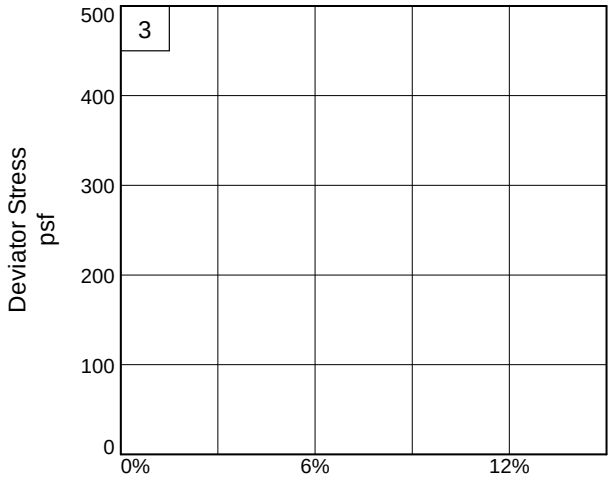
Sample Number: BW-17 T-1

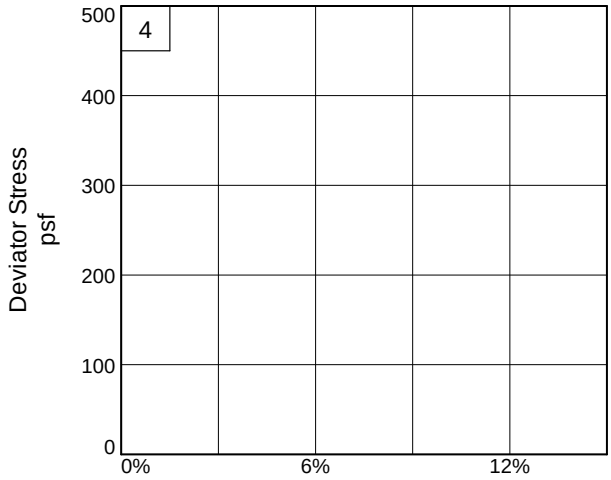
Proj. No.: 1511010228 **Date Sampled:**

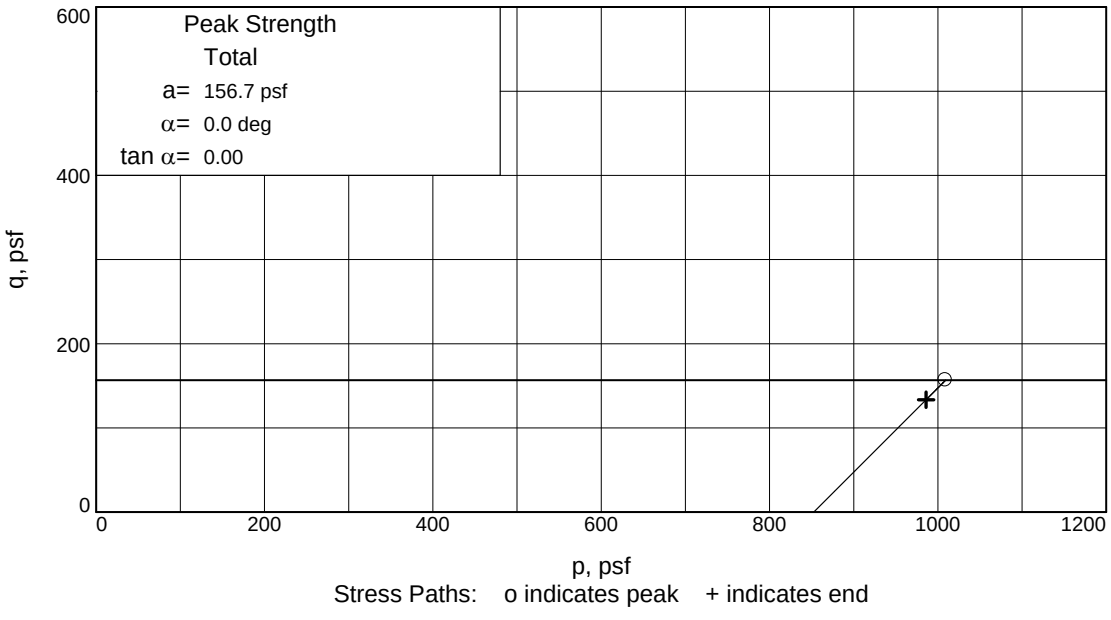
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Mobile, Alabama





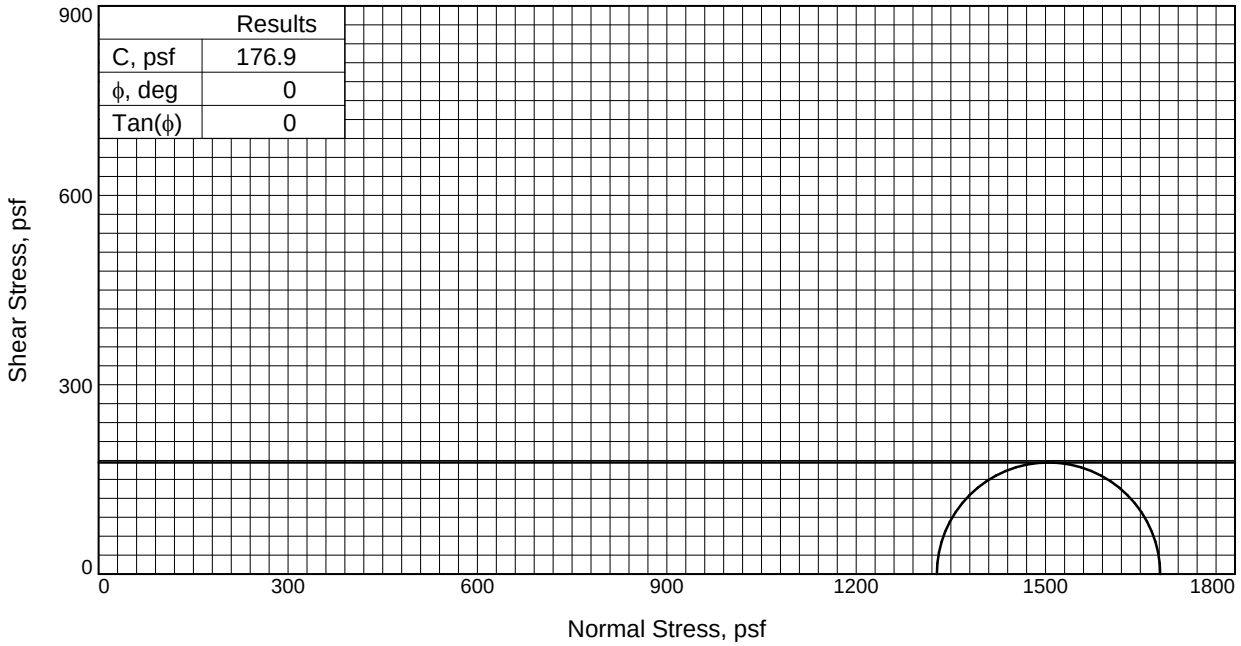


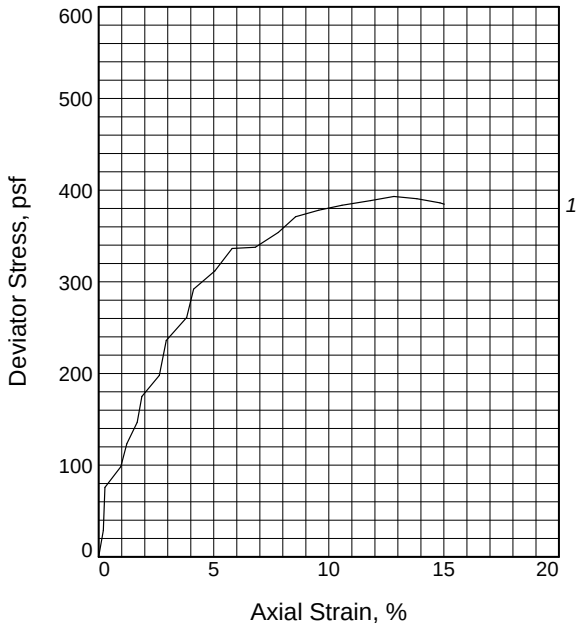




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0' **Sample Number:** BW-17 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	30.0
	Dry Density, pcf	95.6
	Saturation, %	108.2
	Void Ratio	0.7369
	Diameter, in.	2.847
	Height, in.	4.987
At Test	Water Content, %	30.3
	Dry Density, pcf	95.6
	Saturation, %	109.2
	Void Ratio	0.7369
	Diameter, in.	2.847
	Height, in.	4.987
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		1327.7
Fail. Stress, psf		353.8
Strain, %		7.8
Ult. Stress, psf		353.8
Strain, %		7.8
σ_1 Failure, psf		1681.5
σ_3 Failure, psf		1327.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(21))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

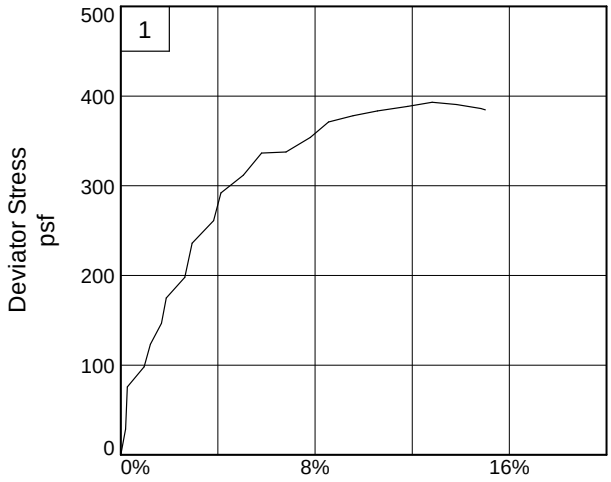
Project: Mobile River Bridge

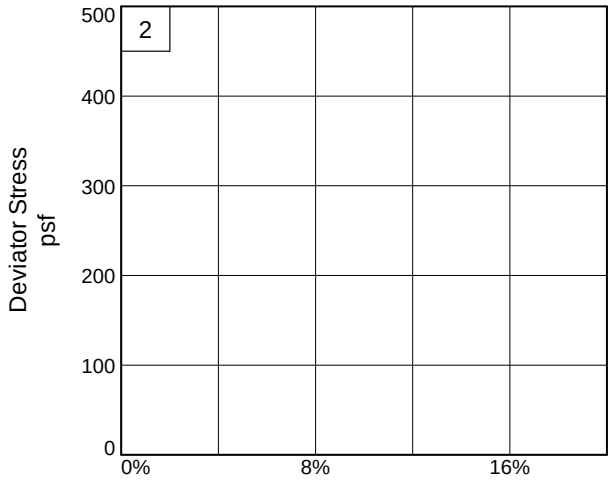
Source of Sample: Lab #7985 **Depth:** 28.0'-30.0'

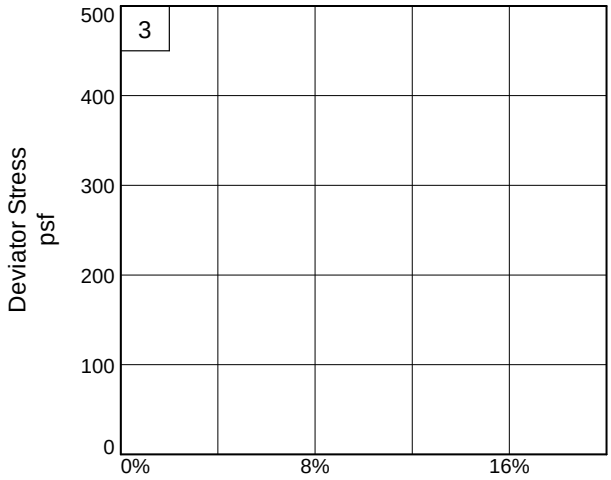
Sample Number: BW-17 T-2

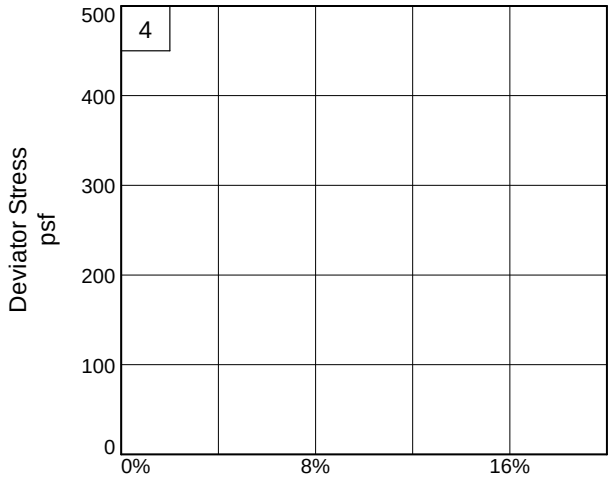
Proj. No.: 1511010228 **Date Sampled:**

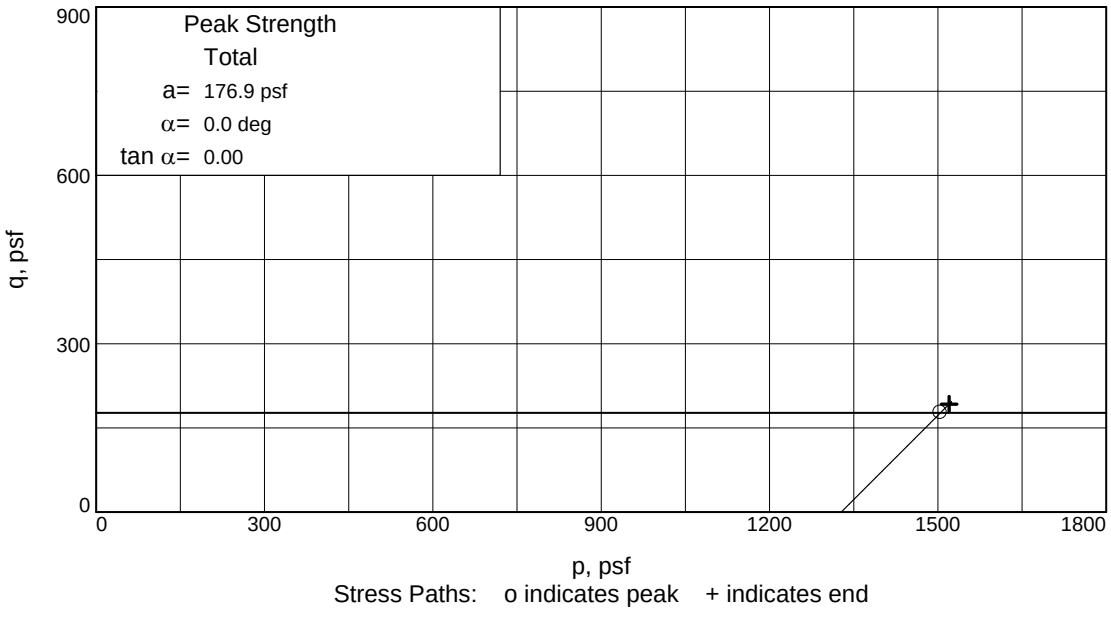
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Mobile, Alabama





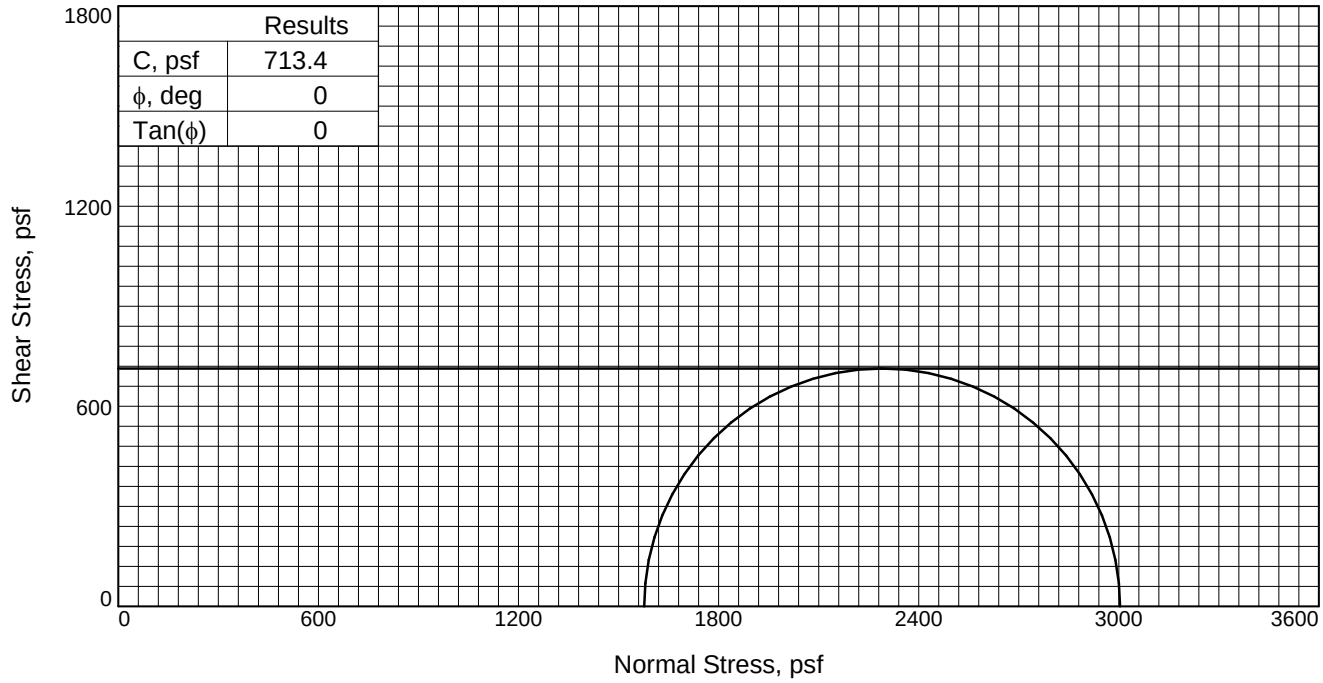


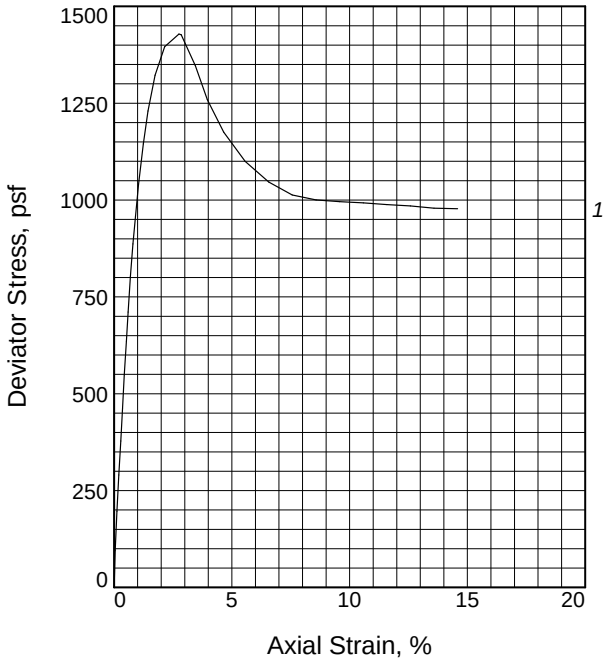




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 28.0'-30.0' **Sample Number:** BW-17 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	62.7
	Dry Density, pcf	63.4
	Saturation, %	103.1
	Void Ratio	1.6187
	Diameter, in.	2.847
	Height, in.	5.613
At Test	Water Content, %	60.8
	Dry Density, pcf	63.4
	Saturation, %	100.0
	Void Ratio	1.6187
	Diameter, in.	2.847
	Height, in.	5.613
Strain at peak, %		2.8
Back Pressure, psf		0.0
Cell Pressure, psf		1576.8
Fail. Stress, psf		1426.8
Strain, %		2.8
Ult. Stress, psf		1426.8
Strain, %		2.8
σ_1 Failure, psf		3003.6
σ_3 Failure, psf		1576.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(66))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

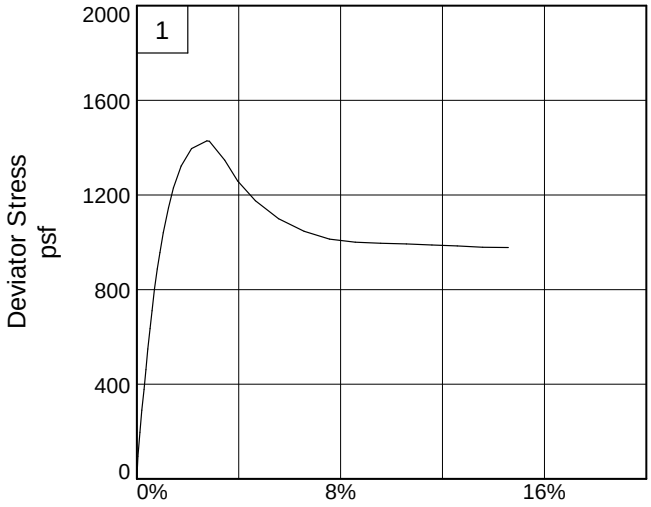
Source of Sample: Lab #8099 **Depth:** 23.5'-25.5'

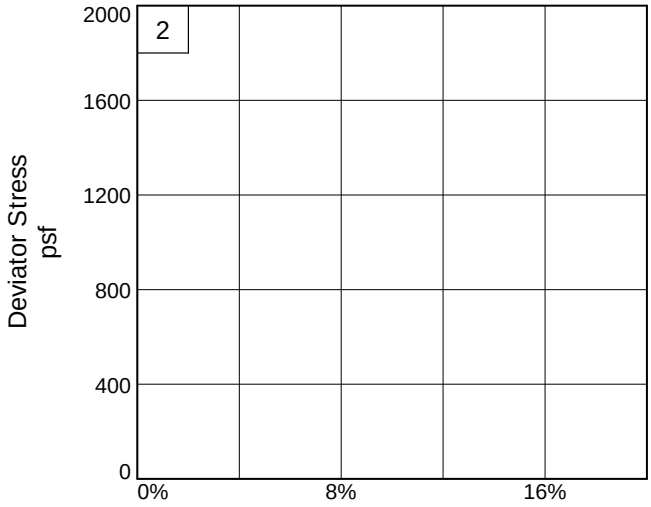
Sample Number: BW-18 T-1

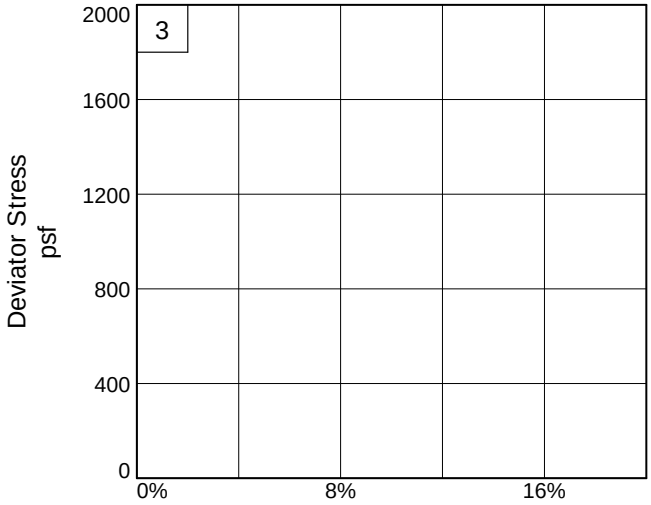
Proj. No.: 1511010228 **Date Sampled:**

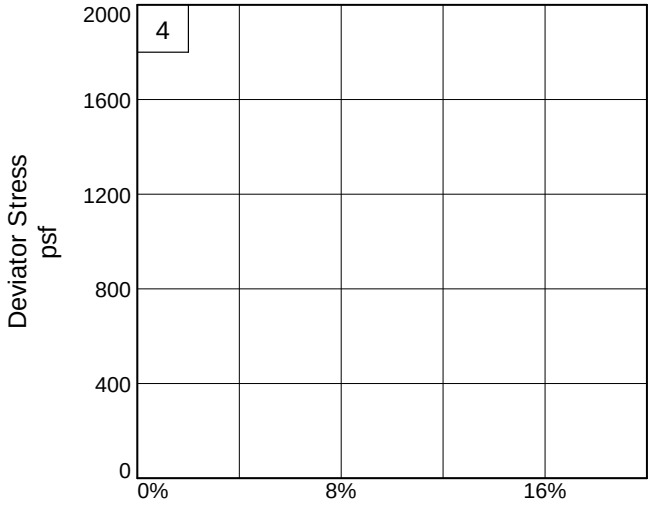
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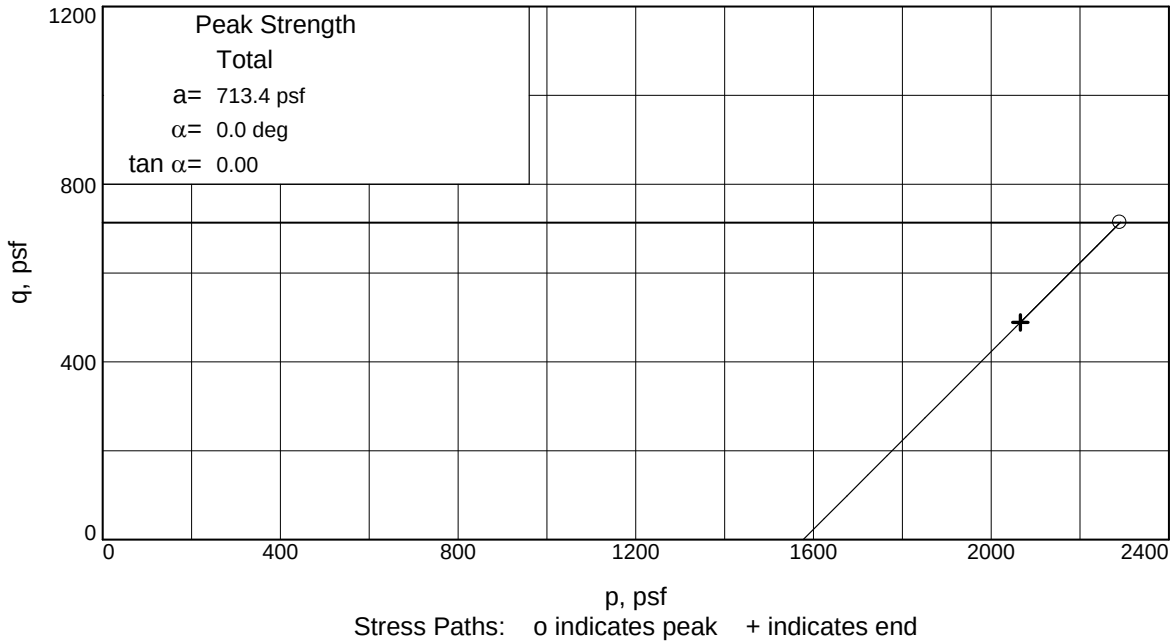
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

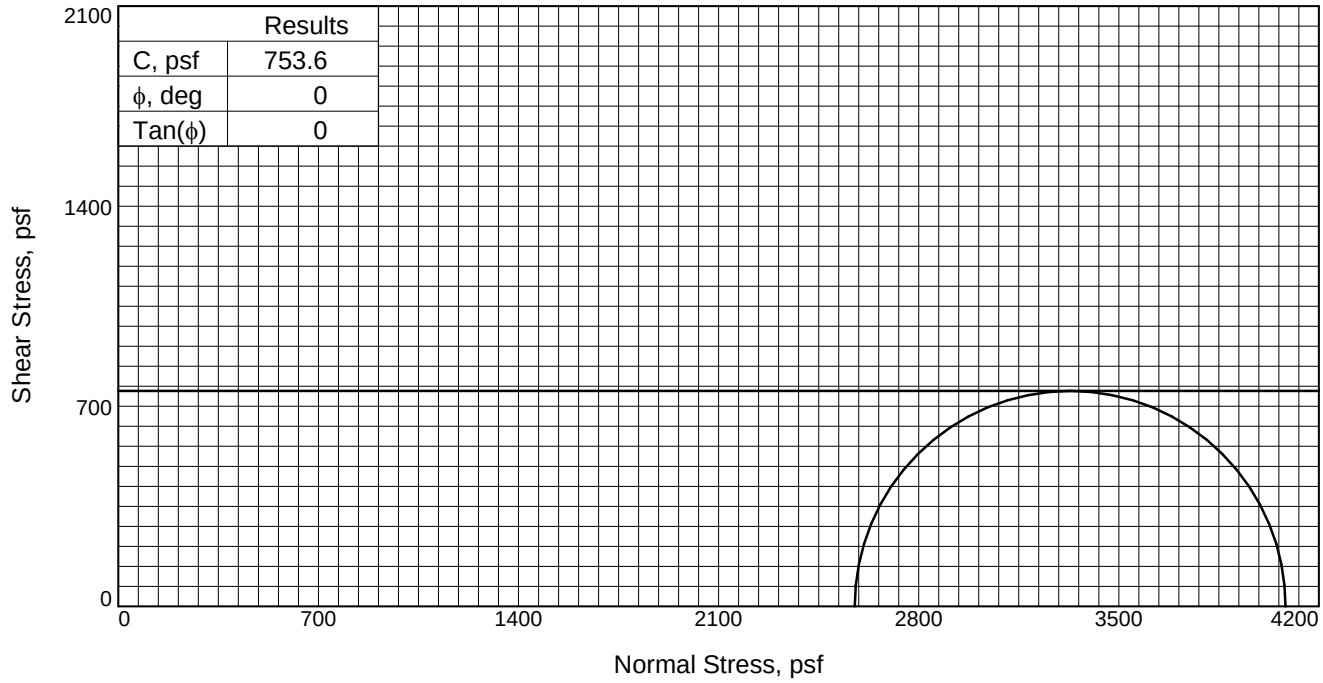
Client: ALDOT

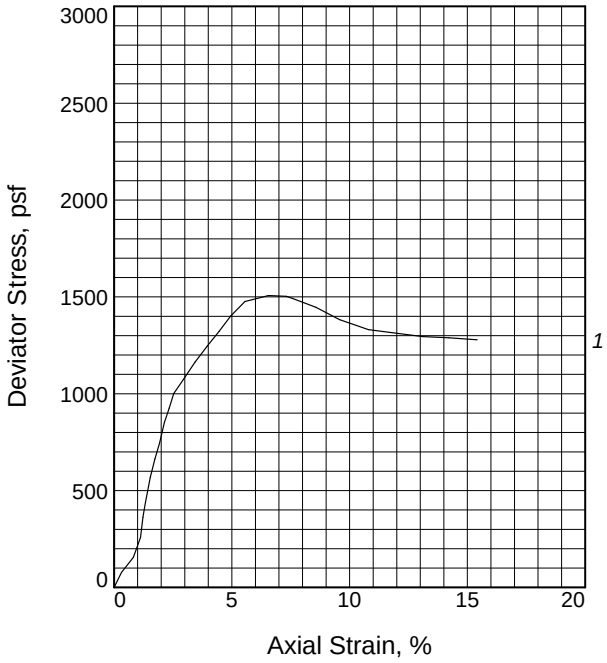
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 23.5'-25.5' **Sample Number:** BW-18 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.8
	Dry Density, pcf	76.3
	Saturation, %	87.9
	Void Ratio	1.1751
	Diameter, in.	2.867
	Height, in.	5.409
At Test	Water Content, %	45.7
	Dry Density, pcf	76.3
	Saturation, %	103.4
	Void Ratio	1.1751
	Diameter, in.	2.867
	Height, in.	5.409
Strain at peak, %		6.6
Back Pressure, psf		0.0
Cell Pressure, psf		2576.2
Fail. Stress, psf		1507.2
Strain, %		6.6
Ult. Stress, psf		1507.2
Strain, %		6.6
σ_1 Failure, psf		4083.3
σ_3 Failure, psf		2576.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(8))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

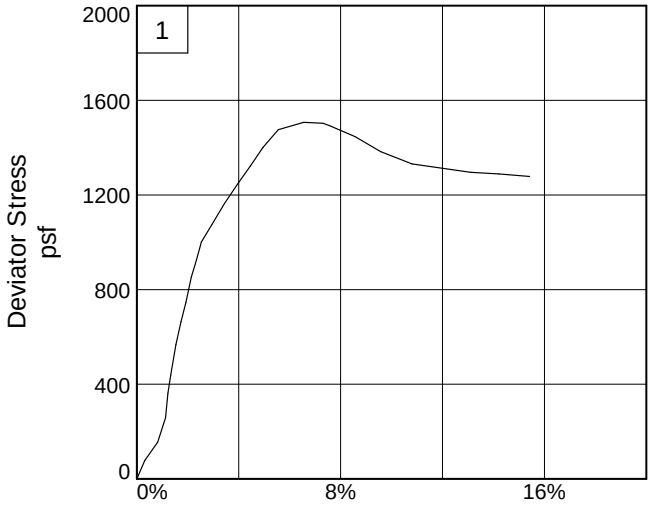
Source of Sample: Lab #8099 **Depth:** 53.5'-55.5'

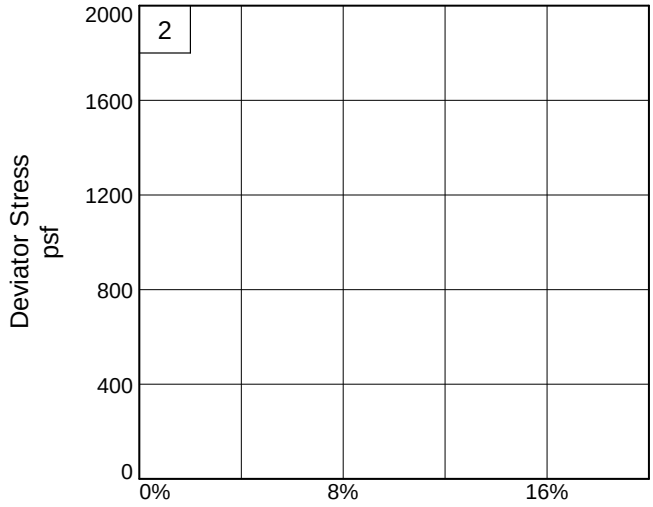
Sample Number: BW-18 T-3

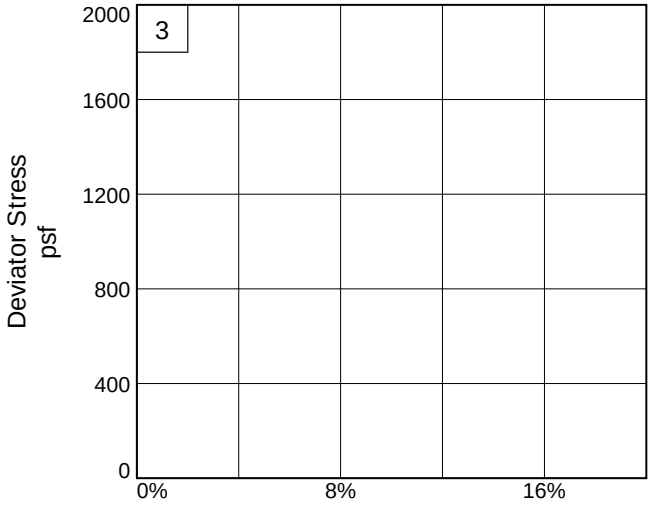
Proj. No.: 1511010228 **Date Sampled:**

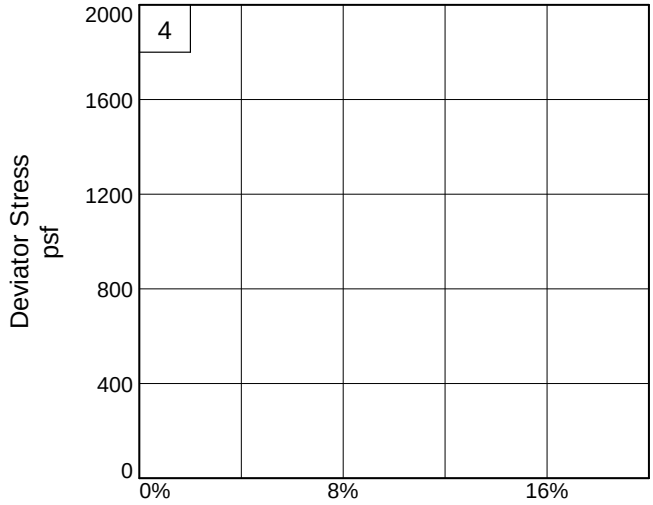
TRIAXIAL SHEAR TEST REPORT

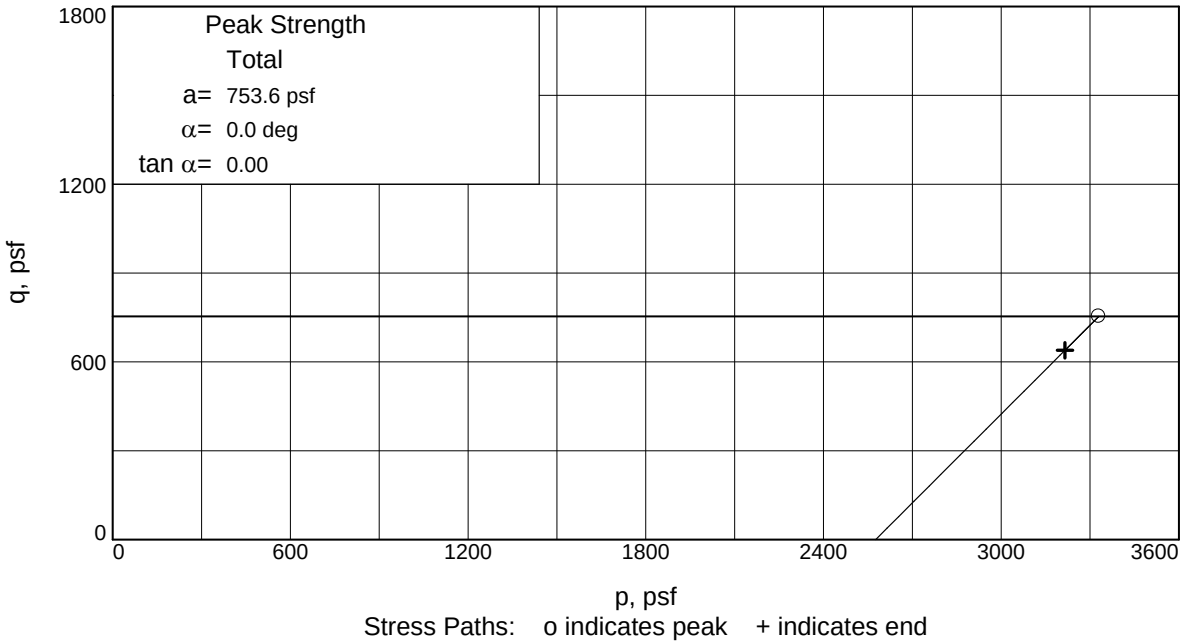
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

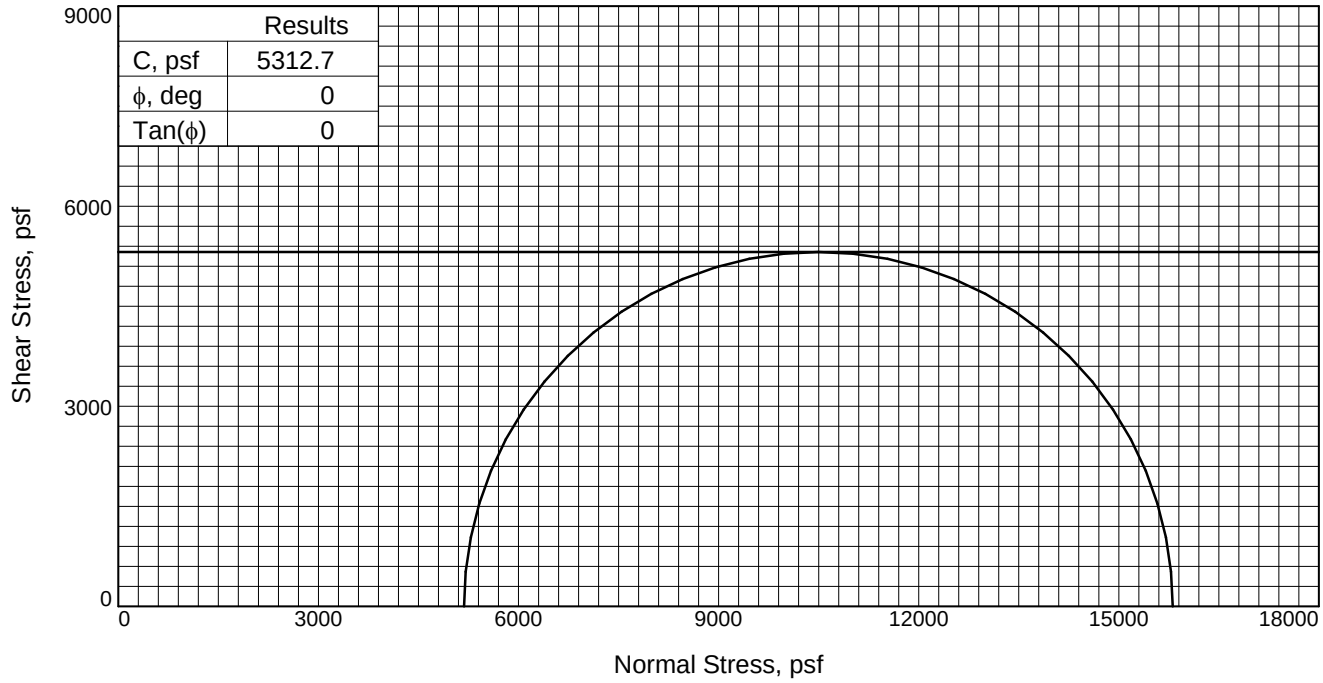
Client: ALDOT

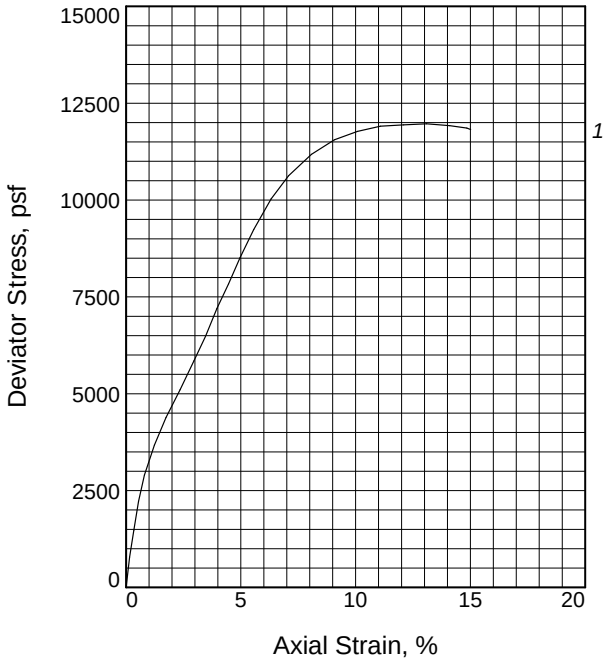
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 53.5'-55.5' **Sample Number:** BW-18 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	18.8
	Dry Density, pcf	114.0
	Saturation, %	109.6
	Void Ratio	0.4569
	Diameter, in.	2.750
	Height, in.	5.571
At Test	Water Content, %	18.9
	Dry Density, pcf	114.0
	Saturation, %	110.3
	Void Ratio	0.4569
	Diameter, in.	2.750
	Height, in.	5.571
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		5182.6
Fail. Stress, psf		10625.4
Strain, %		7.1
Ult. Stress, psf		10625.4
Strain, %		7.1
σ_1 Failure, psf		15808.0
σ_3 Failure, psf		5182.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(30))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

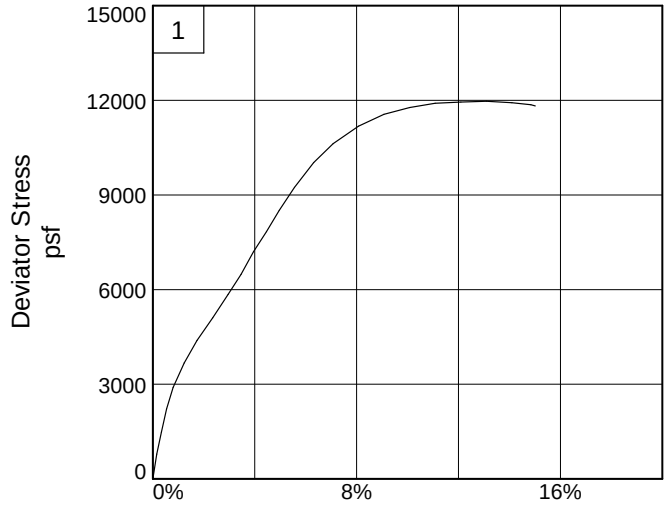
Source of Sample: Lab #8099 **Depth:** 108.0'-110.0'

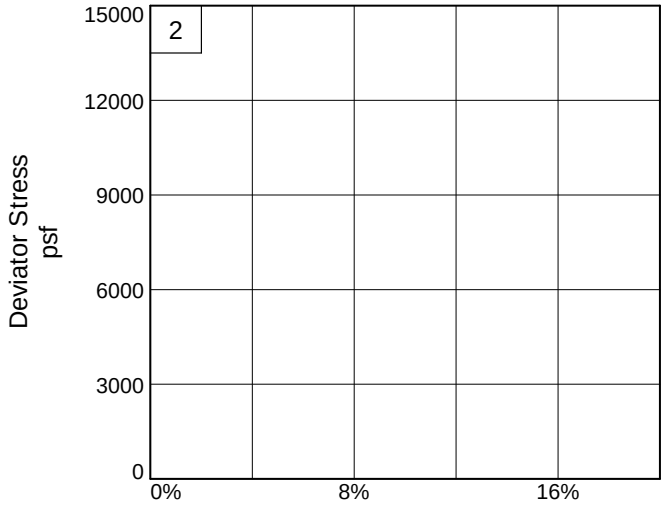
Sample Number: BW-18 T-4

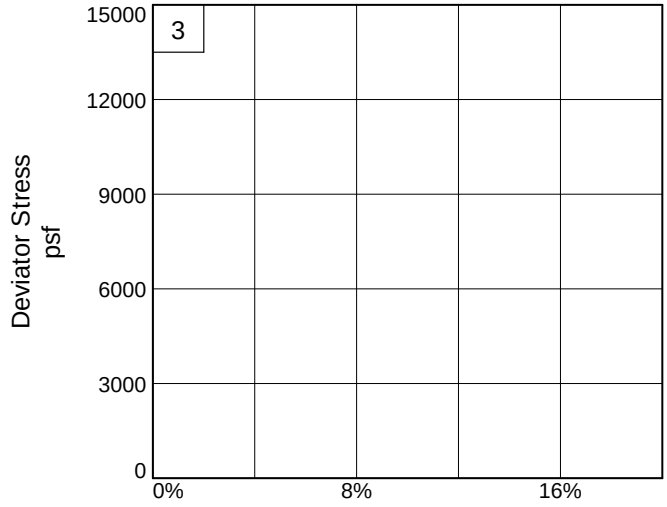
Proj. No.: 1511010228 **Date Sampled:**

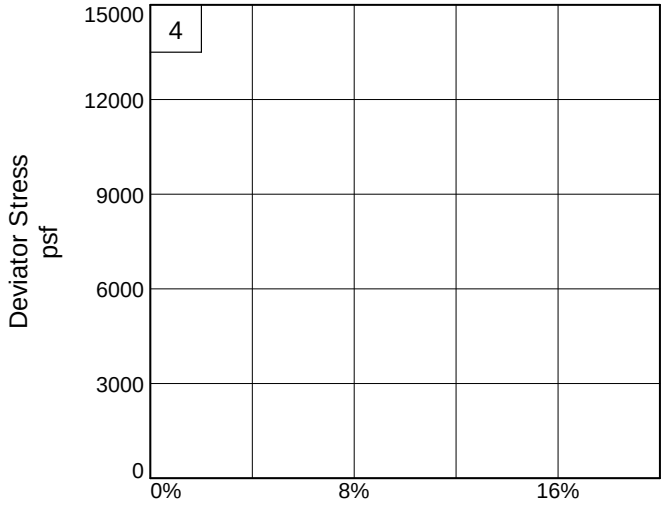
TRIAXIAL SHEAR TEST REPORT

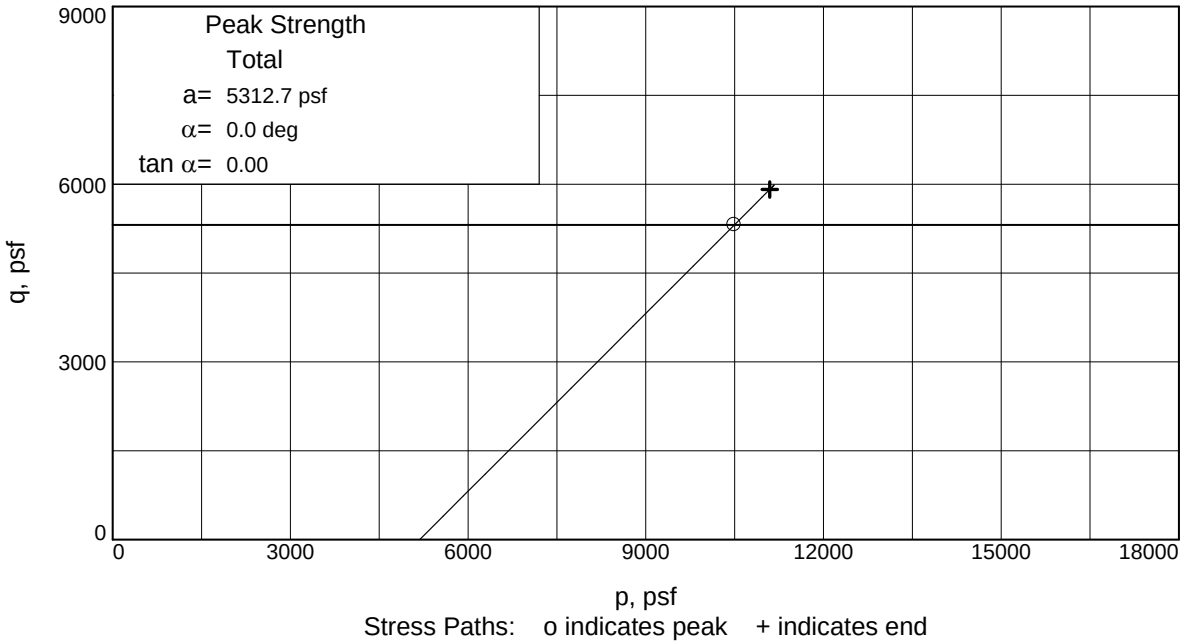
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

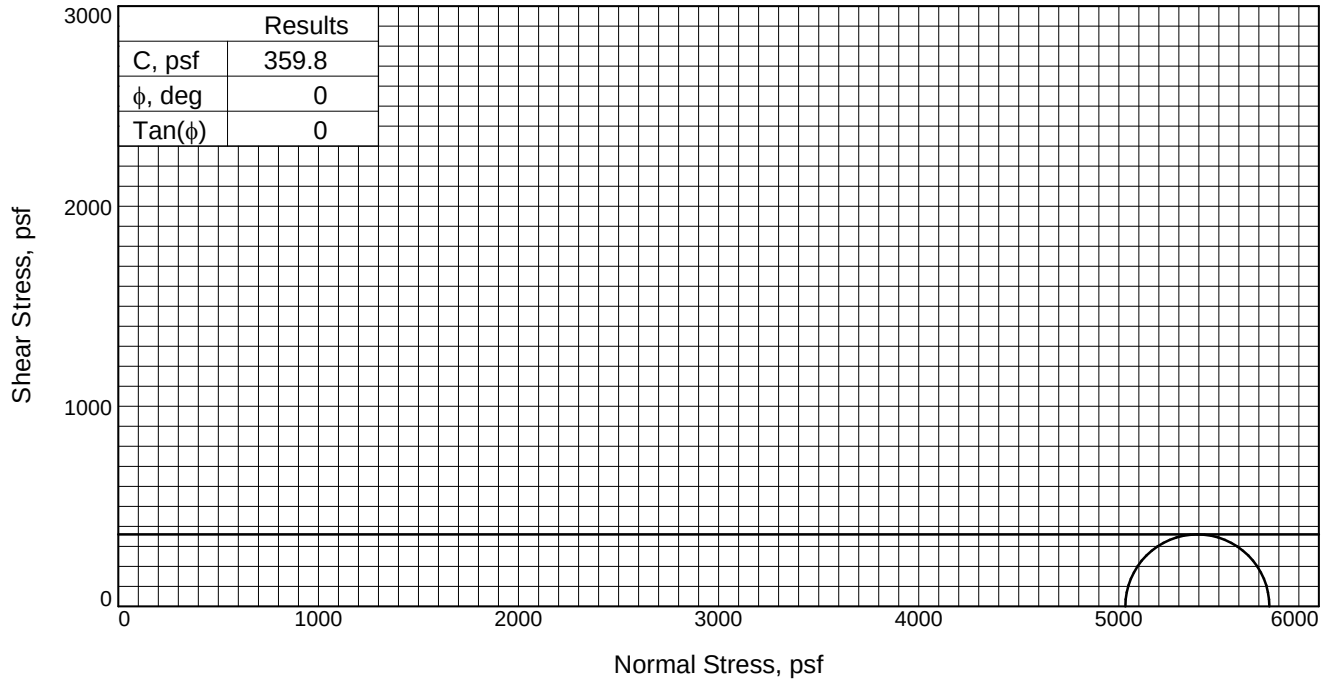
Client: ALDOT

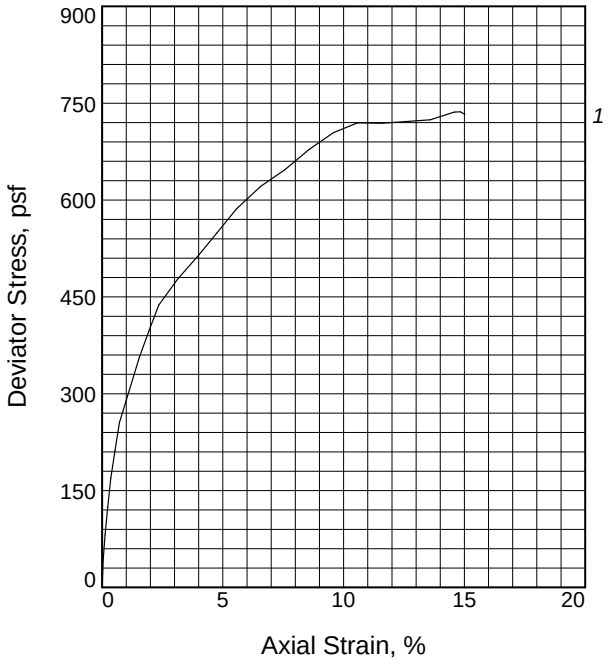
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 108.0'-110.0' **Sample Number:** BW-18 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	25.3
	Dry Density, pcf	103.1
	Saturation, %	110.3
	Void Ratio	0.6114
	Diameter, in.	2.858
	Height, in.	5.681
At Test	Water Content, %	21.9
	Dry Density, pcf	103.1
	Saturation, %	95.1
	Void Ratio	0.6114
	Diameter, in.	2.858
	Height, in.	5.681
Strain at peak, %		10.6
Back Pressure, psf		0.0
Cell Pressure, psf		5032.8
Fail. Stress, psf		719.6
Strain, %		10.6
Ult. Stress, psf		719.6
Strain, %		10.6
σ_1 Failure, psf		5752.4
σ_3 Failure, psf		5032.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: POORLY GRADED SAND with CLAY and GRAVEL(SP-SC A-2-7(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

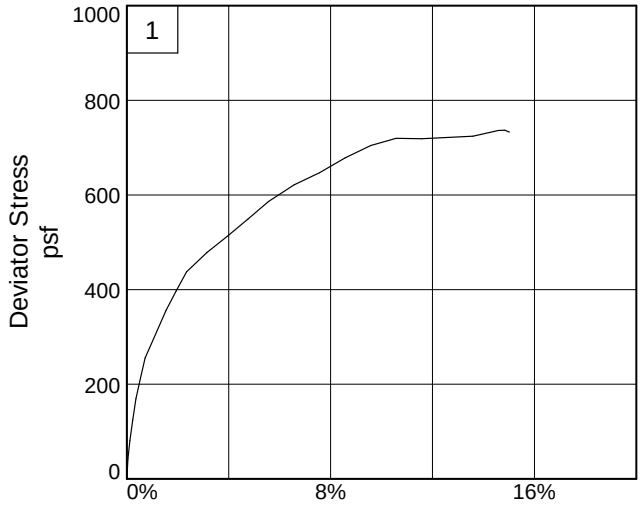
Source of Sample: Lab #8099 **Depth:** 103.5'-105.5'

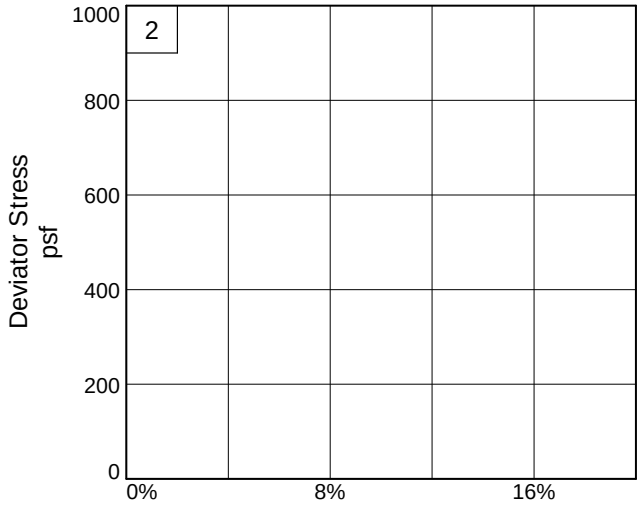
Sample Number: BW-19 T-5

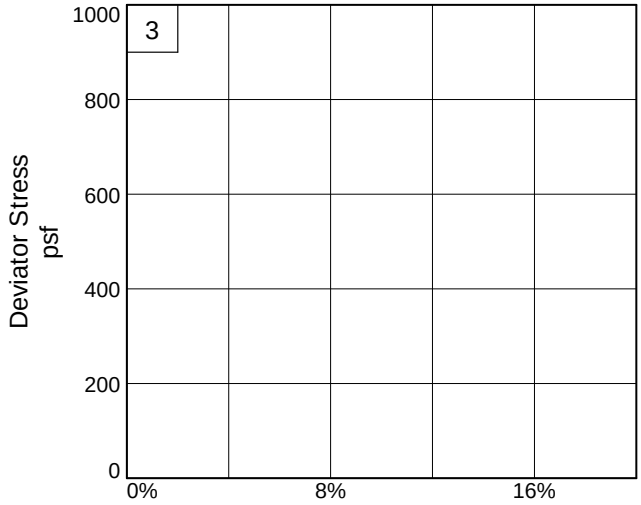
Proj. No.: 1511010228 **Date Sampled:**

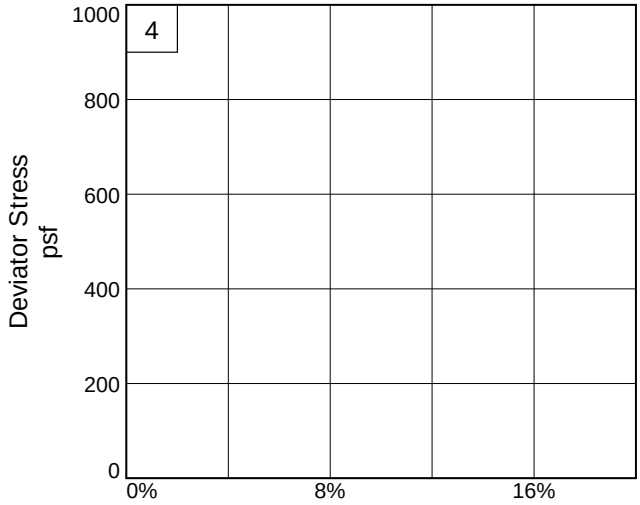
TRIAXIAL SHEAR TEST REPORT

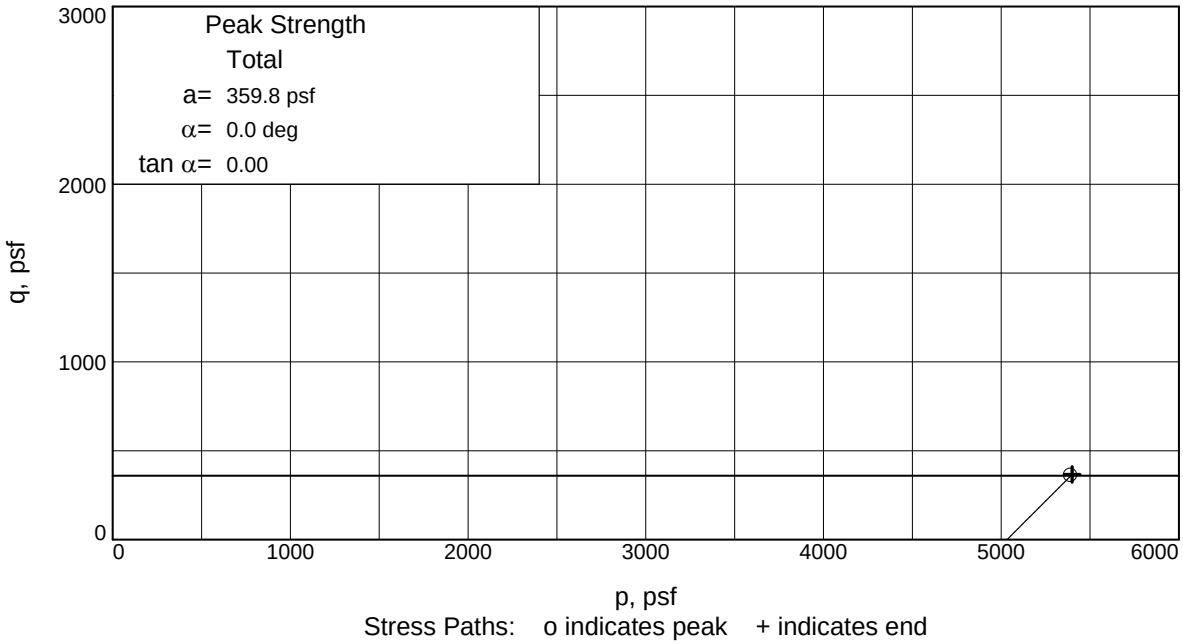
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

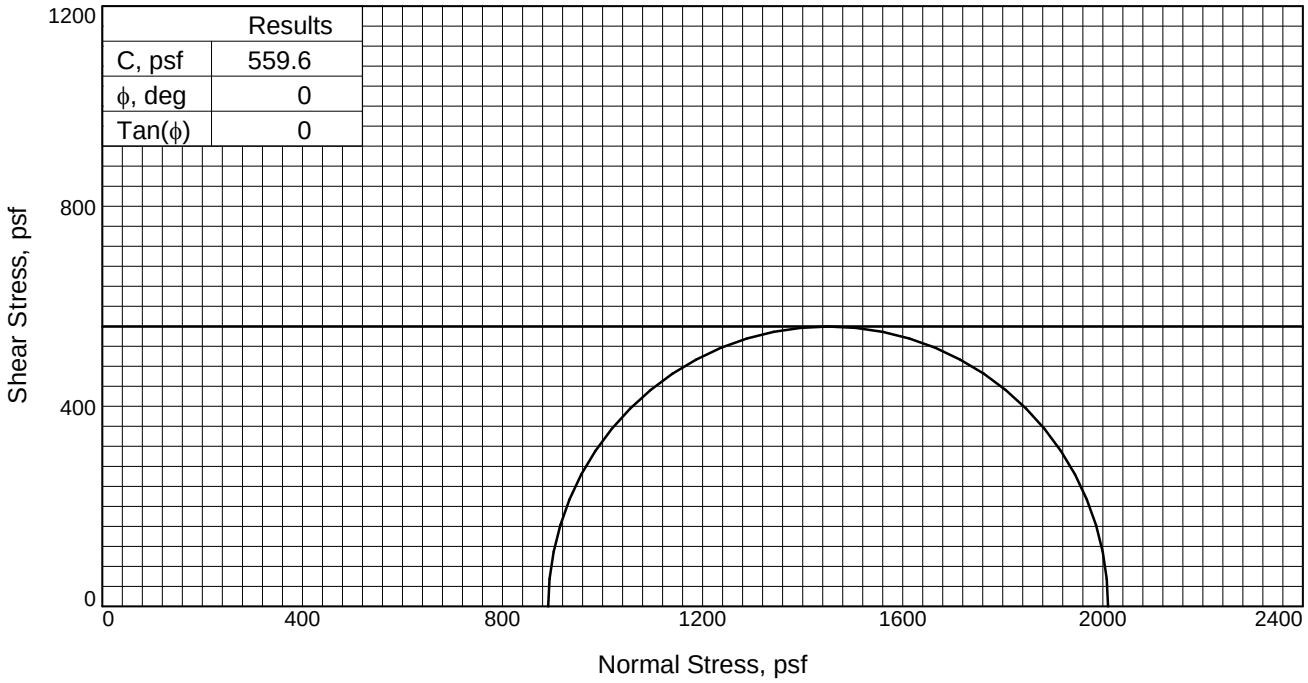
Client: ALDOT

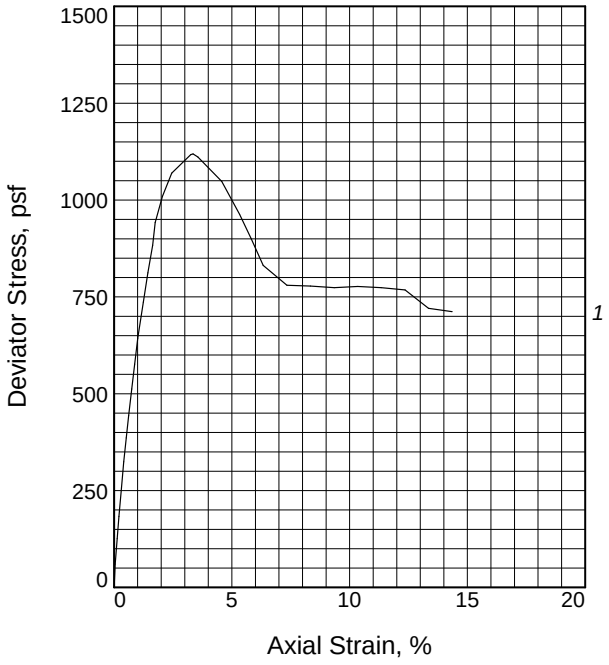
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 103.5'-105.5' **Sample Number:** BW-19 T-5

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.5
	Dry Density, pcf	64.6
	Saturation, %	98.9
	Void Ratio	1.5718
	Diameter, in.	2.823
	Height, in.	5.341
At Test	Water Content, %	65.9
	Dry Density, pcf	64.6
	Saturation, %	111.5
	Void Ratio	1.5718
	Diameter, in.	2.823
	Height, in.	5.341
Strain at peak, %		3.4
Back Pressure, psf		0.0
Cell Pressure, psf		891.4
Fail. Stress, psf		1119.1
Strain, %		3.4
Ult. Stress, psf		1119.1
Strain, %		3.4
σ_1 Failure, psf		2010.5
σ_3 Failure, psf		891.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY (CL)

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

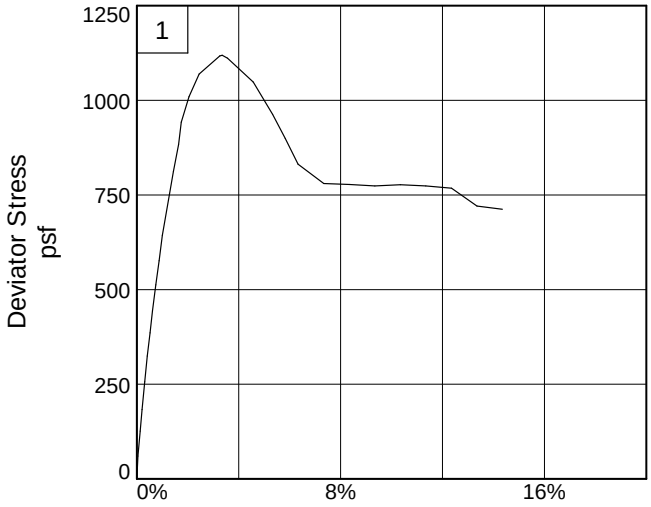
Source of Sample: Lab #8099 **Depth:** 18.0'-20.0'

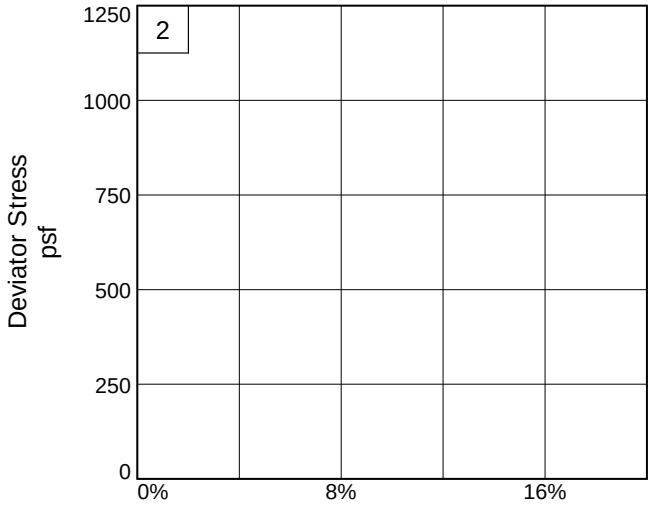
Sample Number: BW-20 T-1

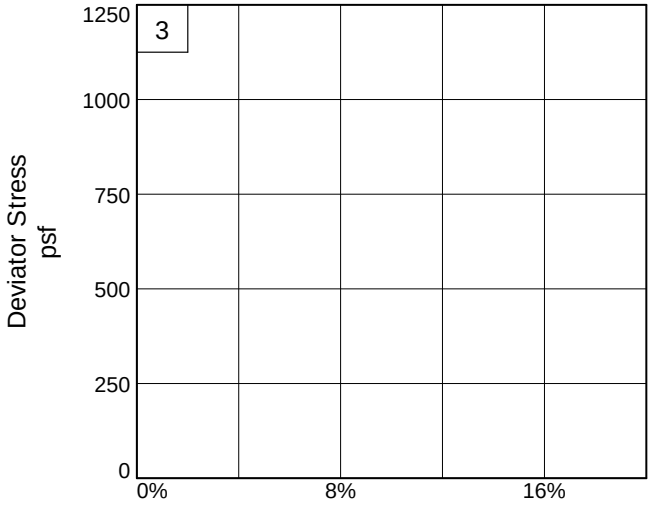
Proj. No.: 1511010228 **Date Sampled:**

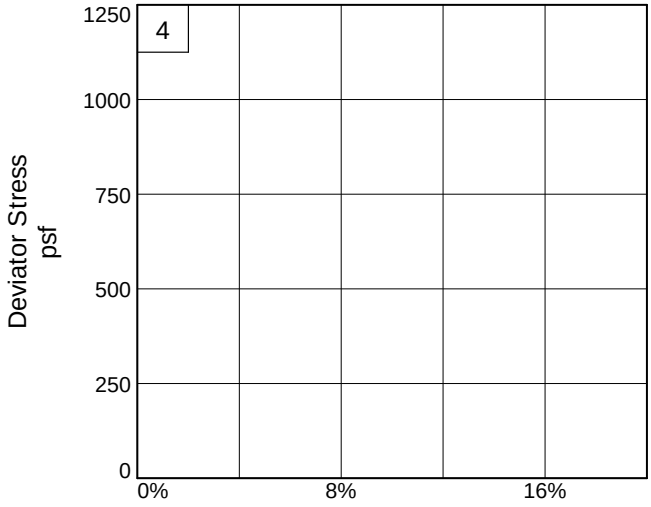
TRIAXIAL SHEAR TEST REPORT

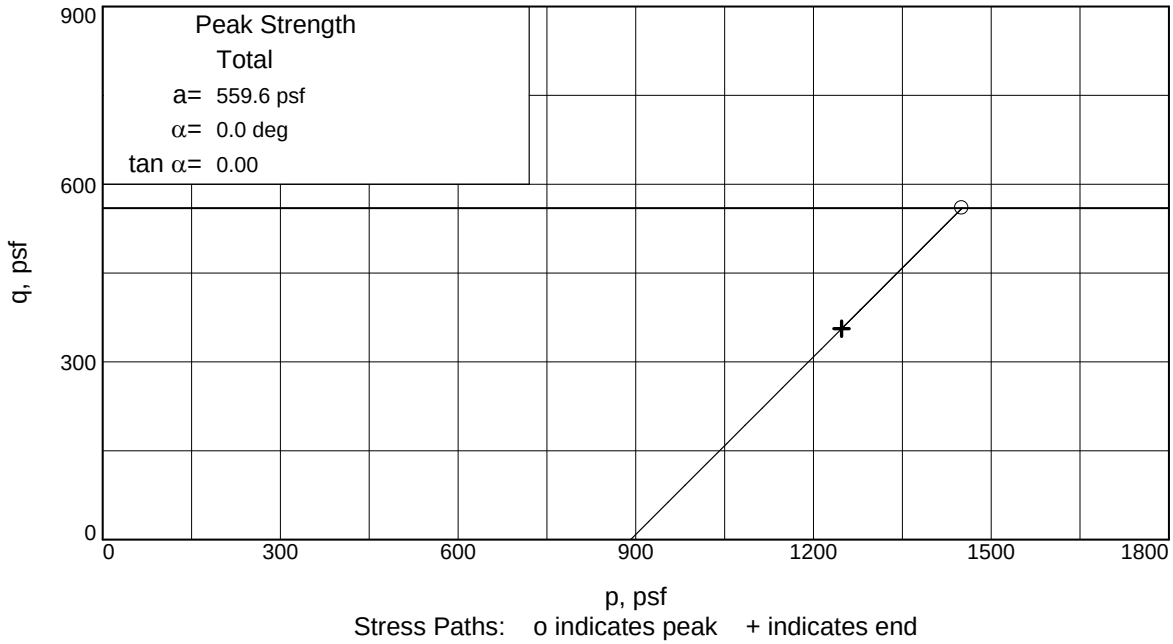
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

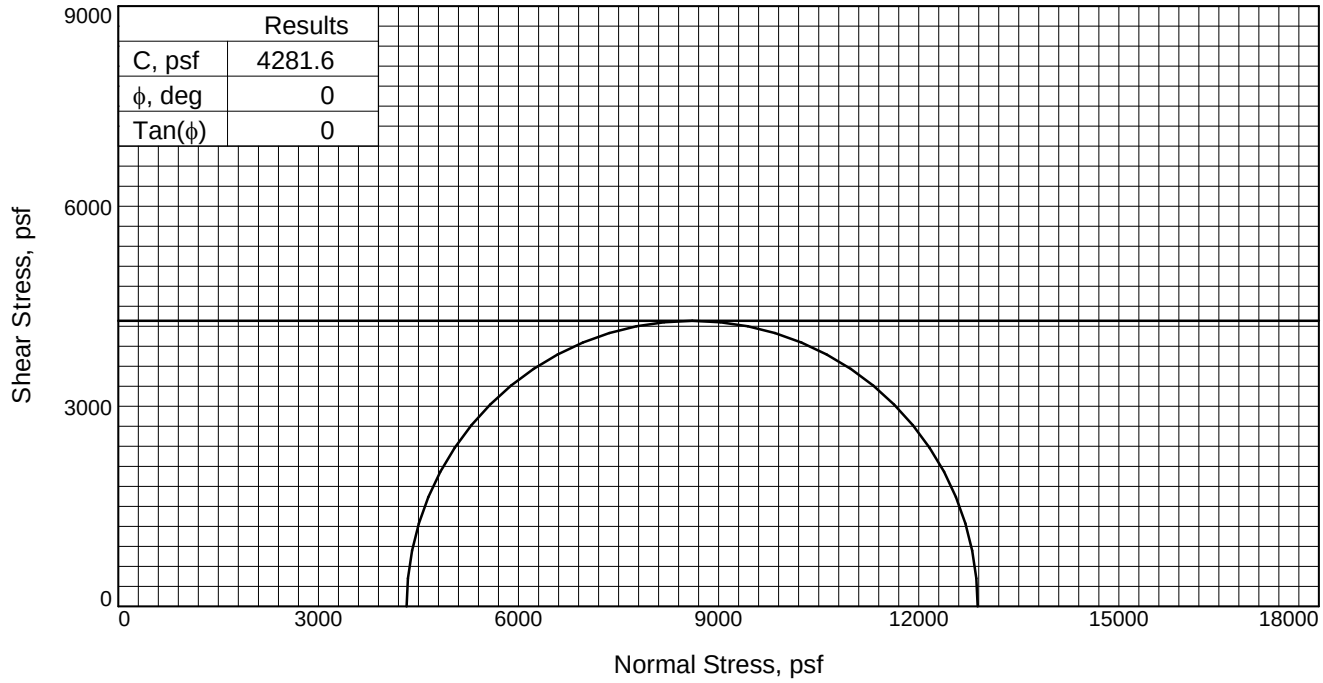
Client: ALDOT

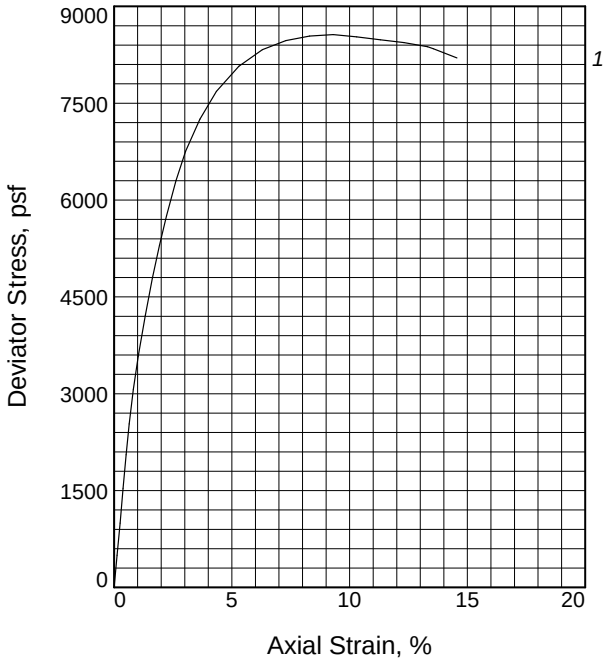
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 18.0'-20.0' **Sample Number:** BW-20 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	17.7
	Dry Density, pcf	114.4
	Saturation, %	104.1
	Void Ratio	0.4519
	Diameter, in.	2.850
	Height, in.	5.556
At Test	Water Content, %	18.4
	Dry Density, pcf	114.4
	Saturation, %	108.2
	Void Ratio	0.4519
	Diameter, in.	2.850
	Height, in.	5.556
Strain at peak, %		9.3
Back Pressure, psf		0.0
Cell Pressure, psf		4321.4
Fail. Stress, psf		8563.1
Strain, %		9.3
Ult. Stress, psf		8563.1
Strain, %		9.3
σ_1 Failure, psf		12884.6
σ_3 Failure, psf		4321.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(20))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

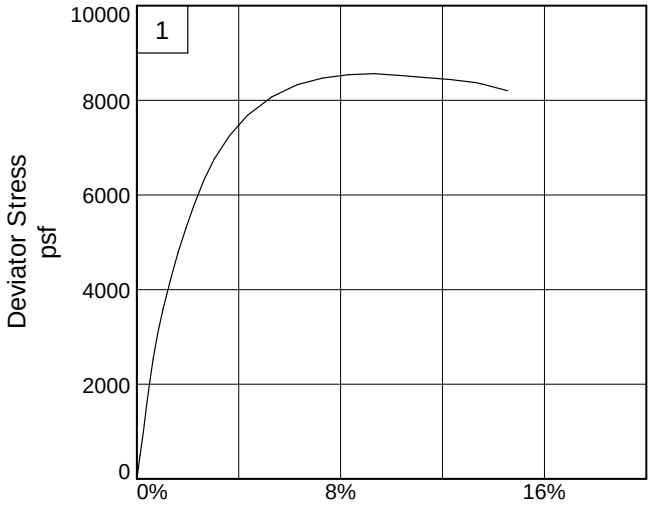
Source of Sample: Lab #8099 **Depth:** 88.5'-90.5'

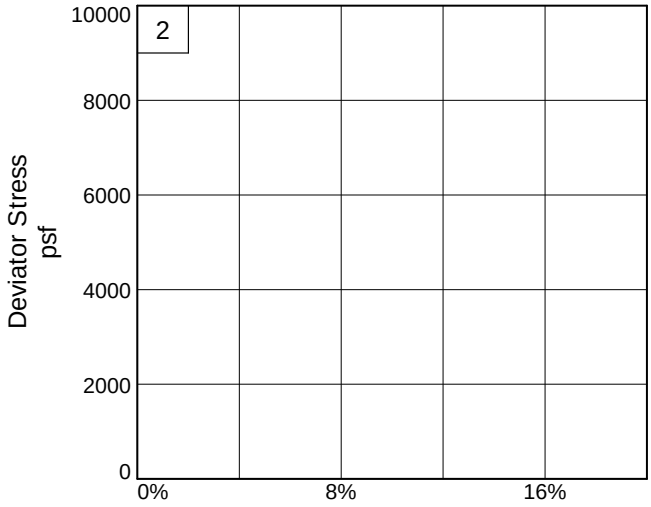
Sample Number: BW-20 T-3

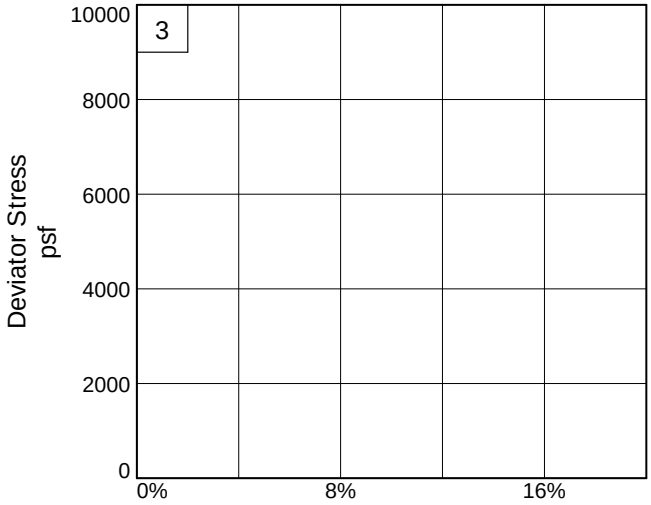
Proj. No.: 1511010228 **Date Sampled:**

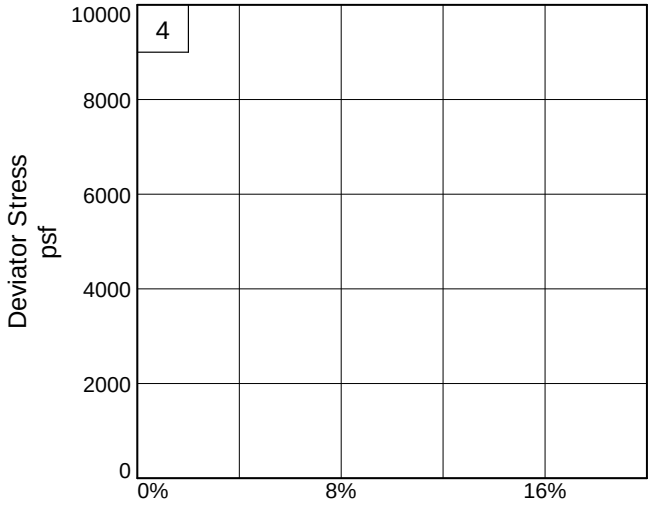
TRIAXIAL SHEAR TEST REPORT

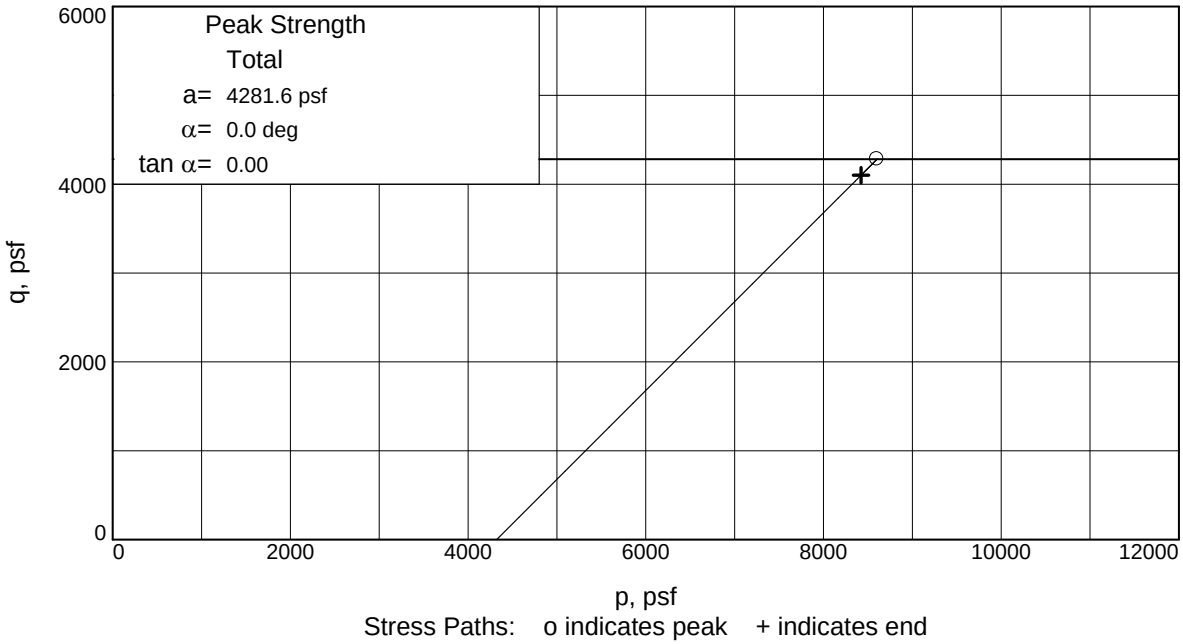
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

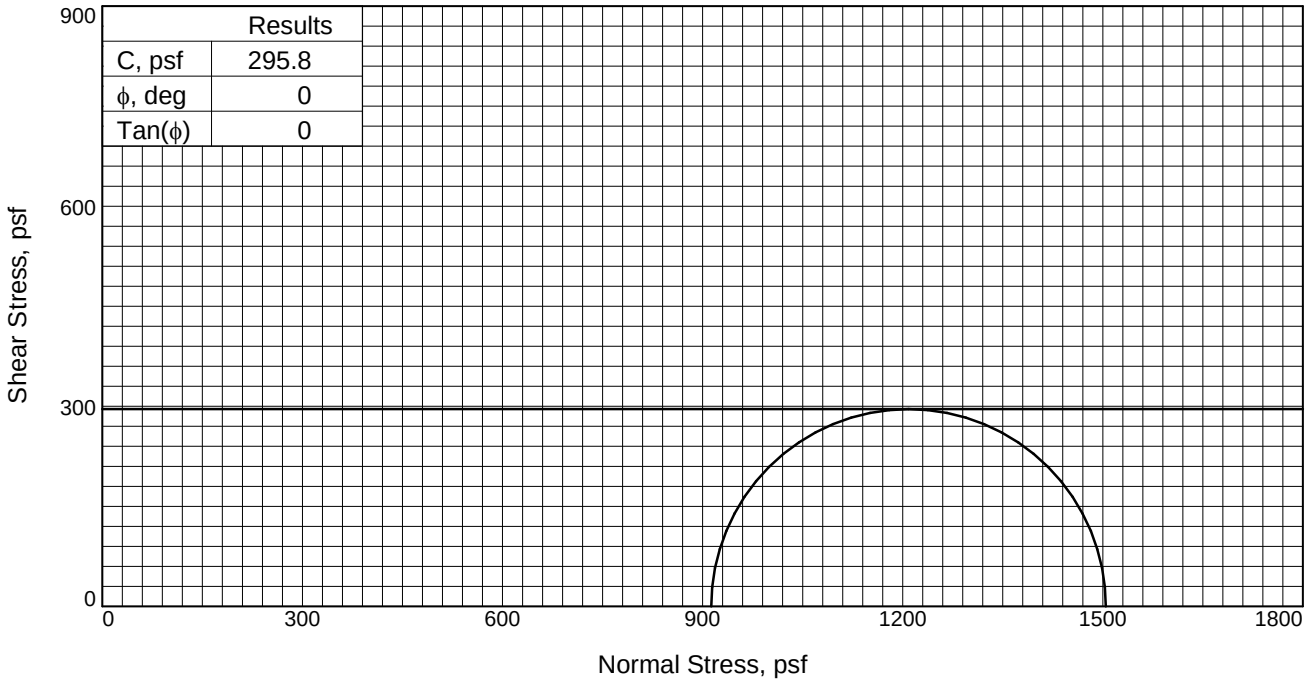
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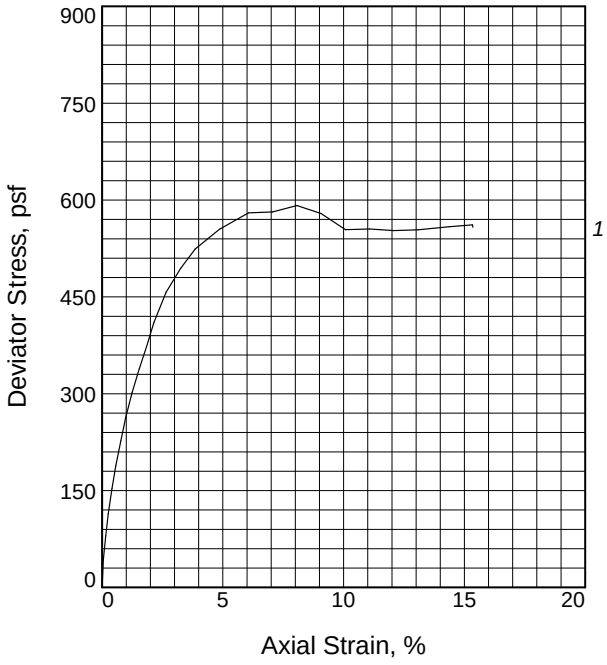
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 88.5'-90.5' **Sample Number:** BW-20 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.9
	Dry Density, pcf	81.7
	Saturation, %	100.2
	Void Ratio	1.0328
	Diameter, in.	2.806
	Height, in.	5.211
At Test	Water Content, %	44.5
	Dry Density, pcf	81.7
	Saturation, %	114.7
	Void Ratio	1.0328
	Diameter, in.	2.806
	Height, in.	5.211
Strain at peak, %		8.1
Back Pressure, psf		0.0
Cell Pressure, psf		913.0
Fail. Stress, psf		591.5
Strain, %		8.1
Ult. Stress, psf		591.5
Strain, %		8.1
σ_1 Failure, psf		1504.5
σ_3 Failure, psf		913.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(66))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

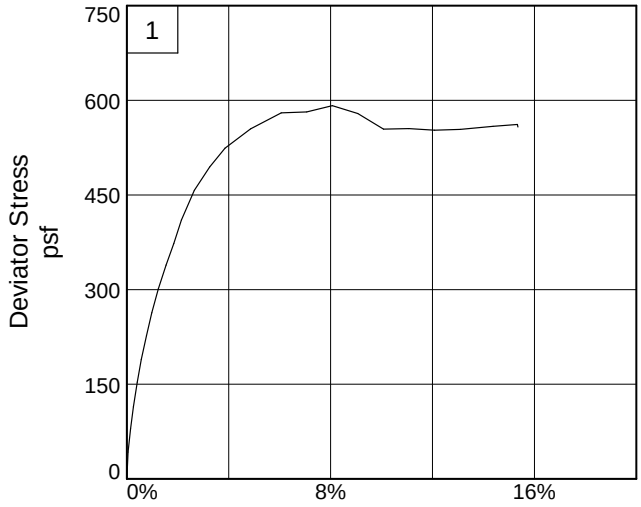
Source of Sample: Lab #8099 **Depth:** 18.0'-20.0'

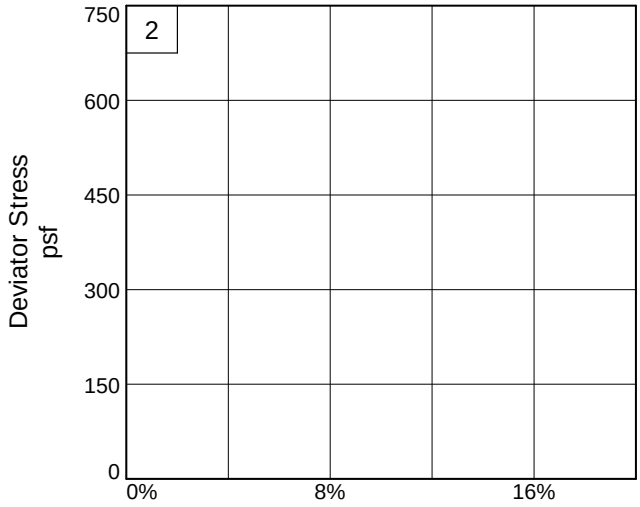
Sample Number: BW-21 T-1

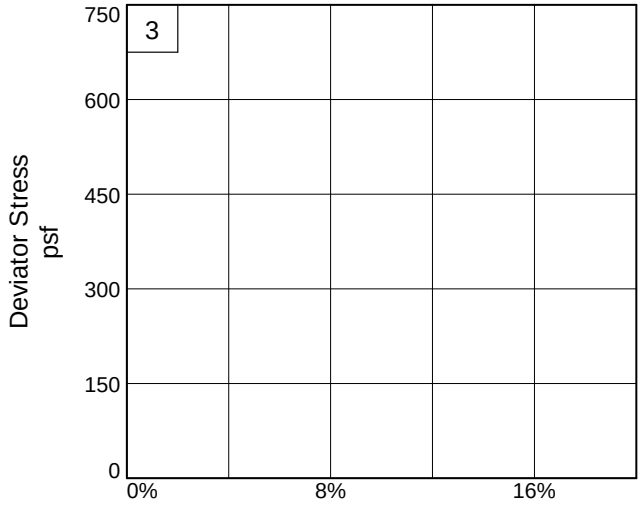
Proj. No.: 1511010228 **Date Sampled:**

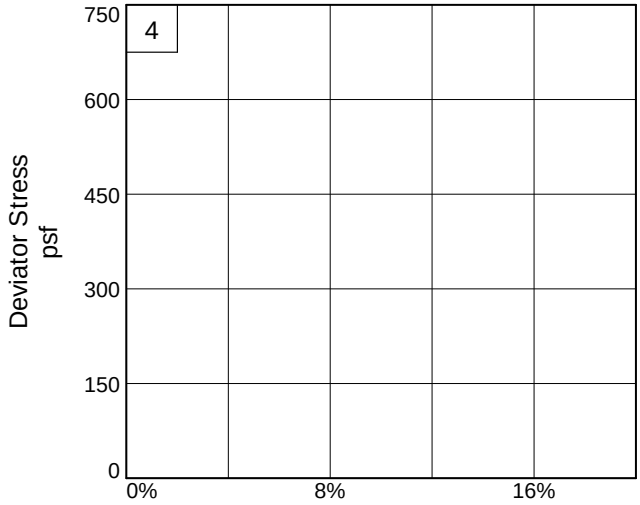
TRIAXIAL SHEAR TEST REPORT

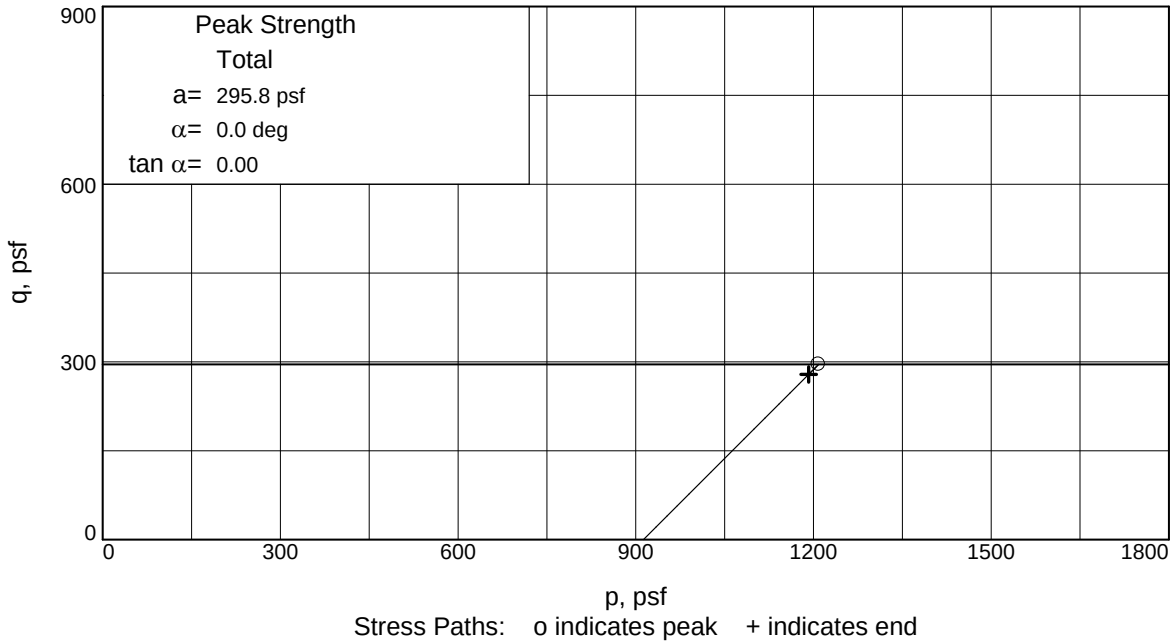
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

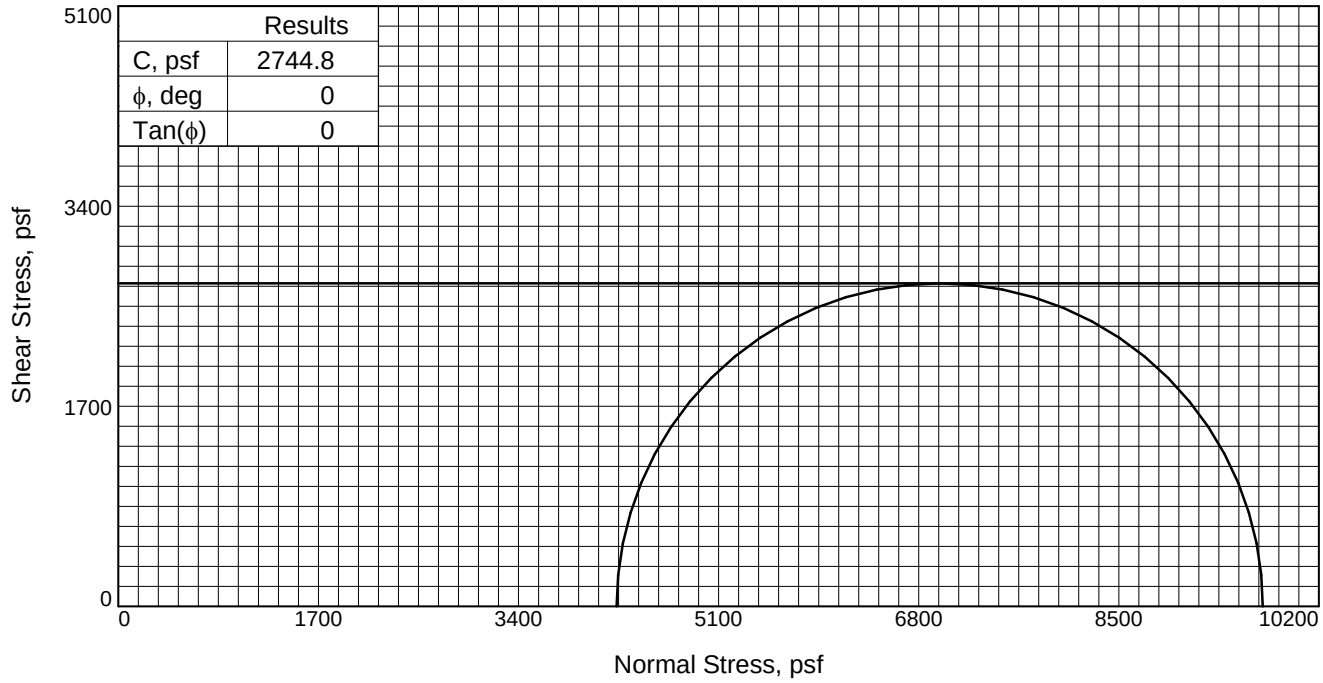
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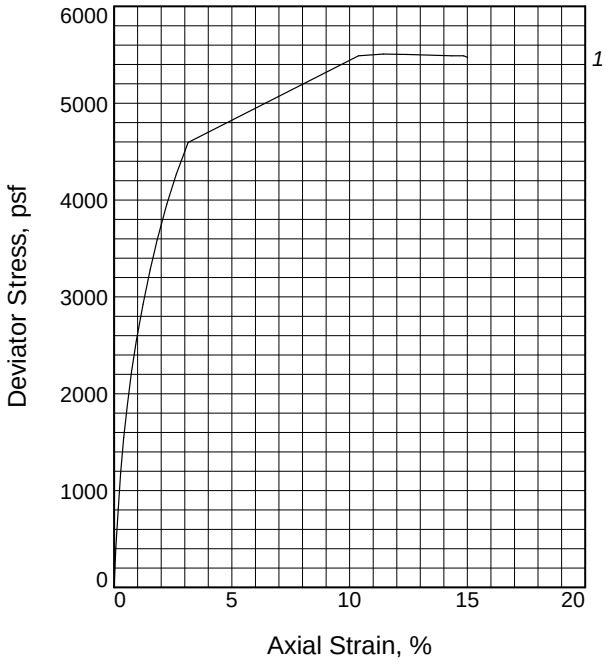
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 18.0'-20.0' **Sample Number:** BW-21 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	20.7
	Dry Density, pcf	106.2
	Saturation, %	97.8
	Void Ratio	0.5642
	Diameter, in.	2.867
	Height, in.	5.220
At Test	Water Content, %	23.8
	Dry Density, pcf	106.2
	Saturation, %	112.4
	Void Ratio	0.5642
	Diameter, in.	2.867
	Height, in.	5.220
Strain at peak, %		10.4
Back Pressure, psf		0.0
Cell Pressure, psf		4233.6
Fail. Stress, psf		5489.6
Strain, %		10.4
Ult. Stress, psf		5489.6
Strain, %		10.4
σ_1 Failure, psf		9723.2
σ_3 Failure, psf		4233.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

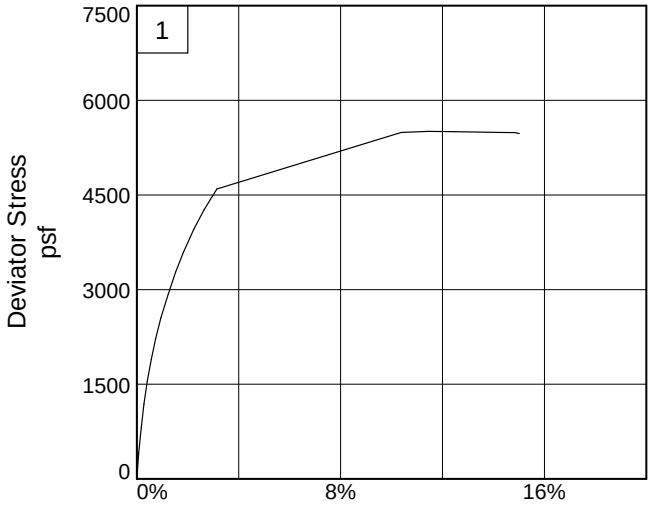
Source of Sample: Lab #8099 **Depth:** 88.0'-90.0'

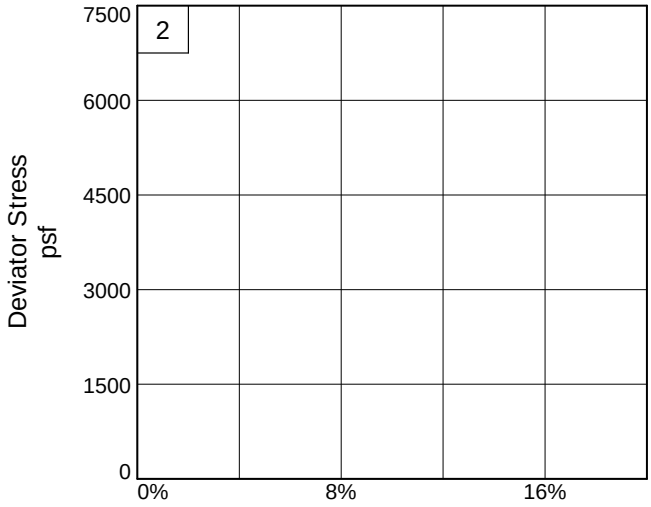
Sample Number: BW-21 T-3

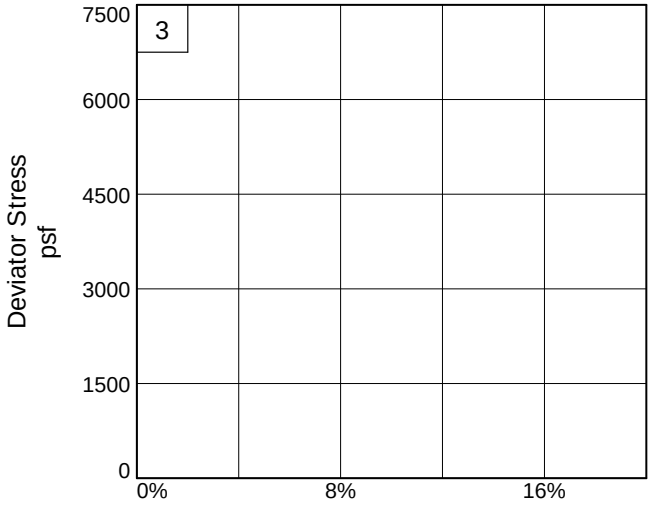
Proj. No.: 1511010228 **Date Sampled:**

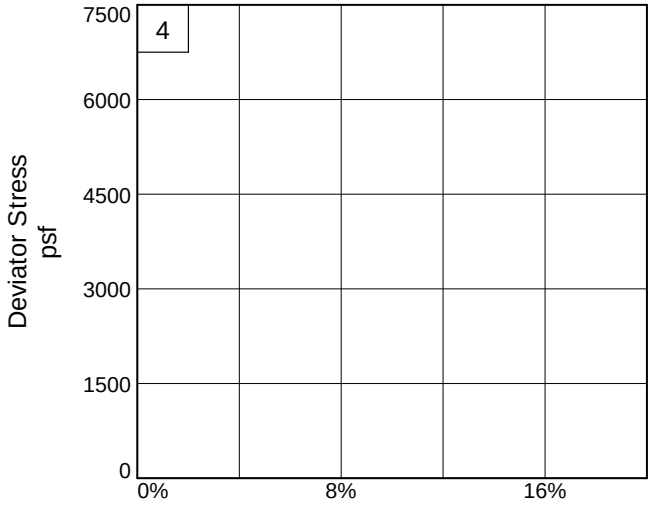
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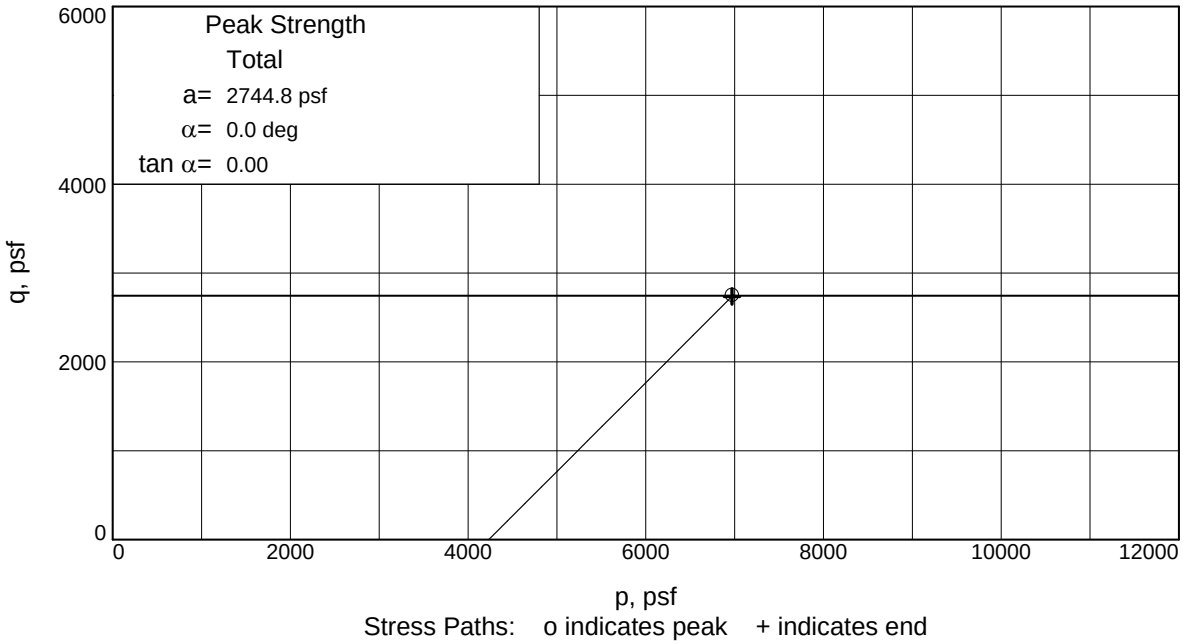
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

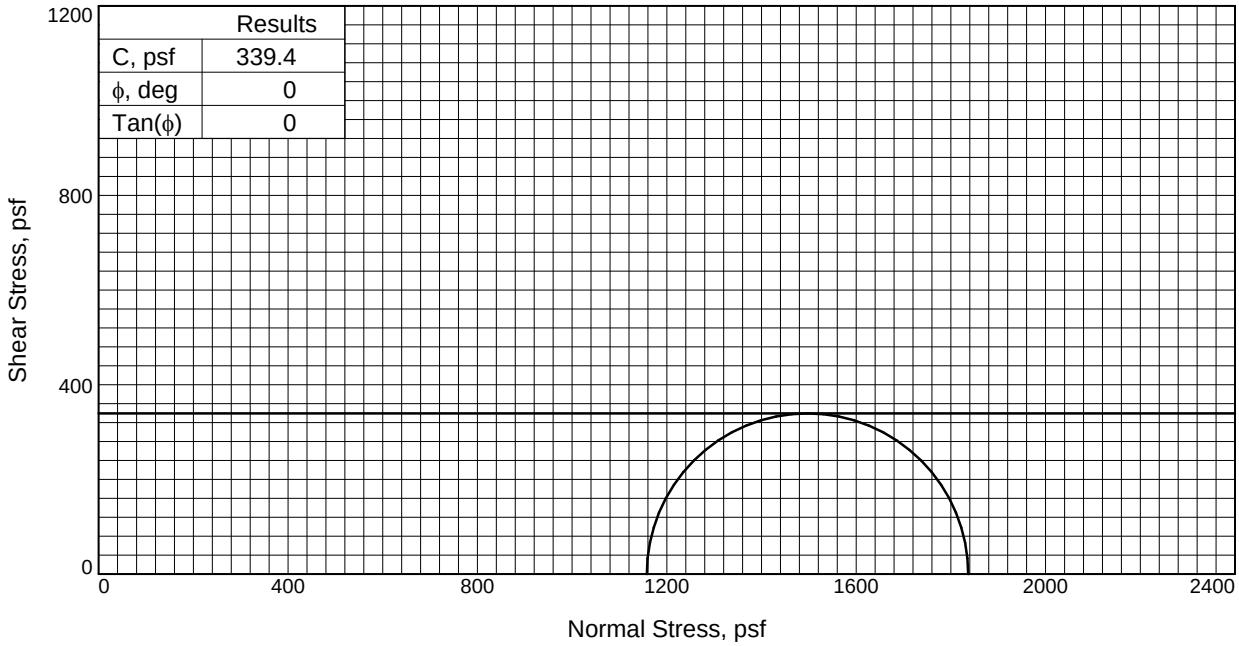
Client: ALDOT

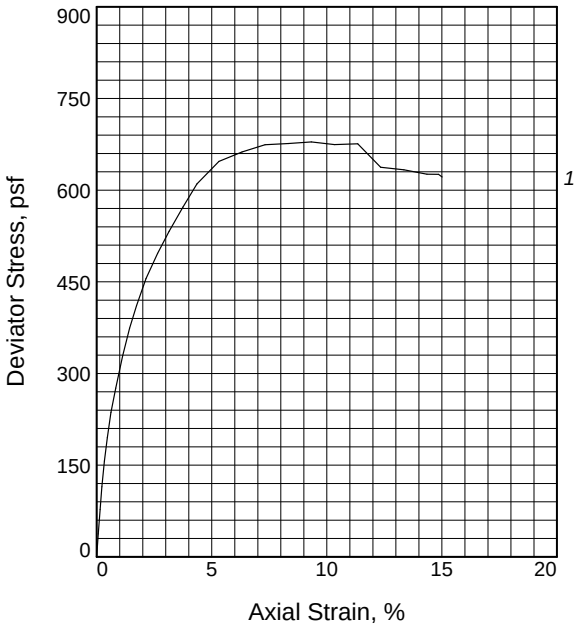
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 88.0'-90.0' **Sample Number:** BW-21 T-3

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	48.9
	Dry Density, pcf	77.0
	Saturation, %	112.1
	Void Ratio	1.1661
	Diameter, in.	2.754
	Height, in.	5.519
At Test	Water Content, %	47.5
	Dry Density, pcf	77.0
	Saturation, %	108.9
	Void Ratio	1.1661
	Diameter, in.	2.754
	Height, in.	5.519
Strain at peak, %		9.3
Back Pressure, psf		0.0
Cell Pressure, psf		1157.8
Fail. Stress, psf		678.8
Strain, %		9.3
Ult. Stress, psf		678.8
Strain, %		9.3
σ_1 Failure, psf		1836.6
σ_3 Failure, psf		1157.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(43))

Specific Gravity= 2.673

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

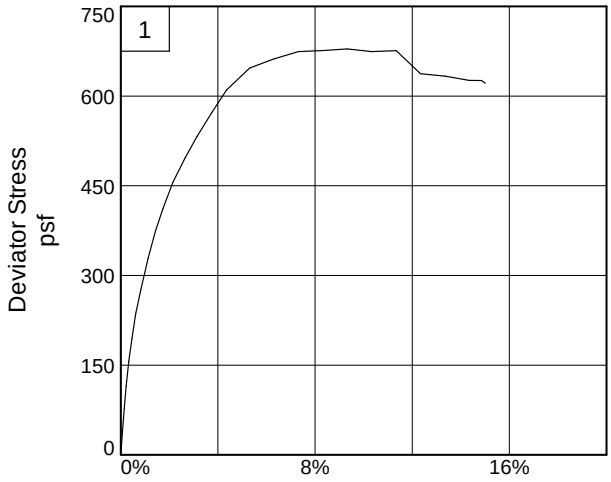
Project: Mobile River Bridge

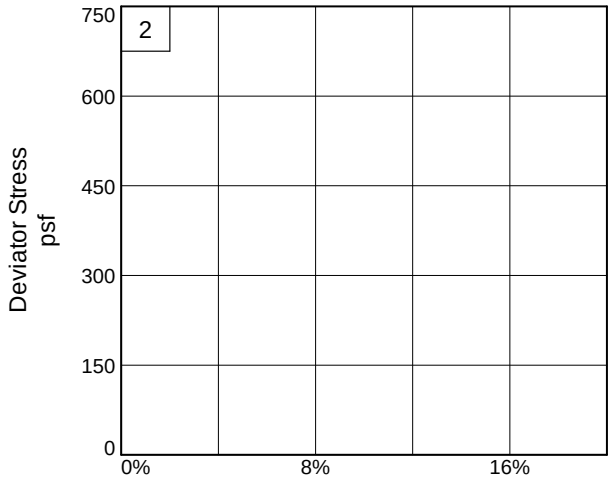
Source of Sample: Lab #7852 **Depth:** 23.5'-25.5'

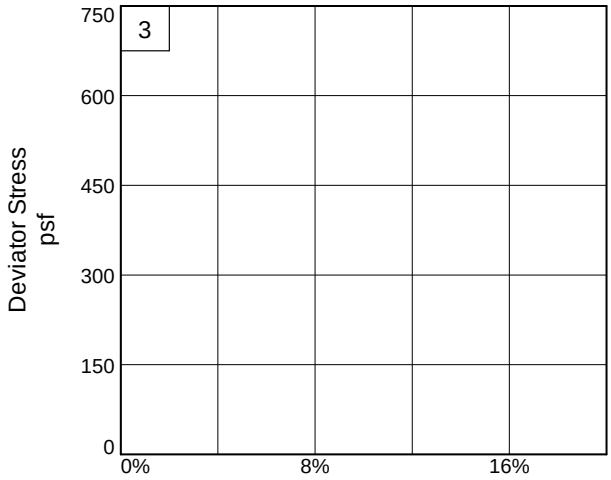
Sample Number: BW-24 T-1

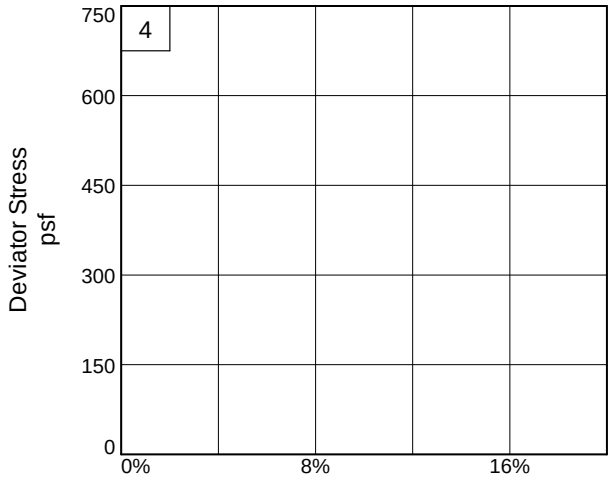
Proj. No.: 1511010228 **Date Sampled:**

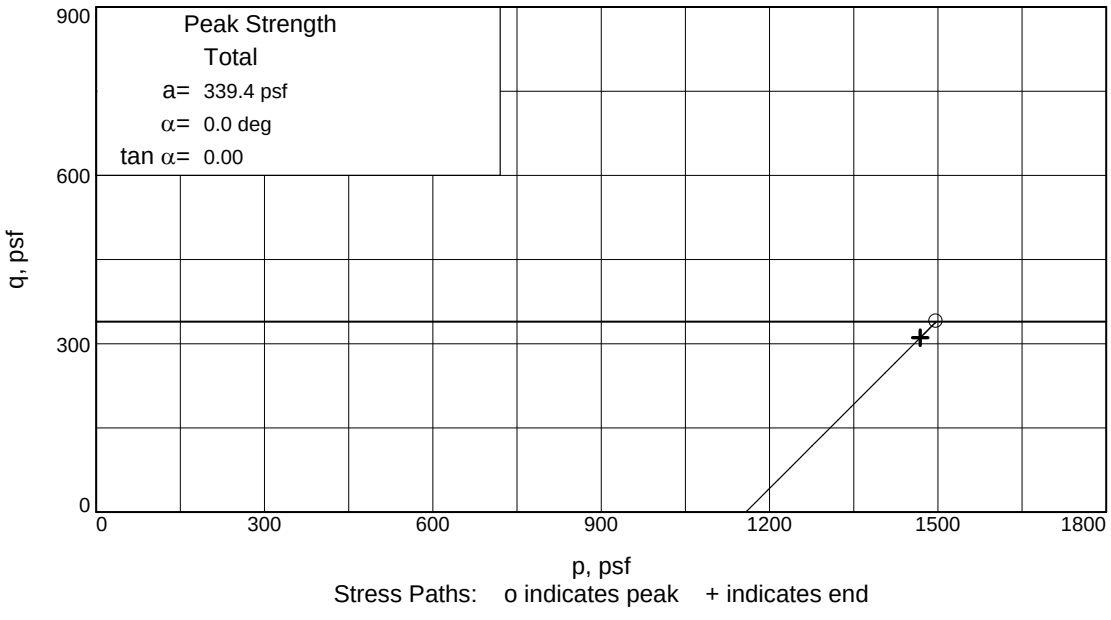
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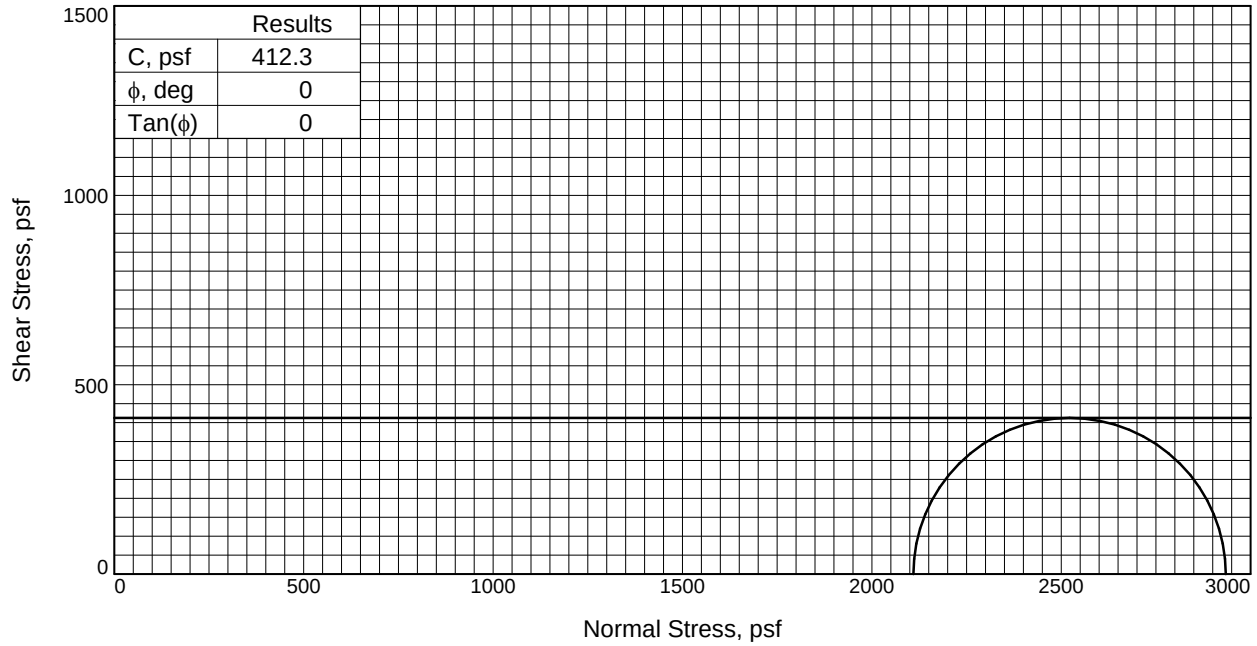


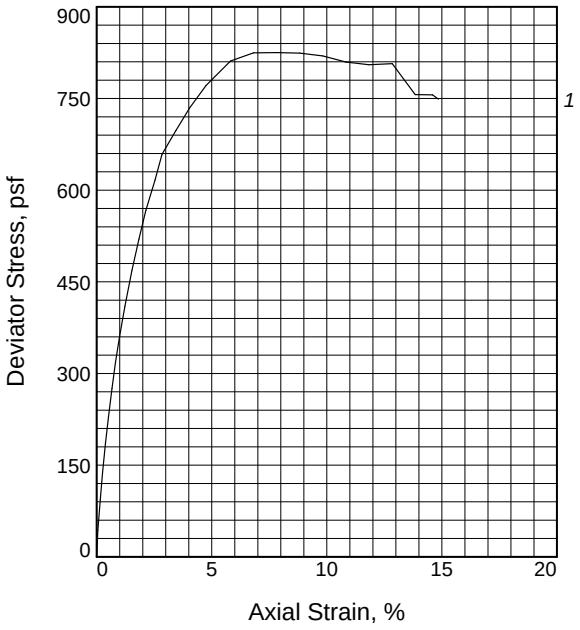




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 23.5'-25.5' **Sample Number:** BW-24 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	32.7
	Dry Density, pcf	83.4
	Saturation, %	88.3
	Void Ratio	0.9773
	Diameter, in.	2.789
	Height, in.	5.478
At Test	Water Content, %	47.6
	Dry Density, pcf	83.4
	Saturation, %	128.6
	Void Ratio	0.9773
	Diameter, in.	2.789
	Height, in.	5.478
Strain at peak, %		6.8
Back Pressure, psf		0.0
Cell Pressure, psf		2109.6
Fail. Stress, psf		824.6
Strain, %		6.8
Ult. Stress, psf		824.6
Strain, %		6.8
σ_1 Failure, psf		2934.2
σ_3 Failure, psf		2109.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.641

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

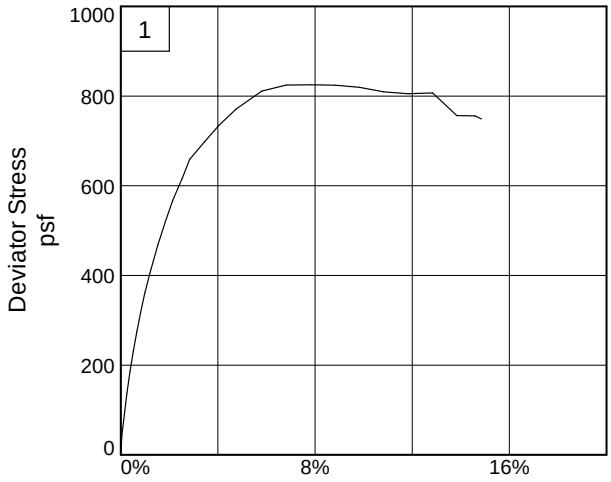
Project: Mobile River Bridge

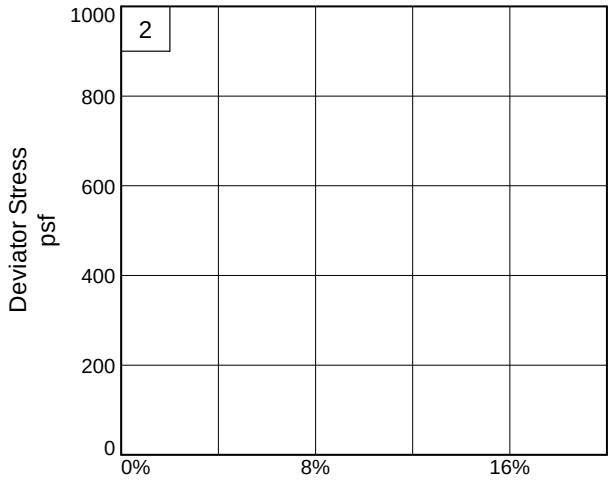
Source of Sample: Lab #7852 **Depth:** 43.5'-45.5'

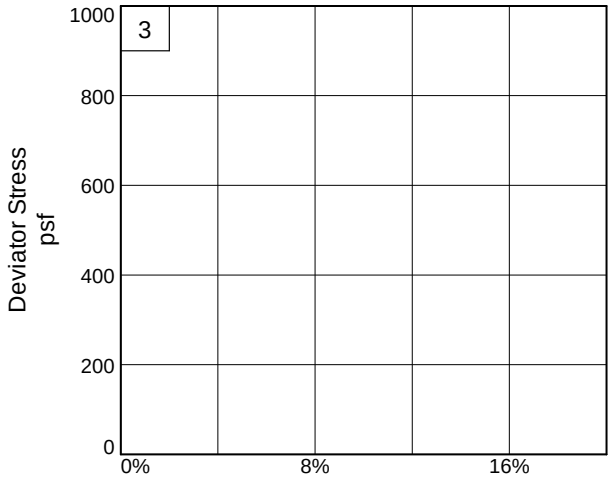
Sample Number: BW-24 T-3

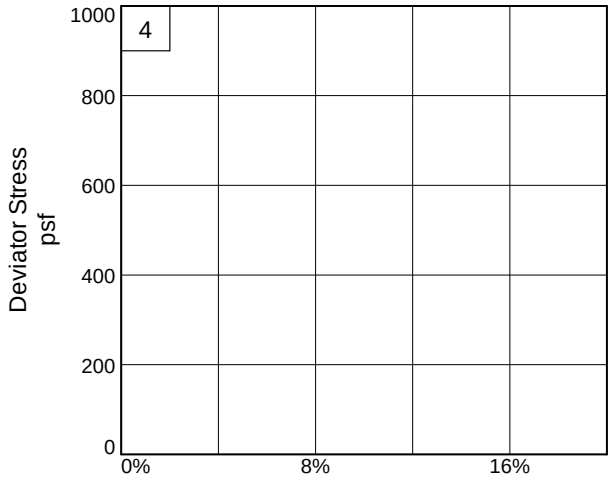
Proj. No.: 1511010228 **Date Sampled:**

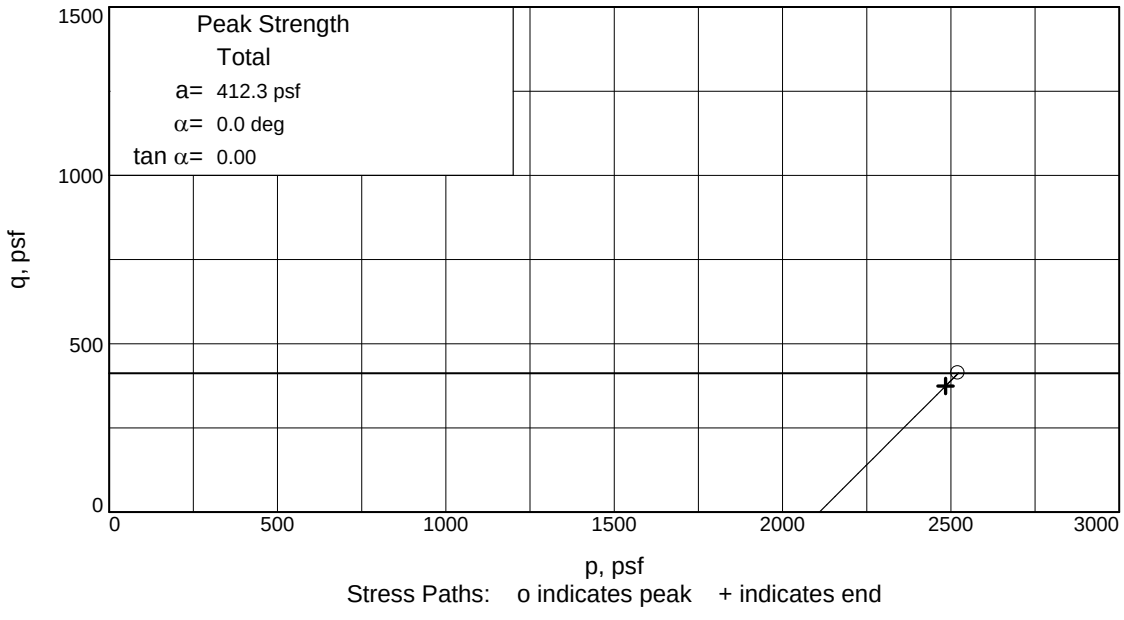
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Mobile, Alabama





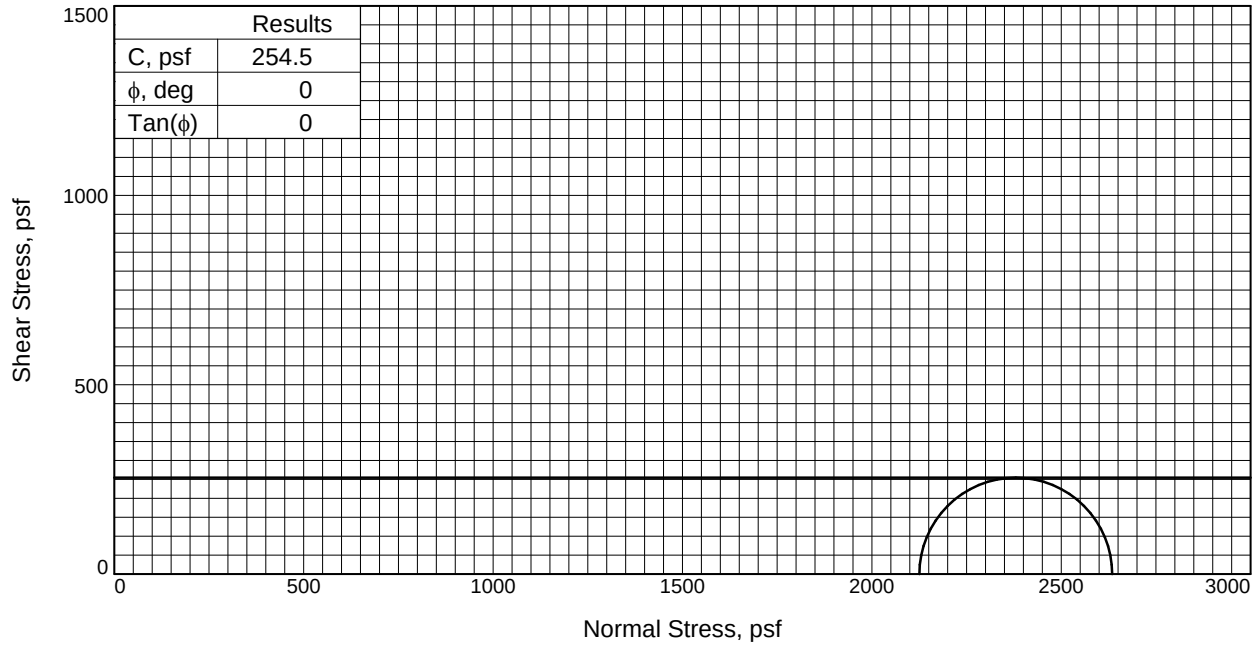


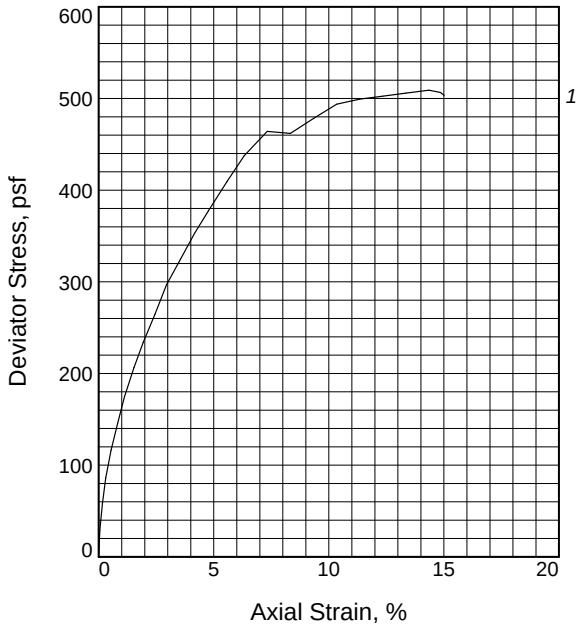




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 43.5'-45.5' **Sample Number:** BW-24 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	63.4
	Dry Density, pcf	68.2
	Saturation, %	115.5
	Void Ratio	1.4969
	Diameter, in.	2.793
	Height, in.	5.045
At Test	Water Content, %	54.9
	Dry Density, pcf	68.2
	Saturation, %	99.9
	Void Ratio	1.4969
	Diameter, in.	2.793
	Height, in.	5.045
Strain at peak, %		14.4
Back Pressure, psf		0.0
Cell Pressure, psf		2125.4
Fail. Stress, psf		509.0
Strain, %		14.4
Ult. Stress, psf		509.0
Strain, %		14.4
σ_1 Failure, psf		2634.5
σ_3 Failure, psf		2125.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(31))

Specific Gravity= 2.727

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

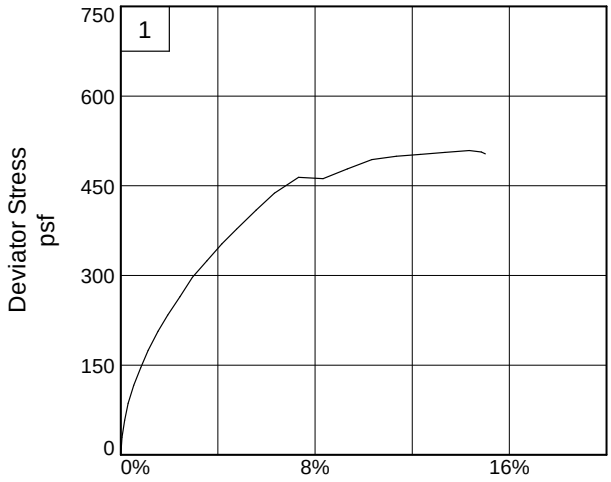
Project: Mobile River Bridge

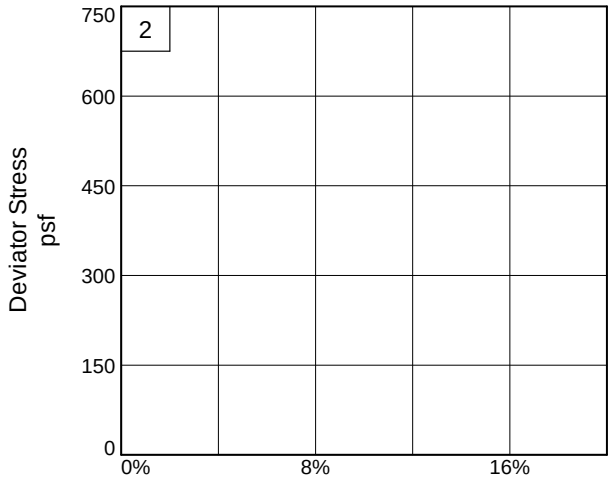
Source of Sample: Lab #7852 **Depth:** 68.5'-70.5'

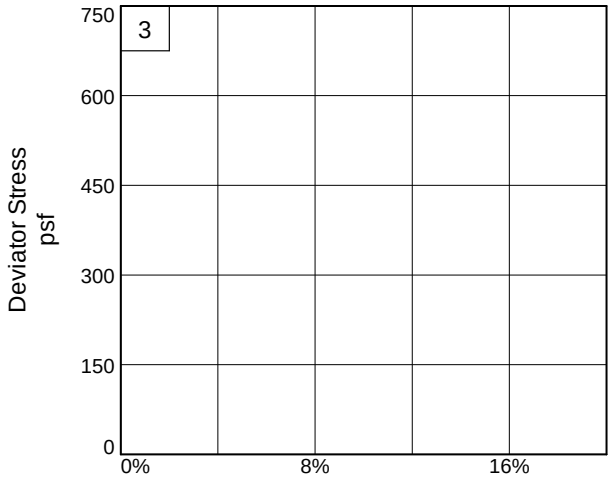
Sample Number: BW-24 T-4

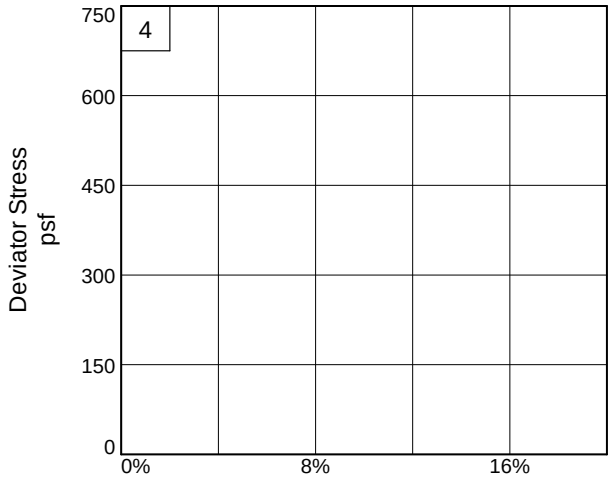
Proj. No.: 1511010228 **Date Sampled:**

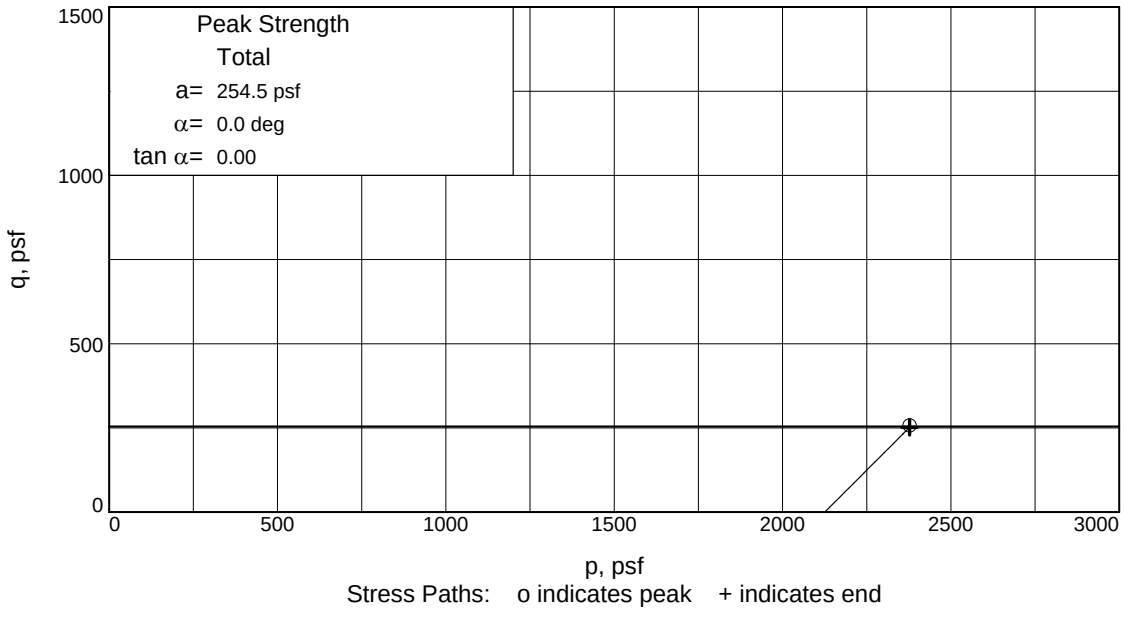
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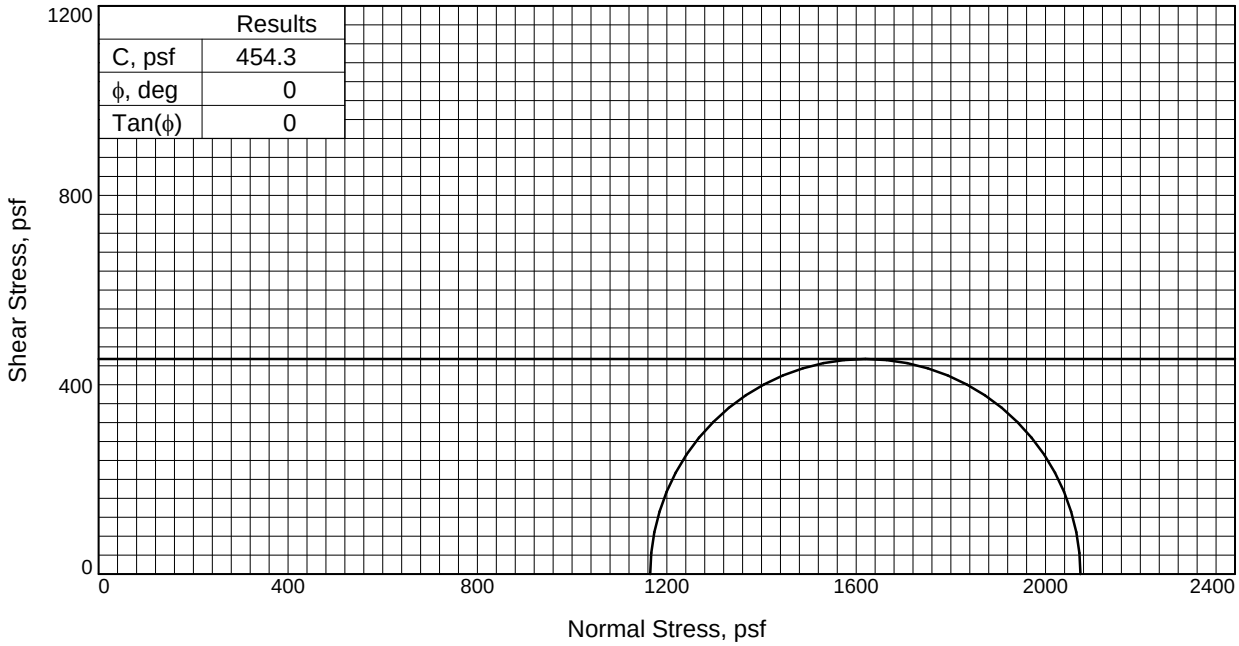


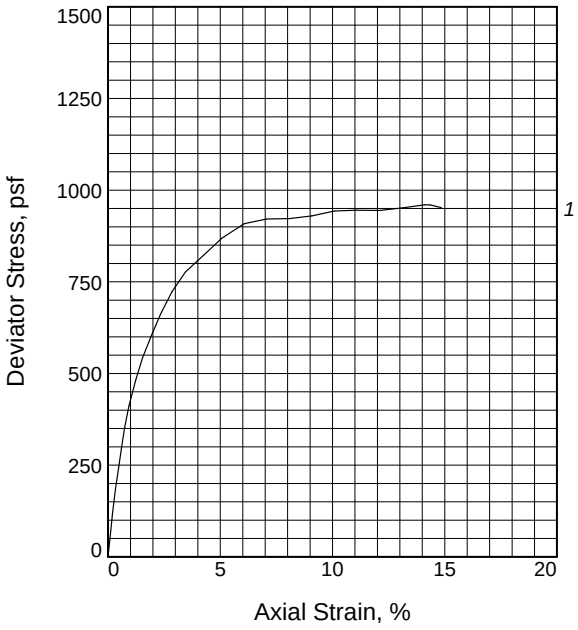




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7852 **Depth:** 68.5'-70.5' **Sample Number:** BW-24 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	44.6
	Dry Density, pcf	74.6
	Saturation, %	96.9
	Void Ratio	1.2227
	Diameter, in.	2.805
	Height, in.	5.435
At Test	Water Content, %	50.9
	Dry Density, pcf	74.6
	Saturation, %	110.6
	Void Ratio	1.2227
	Diameter, in.	2.805
	Height, in.	5.435
Strain at peak, %		6.1
Back Pressure, psf		0.0
Cell Pressure, psf		1165.0
Fail. Stress, psf		908.6
Strain, %		6.1
Ult. Stress, psf		908.6
Strain, %		6.1
σ_1 Failure, psf		2073.5
σ_3 Failure, psf		1165.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-7-6(14))

Specific Gravity= 2.655

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

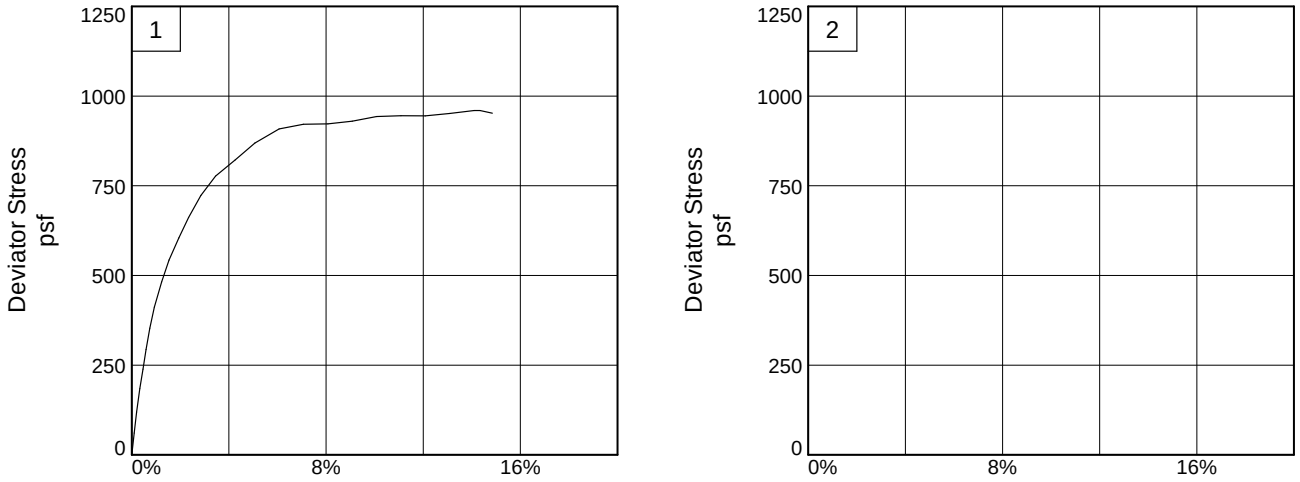
Project: Mobile River Bridge

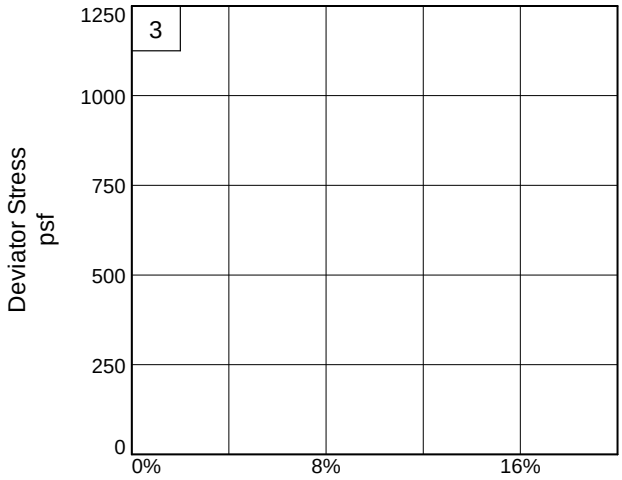
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5'

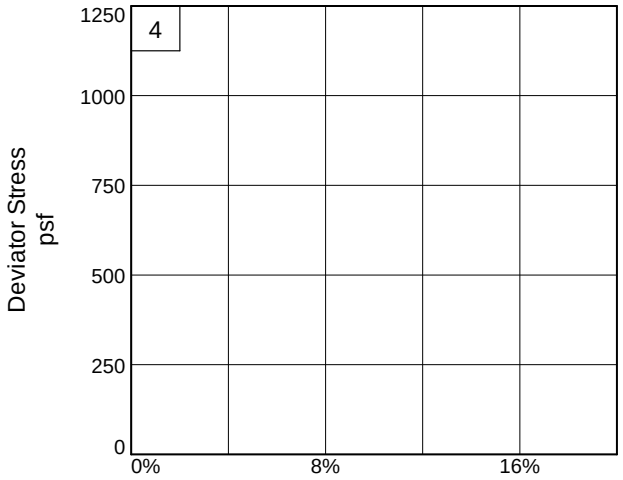
Sample Number: BW-25 T-1

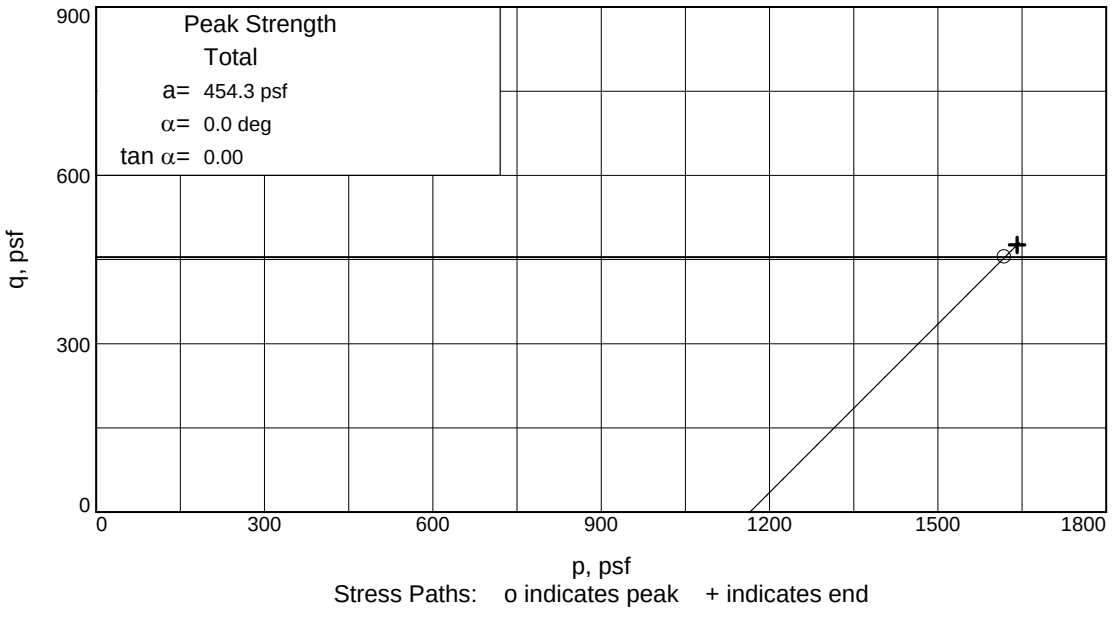
Proj. No.: 1511010228 **Date Sampled:**

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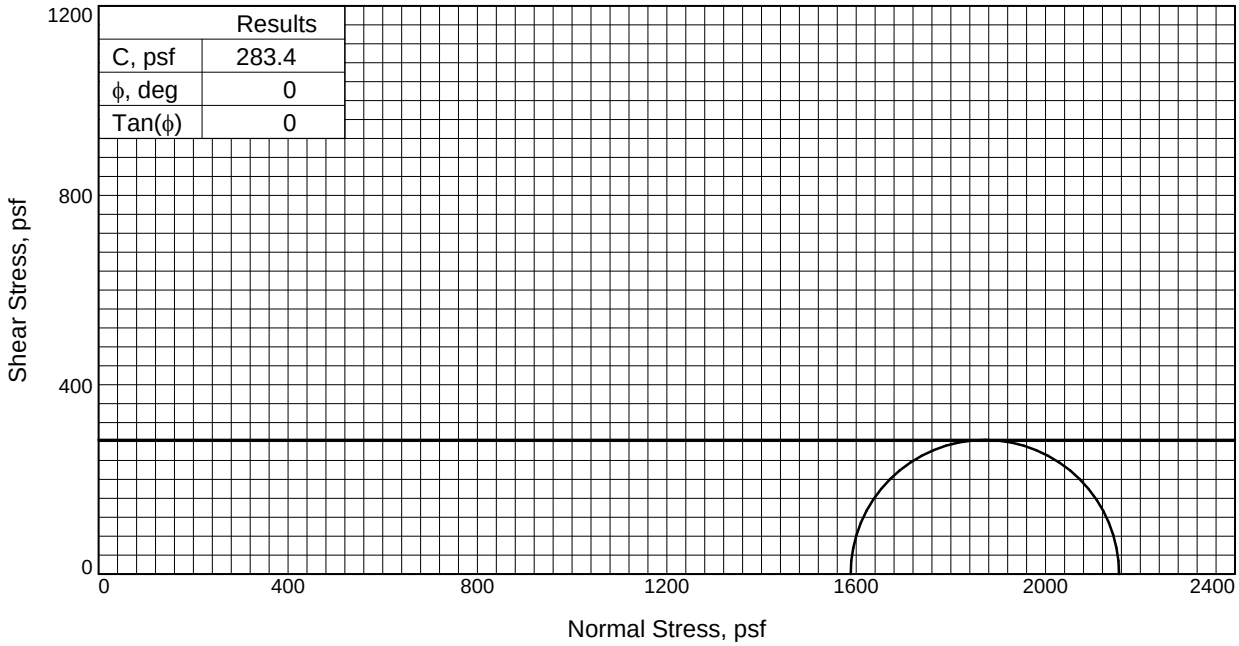


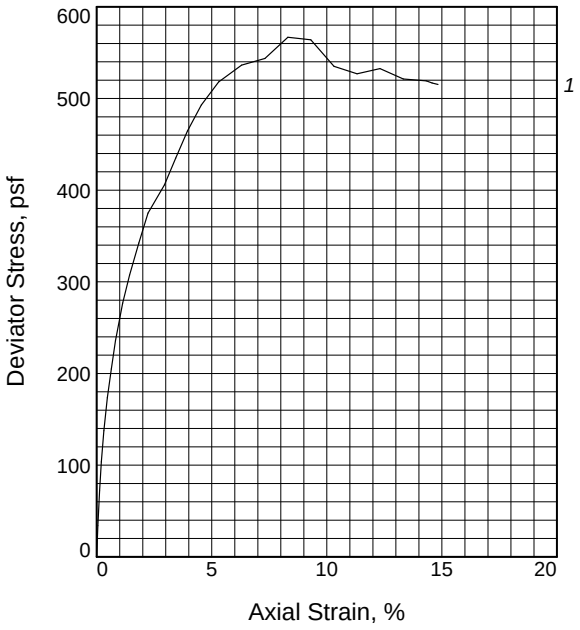




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5' **Sample Number:** BW-25 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	29.7
	Dry Density, pcf	93.6
	Saturation, %	102.1
	Void Ratio	0.7739
	Diameter, in.	2.792
	Height, in.	5.580
At Test	Water Content, %	32.4
	Dry Density, pcf	93.6
	Saturation, %	111.2
	Void Ratio	0.7739
	Diameter, in.	2.792
	Height, in.	5.580
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		1588.3
Fail. Stress, psf		566.8
Strain, %		8.3
Ult. Stress, psf		566.8
Strain, %		8.3
σ_1 Failure, psf		2155.2
σ_3 Failure, psf		1588.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-2-6(2))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

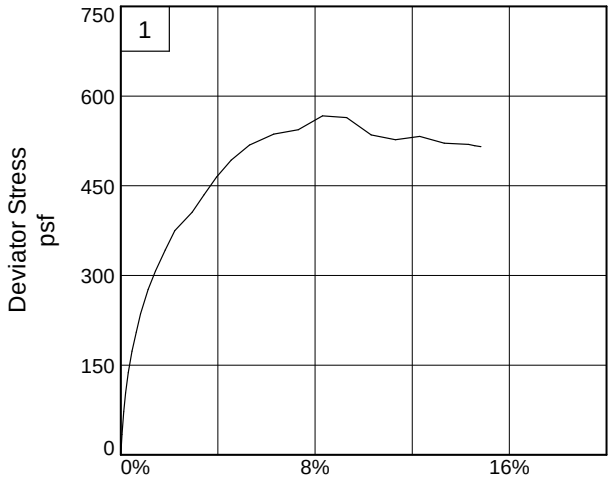
Project: Mobile River Bridge

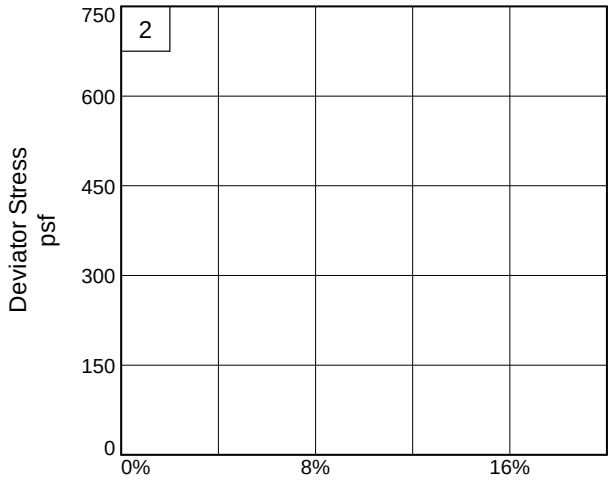
Source of Sample: Lab #7837 **Depth:** 33.5'-35.5'

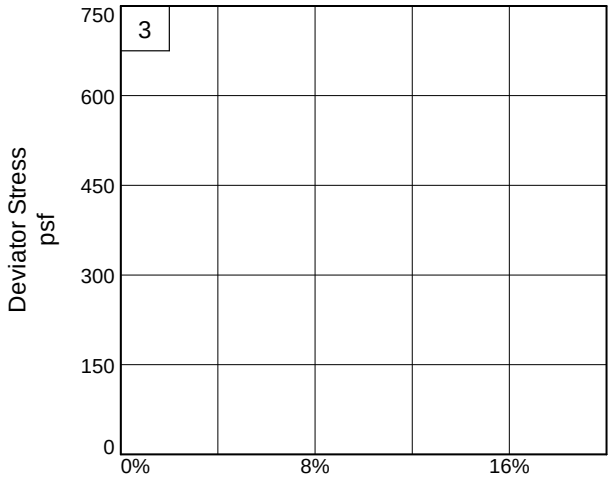
Sample Number: BW-25 T-2

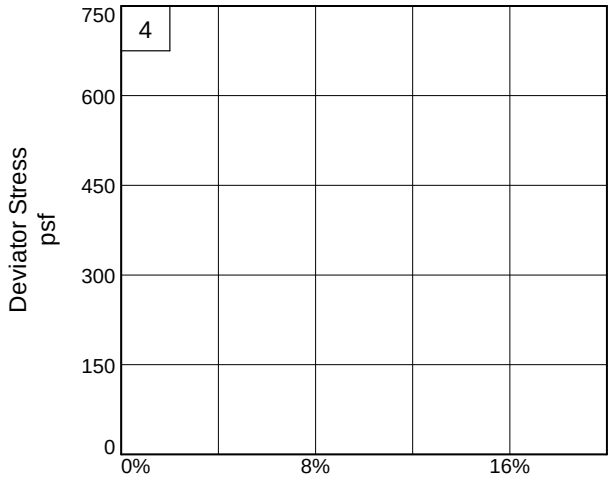
Proj. No.: 1511010228 **Date Sampled:**

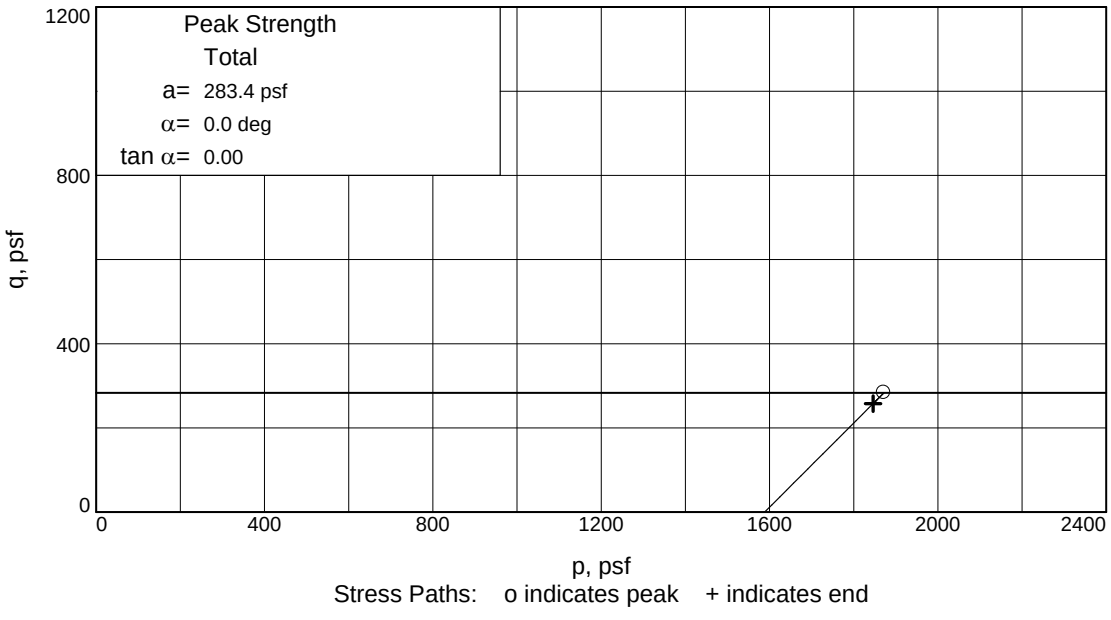
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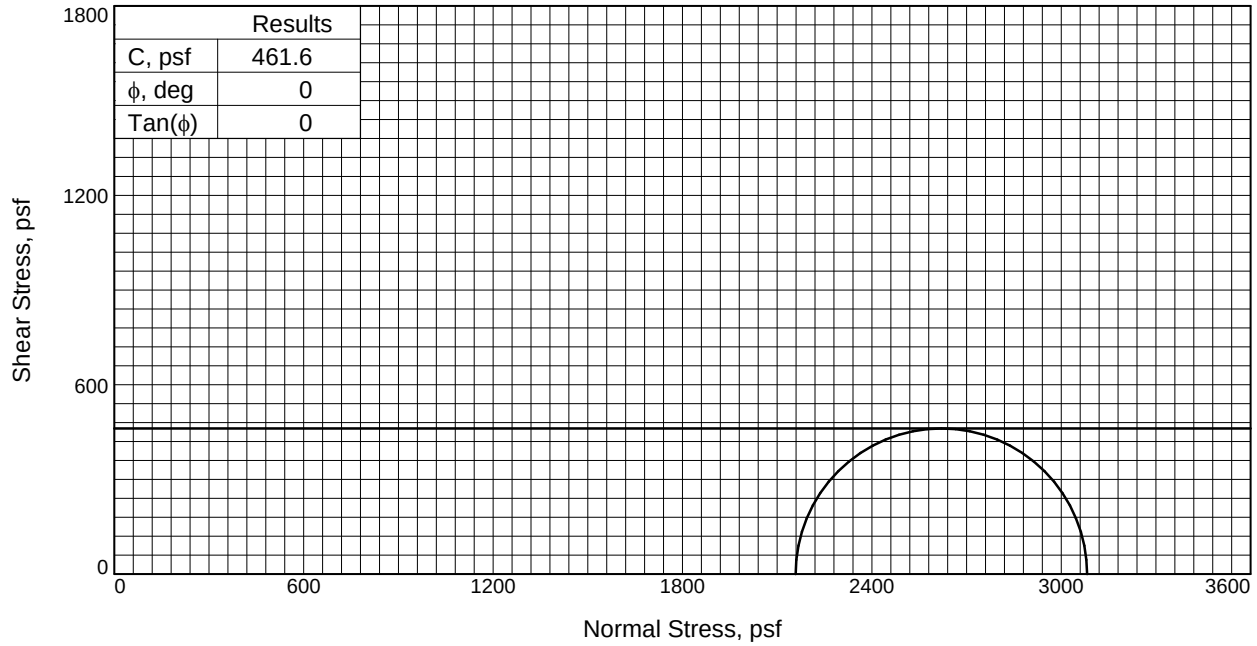


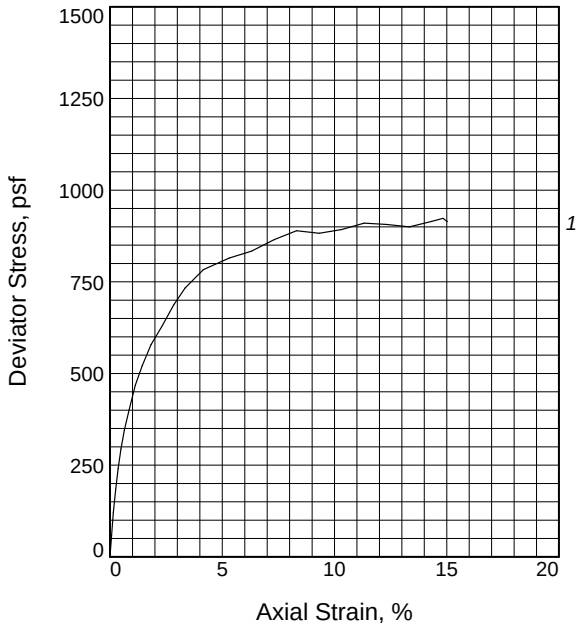




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 33.5'-35.5' **Sample Number:** BW-25 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	31.6
	Dry Density, pcf	94.6
	Saturation, %	110.7
	Void Ratio	0.7596
	Diameter, in.	2.840
	Height, in.	5.502
At Test	Water Content, %	29.6
	Dry Density, pcf	94.6
	Saturation, %	103.9
	Void Ratio	0.7596
	Diameter, in.	2.840
	Height, in.	5.502
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2158.6
Fail. Stress, psf		923.2
Strain, %		14.8
Ult. Stress, psf		923.2
Strain, %		14.8
σ_1 Failure, psf		3081.8
σ_3 Failure, psf		2158.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(9))

Specific Gravity= 2.665

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

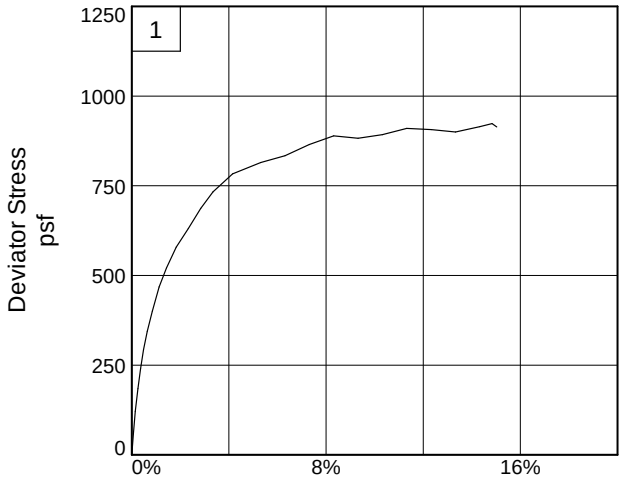
Project: Mobile River Bridge

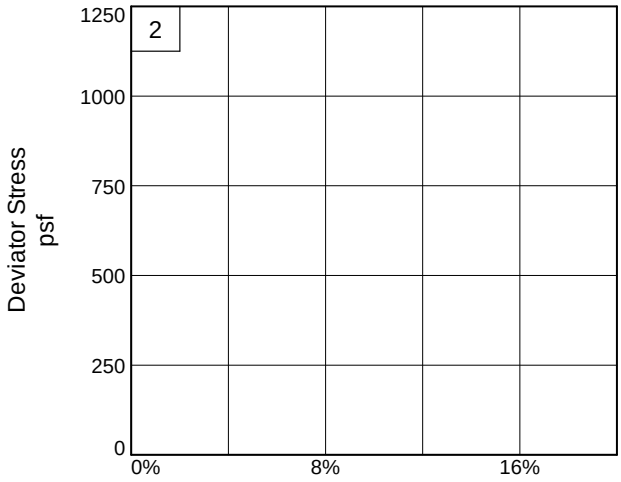
Source of Sample: Lab #7837 **Depth:** 43.5'-45.5'

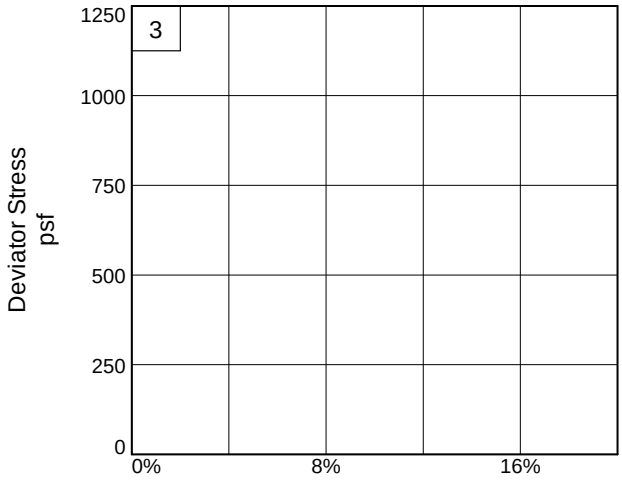
Sample Number: BW-25 T-3

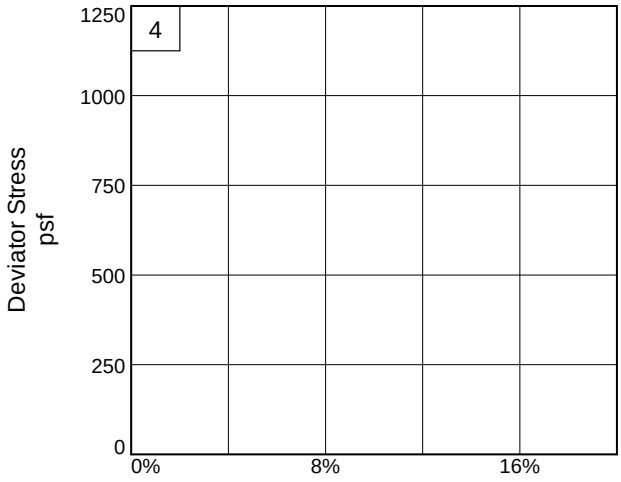
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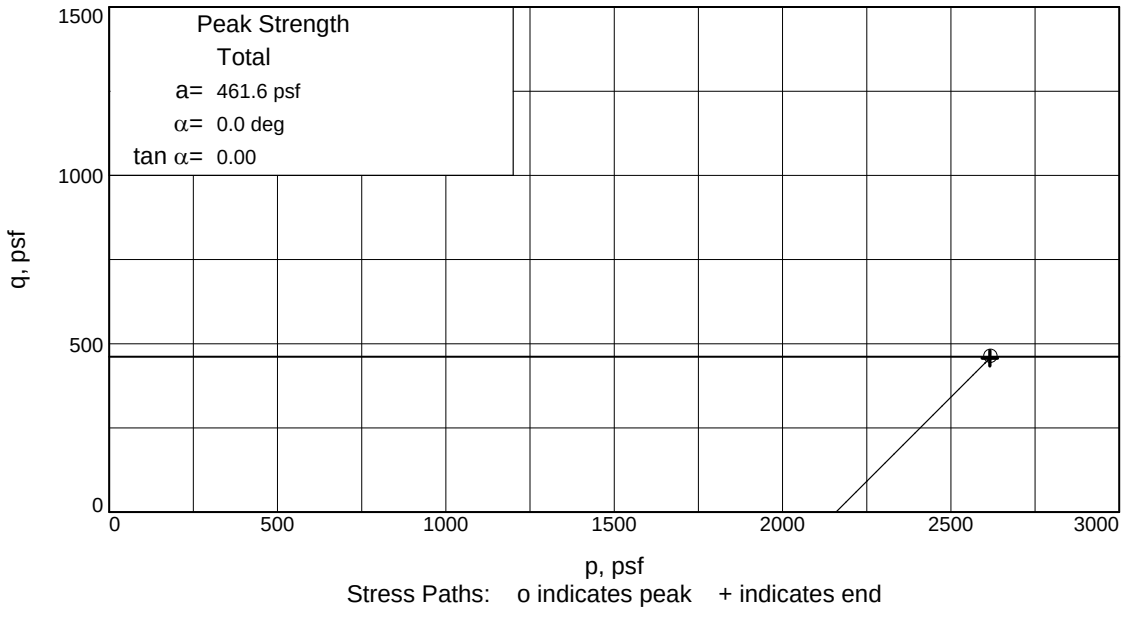
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Mobile, Alabama





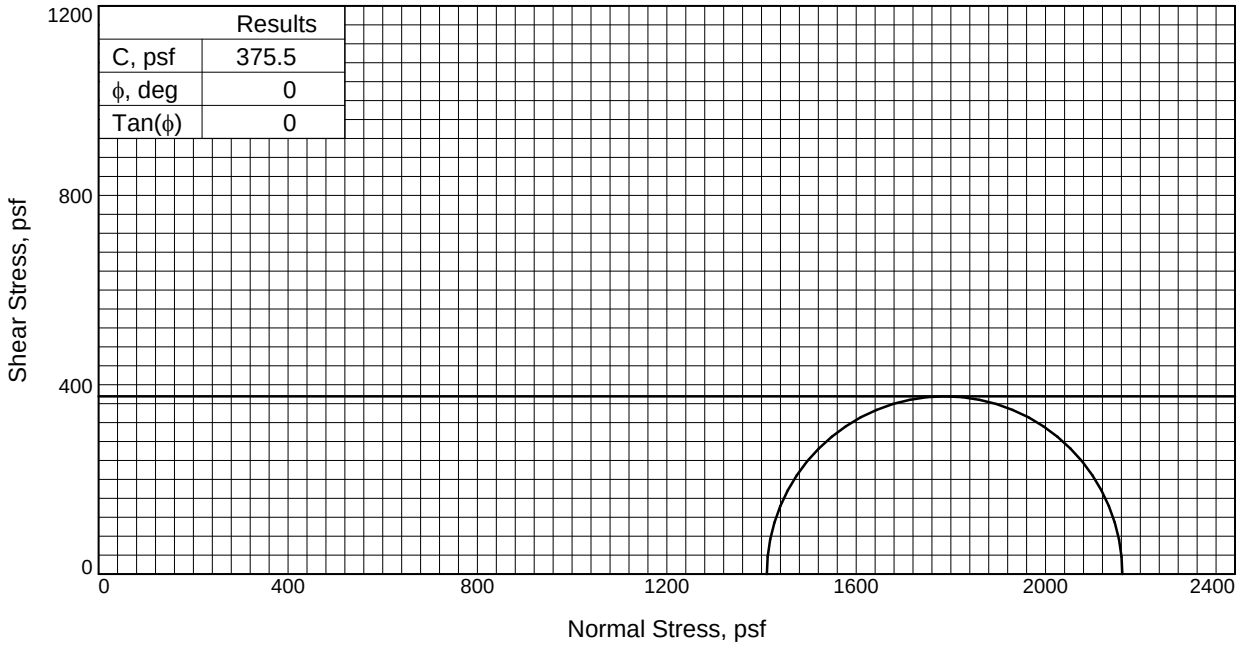


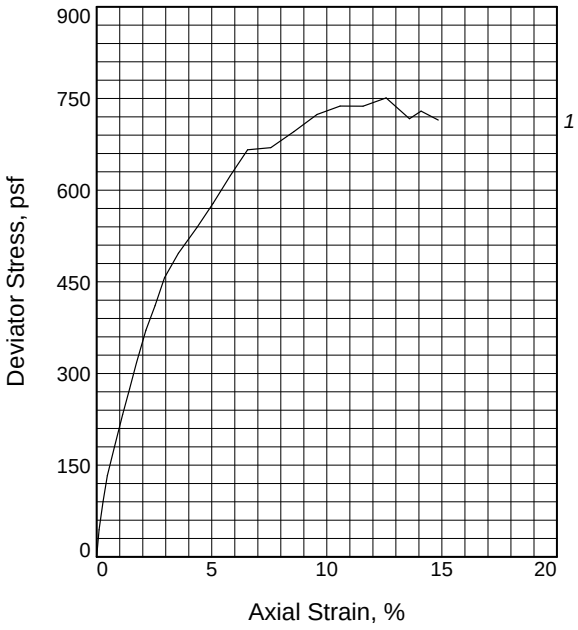




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 43.5'-45.5' **Sample Number:** BW-25 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	26.5
	Dry Density, pcf	97.1
	Saturation, %	99.4
	Void Ratio	0.7103
	Diameter, in.	2.846
	Height, in.	5.511
At Test	Water Content, %	30.7
	Dry Density, pcf	97.1
	Saturation, %	115.0
	Void Ratio	0.7103
	Diameter, in.	2.846
	Height, in.	5.511
Strain at peak, %		12.6
Back Pressure, psf		0.0
Cell Pressure, psf		1411.2
Fail. Stress, psf		751.0
Strain, %		12.6
Ult. Stress, psf		751.0
Strain, %		12.6
σ_1 Failure, psf		2162.2
σ_3 Failure, psf		1411.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(2))

Specific Gravity= 2.660

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

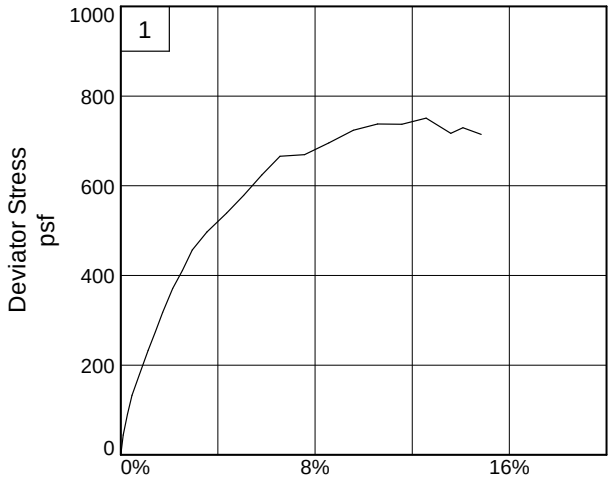
Project: Mobile River Bridge

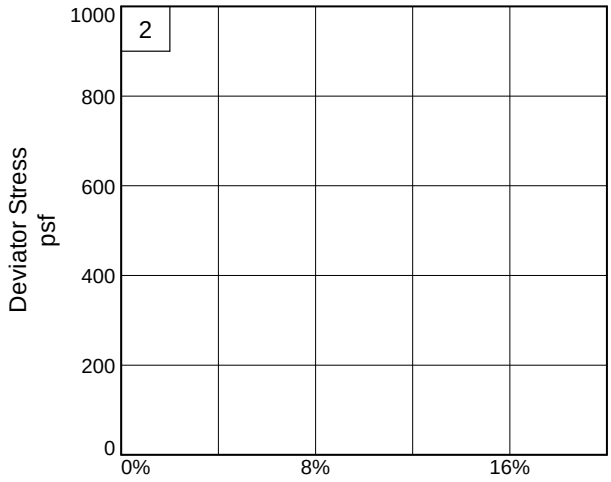
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5'

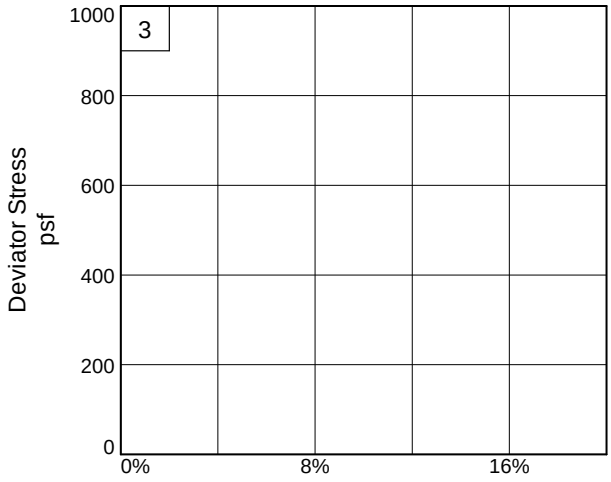
Sample Number: BW-26 T-2

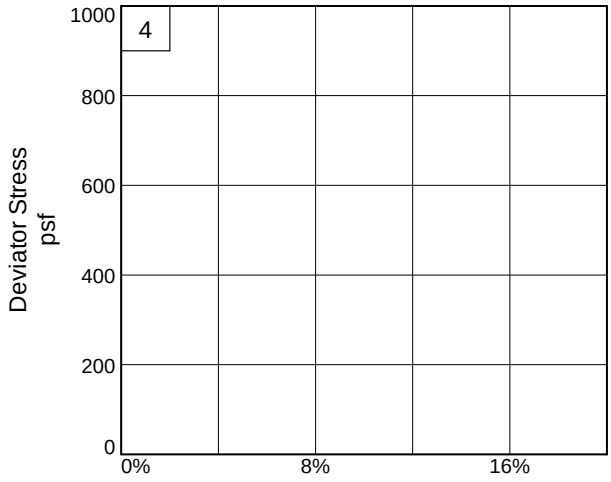
Proj. No.: 1511010228 **Date Sampled:**

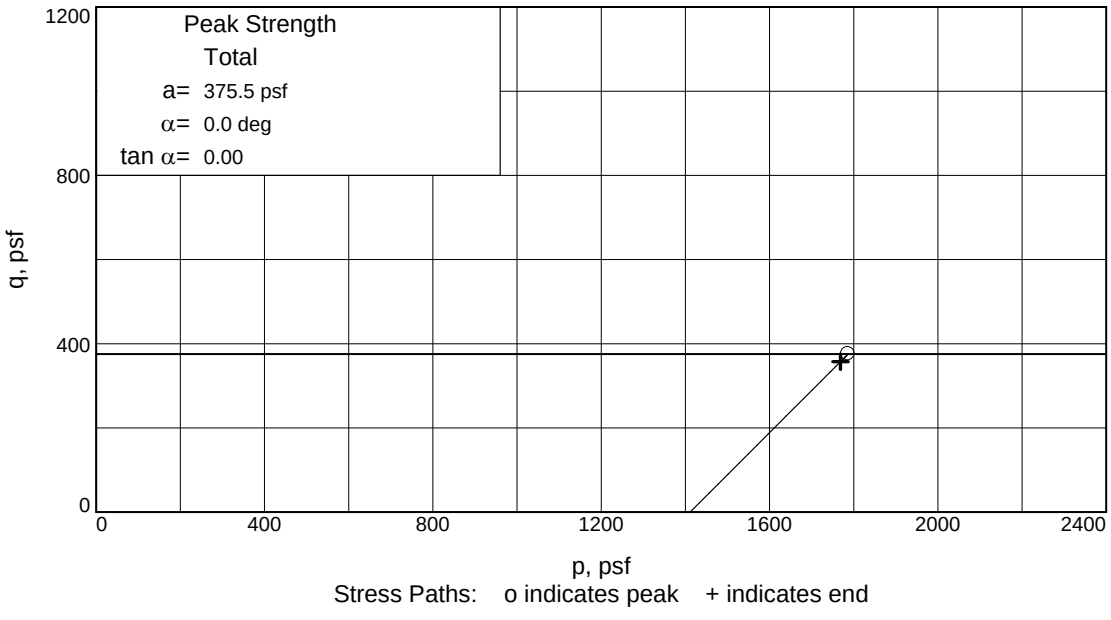
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Mobile, Alabama





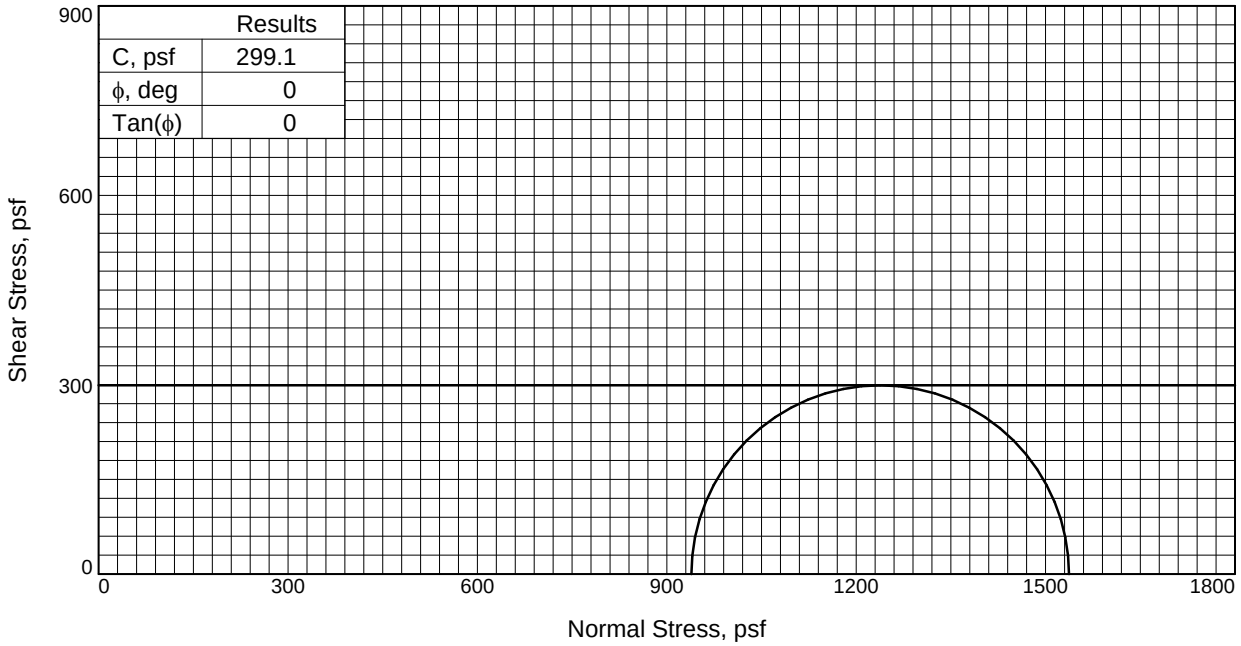


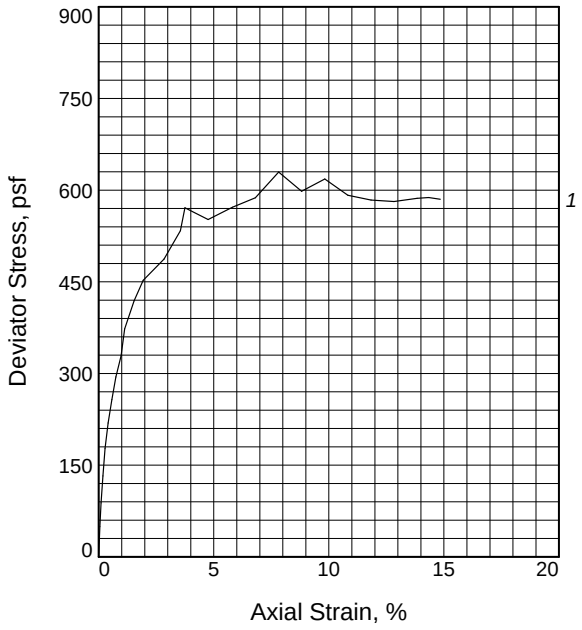




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5' **Sample Number:** BW-26 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	50.7
	Dry Density, pcf	70.8
	Saturation, %	102.9
	Void Ratio	1.2667
	Diameter, in.	2.831
	Height, in.	5.382
At Test	Water Content, %	52.6
	Dry Density, pcf	70.8
	Saturation, %	106.7
	Void Ratio	1.2667
	Diameter, in.	2.831
	Height, in.	5.382
Strain at peak, %		8.8
Back Pressure, psf		0.0
Cell Pressure, psf		938.9
Fail. Stress, psf		598.1
Strain, %		8.8
Ult. Stress, psf		598.1
Strain, %		8.8
σ_1 Failure, psf		1537.0
σ_3 Failure, psf		938.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(6))

Specific Gravity= 2.570

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

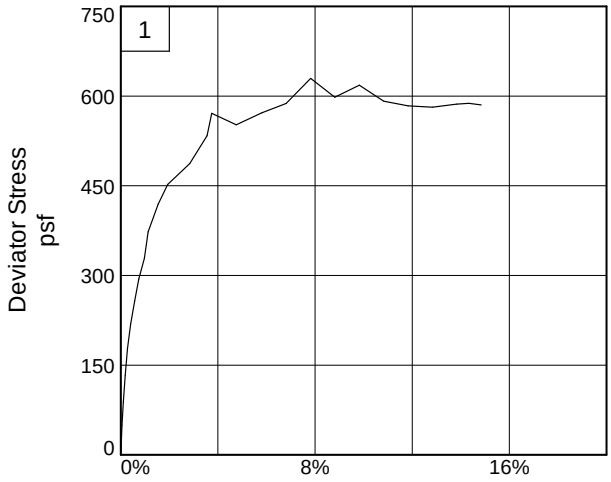
Project: Mobile River Bridge

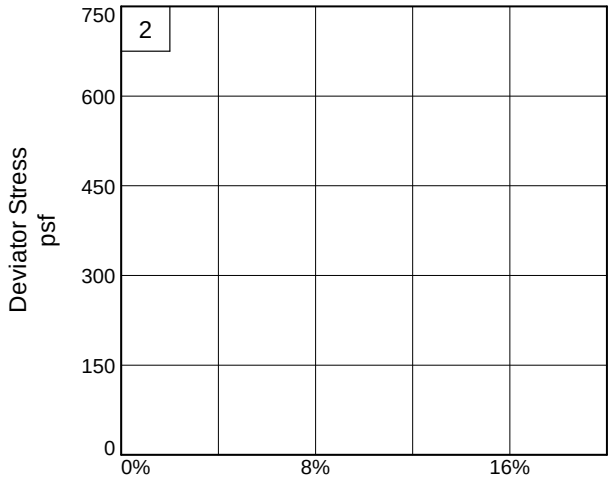
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5'

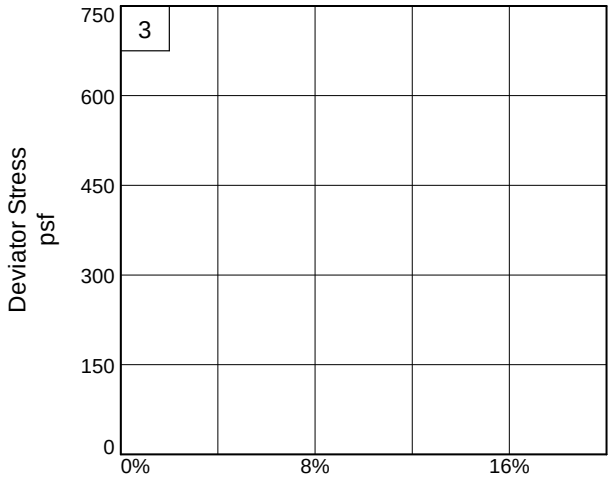
Sample Number: BW-27 T-1

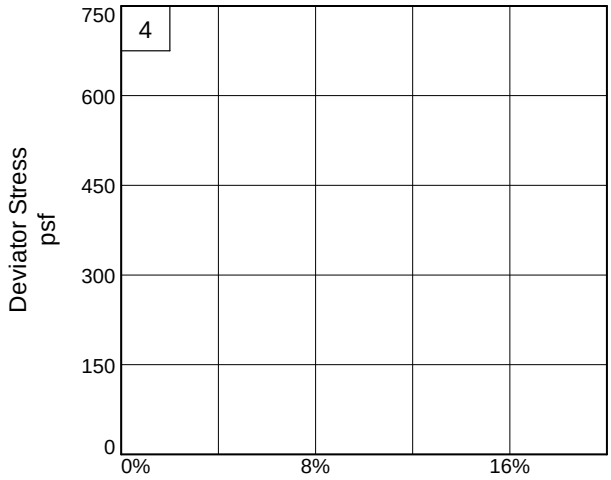
Proj. No.: 1511010228 **Date Sampled:**

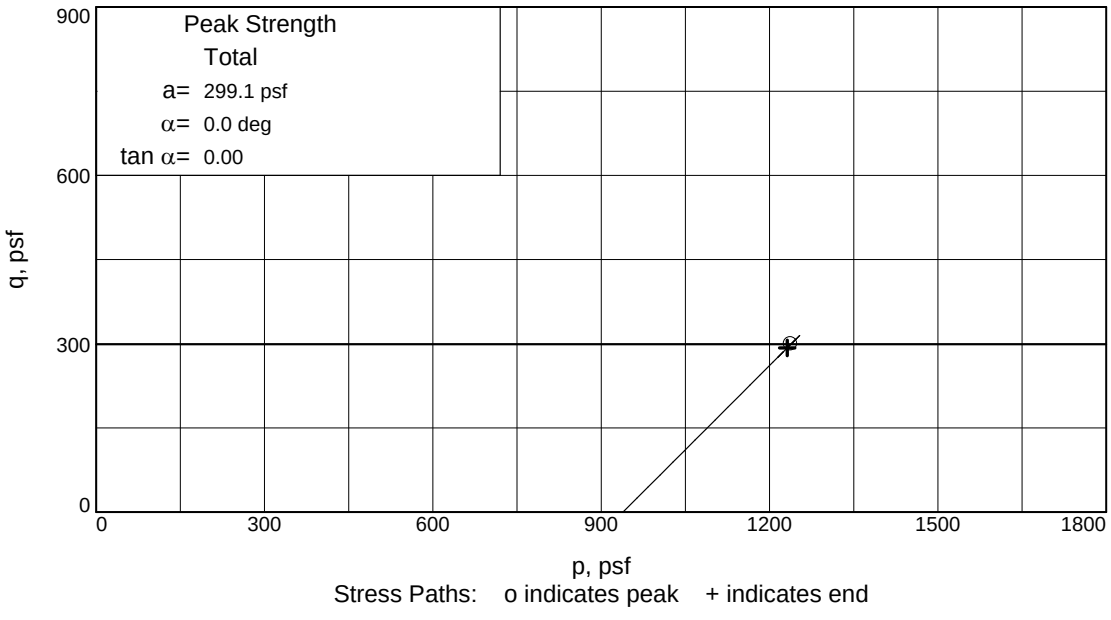
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Mobile, Alabama





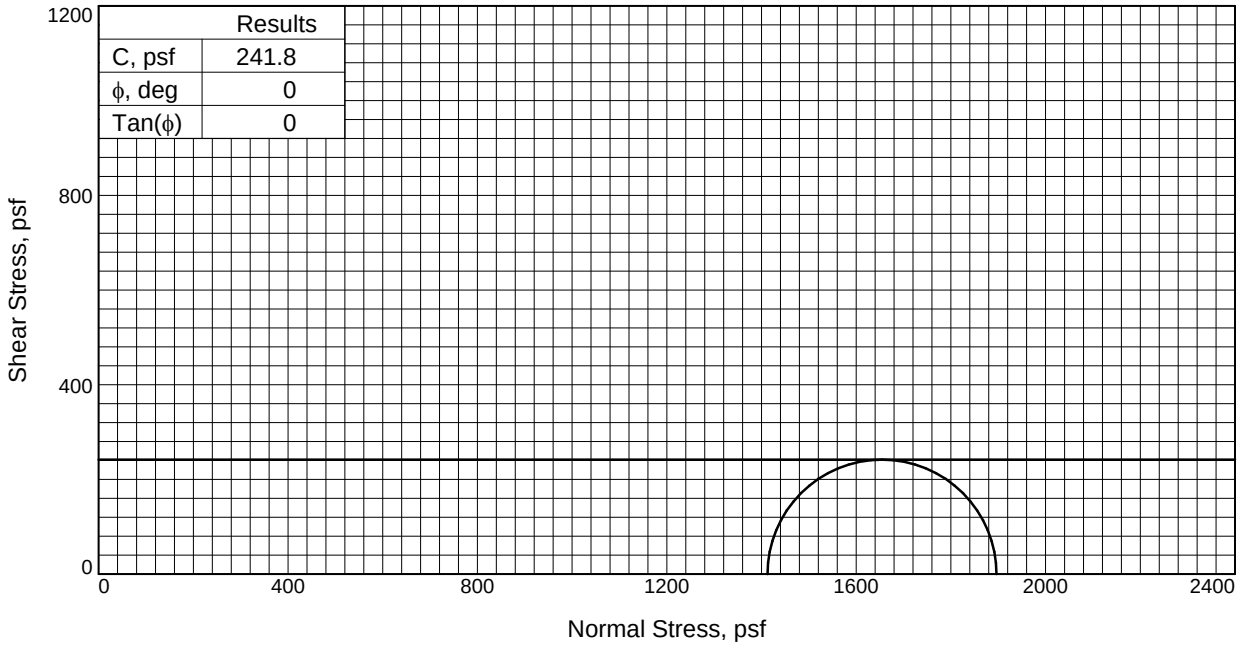


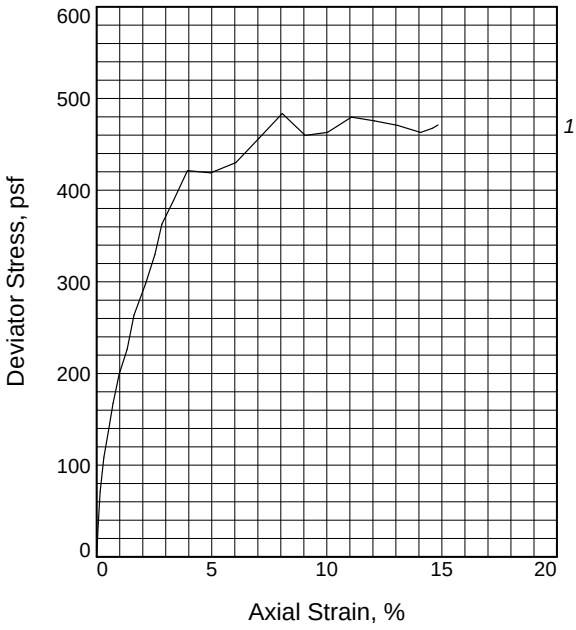




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5' **Sample Number:** BW-27 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	27.1
	Dry Density, pcf	96.5
	Saturation, %	100.0
	Void Ratio	0.7216
	Diameter, in.	2.839
	Height, in.	5.424
At Test	Water Content, %	29.4
	Dry Density, pcf	96.5
	Saturation, %	108.6
	Void Ratio	0.7216
	Diameter, in.	2.839
	Height, in.	5.424
Strain at peak, %		8.1
Back Pressure, psf		0.0
Cell Pressure, psf		1412.6
Fail. Stress, psf		483.6
Strain, %		8.1
Ult. Stress, psf		483.6
Strain, %		8.1
σ_1 Failure, psf		1896.3
σ_3 Failure, psf		1412.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-2-6(1))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

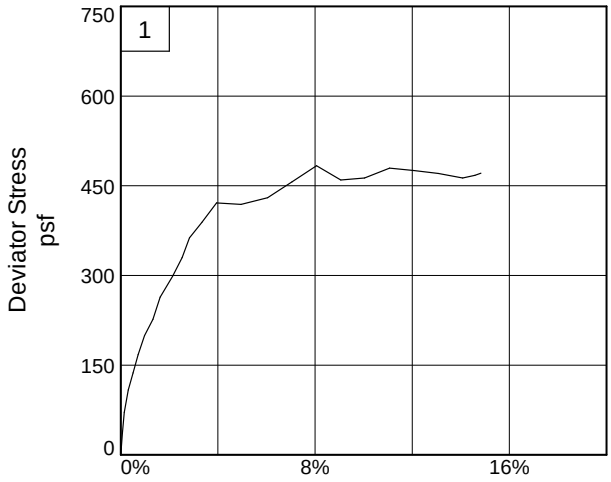
Project: Mobile River Bridge

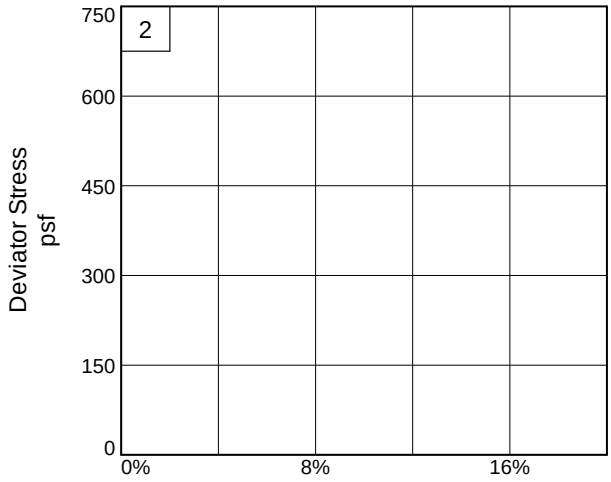
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5'

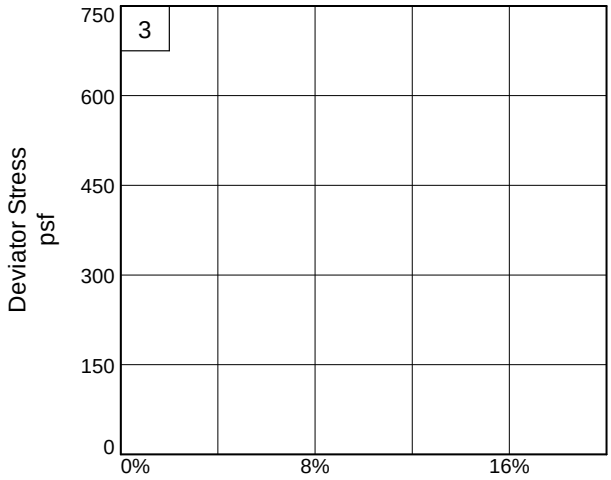
Sample Number: BW-27 T-2

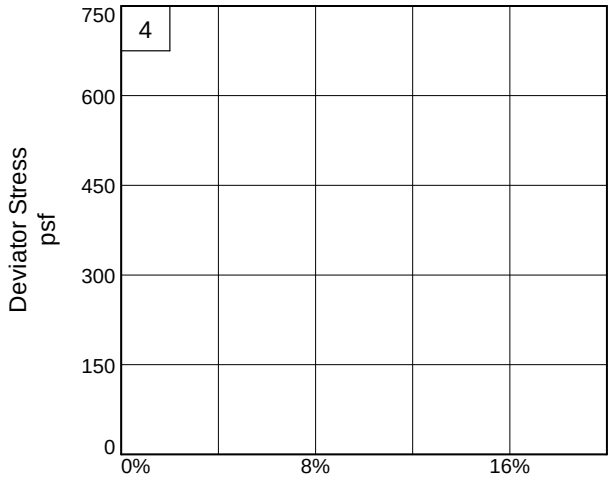
Proj. No.: 1511010228 **Date Sampled:**

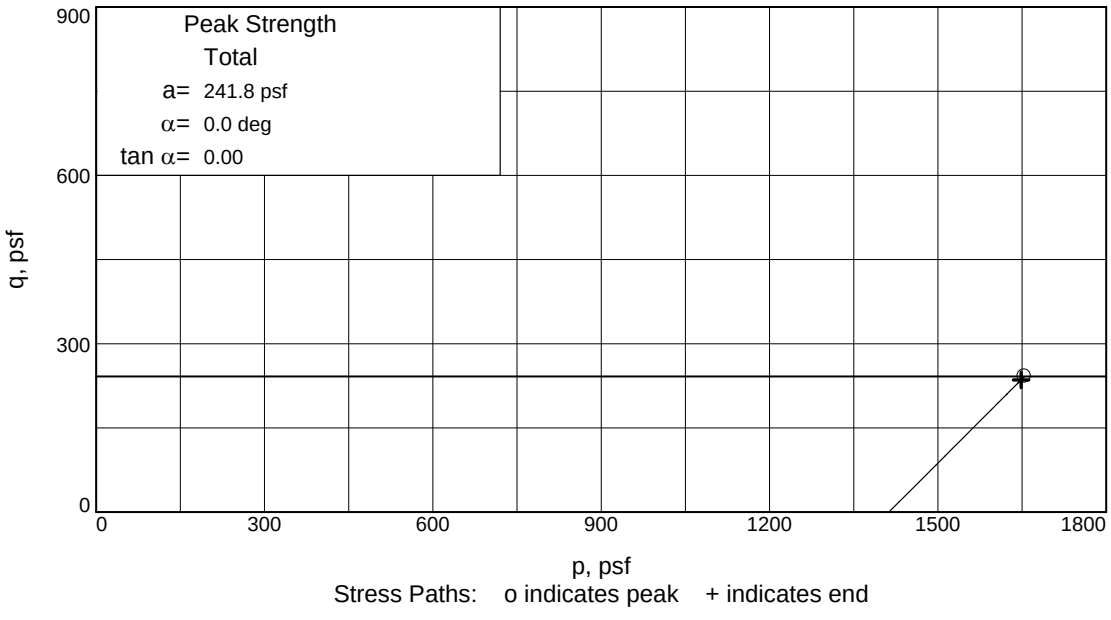
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Mobile, Alabama





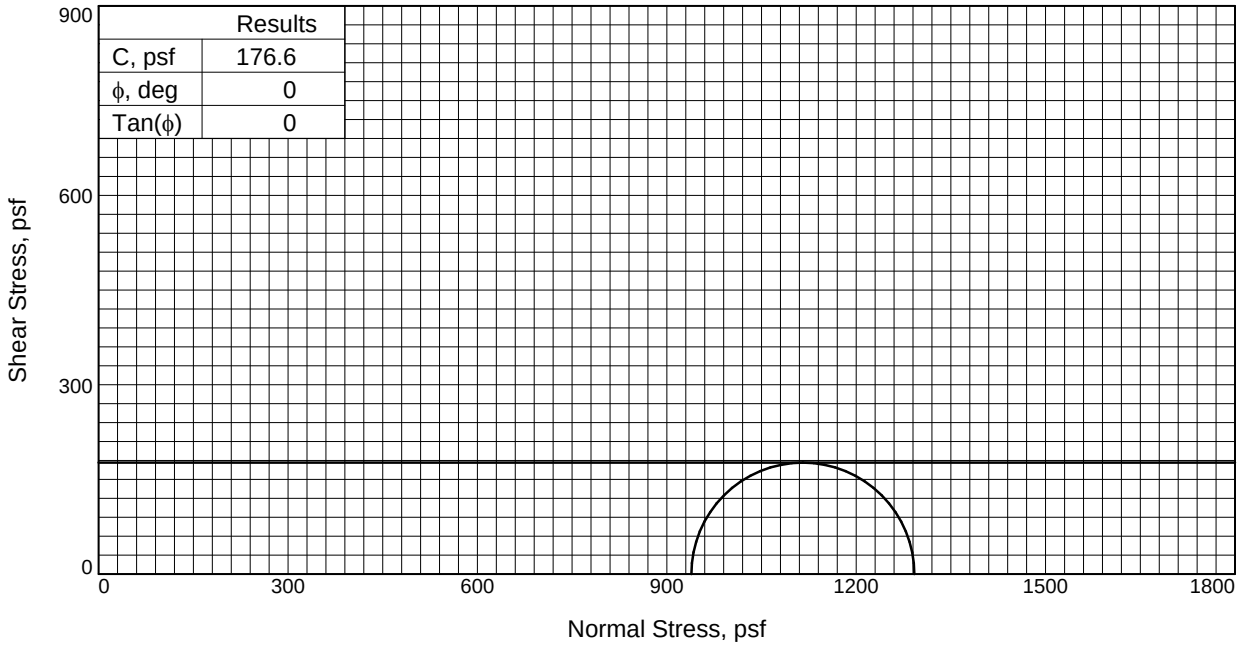


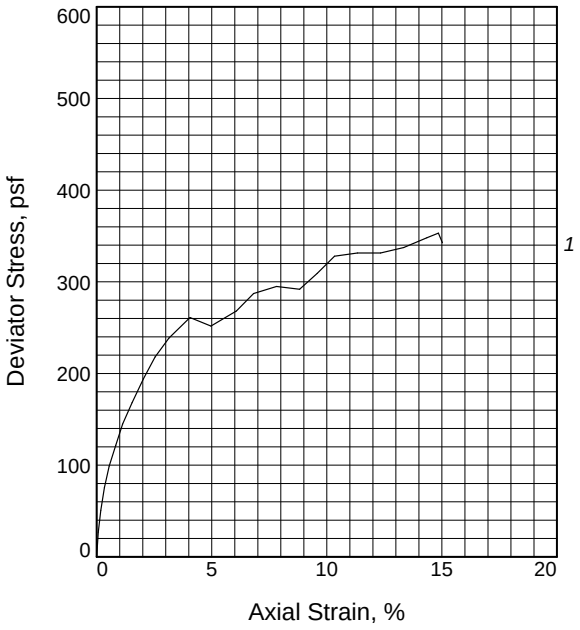




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5' **Sample Number:** BW-27 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	56.8
	Dry Density, pcf	66.9
	Saturation, %	101.8
	Void Ratio	1.4828
	Diameter, in.	2.695
	Height, in.	5.569
At Test	Water Content, %	48.5
	Dry Density, pcf	66.9
	Saturation, %	87.0
	Void Ratio	1.4828
	Diameter, in.	2.695
	Height, in.	5.569
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		938.9
Fail. Stress, psf		353.1
Strain, %		14.8
Ult. Stress, psf		353.1
Strain, %		14.8
σ_1 Failure, psf		1292.0
σ_3 Failure, psf		938.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(30))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

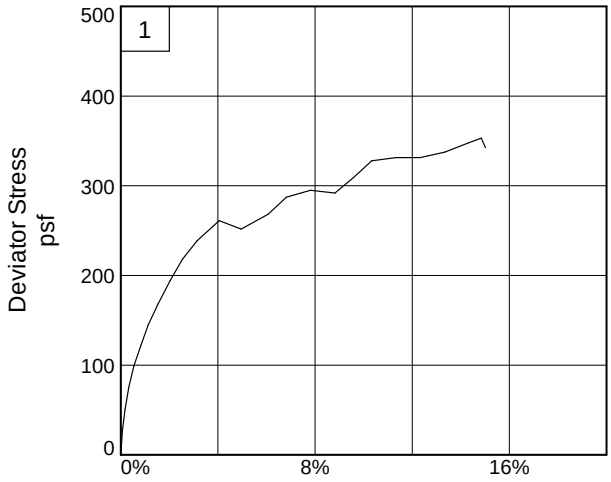
Project: Mobile River Bridge

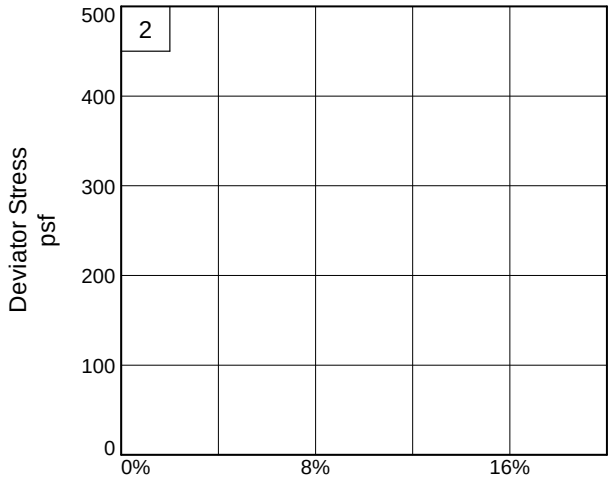
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5'

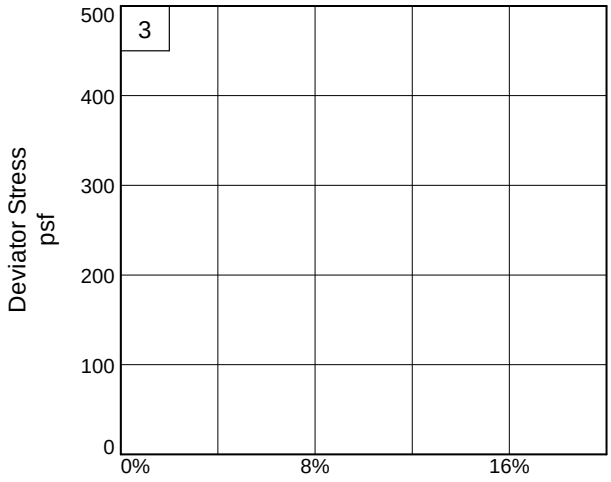
Sample Number: BW-28 T-1

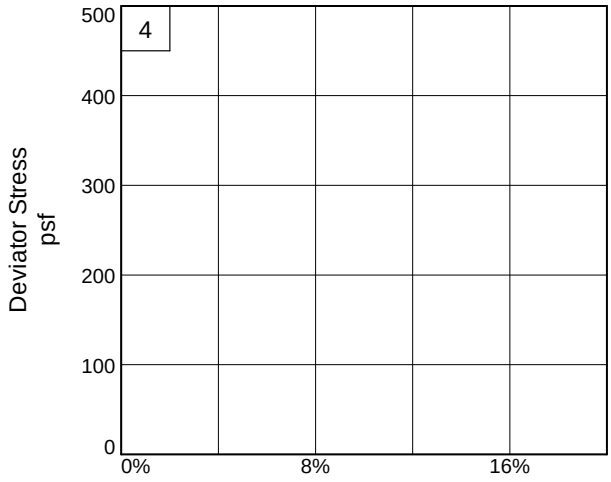
Proj. No.: 1511010228 **Date Sampled:**

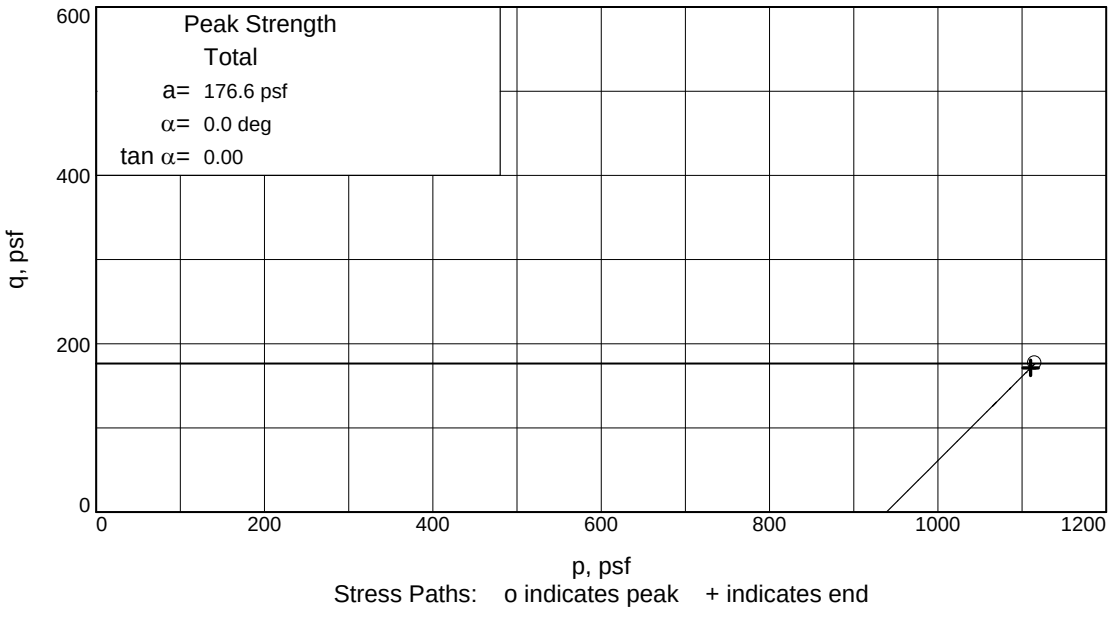
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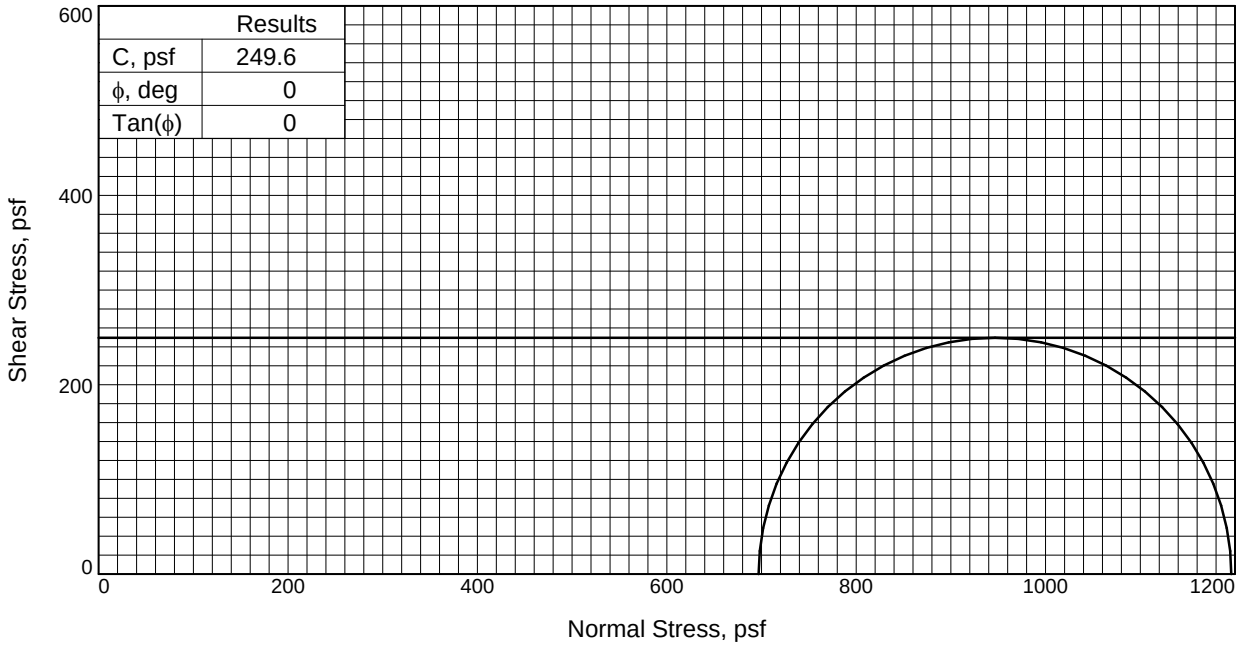


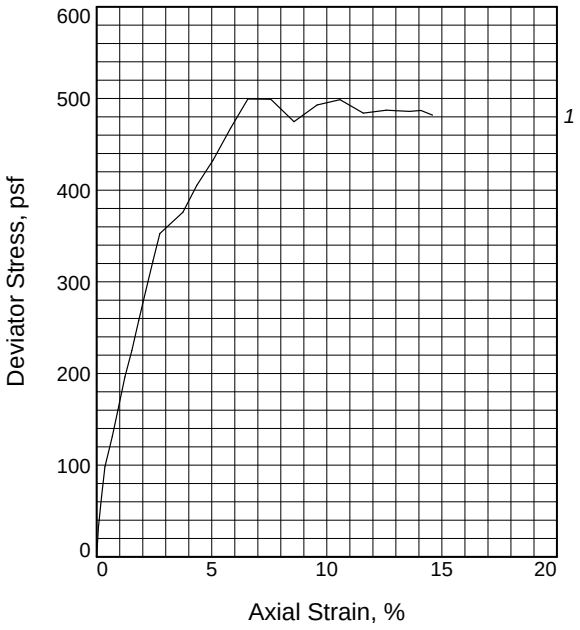




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5' **Sample Number:** BW-28 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	48.8
	Dry Density, pcf	73.9
	Saturation, %	108.3
	Void Ratio	1.1413
	Diameter, in.	2.796
	Height, in.	5.466
At Test	Water Content, %	50.3
	Dry Density, pcf	73.9
	Saturation, %	111.6
	Void Ratio	1.1413
	Diameter, in.	2.796
	Height, in.	5.466
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		697.0
Fail. Stress, psf		499.1
Strain, %		7.6
Ult. Stress, psf		499.1
Strain, %		7.6
σ_1 Failure, psf		1196.1
σ_3 Failure, psf		697.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(19))

Specific Gravity= 2.534

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

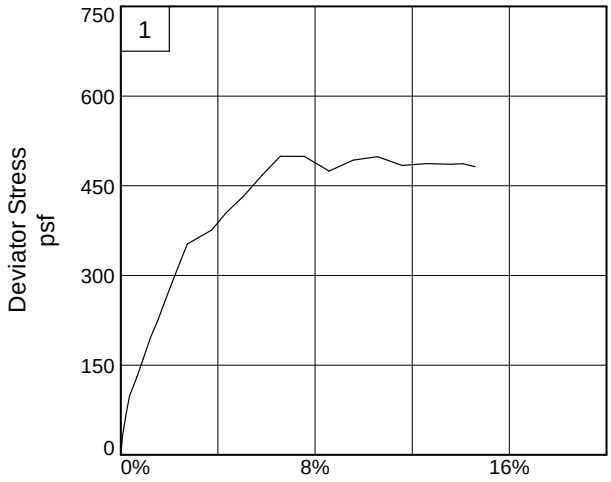
Project: Mobile River Bridge

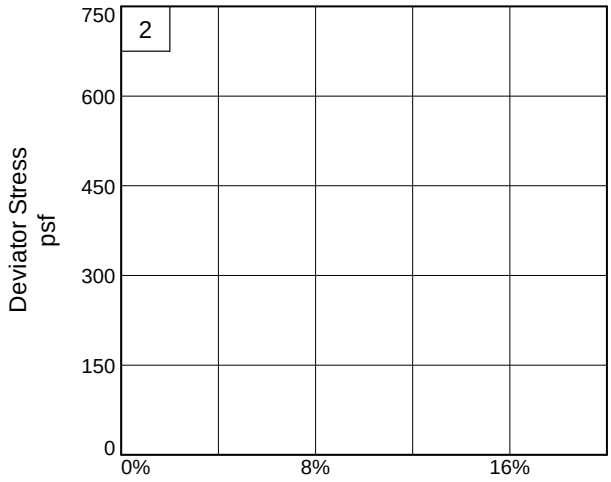
Source of Sample: Lab #7837 **Depth:** 13.5'-15.5'

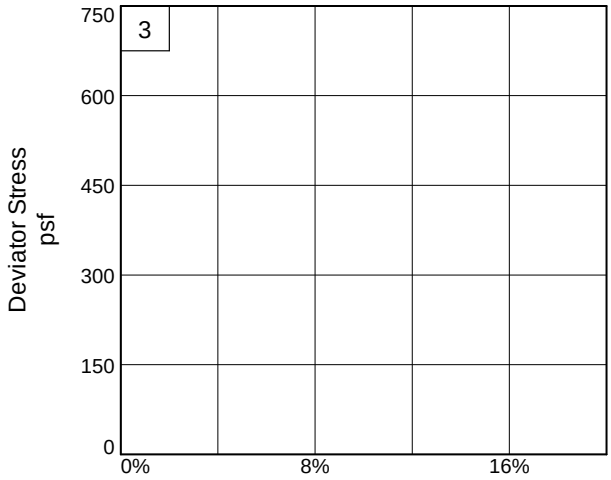
Sample Number: BW-29 T-1

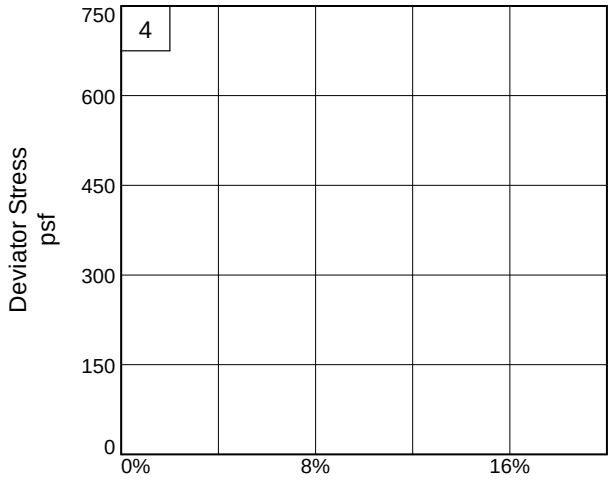
Proj. No.: 1511010228 **Date Sampled:**

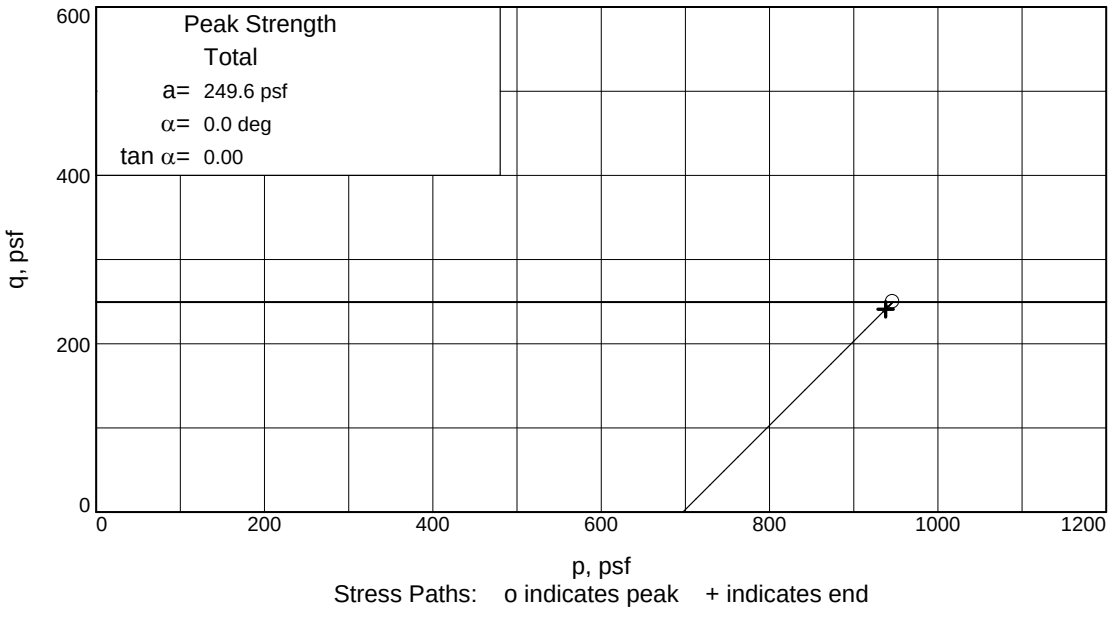
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Mobile, Alabama





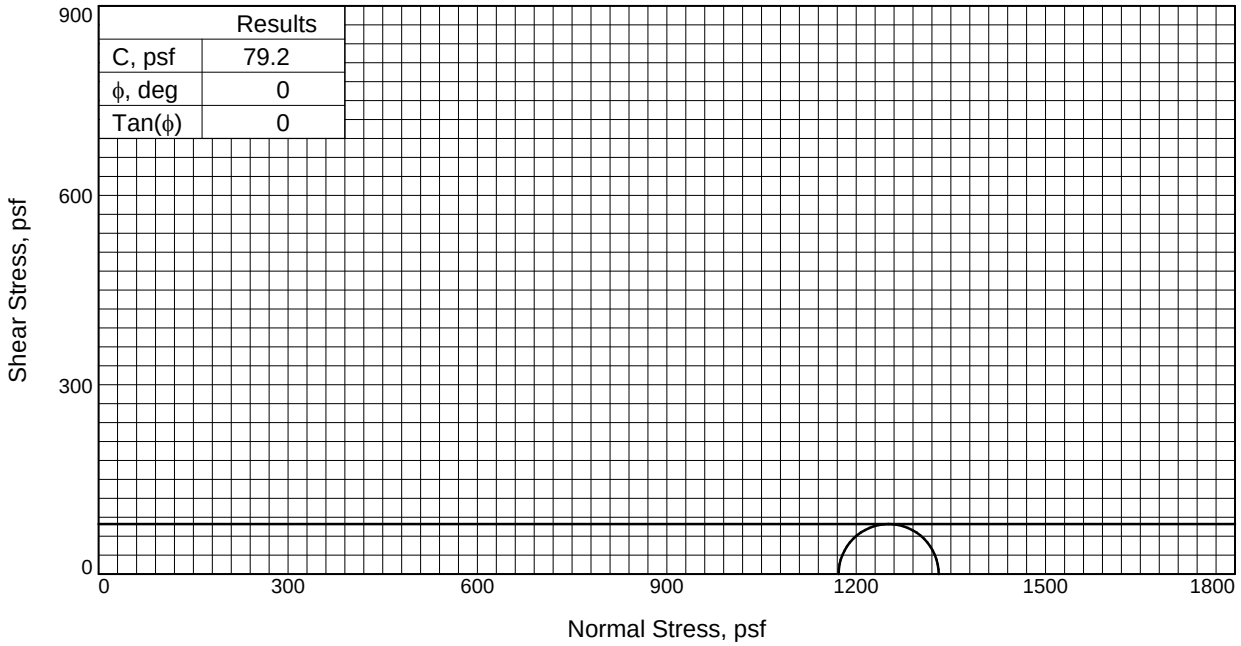


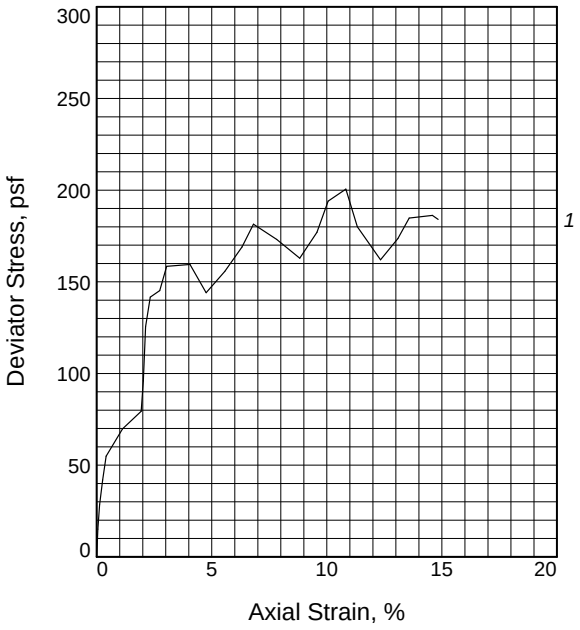




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 13.5'-15.5' **Sample Number:** BW-29 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	65.9
	Dry Density, pcf	62.8
	Saturation, %	106.6
	Void Ratio	1.6451
	Diameter, in.	2.778
	Height, in.	5.406
At Test	Water Content, %	68.7
	Dry Density, pcf	62.8
	Saturation, %	111.0
	Void Ratio	1.6451
	Diameter, in.	2.778
	Height, in.	5.406
Strain at peak, %		3.0
Back Pressure, psf		0.0
Cell Pressure, psf		1172.2
Fail. Stress, psf		158.5
Strain, %		3.0
Ult. Stress, psf		158.5
Strain, %		3.0
σ_1 Failure, psf		1330.6
σ_3 Failure, psf		1172.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(59))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

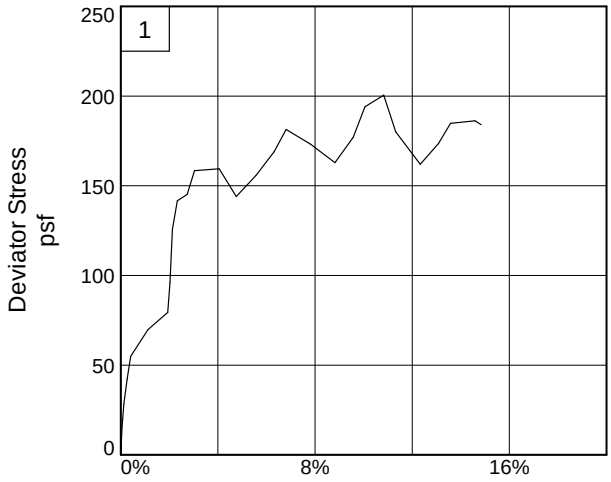
Project: Mobile River Bridge

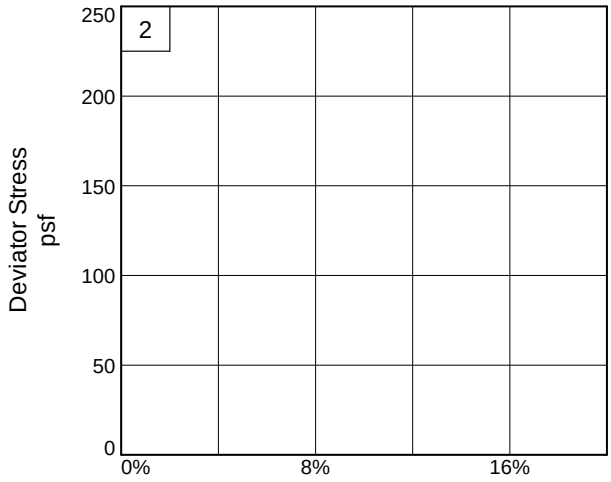
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5'

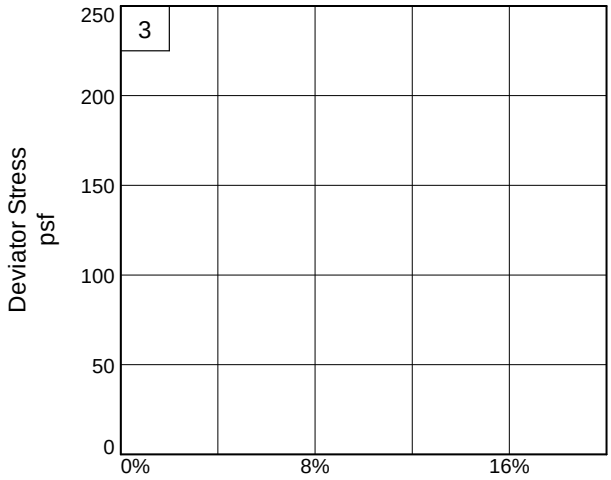
Sample Number: BW-29 T-2

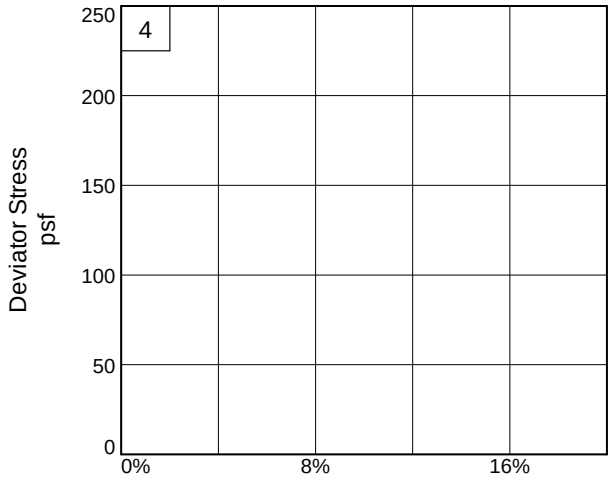
Proj. No.: 1511010228 **Date Sampled:**

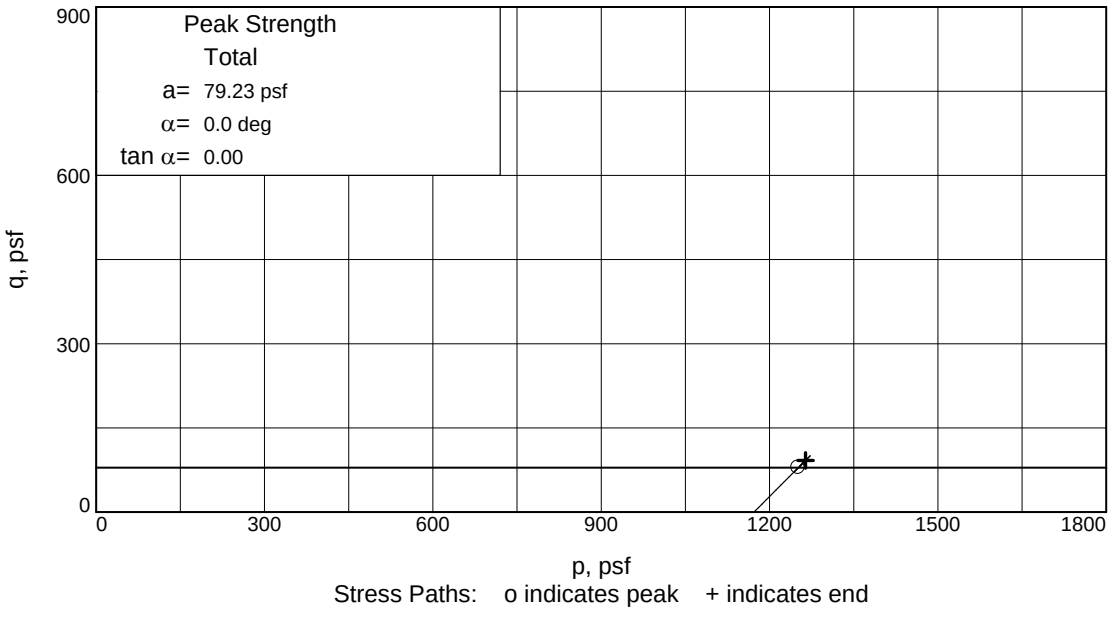
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Mobile, Alabama





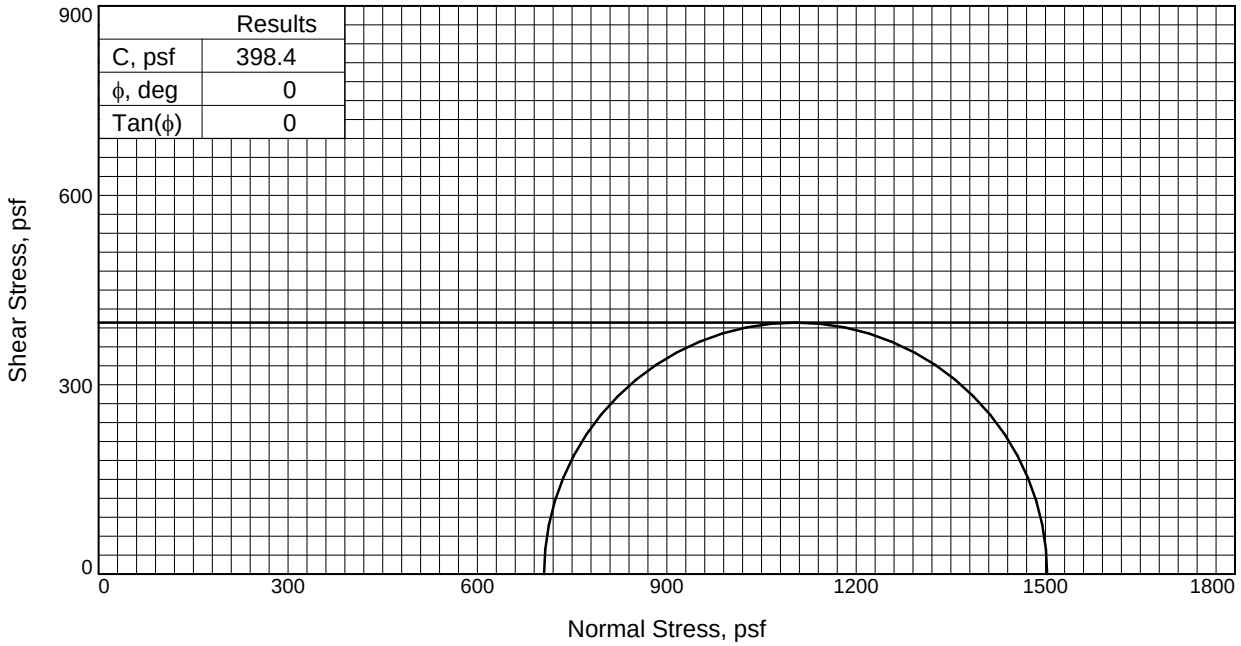


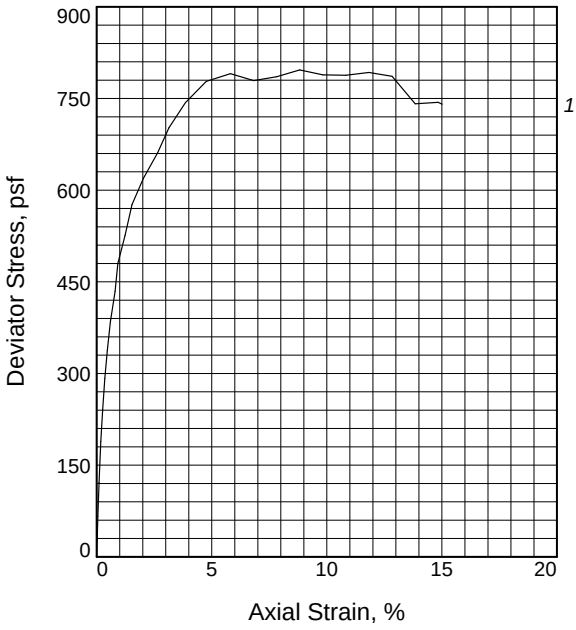




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5' **Sample Number:** BW-29 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	49.8
	Dry Density, pcf	72.4
	Saturation, %	102.2
	Void Ratio	1.2950
	Diameter, in.	2.760
	Height, in.	5.590
At Test	Water Content, %	55.7
	Dry Density, pcf	72.4
	Saturation, %	114.4
	Void Ratio	1.2950
	Diameter, in.	2.760
	Height, in.	5.590
Strain at peak, %		8.8
Back Pressure, psf		0.0
Cell Pressure, psf		705.6
Fail. Stress, psf		796.8
Strain, %		8.8
Ult. Stress, psf		796.8
Strain, %		8.8
σ_1 Failure, psf		1502.4
σ_3 Failure, psf		705.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(48))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

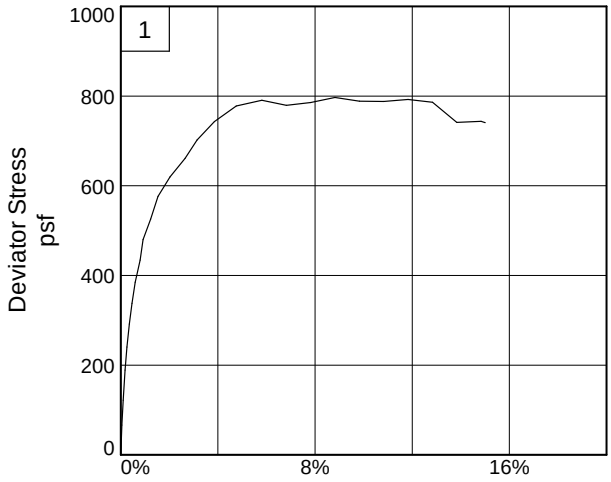
Project: Mobile River Bridge

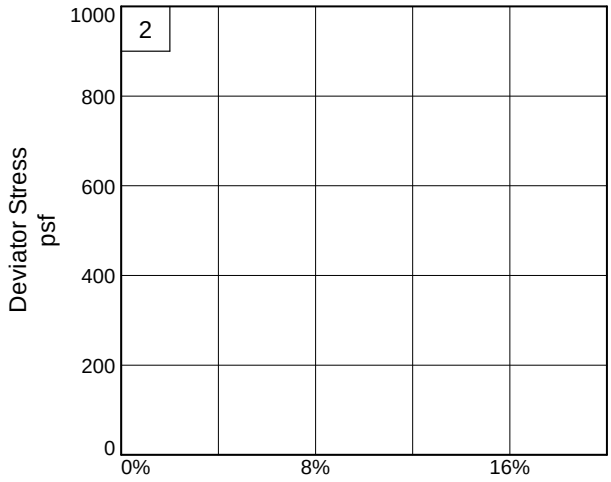
Source of Sample: Lab #7837 **Depth:** 13.0'-15.0'

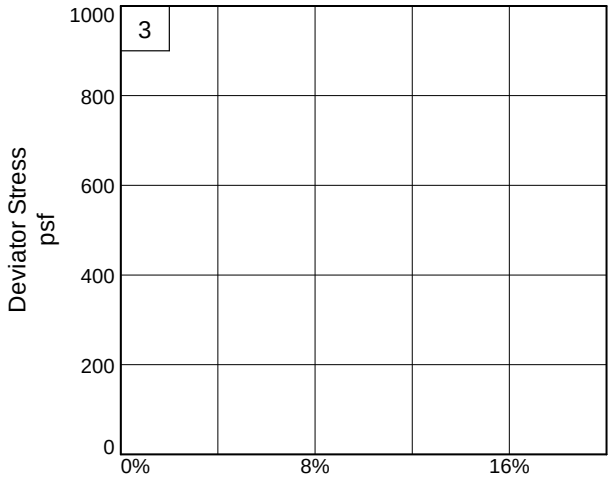
Sample Number: BW-30 T-1

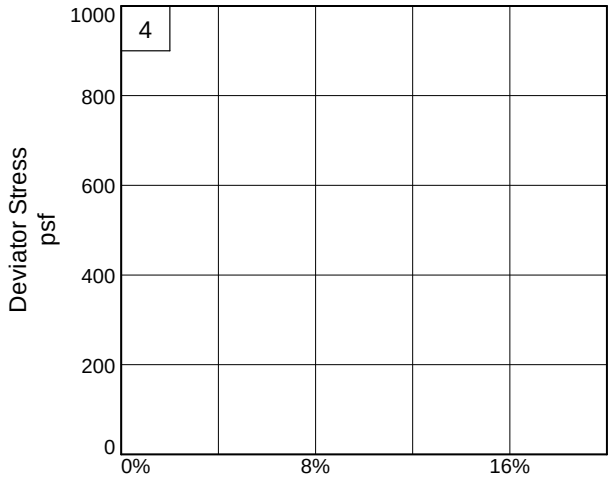
Proj. No.: 1511010228 **Date Sampled:**

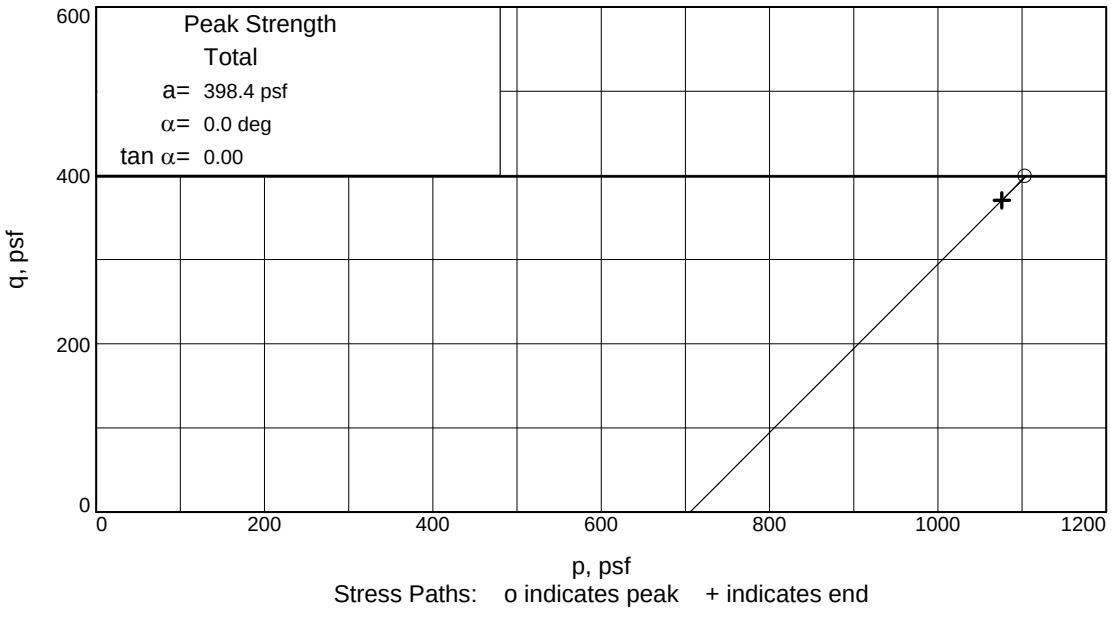
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Mobile, Alabama





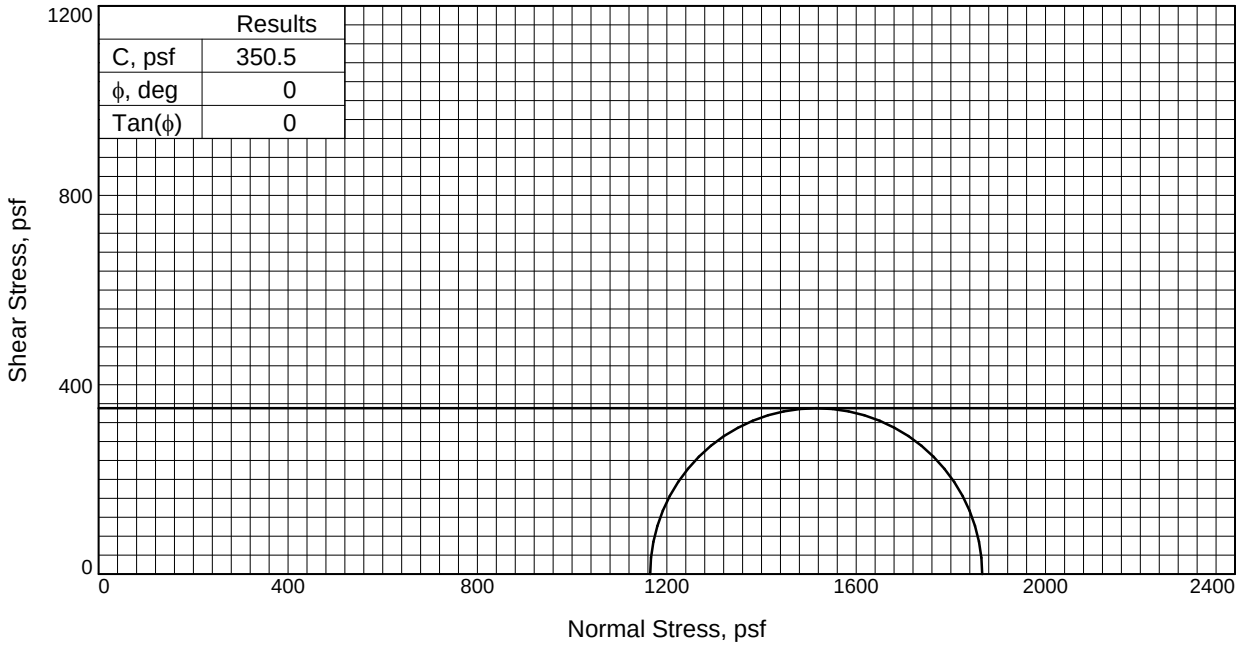


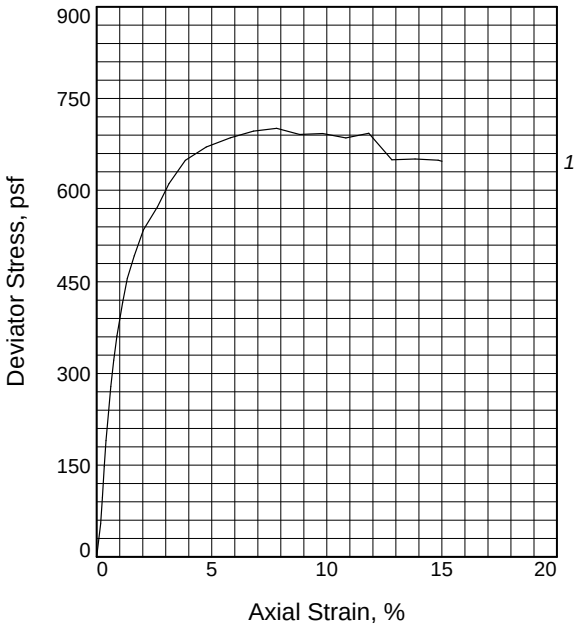




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 13.0'-15.0' **Sample Number:** BW-30 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	56.4
	Dry Density, pcf	67.1
	Saturation, %	101.8
	Void Ratio	1.4750
	Diameter, in.	2.806
	Height, in.	5.665
At Test	Water Content, %	60.7
	Dry Density, pcf	67.1
	Saturation, %	109.4
	Void Ratio	1.4750
	Diameter, in.	2.806
	Height, in.	5.665
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		1165.0
Fail. Stress, psf		701.1
Strain, %		7.8
Ult. Stress, psf		701.1
Strain, %		7.8
σ_1 Failure, psf		1866.0
σ_3 Failure, psf		1165.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(76))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

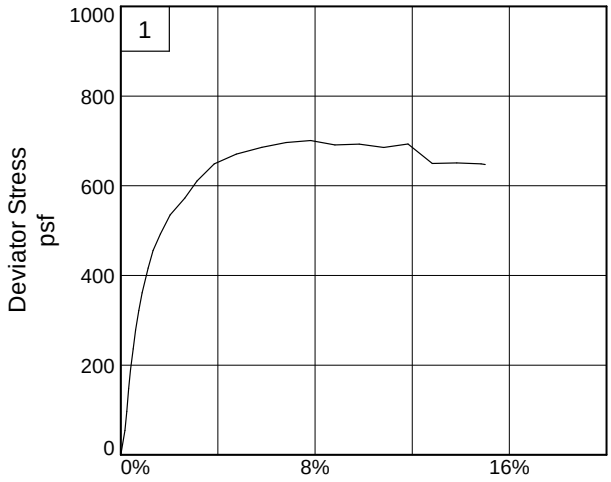
Project: Mobile River Bridge

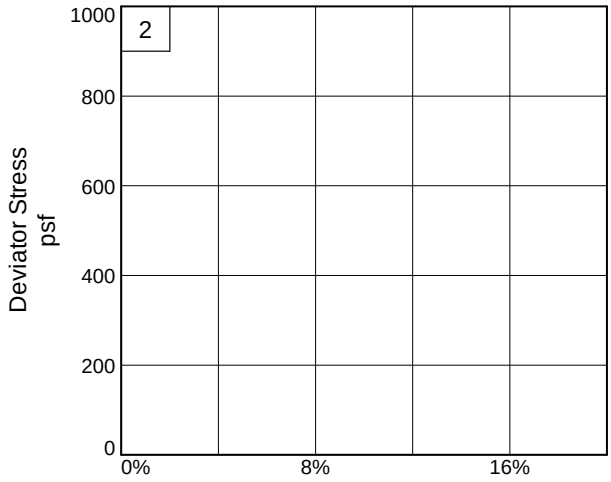
Source of Sample: Lab #7837 **Depth:** 23.0'-25.0'

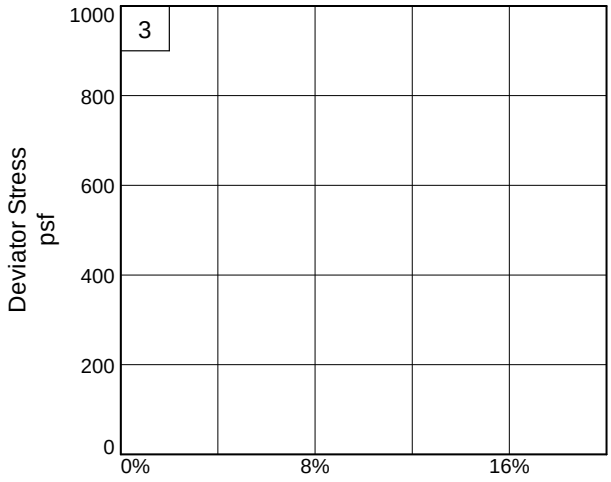
Sample Number: BW-30 T-2

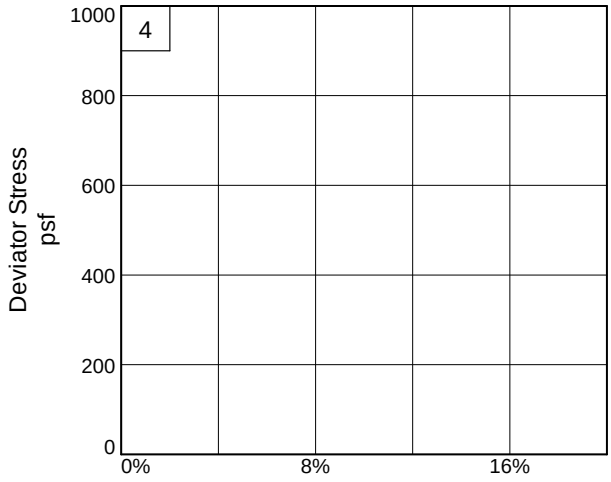
Proj. No.: 1511010228 **Date Sampled:**

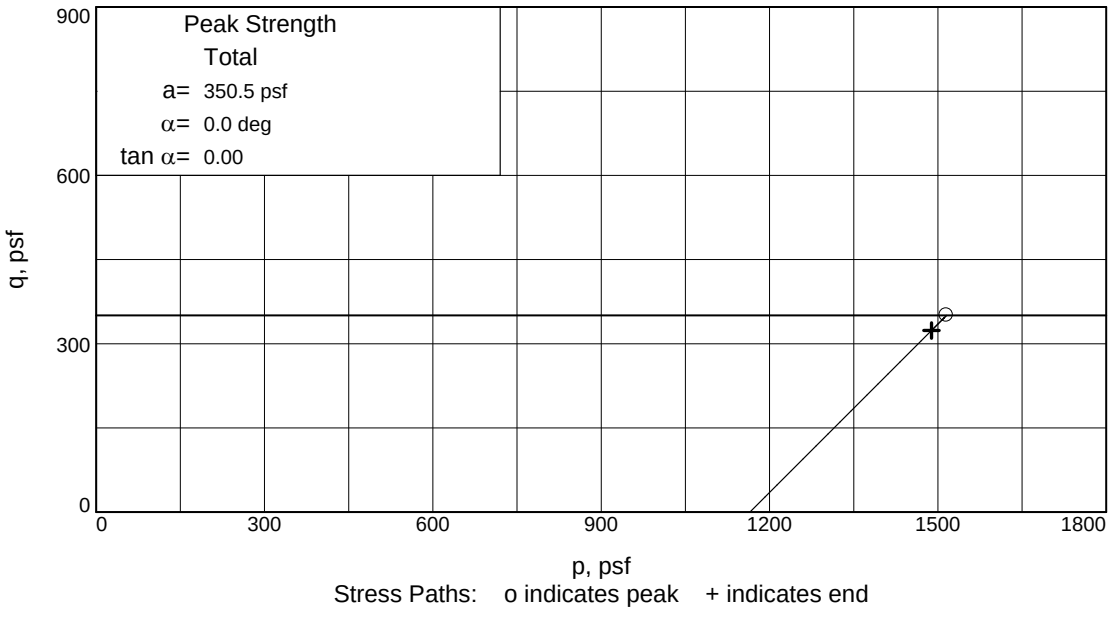
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Thompson Engineering
Mobile, Alabama











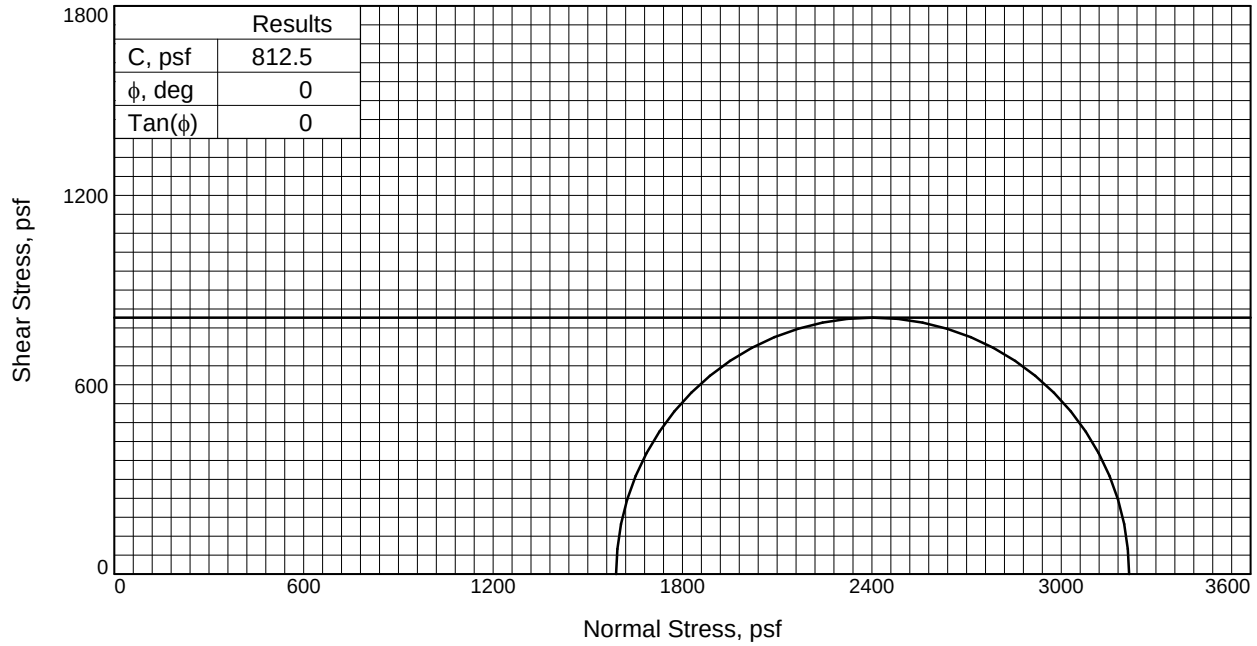
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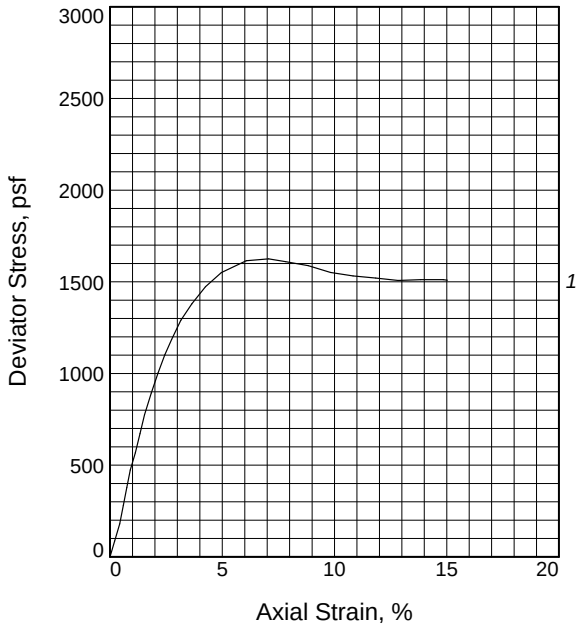
Project: Mobile River Bridge

Source of Sample: Lab #7837 **Depth:** 23.0'-25.0' **Sample Number:** BW-30 T-2

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	75.8
	Dry Density, pcf	54.3
	Saturation, %	97.6
	Void Ratio	2.0899
	Diameter, in.	2.808
	Height, in.	5.531
At Test	Water Content, %	78.0
	Dry Density, pcf	54.3
	Saturation, %	100.4
	Void Ratio	2.0899
	Diameter, in.	2.808
	Height, in.	5.531
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		1589.8
Fail. Stress, psf		1625.1
Strain, %		7.1
Ult. Stress, psf		1625.1
Strain, %		7.1
σ_1 Failure, psf		3214.8
σ_3 Failure, psf		1589.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(26))

Specific Gravity= 2.689

Remarks: Compression Failure Mode: Internal Conical

Figure _____

Client: ALDOT

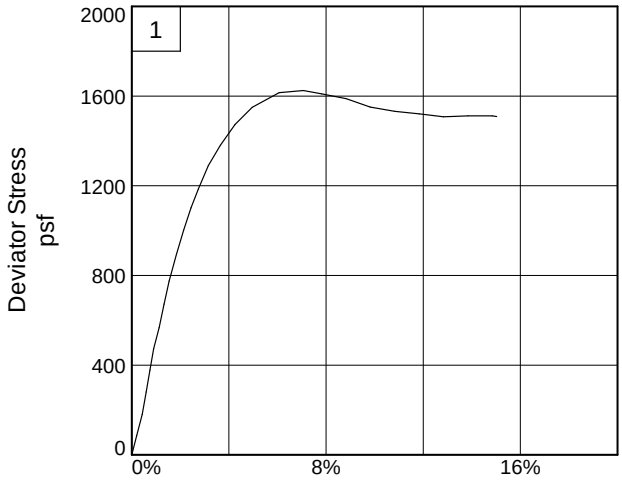
Project: Mobile River Bridge

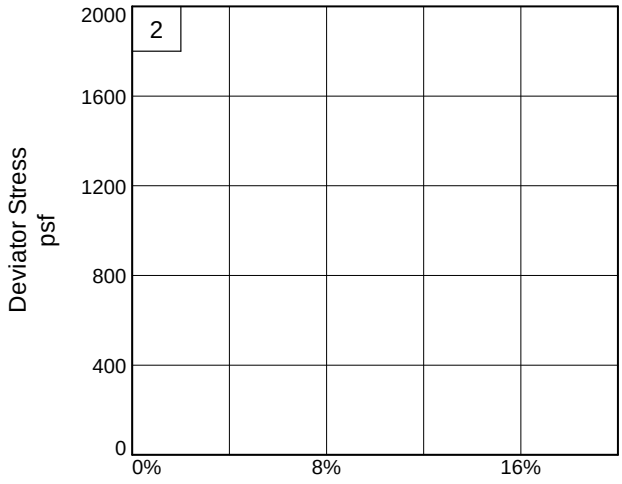
Source of Sample: Lab #7837 **Depth:** 33.0'-35.0'

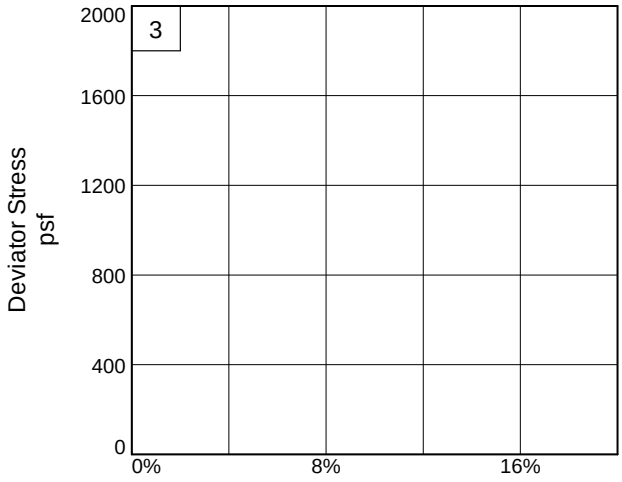
Sample Number: BW-30 T-3

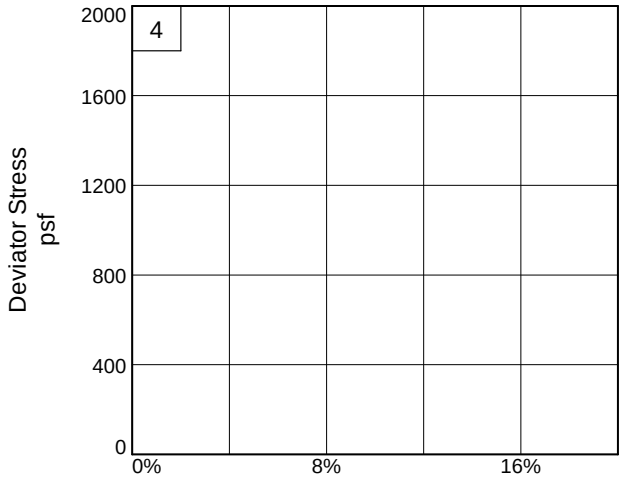
Proj. No.: 1511010228 **Date Sampled:**

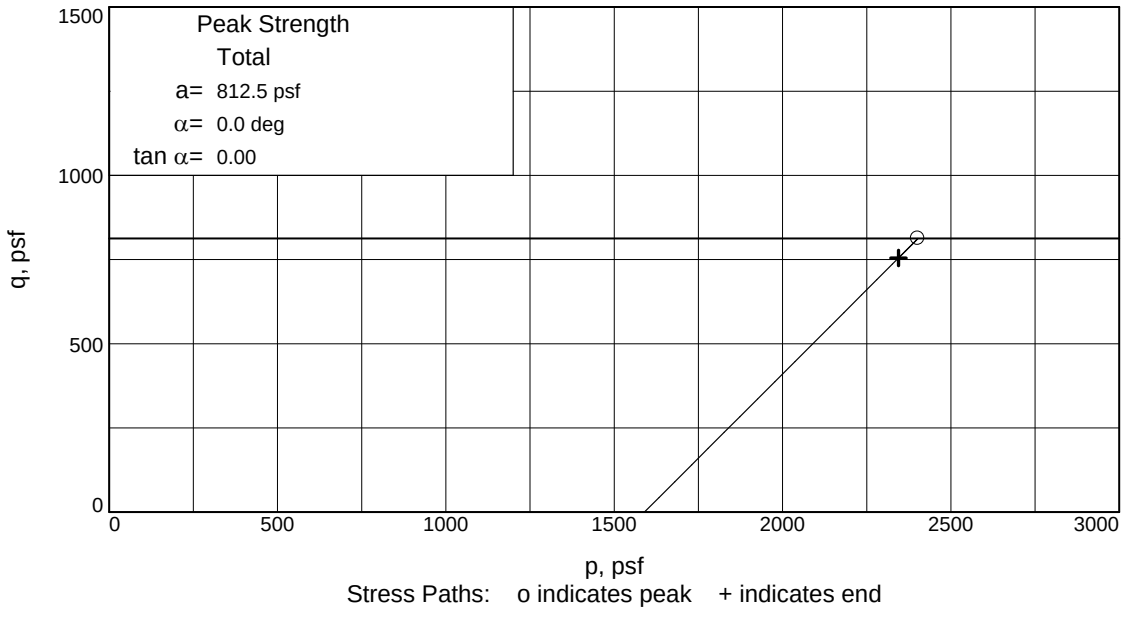
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Stress Paths: o indicates peak + indicates end

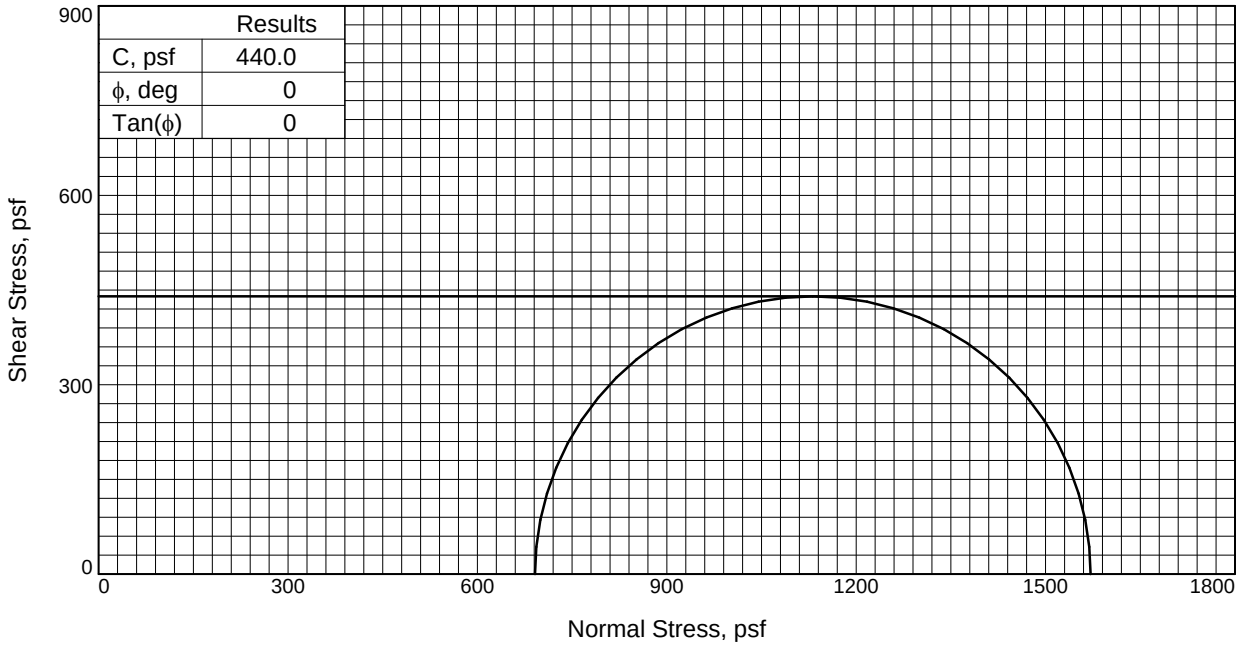
Client: ALDOT

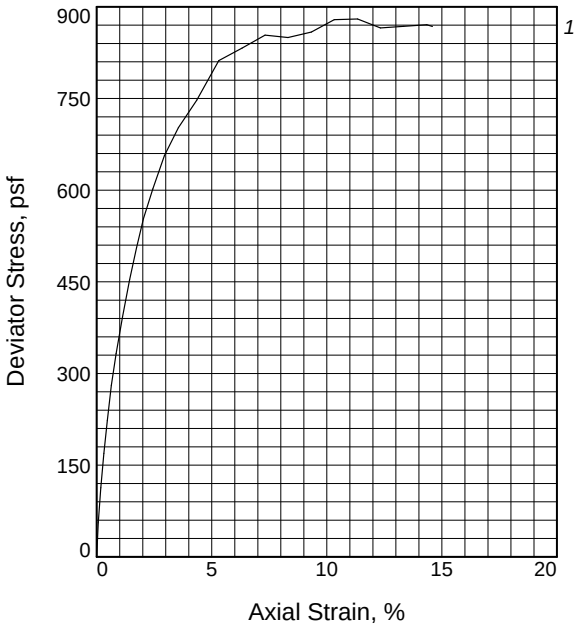
Project: Mobile River Bridge

Source of Sample: Lab #7837 **Depth:** 33.0'-35.0' **Sample Number:** BW-30 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	46.7
	Dry Density, pcf	76.7
	Saturation, %	106.7
	Void Ratio	1.1648
	Diameter, in.	2.798
	Height, in.	5.564
At Test	Water Content, %	43.7
	Dry Density, pcf	76.7
	Saturation, %	99.7
	Void Ratio	1.1648
	Diameter, in.	2.798
	Height, in.	5.564
Strain at peak, %		11.3
Back Pressure, psf		0.0
Cell Pressure, psf		691.2
Fail. Stress, psf		880.1
Strain, %		11.3
Ult. Stress, psf		880.1
Strain, %		11.3
σ_1 Failure, psf		1571.3
σ_3 Failure, psf		691.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(32))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

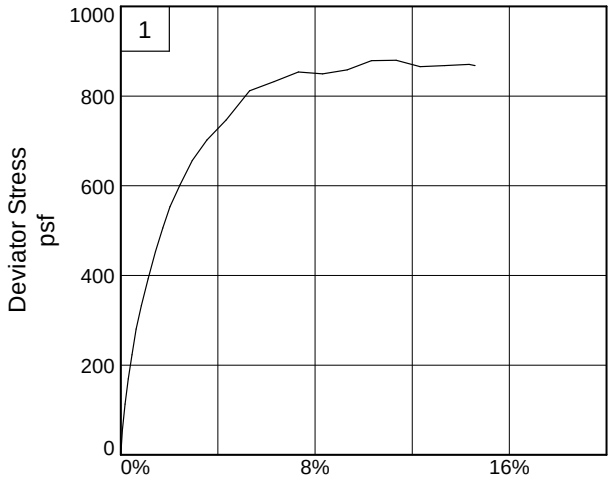
Project: Mobile River Bridge

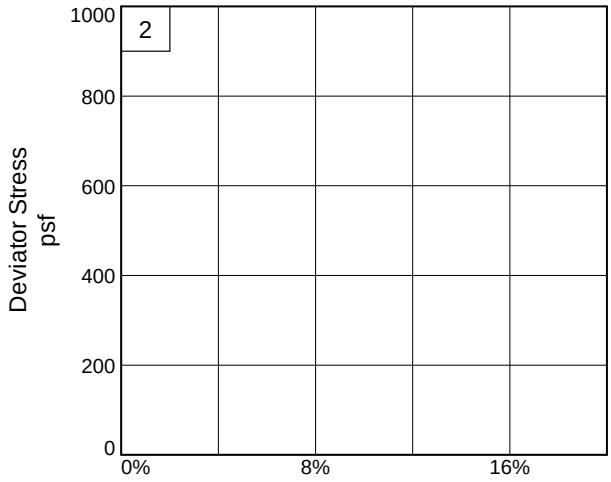
Source of Sample: Lab #7837 **Depth:** 13.5'-15.5'

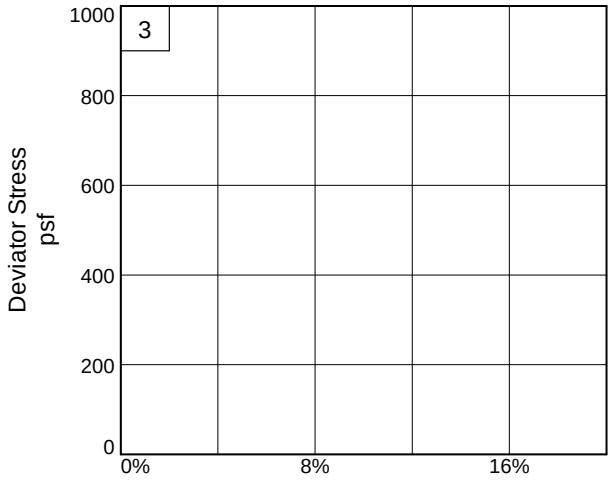
Sample Number: BW-31 T-1

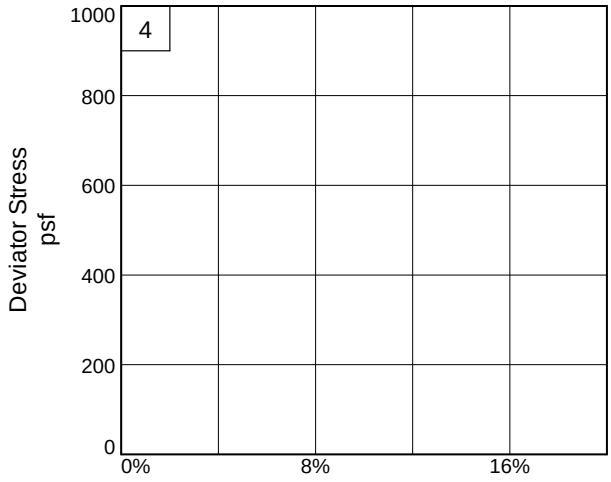
Proj. No.: 1511010228 **Date Sampled:**

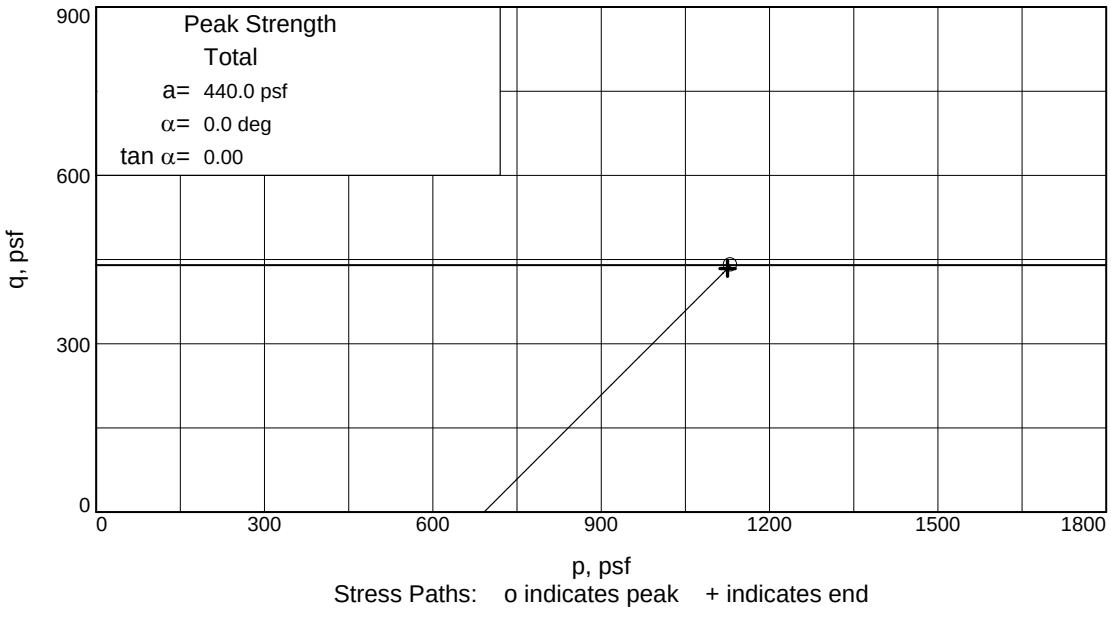
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Mobile, Alabama





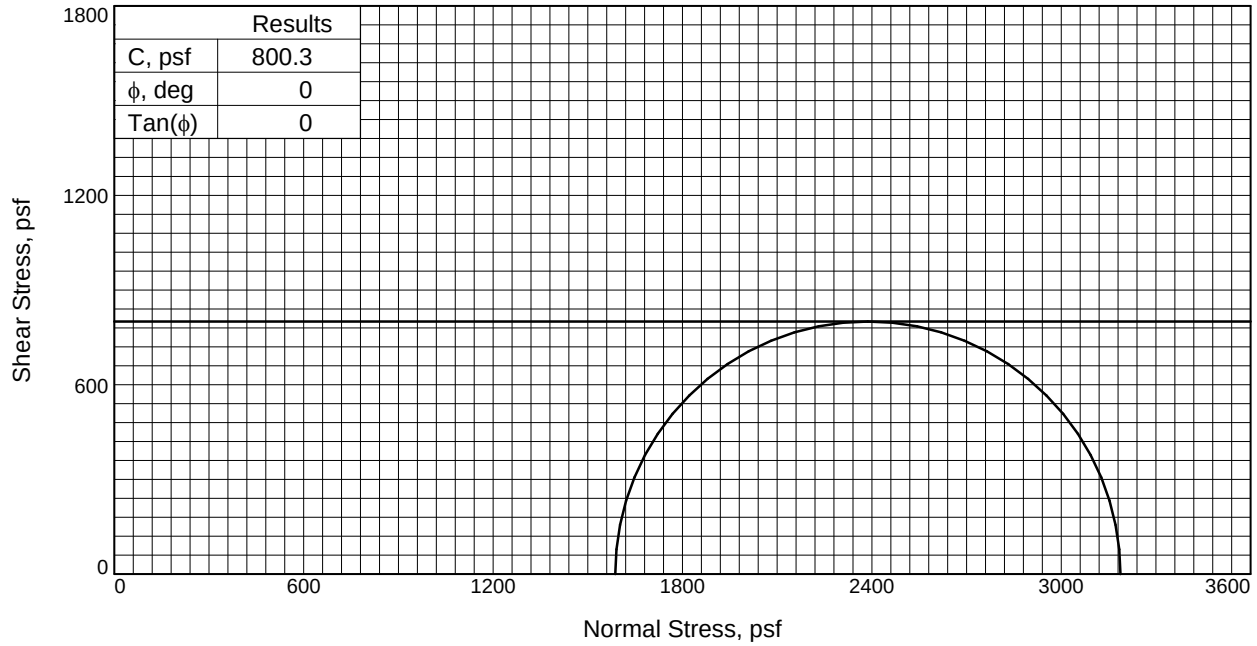


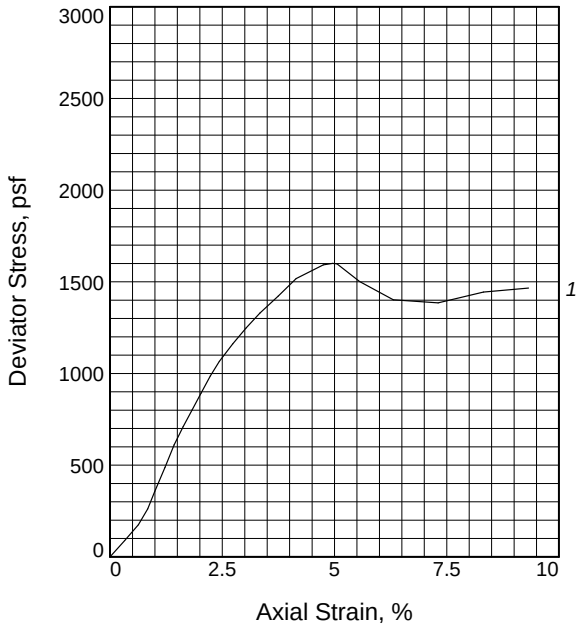




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 13.5'-15.5' **Sample Number:** BW-31 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	145.1
	Dry Density, pcf	30.5
	Saturation, %	86.8
	Void Ratio	4.4452
	Diameter, in.	2.814
	Height, in.	5.446
At Test	Water Content, %	185.4
	Dry Density, pcf	30.5
	Saturation, %	110.9
	Void Ratio	4.4452
	Diameter, in.	2.814
	Height, in.	5.446
Strain at peak, %		5.0
Back Pressure, psf		0.0
Cell Pressure, psf		1586.9
Fail. Stress, psf		1600.6
Strain, %		5.0
Ult. Stress, psf		1600.6
Strain, %		5.0
σ_1 Failure, psf		3187.5
σ_3 Failure, psf		1586.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

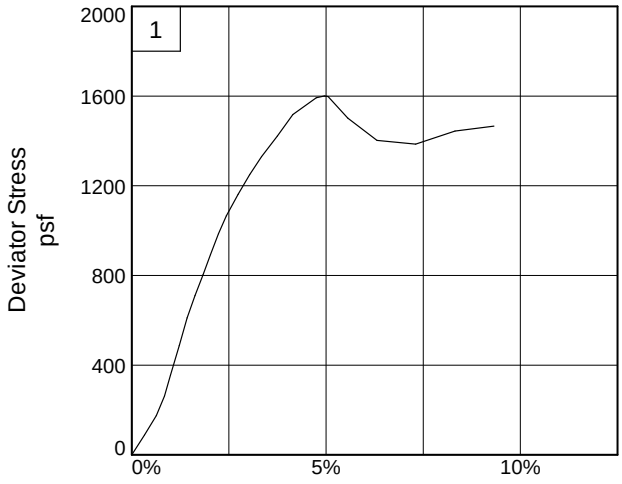
Project: Mobile River Bridge

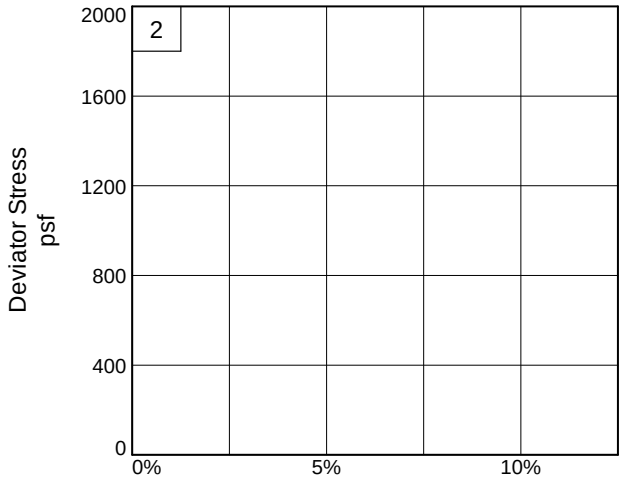
Source of Sample: Lab #7837 **Depth:** 33.5'-35.5'

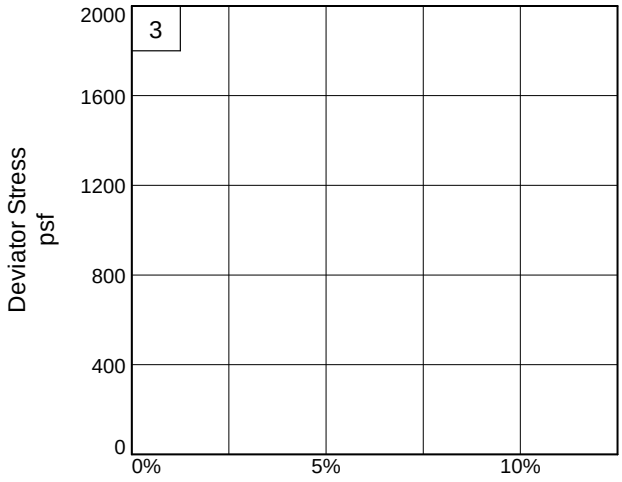
Sample Number: BW-31 T-3

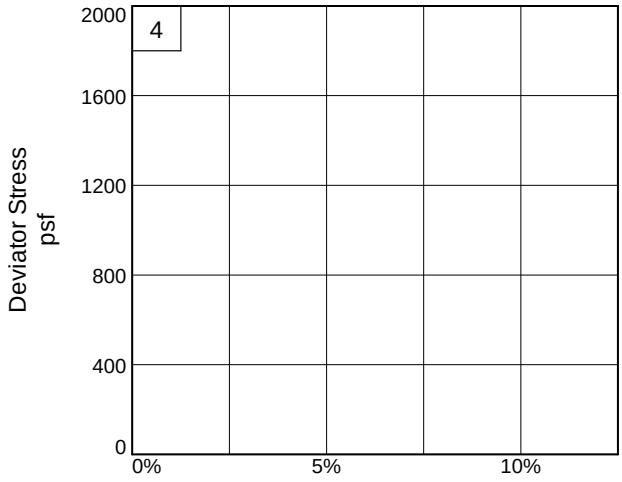
Proj. No.: 1511010228 **Date Sampled:**

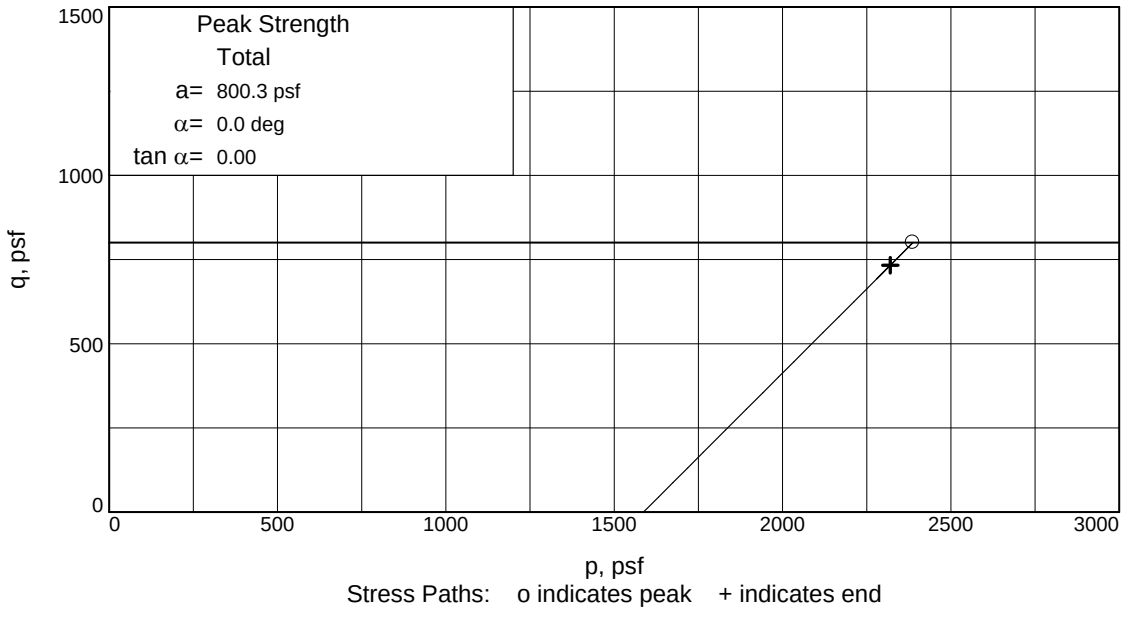
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Mobile, Alabama







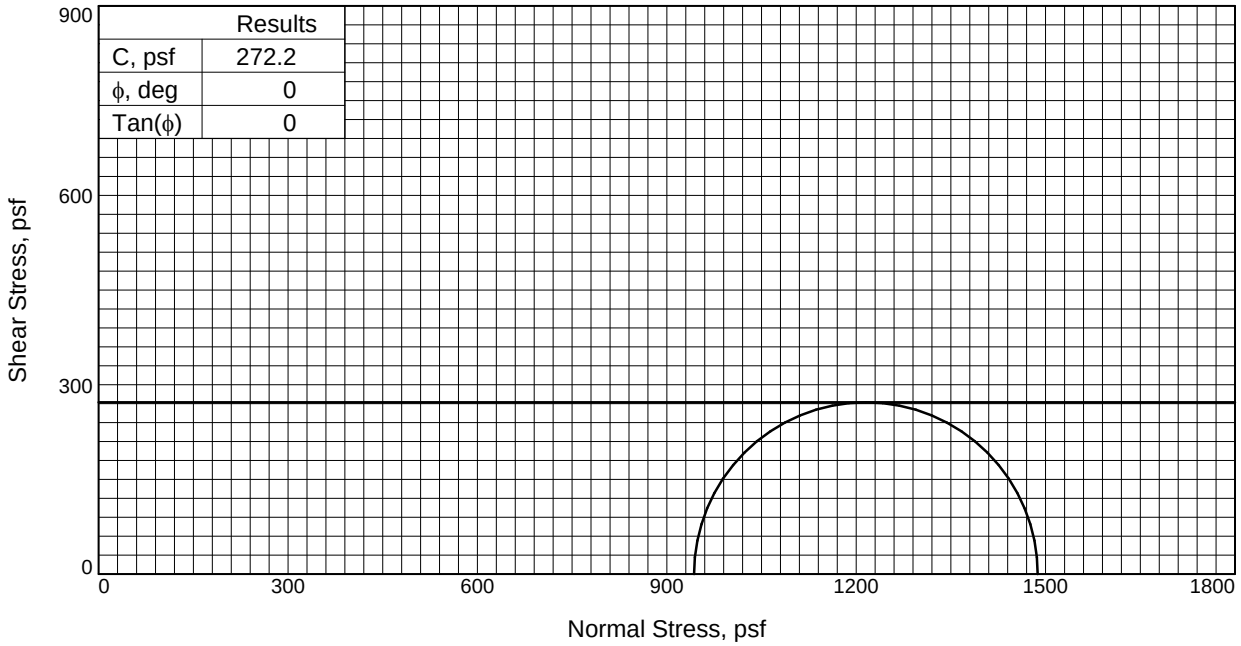


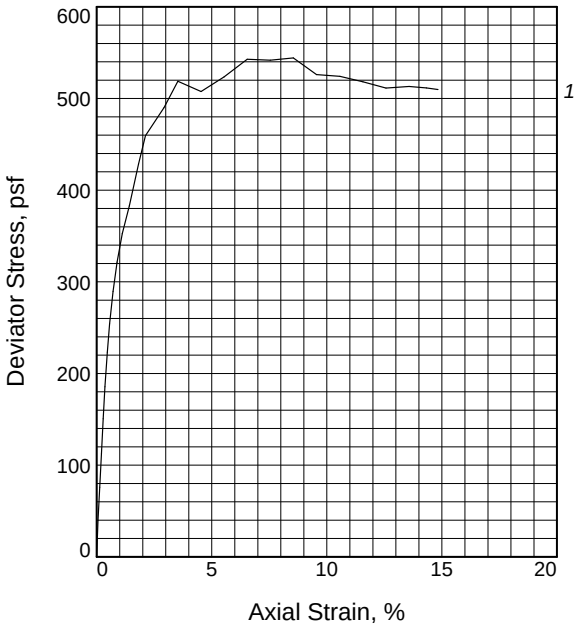


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 33.5'-35.5' **Sample Number:** BW-31 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.7
	Dry Density, pcf	65.2
	Saturation, %	117.7
	Void Ratio	1.0874
	Diameter, in.	2.774
	Height, in.	5.508
At Test	Water Content, %	62.4
	Dry Density, pcf	65.2
	Saturation, %	125.2
	Void Ratio	1.0874
	Diameter, in.	2.774
	Height, in.	5.508
Strain at peak, %		8.5
Back Pressure, psf		0.0
Cell Pressure, psf		943.2
Fail. Stress, psf		544.3
Strain, %		8.5
Ult. Stress, psf		544.3
Strain, %		8.5
σ_1 Failure, psf		1487.5
σ_3 Failure, psf		943.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(67))

Specific Gravity= 2.180

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

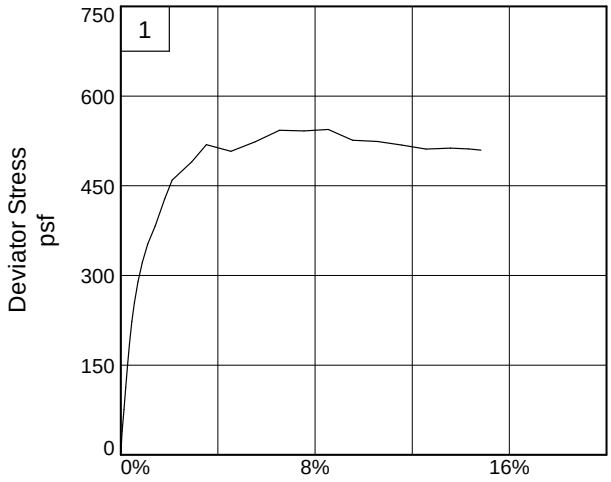
Project: Mobile River Bridge

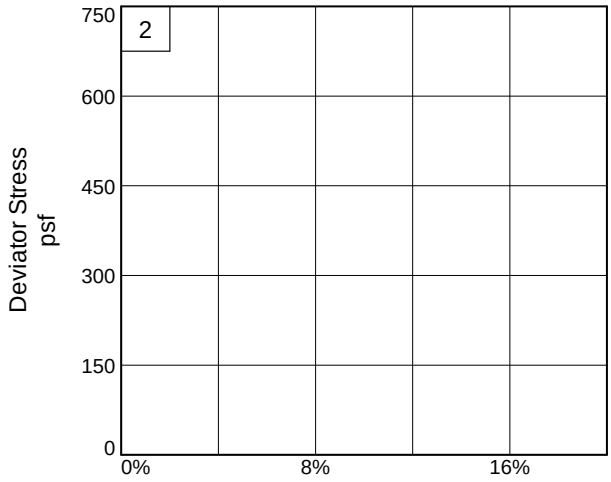
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5'

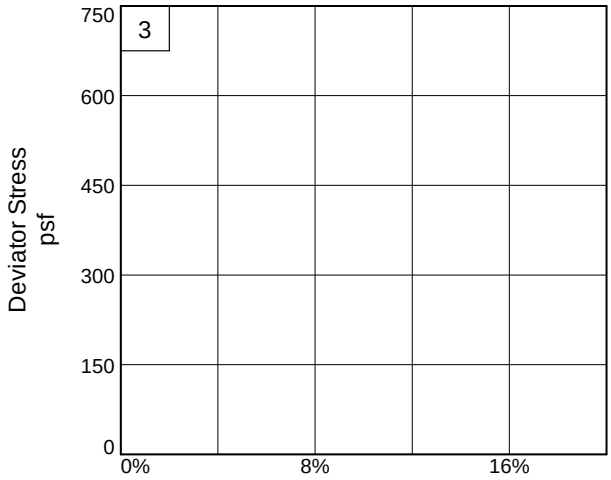
Sample Number: BW-32 T-1

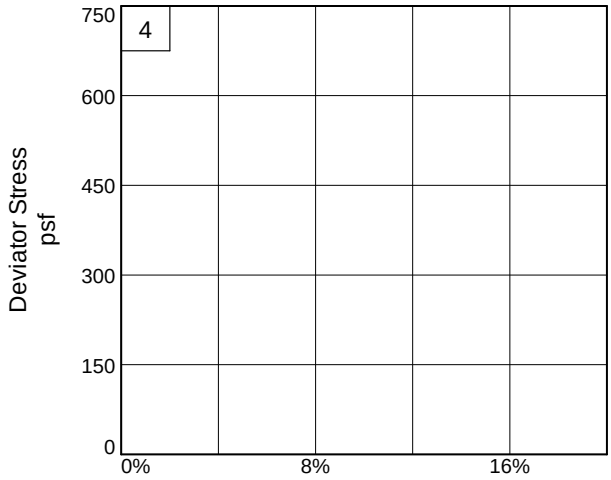
Proj. No.: 1511010228 **Date Sampled:**

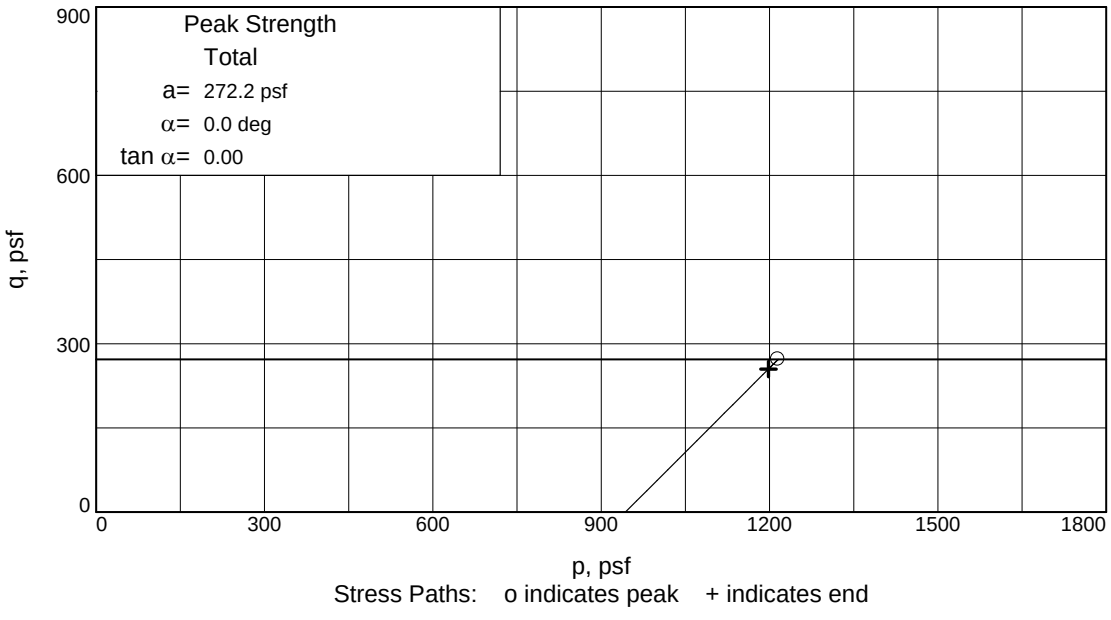
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Mobile, Alabama





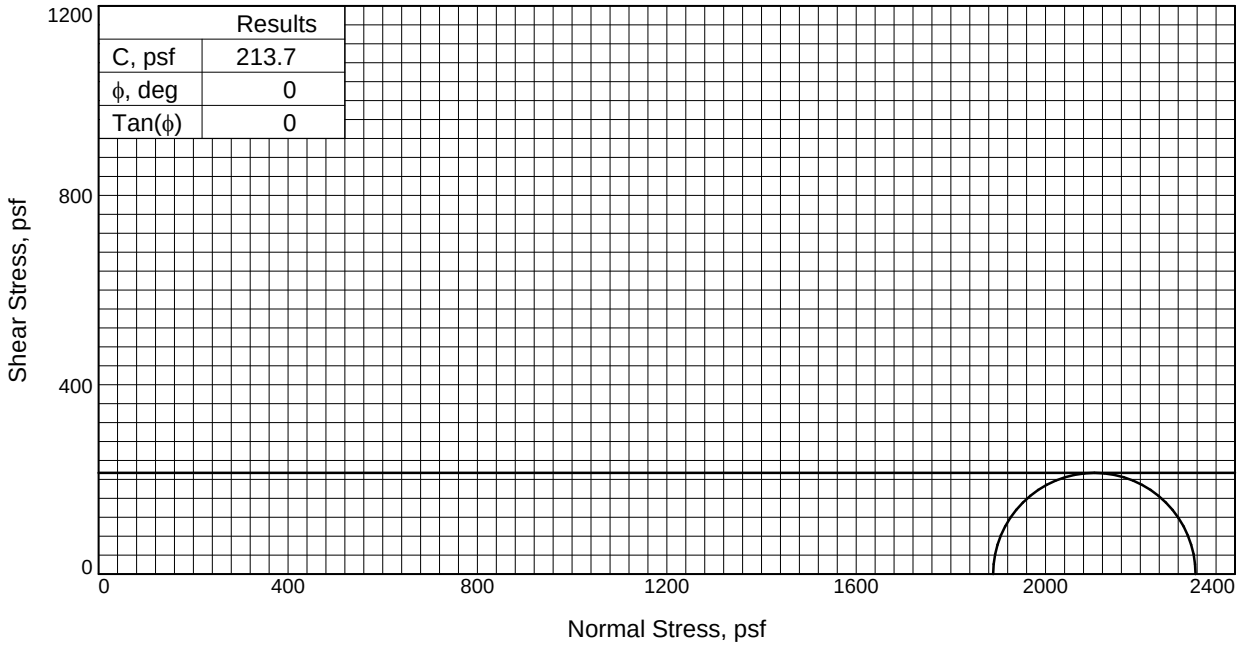


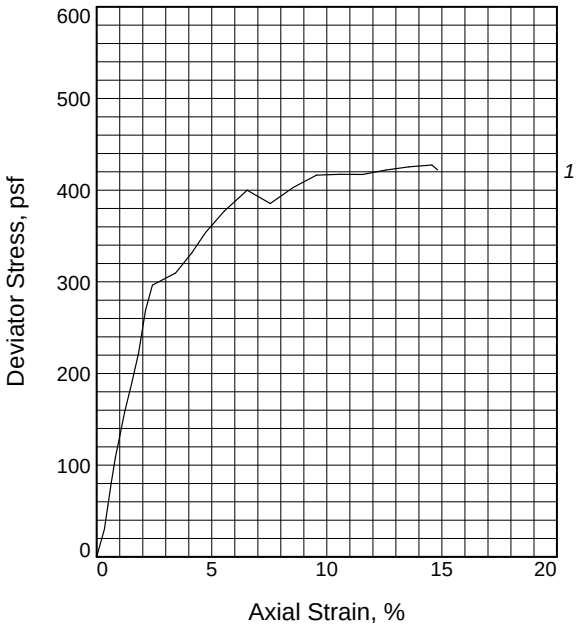




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5' **Sample Number:** BW-32 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	134.1
	Dry Density, pcf	38.8
	Saturation, %	116.4
	Void Ratio	2.5146
	Diameter, in.	2.857
	Height, in.	5.433
At Test	Water Content, %	83.7
	Dry Density, pcf	38.8
	Saturation, %	72.6
	Void Ratio	2.5146
	Diameter, in.	2.857
	Height, in.	5.433
Strain at peak, %		14.6
Back Pressure, psf		0.0
Cell Pressure, psf		1889.3
Fail. Stress, psf		427.4
Strain, %		14.6
Ult. Stress, psf		427.4
Strain, %		14.6
σ_1 Failure, psf		2316.7
σ_3 Failure, psf		1889.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.182

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

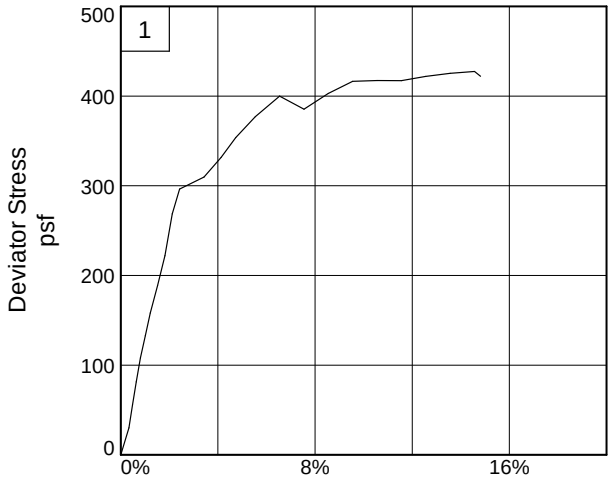
Project: Mobile River Bridge

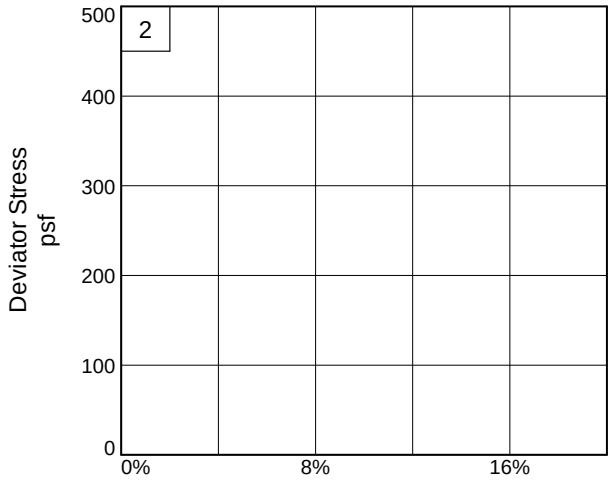
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5'

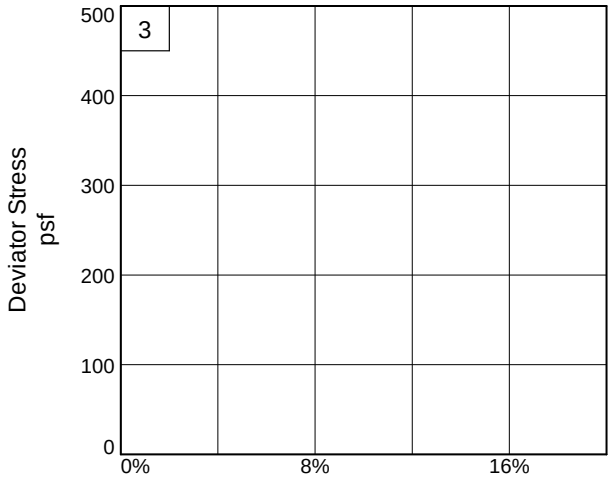
Sample Number: BW-32 T-3

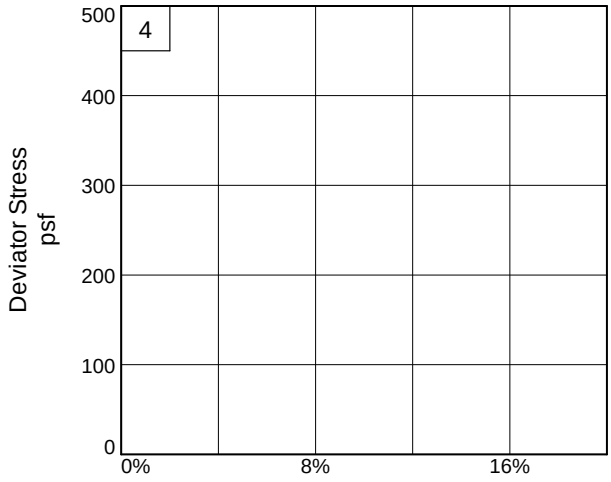
Proj. No.: 1511010228 **Date Sampled:**

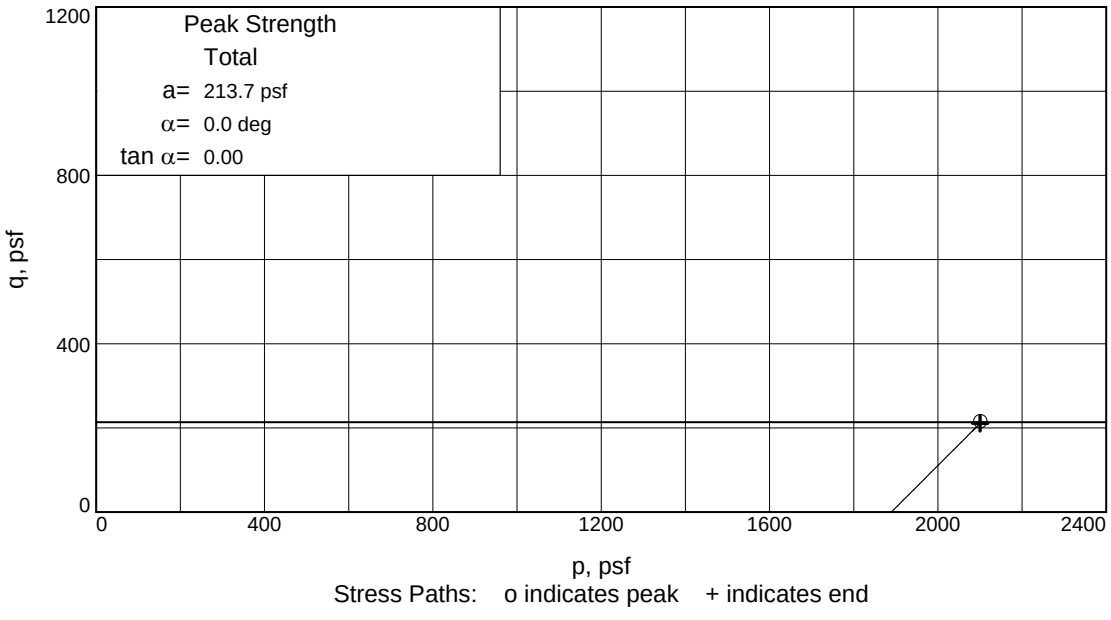
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Mobile, Alabama





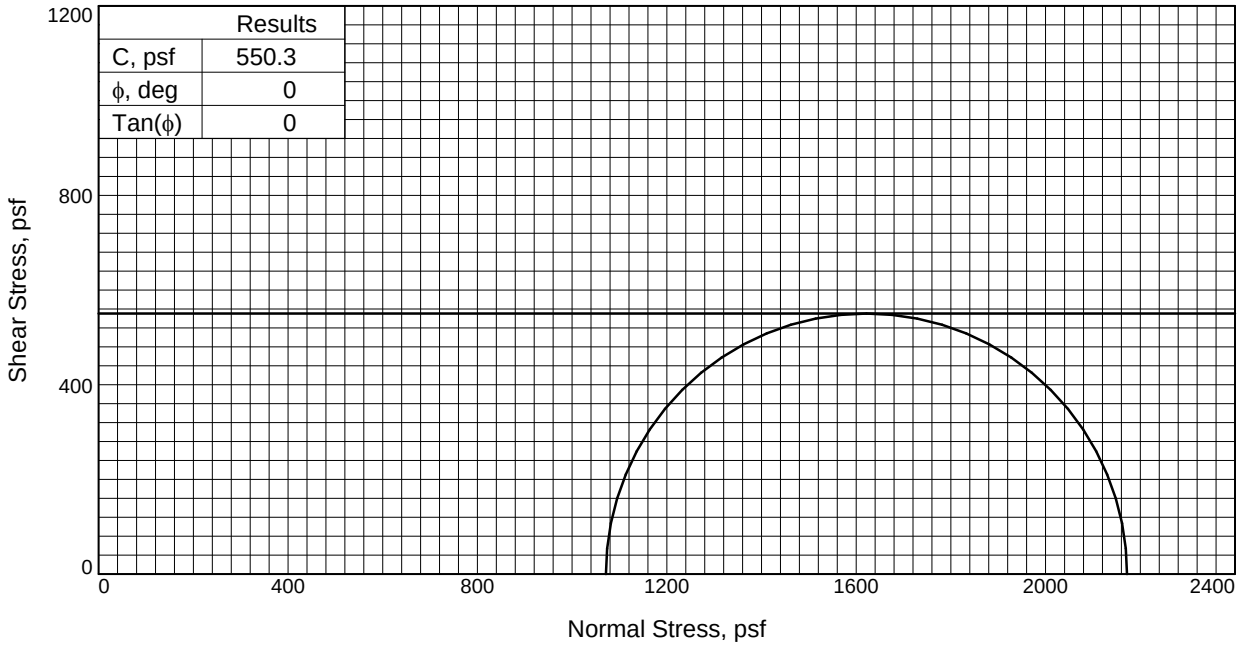


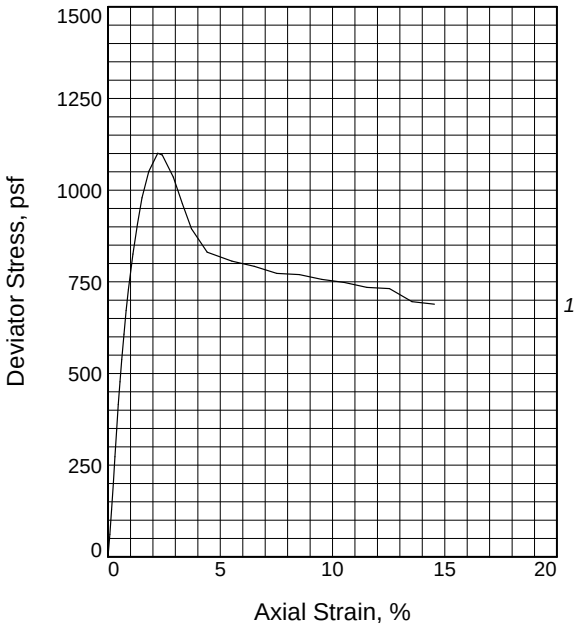




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5' **Sample Number:** BW-32 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	63.6
	Dry Density, pcf	61.6
	Saturation, %	99.9
	Void Ratio	1.6947
	Diameter, in.	2.837
	Height, in.	5.438
At Test	Water Content, %	69.3
	Dry Density, pcf	61.6
	Saturation, %	108.8
	Void Ratio	1.6947
	Diameter, in.	2.837
	Height, in.	5.438
Strain at peak, %		2.2
Back Pressure, psf		0.0
Cell Pressure, psf		1071.4
Fail. Stress, psf		1100.6
Strain, %		2.2
Ult. Stress, psf		1100.6
Strain, %		2.2
σ_1 Failure, psf		2172.0
σ_3 Failure, psf		1071.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(73))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

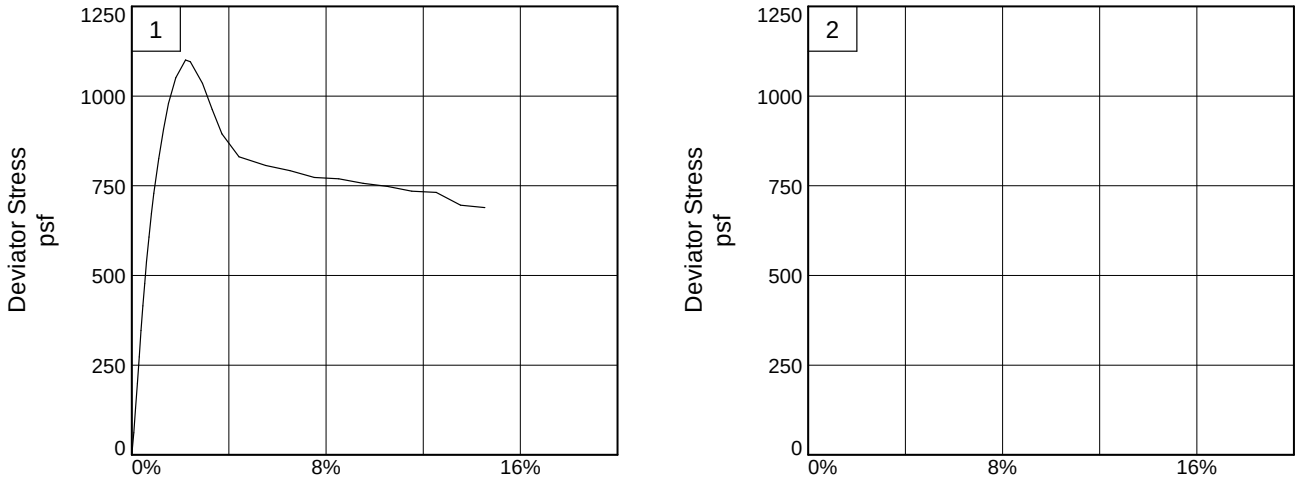
Project: Mobile River Bridge

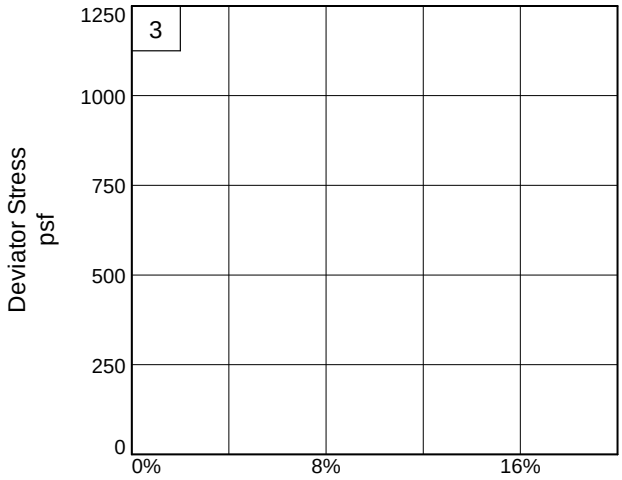
Source of Sample: Lab #7837 **Depth:** 21.5'-23.5'

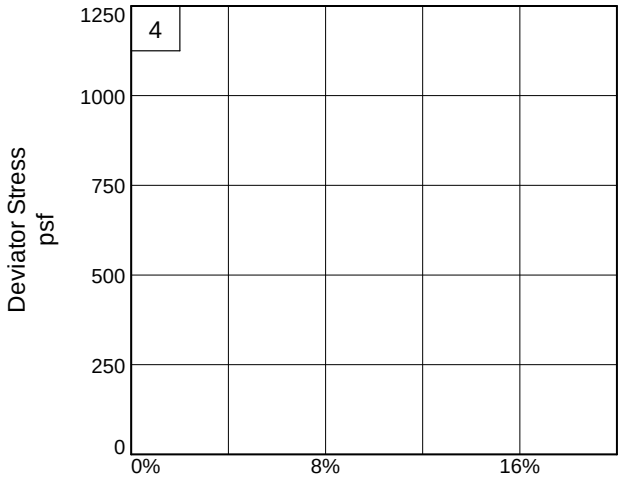
Sample Number: BW-33 T-2

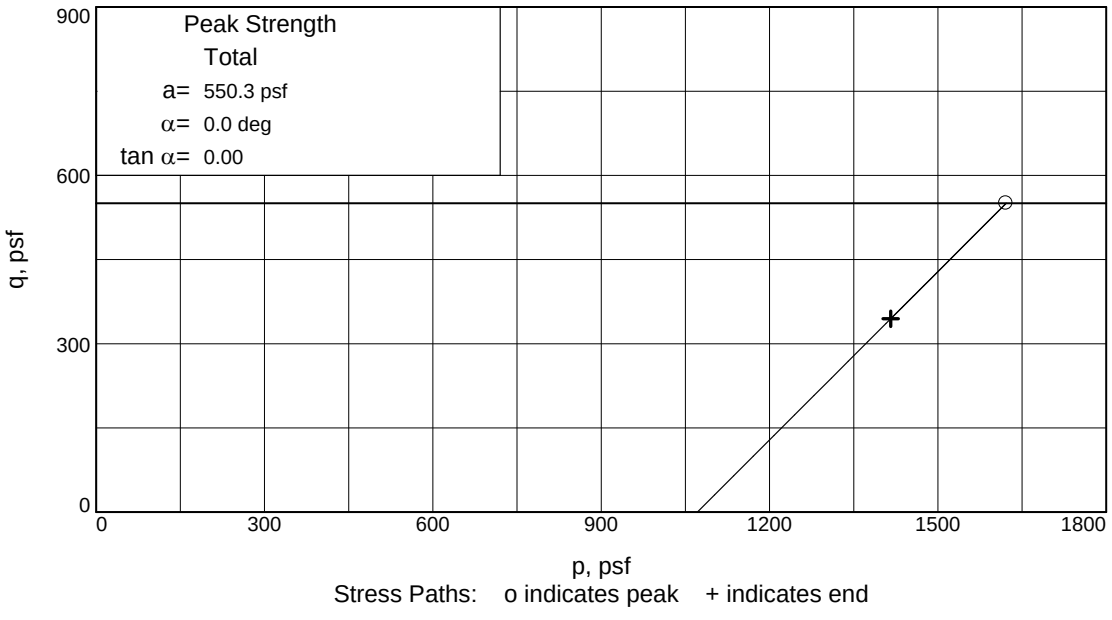
Proj. No.: 1511010228 **Date Sampled:**

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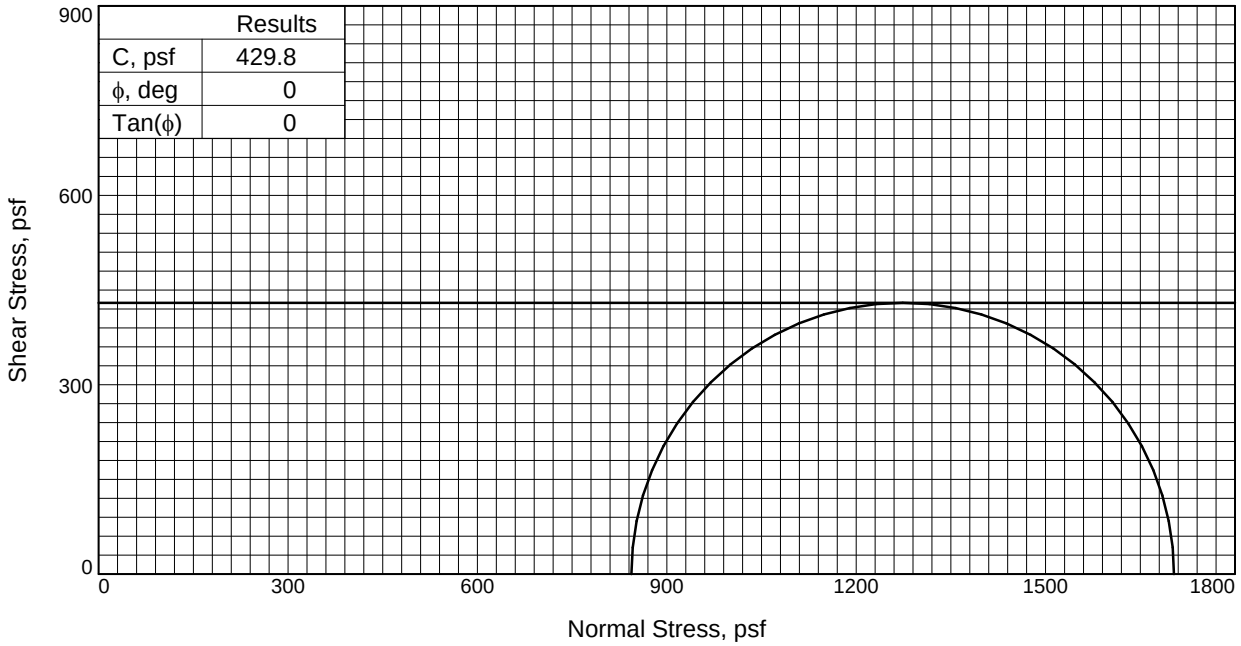


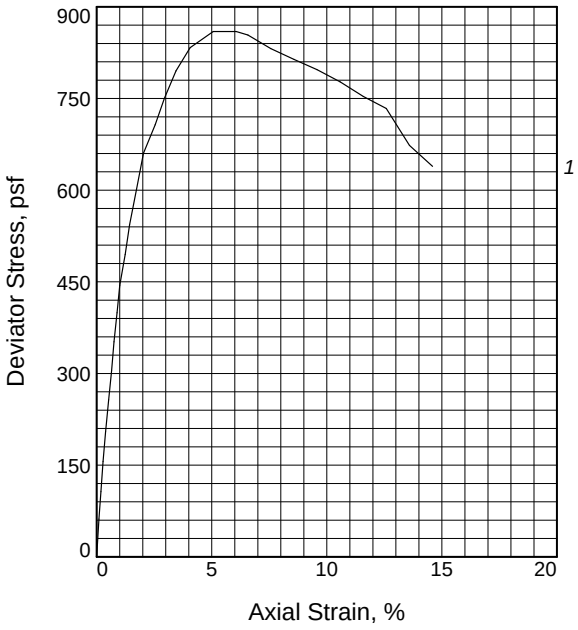




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 21.5'-23.5' **Sample Number:** BW-33 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	58.4
	Dry Density, pcf	64.7
	Saturation, %	99.2
	Void Ratio	1.5657
	Diameter, in.	2.829
	Height, in.	5.459
At Test	Water Content, %	64.3
	Dry Density, pcf	64.7
	Saturation, %	109.2
	Void Ratio	1.5657
	Diameter, in.	2.829
	Height, in.	5.459
Strain at peak, %		5.1
Back Pressure, psf		0.0
Cell Pressure, psf		843.8
Fail. Stress, psf		859.5
Strain, %		5.1
Ult. Stress, psf		859.5
Strain, %		5.1
σ_1 Failure, psf		1703.4
σ_3 Failure, psf		843.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(62))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

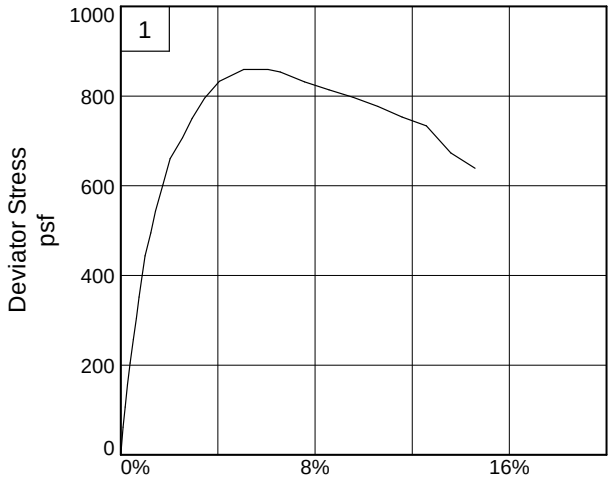
Project: Mobile River Bridge

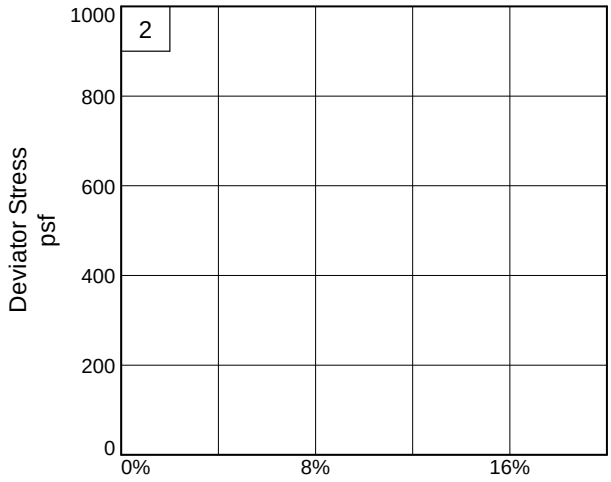
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0'

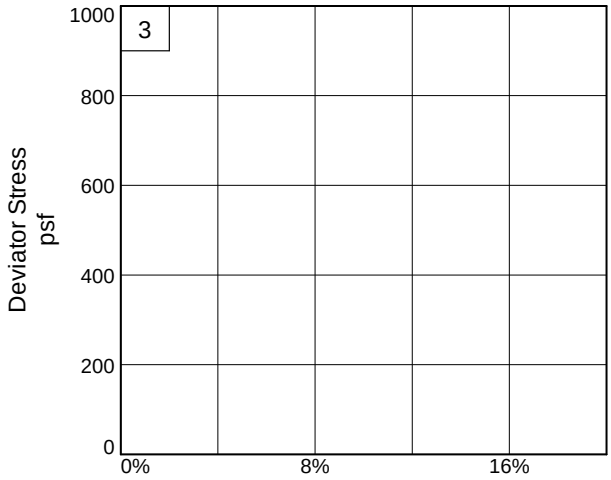
Sample Number: BW-34 T-1

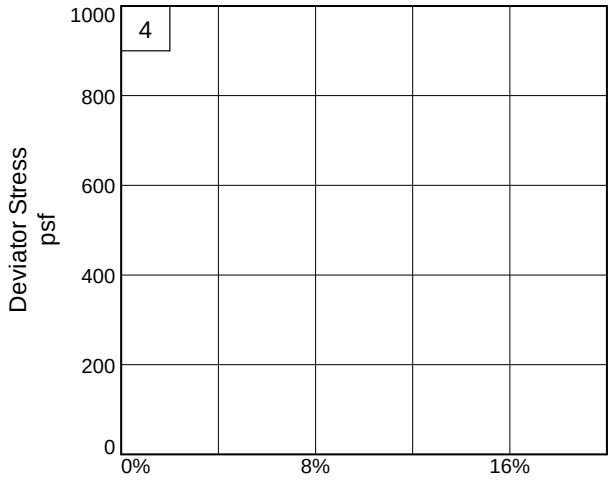
Proj. No.: 1511010228 **Date Sampled:**

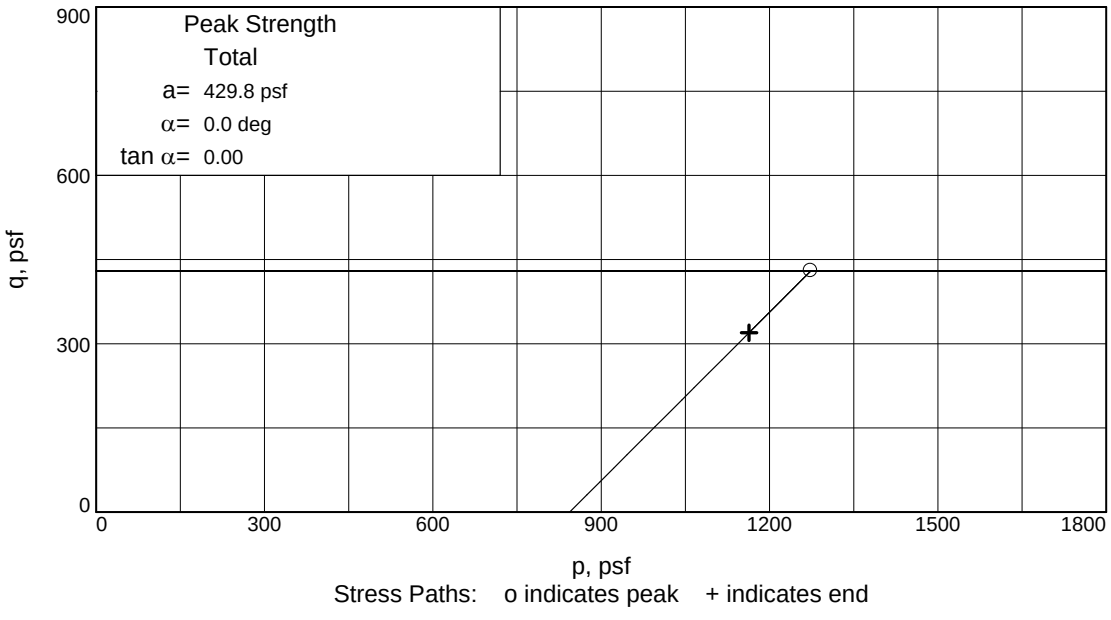
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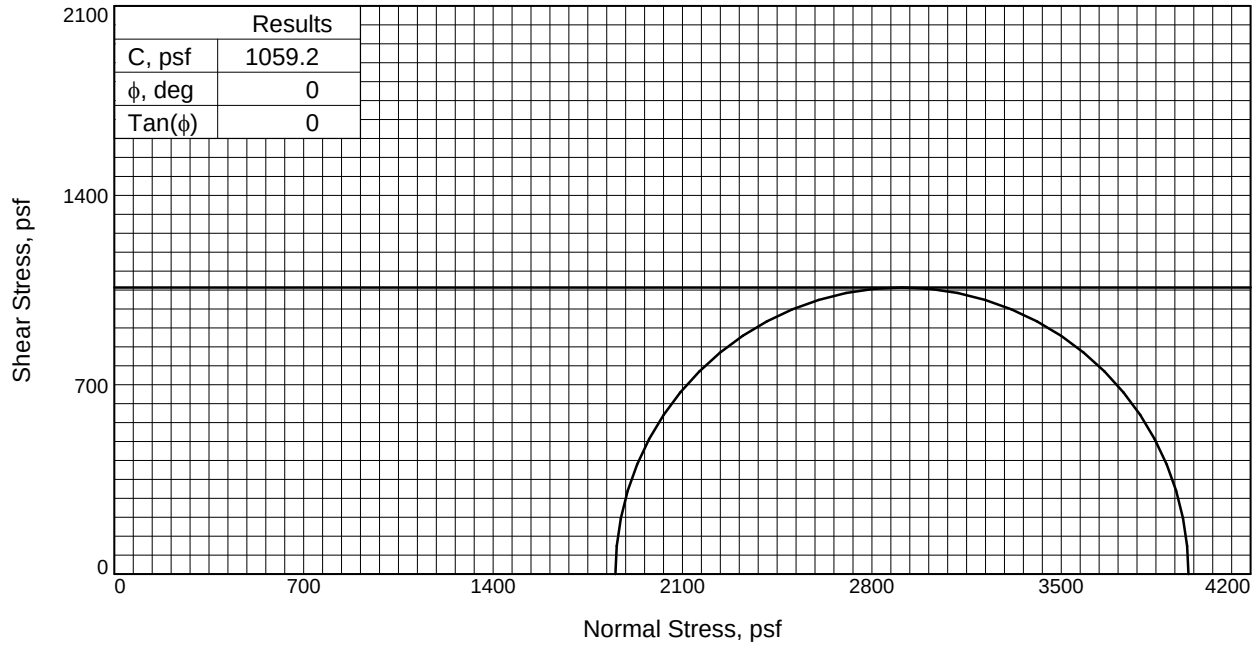


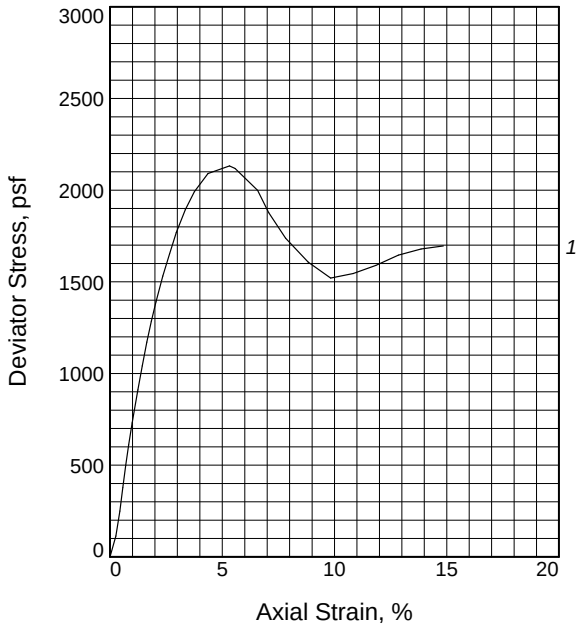




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0' **Sample Number:** BW-34 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	159.3
	Dry Density, pcf	31.0
	Saturation, %	97.1
	Void Ratio	4.3631
	Diameter, in.	2.819
	Height, in.	5.635
At Test	Water Content, %	146.2
	Dry Density, pcf	31.0
	Saturation, %	89.1
	Void Ratio	4.3631
	Diameter, in.	2.819
	Height, in.	5.635
Strain at peak, %		5.6
Back Pressure, psf		0.0
Cell Pressure, psf		1851.8
Fail. Stress, psf		2118.4
Strain, %		5.6
Ult. Stress, psf		2118.4
Strain, %		5.6
σ_1 Failure, psf		3970.3
σ_3 Failure, psf		1851.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description:

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

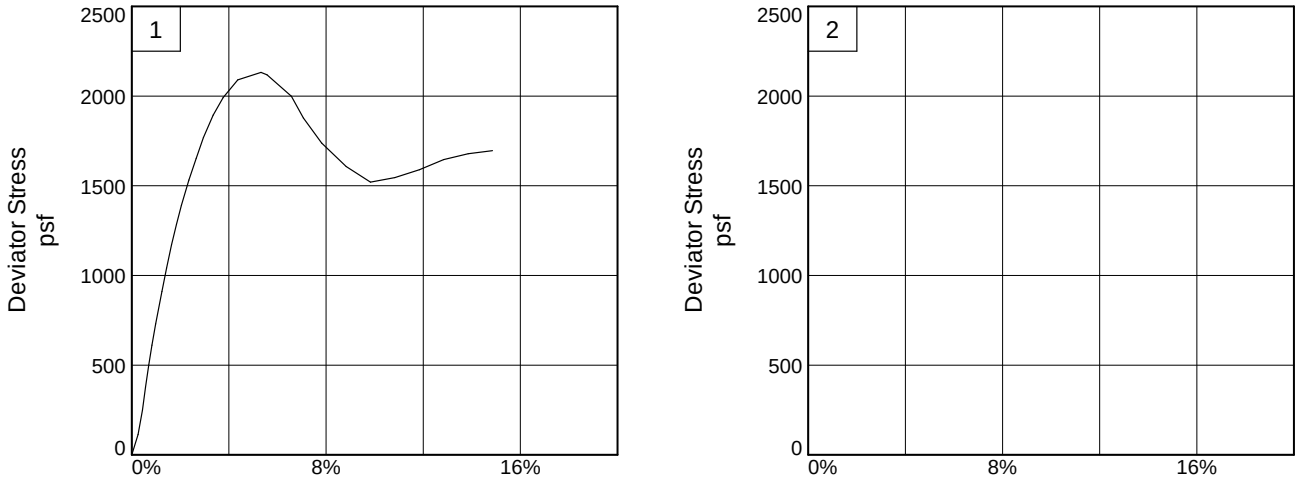
Project: Mobile River Bridge

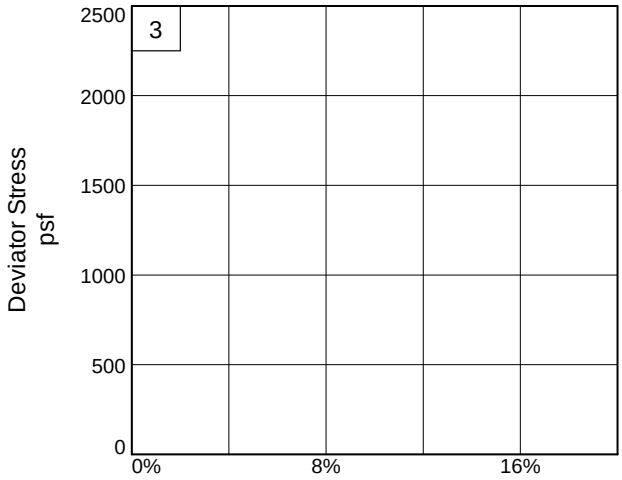
Source of Sample: Lab #7985 **Depth:** 38.0'-40.0'

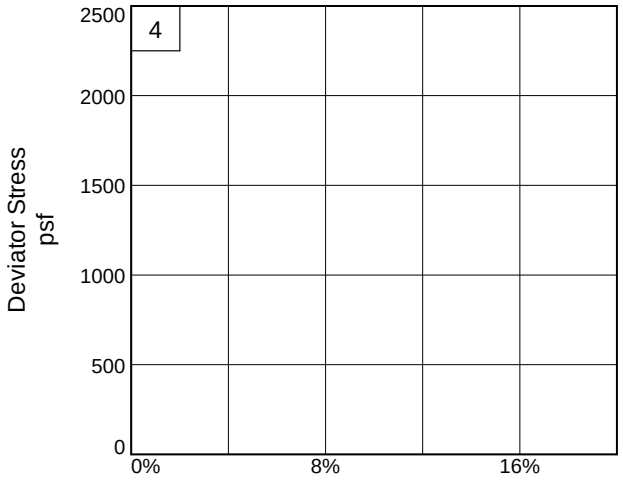
Sample Number: BW-34 T-3

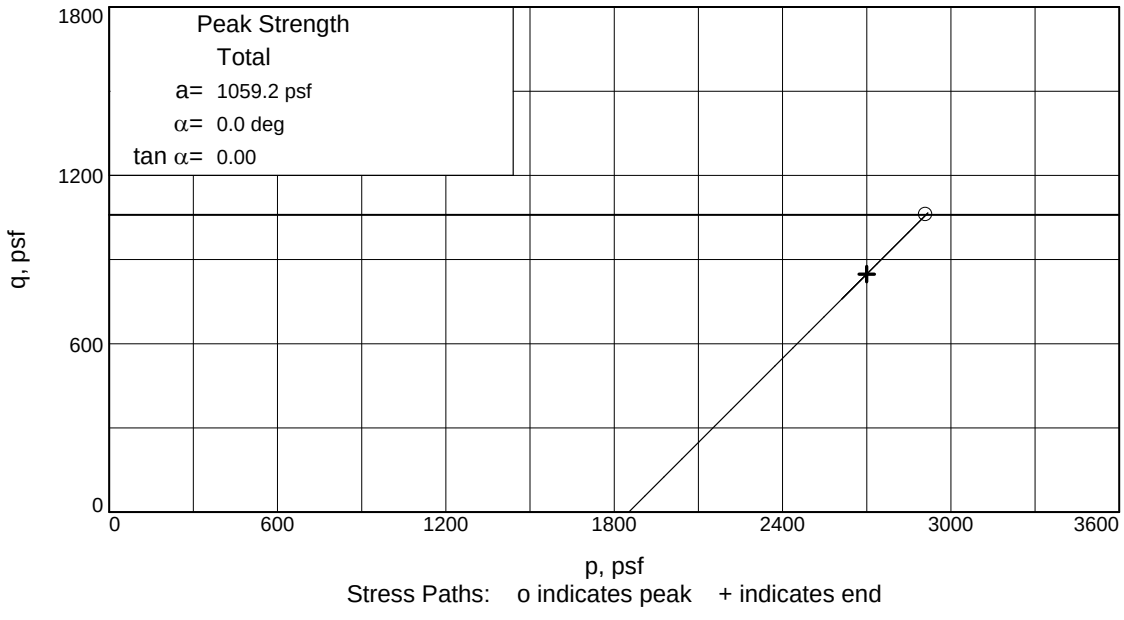
Proj. No.: 1511010228 **Date Sampled:**

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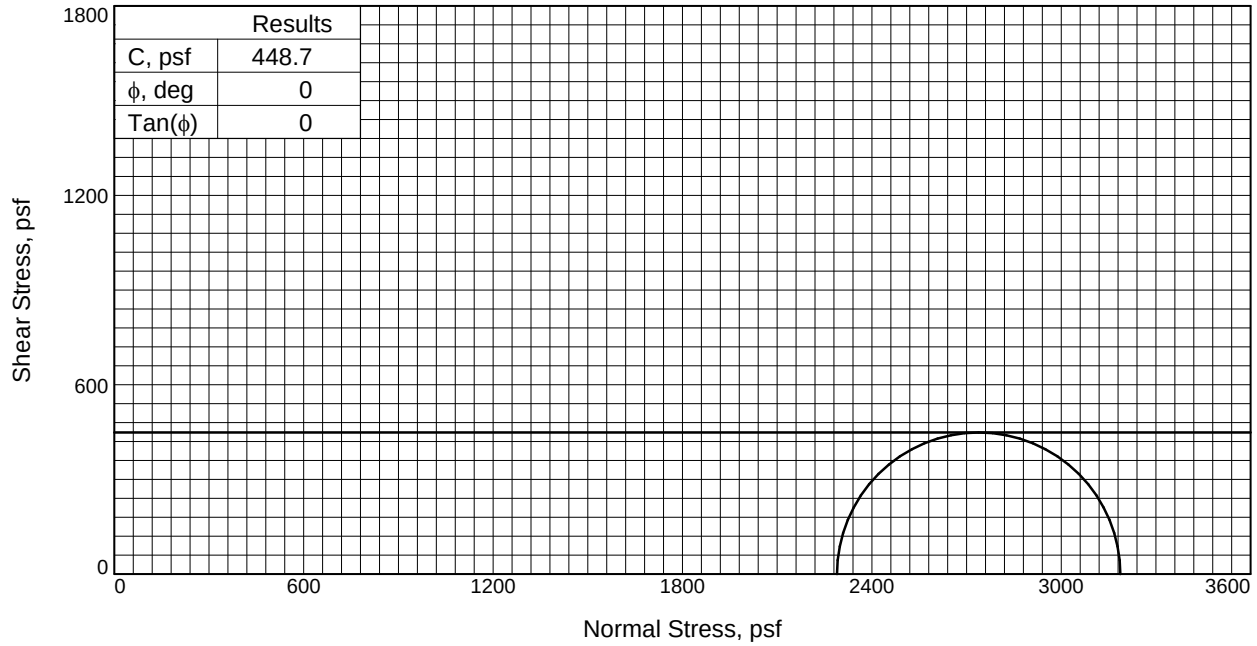


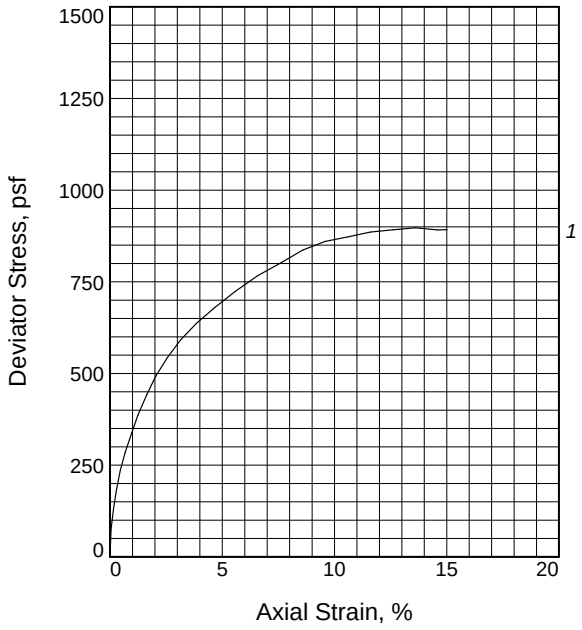


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 38.0'-40.0' **Sample Number:** BW-34 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	36.0
	Dry Density, pcf	85.8
	Saturation, %	102.5
	Void Ratio	0.9352
	Diameter, in.	2.855
	Height, in.	5.514
At Test	Water Content, %	36.0
	Dry Density, pcf	85.8
	Saturation, %	102.4
	Void Ratio	0.9352
	Diameter, in.	2.855
	Height, in.	5.514
Strain at peak, %		13.6
Back Pressure, psf		0.0
Cell Pressure, psf		2289.6
Fail. Stress, psf		897.4
Strain, %		13.6
Ult. Stress, psf		897.4
Strain, %		13.6
σ_1 Failure, psf		3187.0
σ_3 Failure, psf		2289.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(22))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

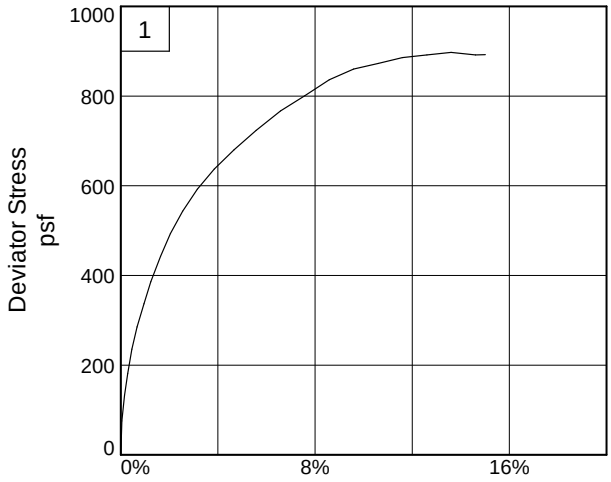
Project: Mobile River Bridge

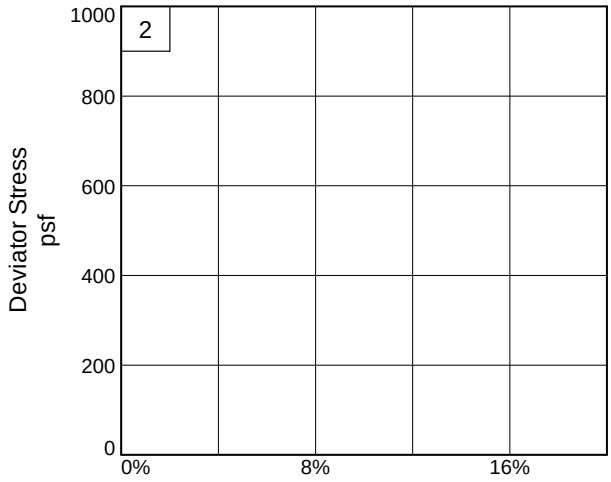
Source of Sample: Lab #7985 **Depth:** 48.0'-50.0'

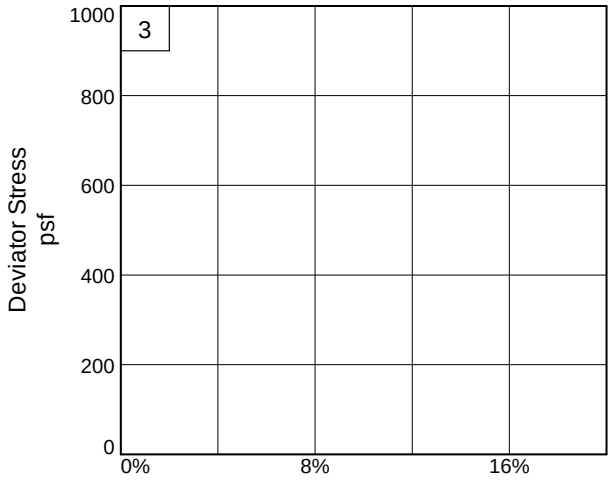
Sample Number: BW-34 T-4

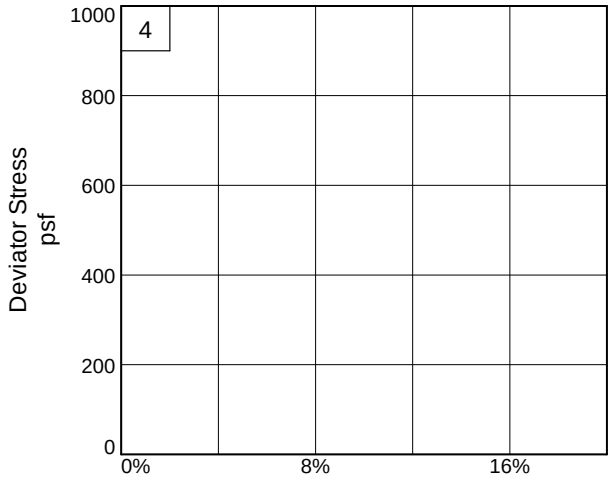
Proj. No.: 1511010228 **Date Sampled:**

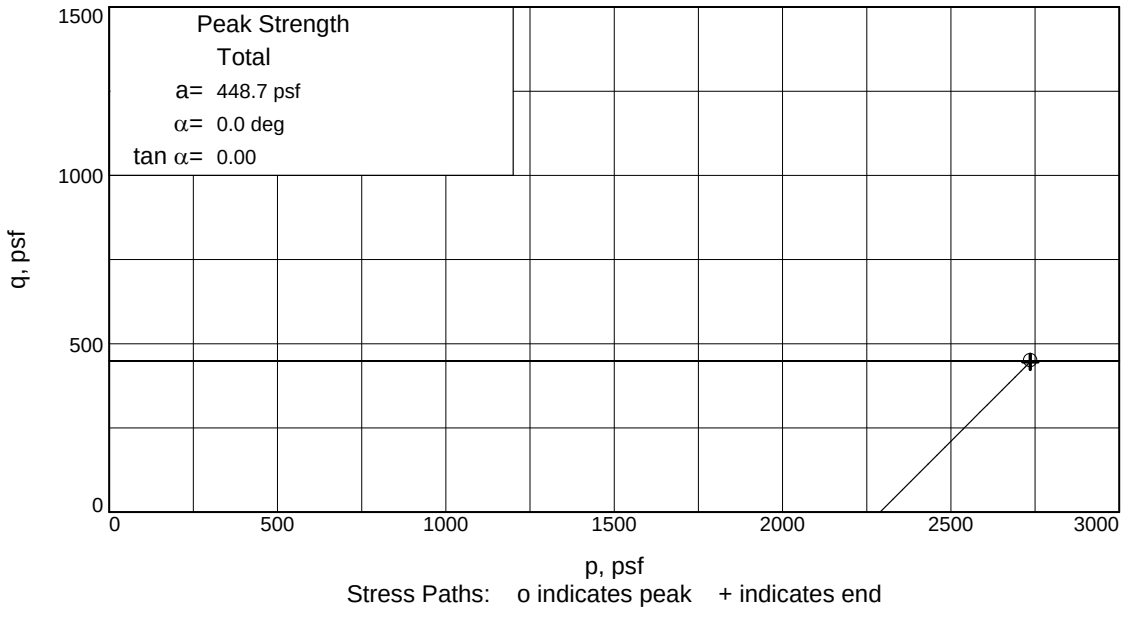
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Thompson Engineering
Mobile, Alabama





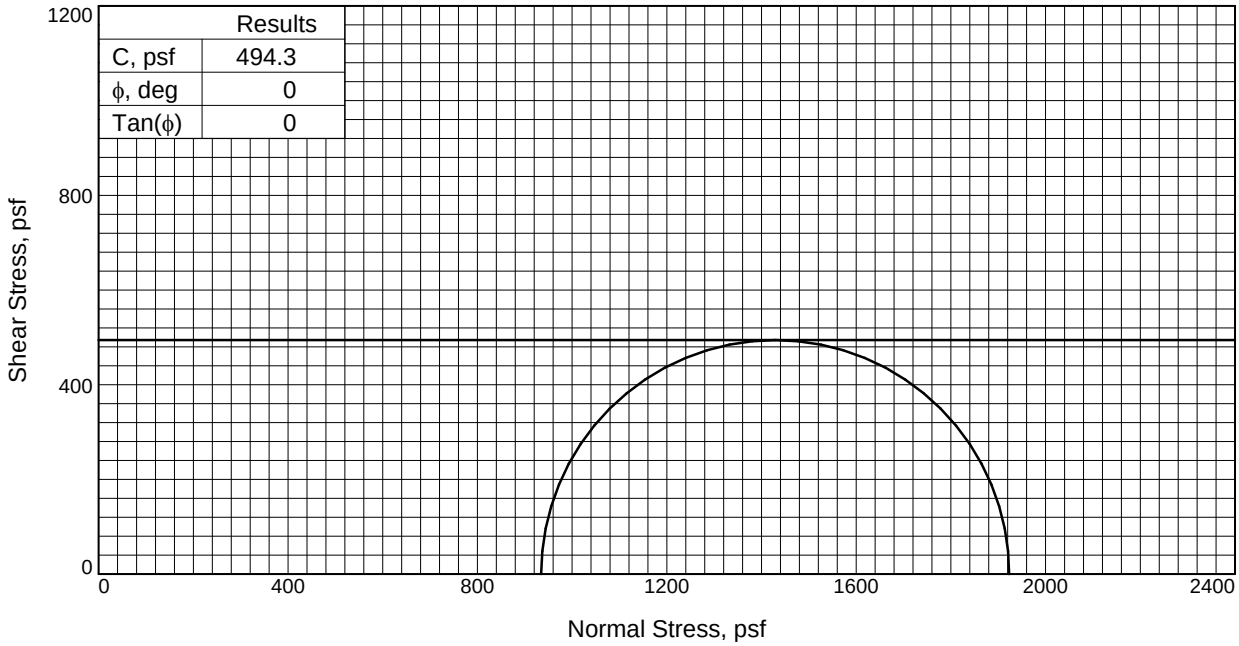


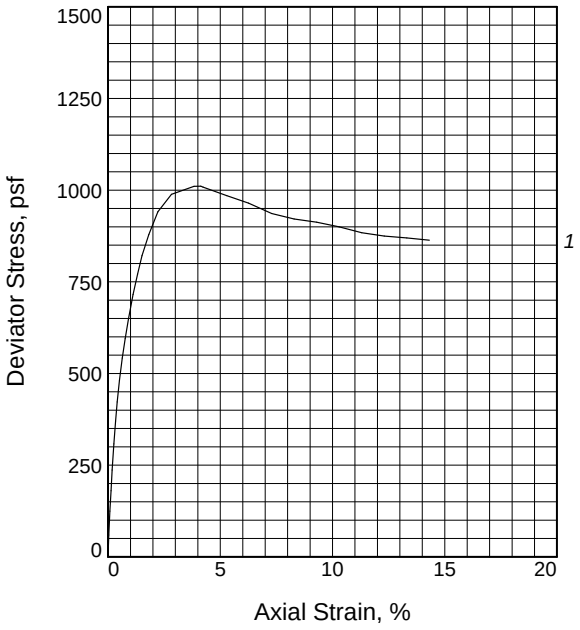




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 48.0'-50.0' **Sample Number:** BW-34 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	51.0
	Dry Density, pcf	71.1
	Saturation, %	101.6
	Void Ratio	1.3346
	Diameter, in.	2.814
	Height, in.	5.510
At Test	Water Content, %	52.6
	Dry Density, pcf	71.1
	Saturation, %	104.9
	Void Ratio	1.3346
	Diameter, in.	2.814
	Height, in.	5.510
Strain at peak, %		2.8
Back Pressure, psf		0.0
Cell Pressure, psf		934.6
Fail. Stress, psf		988.6
Strain, %		2.8
Ult. Stress, psf		988.6
Strain, %		2.8
σ_1 Failure, psf		1923.1
σ_3 Failure, psf		934.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(31))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

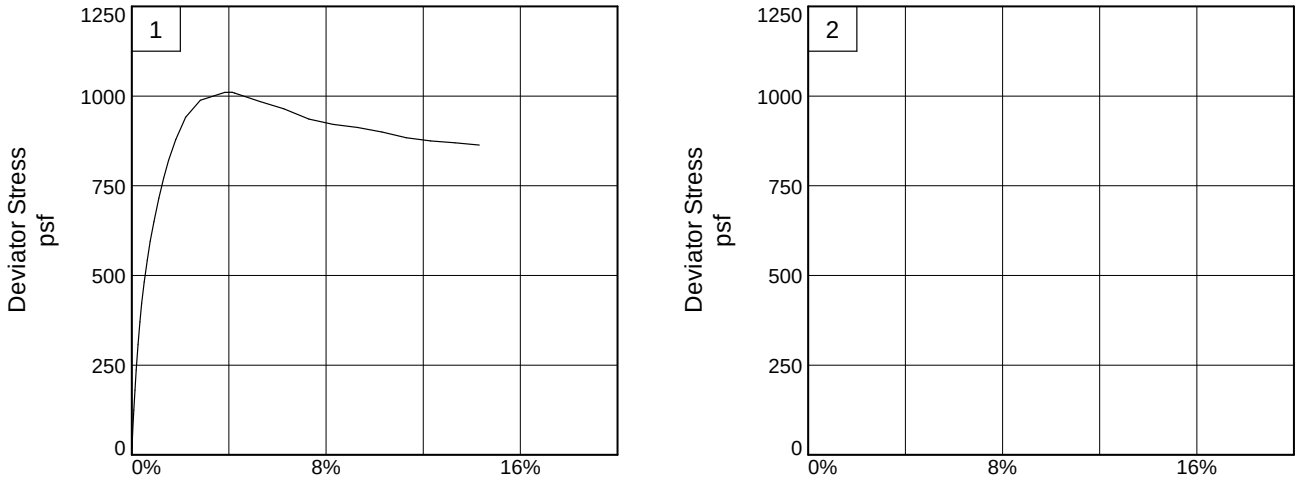
Project: Mobile River Bridge

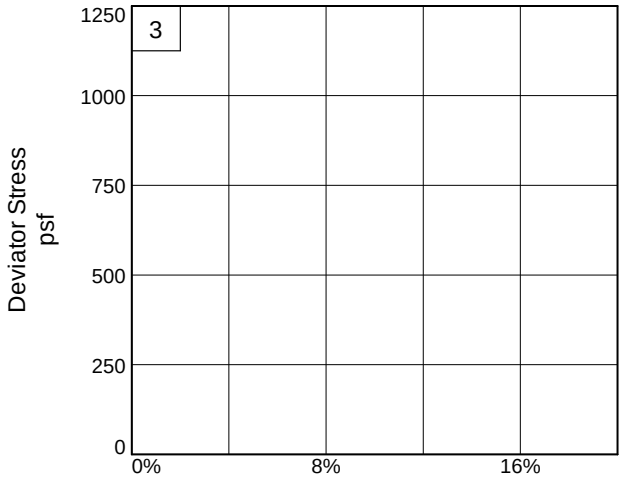
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5'

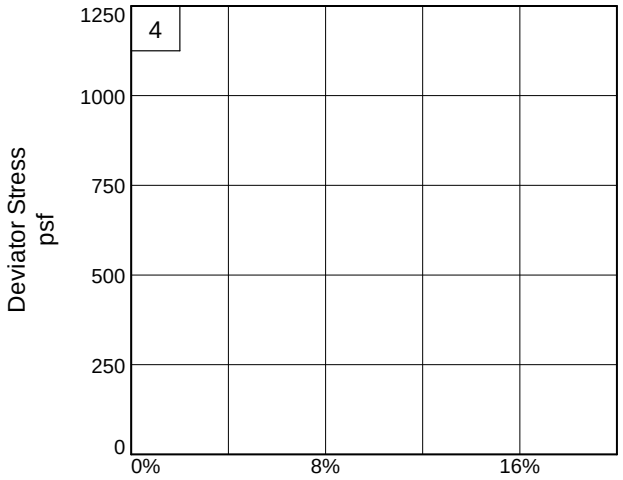
Sample Number: BW-35 T-1

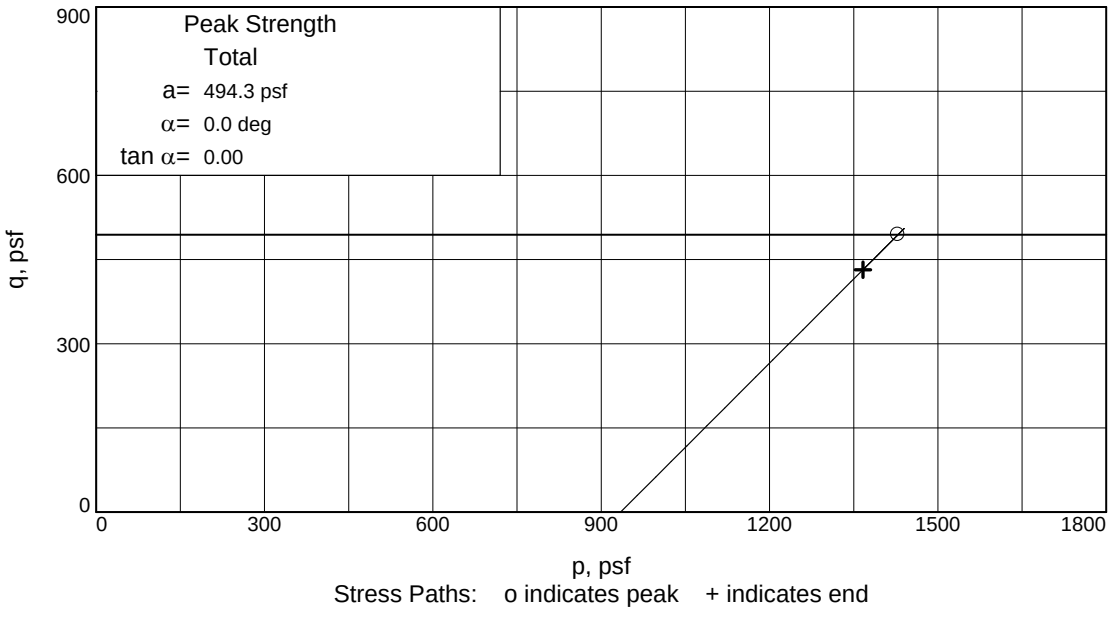
Proj. No.: 1511010228 **Date Sampled:**

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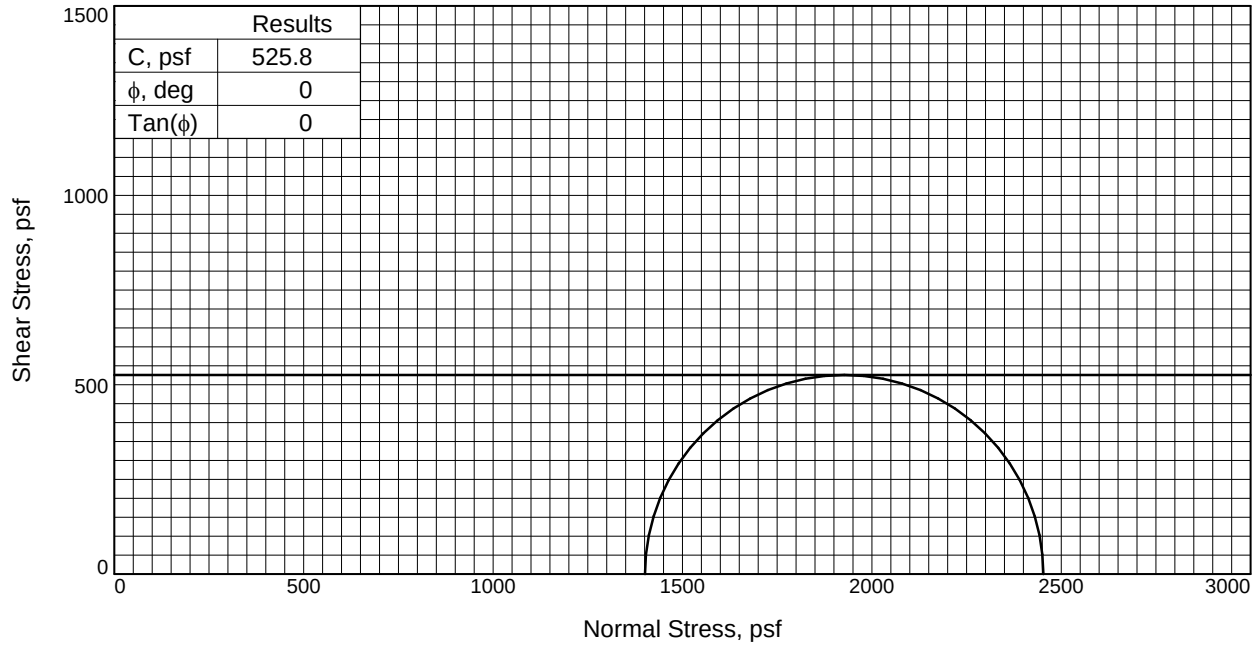


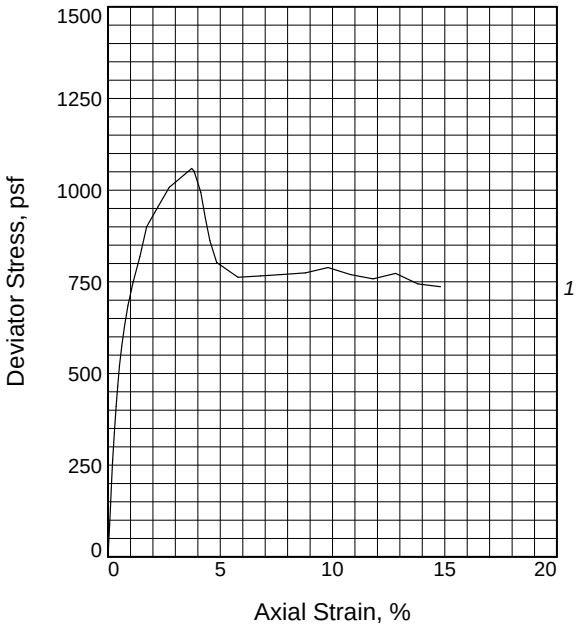




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 18.5'-20.5' **Sample Number:** BW-35 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	74.7
	Dry Density, pcf	56.8
	Saturation, %	103.4
	Void Ratio	1.9222
	Diameter, in.	2.793
	Height, in.	5.415
At Test	Water Content, %	73.1
	Dry Density, pcf	56.8
	Saturation, %	101.2
	Void Ratio	1.9222
	Diameter, in.	2.793
	Height, in.	5.415
Strain at peak, %		3.8
Back Pressure, psf		0.0
Cell Pressure, psf		1401.1
Fail. Stress, psf		1051.6
Strain, %		3.8
Ult. Stress, psf		1051.6
Strain, %		3.8
σ_1 Failure, psf		2452.7
σ_3 Failure, psf		1401.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(63))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

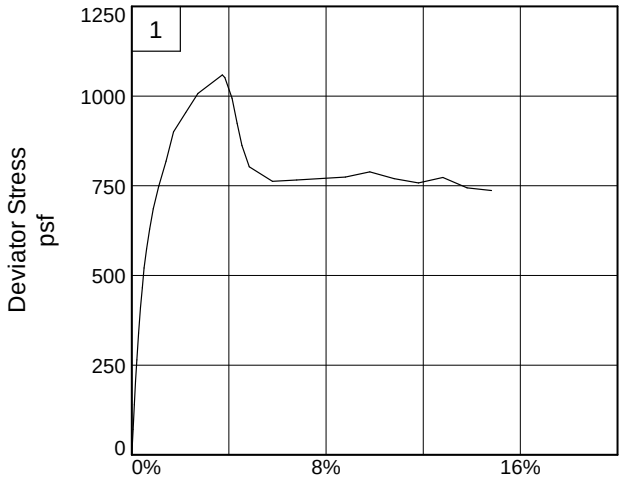
Project: Mobile River Bridge

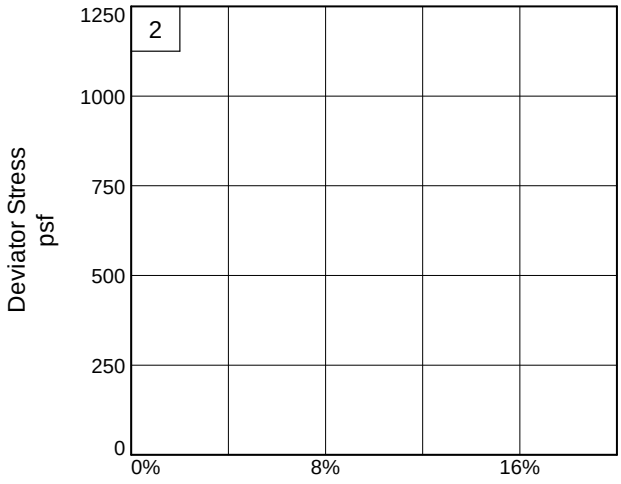
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5'

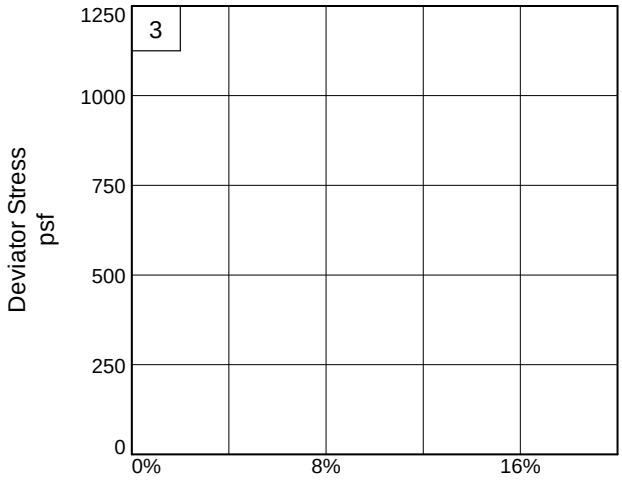
Sample Number: BW-35 T-2

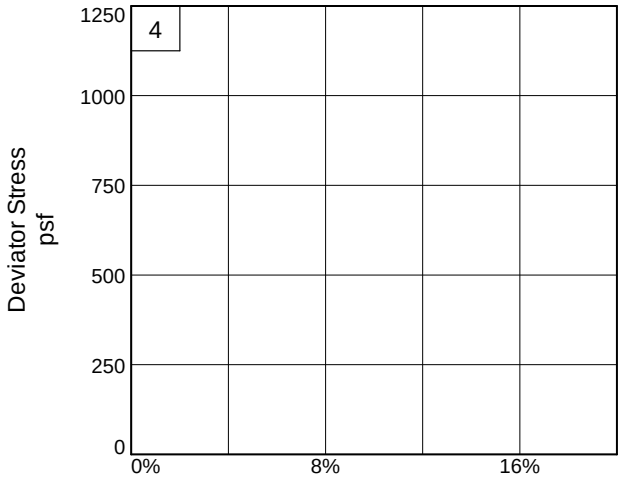
Proj. No.: 1511010228 **Date Sampled:**

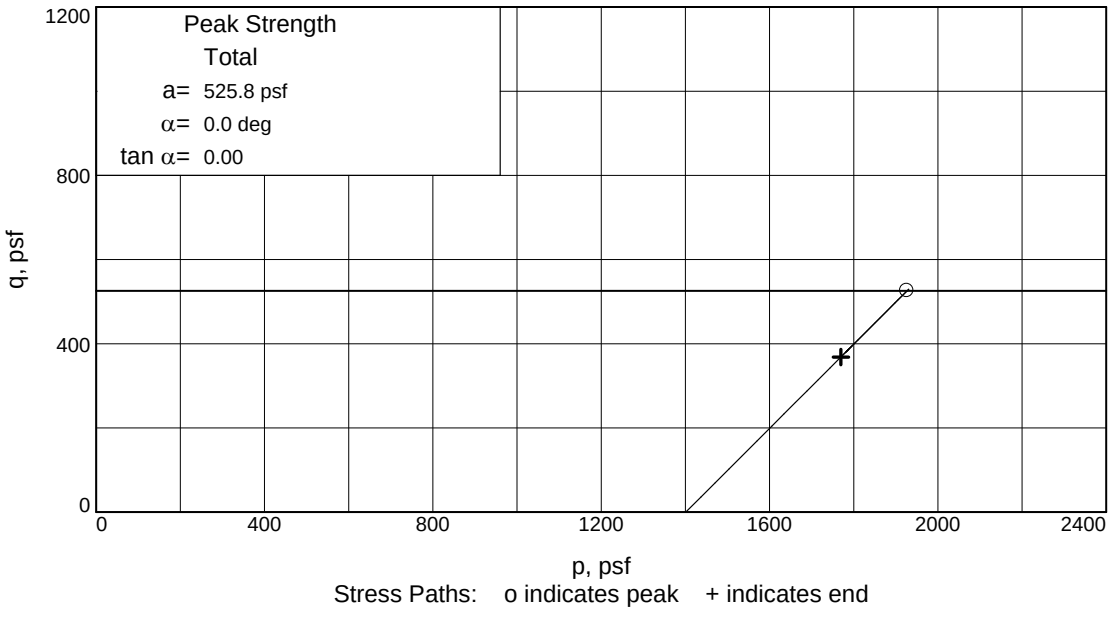
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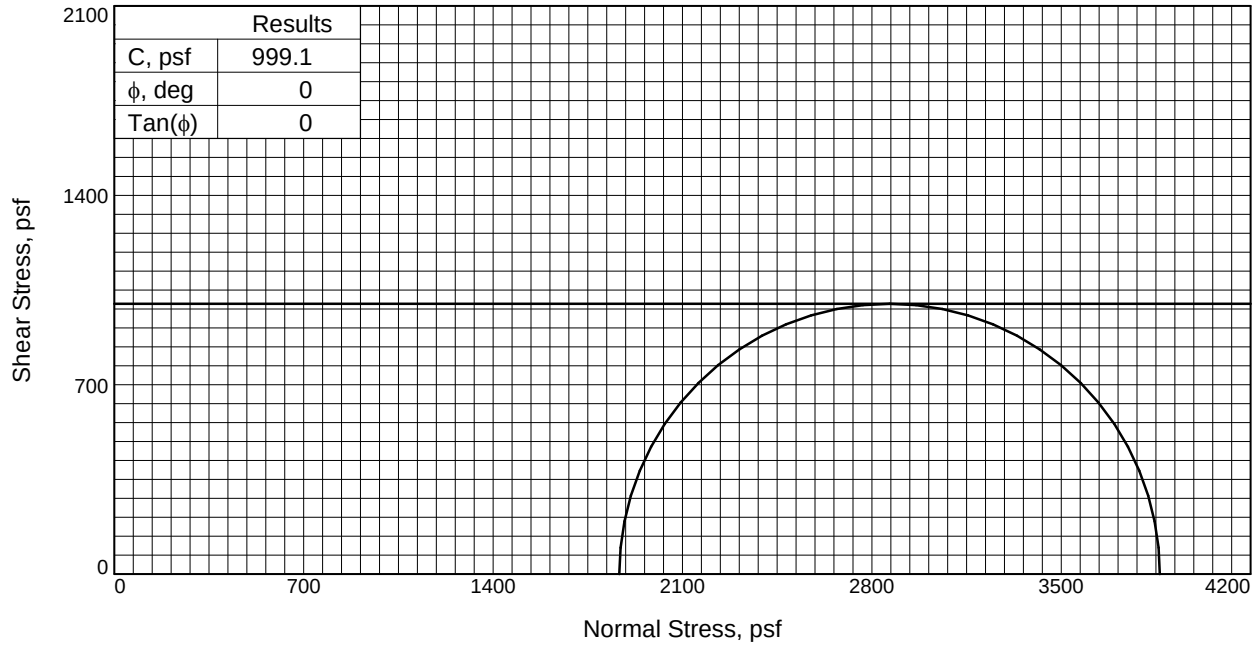


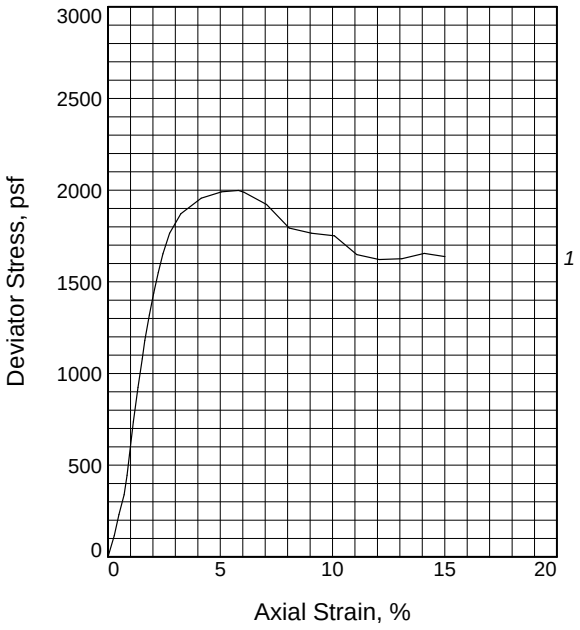


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5' **Sample Number:** BW-35 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	146.4
	Dry Density, pcf	33.0
	Saturation, %	96.5
	Void Ratio	4.0368
	Diameter, in.	2.826
	Height, in.	5.617
At Test	Water Content, %	133.2
	Dry Density, pcf	33.0
	Saturation, %	87.8
	Void Ratio	4.0368
	Diameter, in.	2.826
	Height, in.	5.617
Strain at peak, %		5.8
Back Pressure, psf		0.0
Cell Pressure, psf		1866.2
Fail. Stress, psf		1998.2
Strain, %		5.8
Ult. Stress, psf		1998.2
Strain, %		5.8
σ_1 Failure, psf		3864.4
σ_3 Failure, psf		1866.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-7-5(18))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

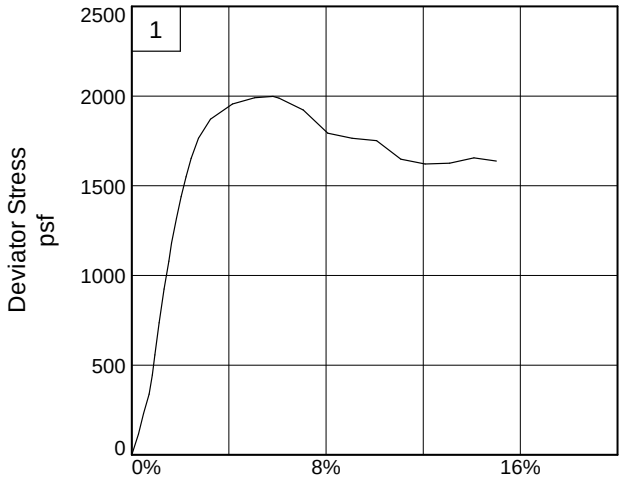
Project: Mobile River Bridge

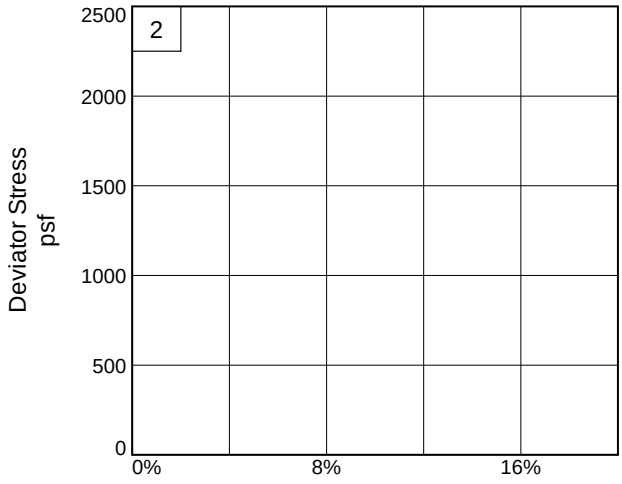
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5'

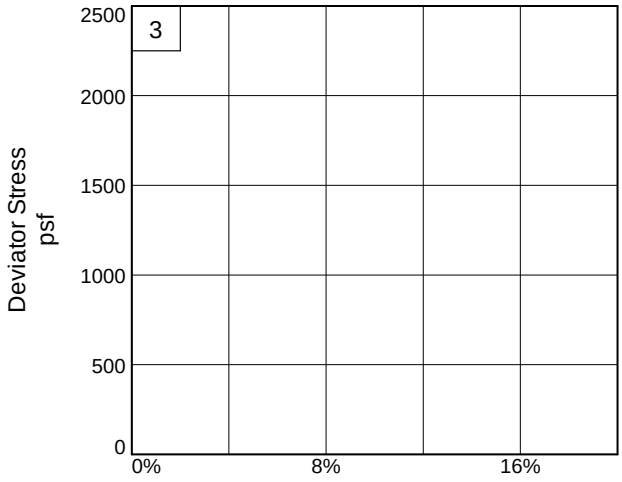
Sample Number: BW-35 T-3

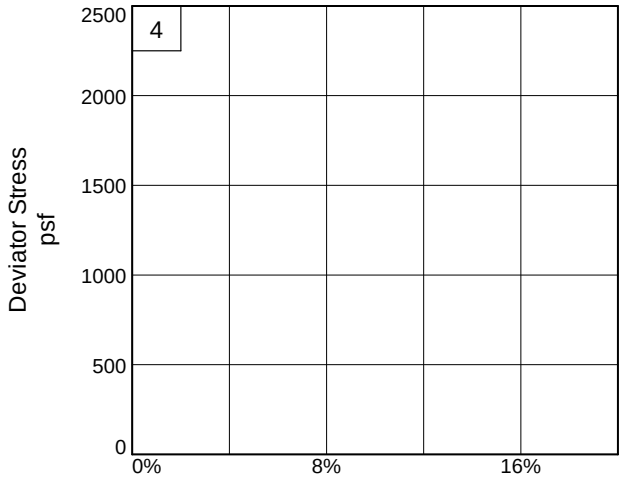
Proj. No.: 1511010228 **Date Sampled:**

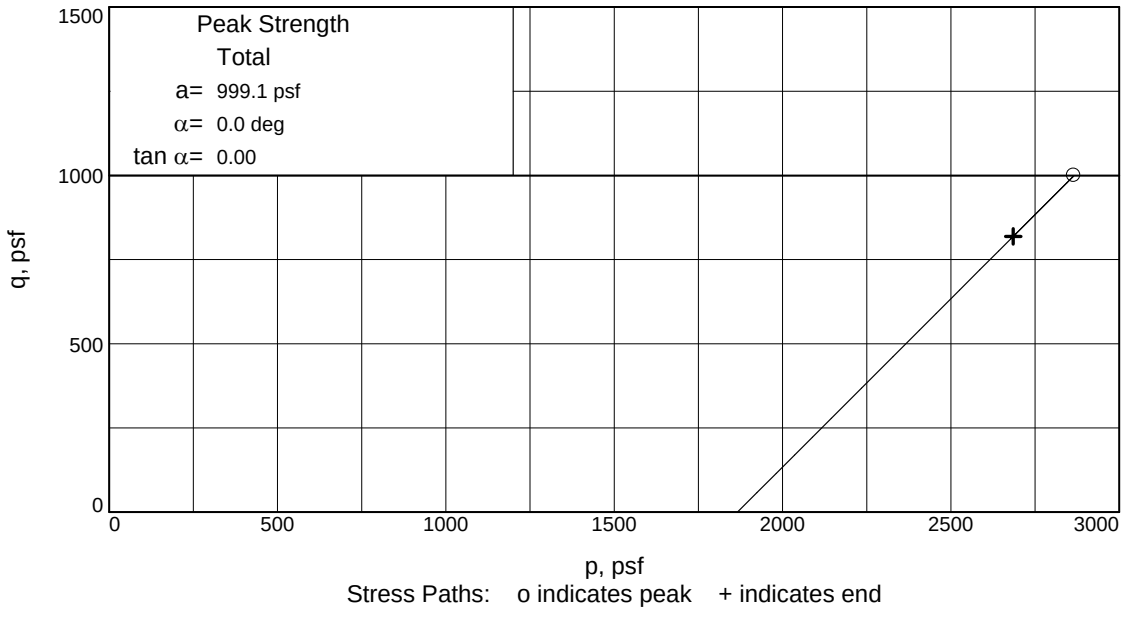
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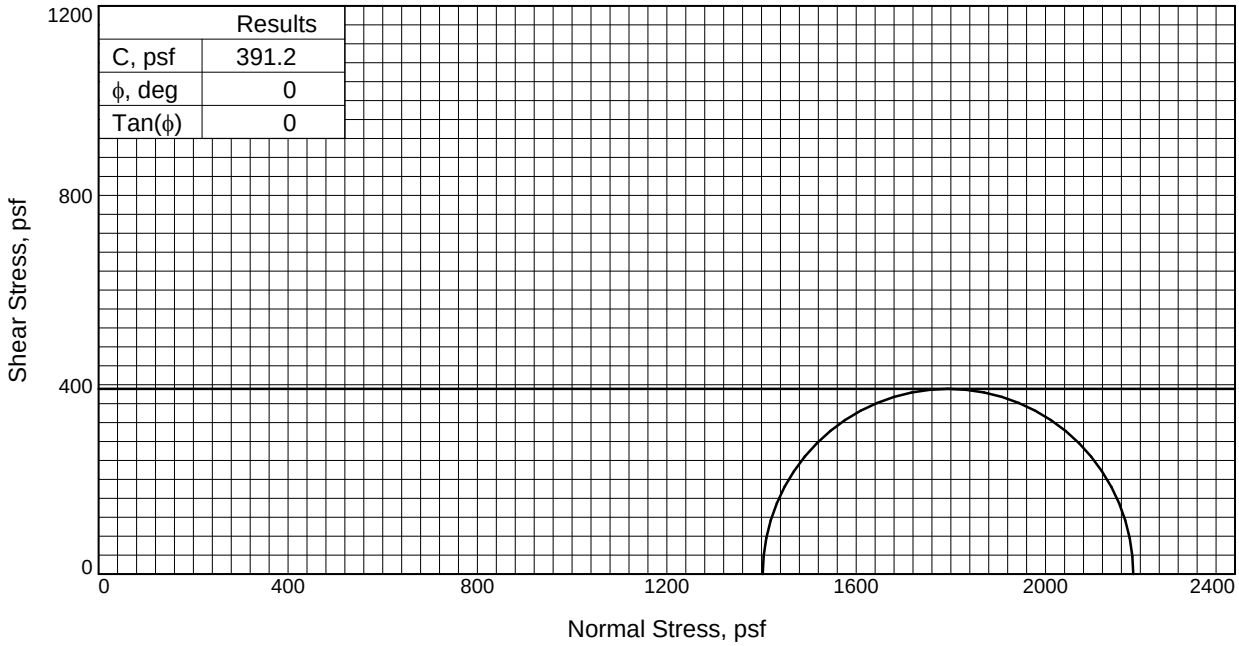


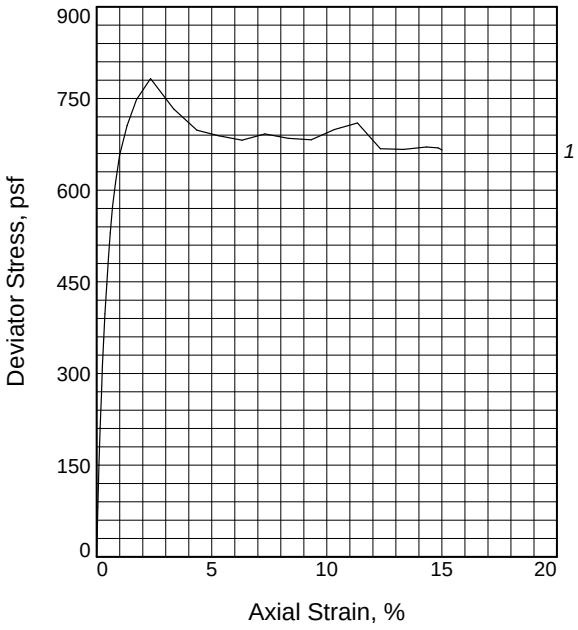




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5' **Sample Number:** BW-35 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	70.7
	Dry Density, pcf	58.1
	Saturation, %	101.3
	Void Ratio	1.8567
	Diameter, in.	2.831
	Height, in.	5.488
At Test	Water Content, %	67.4
	Dry Density, pcf	58.1
	Saturation, %	96.5
	Void Ratio	1.8567
	Diameter, in.	2.831
	Height, in.	5.488
Strain at peak, %		2.3
Back Pressure, psf		0.0
Cell Pressure, psf		1402.6
Fail. Stress, psf		782.5
Strain, %		2.3
Ult. Stress, psf		782.5
Strain, %		2.3
σ_1 Failure, psf		2185.0
σ_3 Failure, psf		1402.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(67))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

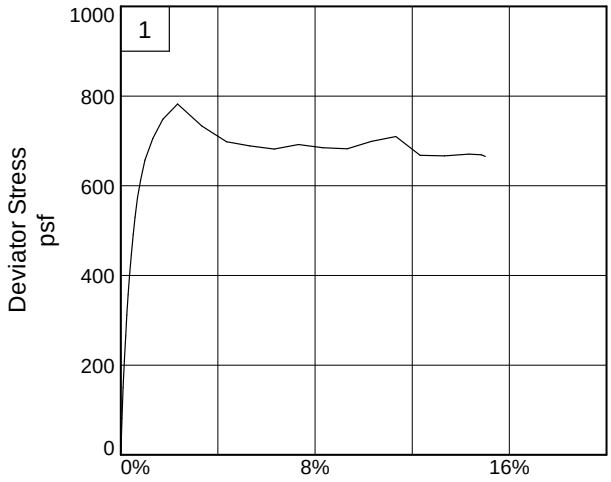
Project: Mobile River Bridge

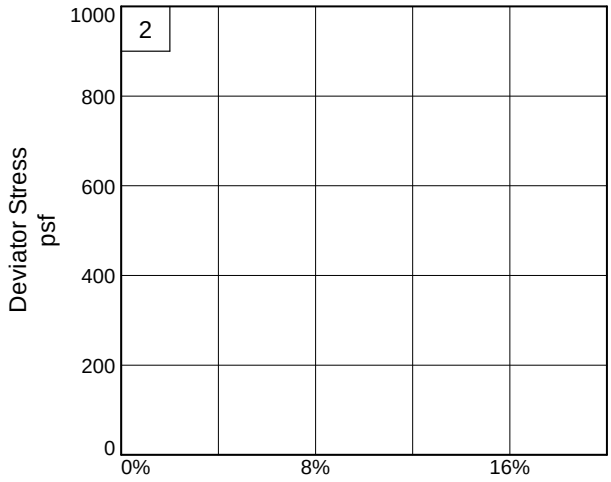
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5'

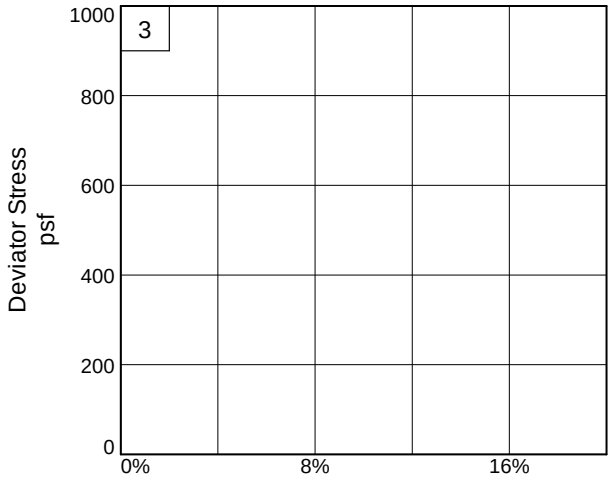
Sample Number: BW-36 T-2

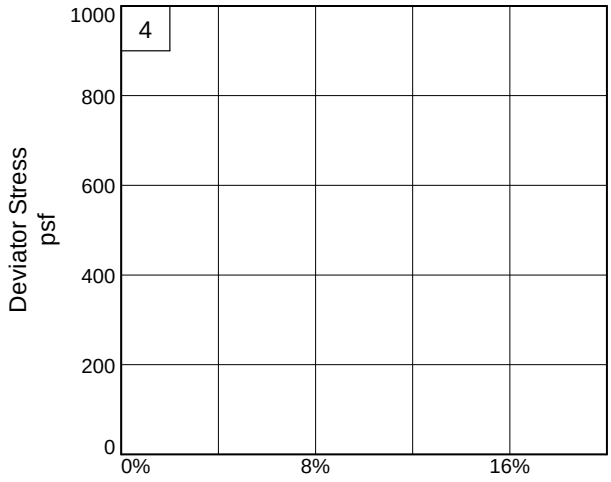
Proj. No.: 1511010228 **Date Sampled:**

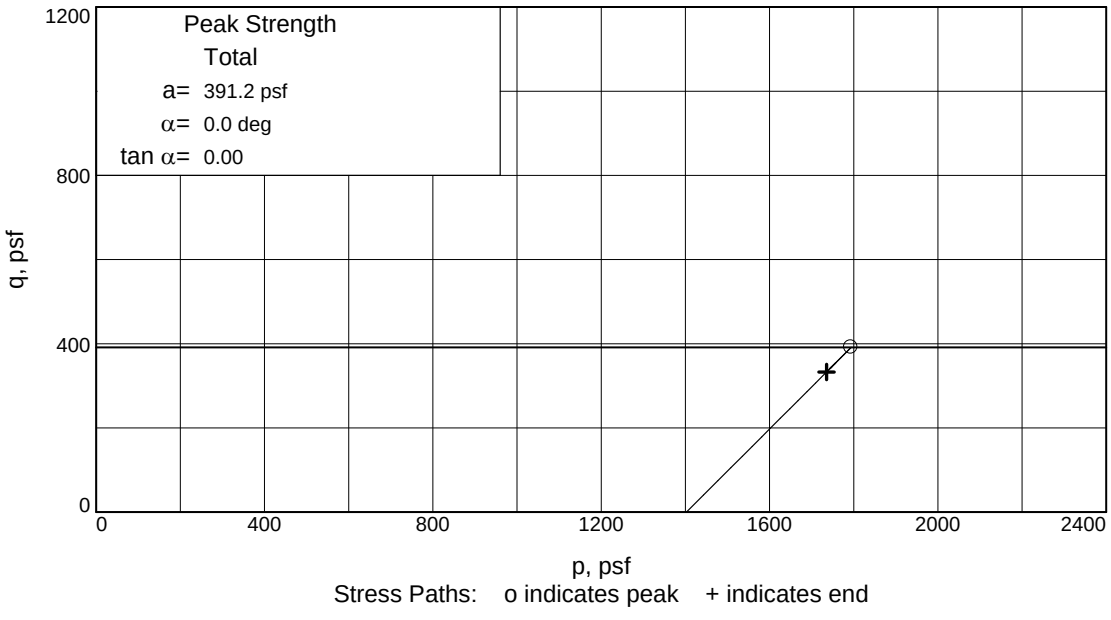
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Mobile, Alabama





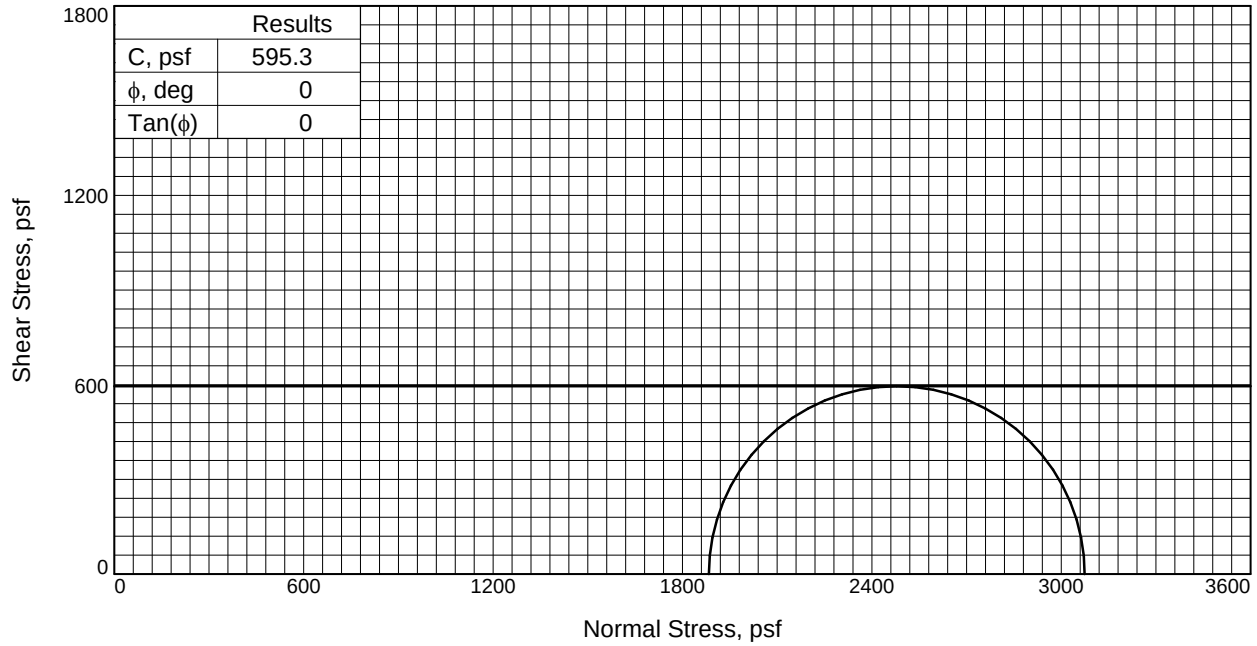


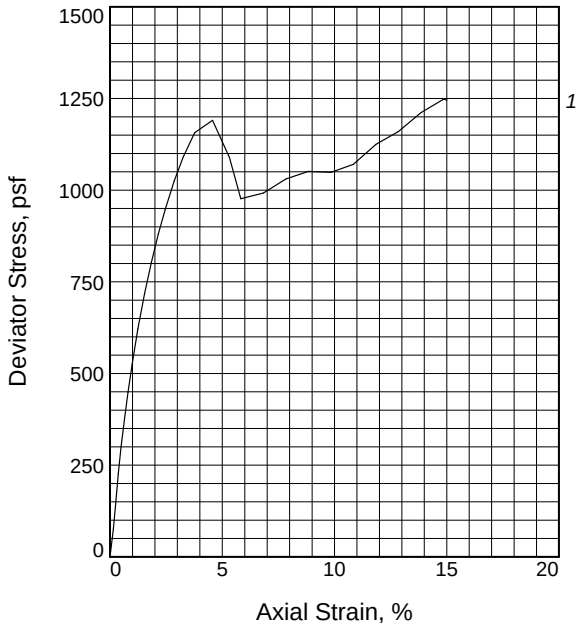




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 28.5'-30.5' **Sample Number:** BW-36 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	132.1
	Dry Density, pcf	34.3
	Saturation, %	91.3
	Void Ratio	3.8474
	Diameter, in.	2.805
	Height, in.	5.312
At Test	Water Content, %	146.9
	Dry Density, pcf	34.3
	Saturation, %	101.6
	Void Ratio	3.8474
	Diameter, in.	2.805
	Height, in.	5.312
Strain at peak, %		4.6
Back Pressure, psf		0.0
Cell Pressure, psf		1883.5
Fail. Stress, psf		1190.6
Strain, %		4.6
Ult. Stress, psf		1190.6
Strain, %		4.6
σ_1 Failure, psf		3074.1
σ_3 Failure, psf		1883.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

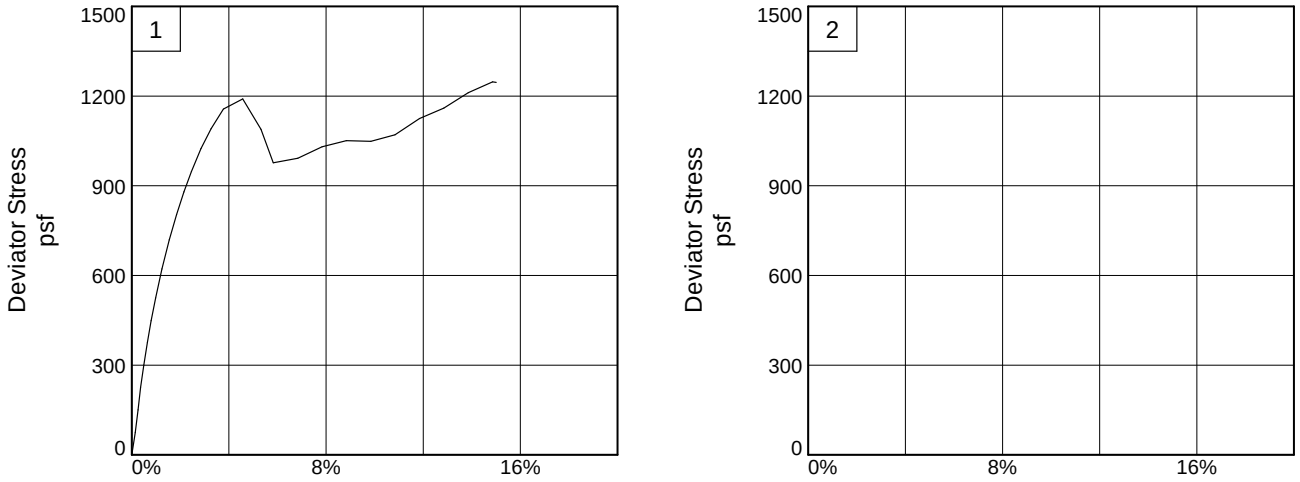
Project: Mobile River Bridge

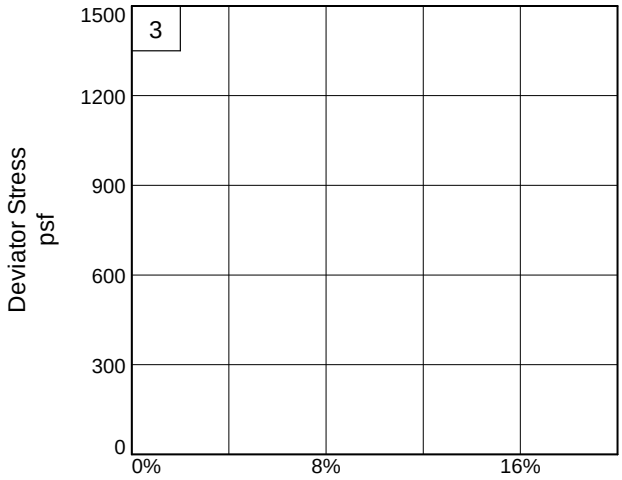
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5'

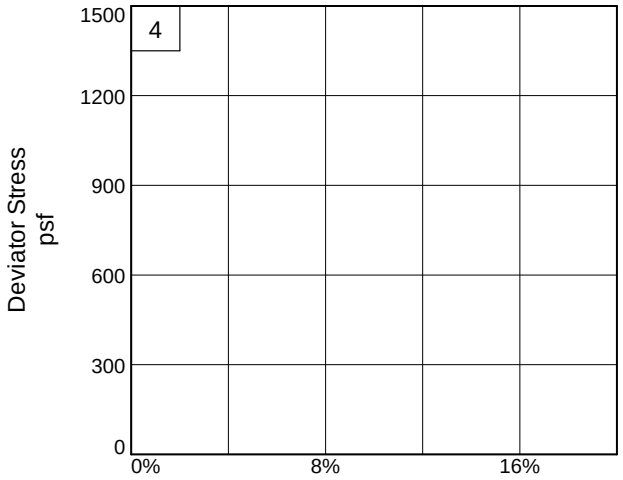
Sample Number: BW-36 T-3

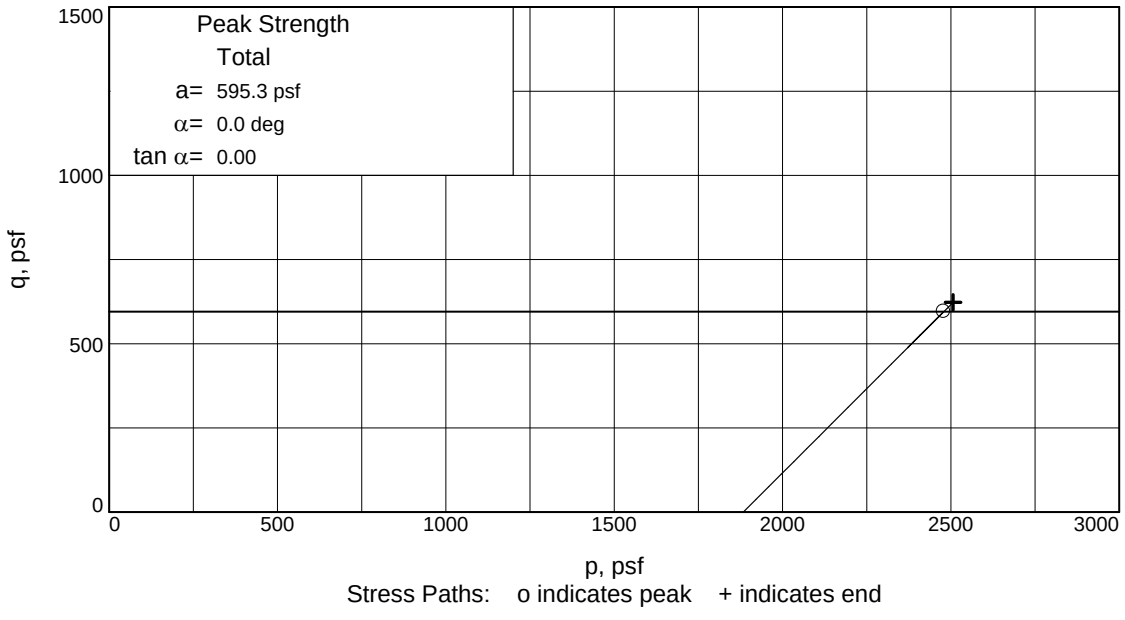
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



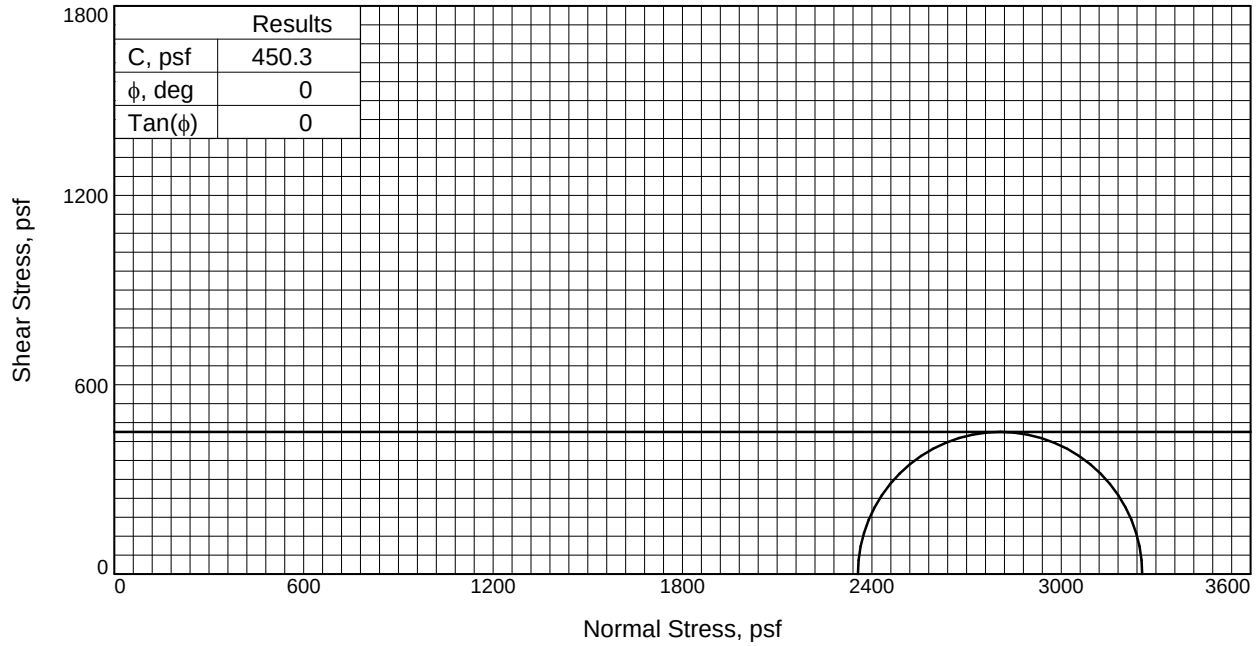


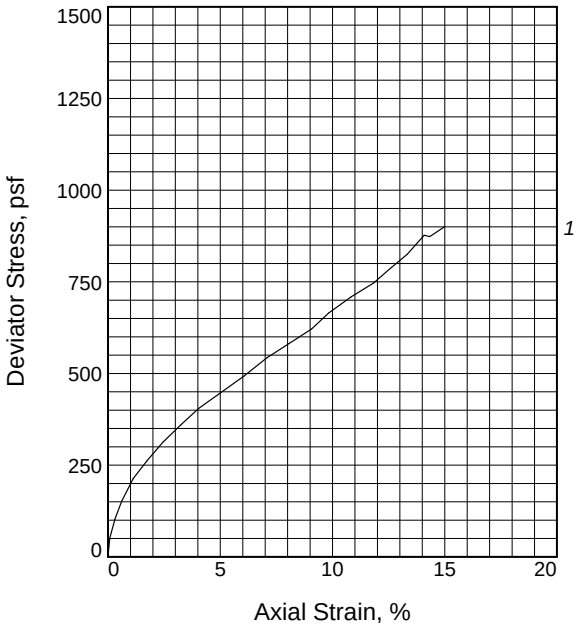




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 38.5'-40.5' **Sample Number:** BW-36 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	23.0
	Dry Density, pcf	101.3
	Saturation, %	95.6
	Void Ratio	0.6386
	Diameter, in.	2.886
	Height, in.	5.584
At Test	Water Content, %	26.5
	Dry Density, pcf	101.3
	Saturation, %	110.5
	Void Ratio	0.6386
	Diameter, in.	2.886
	Height, in.	5.584
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		2355.8
Fail. Stress, psf		900.6
Strain, %		15.0
Ult. Stress, psf		900.6
Strain, %		15.0
σ_1 Failure, psf		3256.4
σ_3 Failure, psf		2355.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

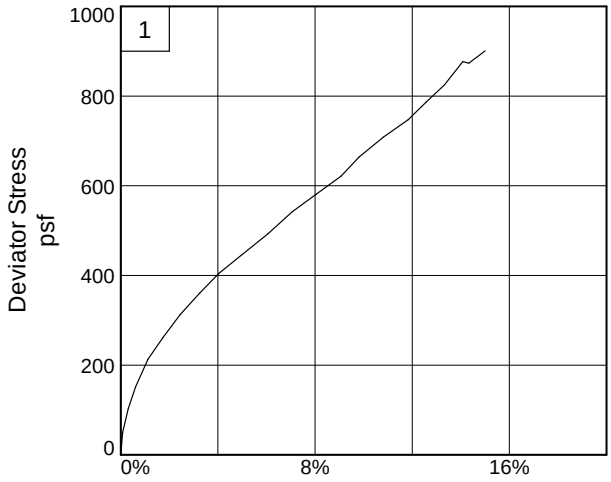
Project: Mobile River Bridge

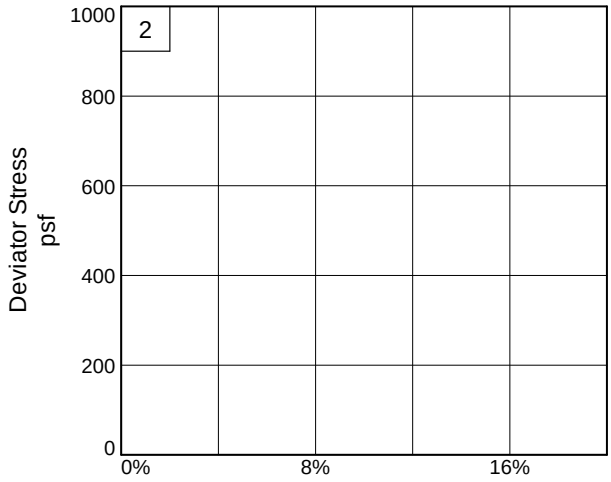
Source of Sample: Lab #7837 **Depth:** 48.5'-50.5'

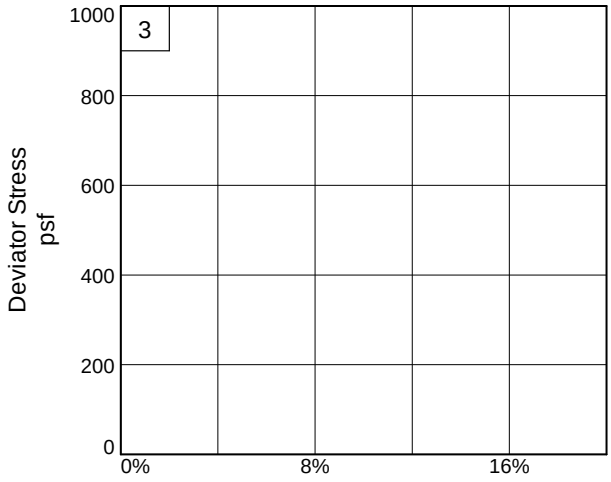
Sample Number: BW-36 T-4

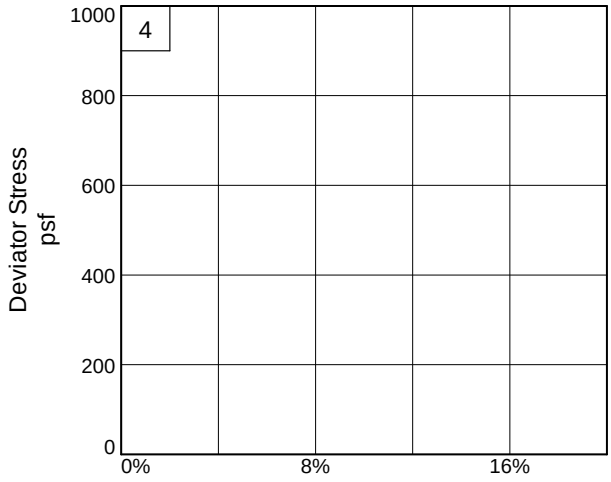
Proj. No.: 1511010228 **Date Sampled:**

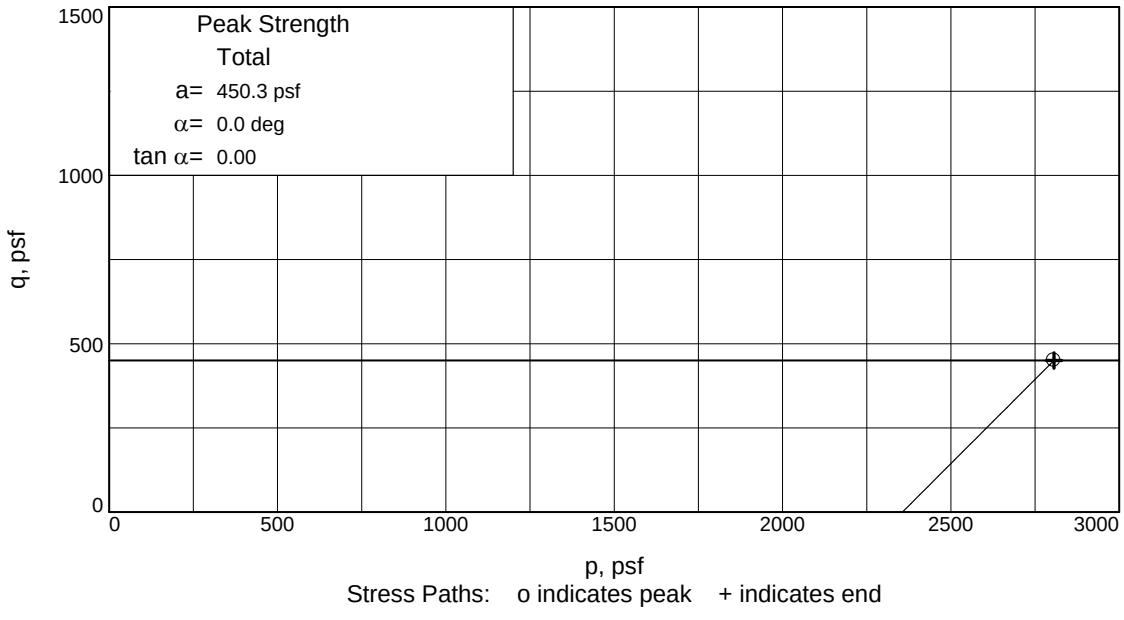
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Thompson Engineering
Mobile, Alabama





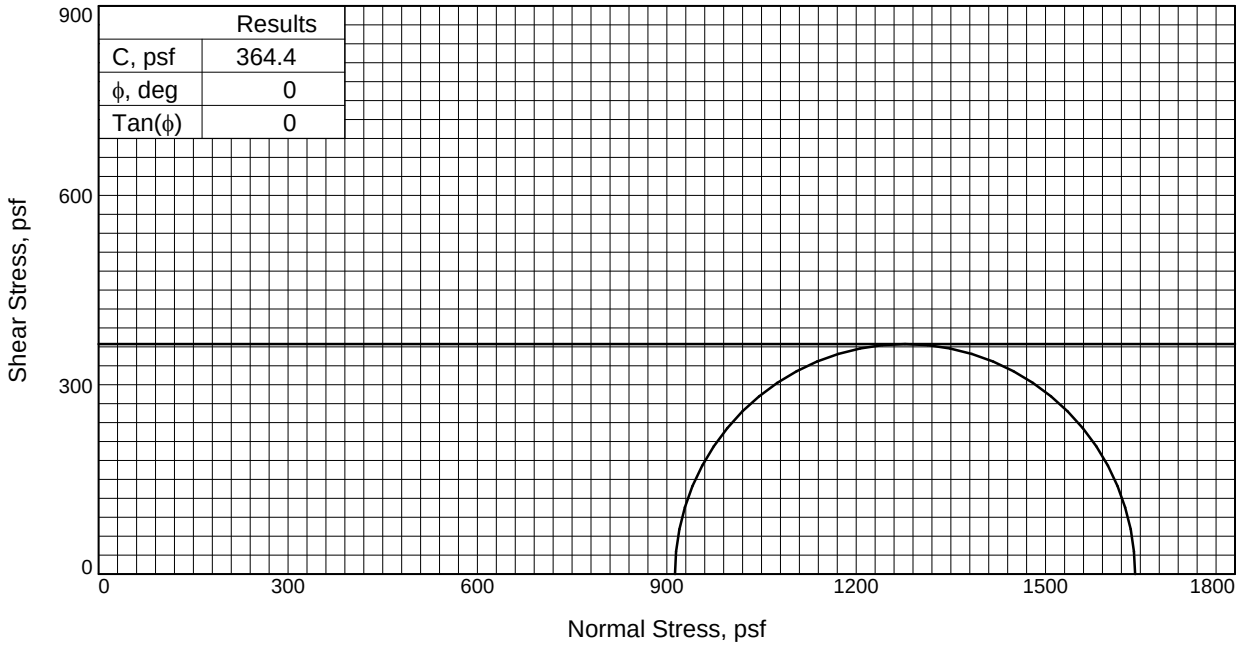


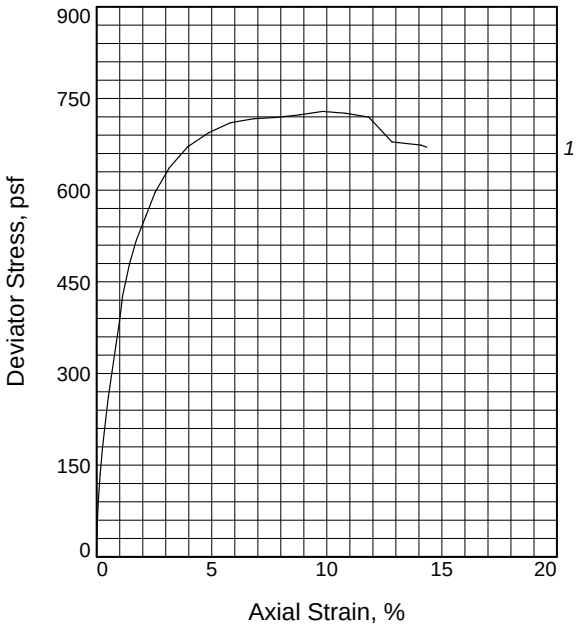




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 48.5'-50.5' **Sample Number:** BW-36 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	51.7
	Dry Density, pcf	71.2
	Saturation, %	101.5
	Void Ratio	1.3862
	Diameter, in.	2.826
	Height, in.	5.729
At Test	Water Content, %	50.7
	Dry Density, pcf	71.2
	Saturation, %	99.6
	Void Ratio	1.3862
	Diameter, in.	2.826
	Height, in.	5.729
Strain at peak, %		9.8
Back Pressure, psf		0.0
Cell Pressure, psf		913.0
Fail. Stress, psf		728.8
Strain, %		9.8
Ult. Stress, psf		728.8
Strain, %		9.8
σ_1 Failure, psf		1641.8
σ_3 Failure, psf		913.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(35))

Specific Gravity= 2.720

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

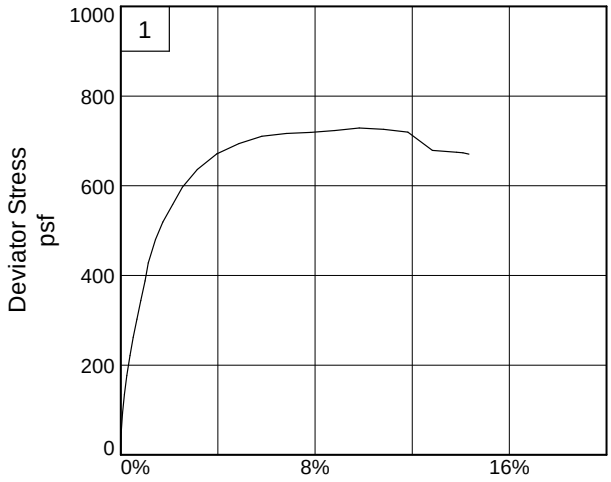
Project: Mobile River Bridge

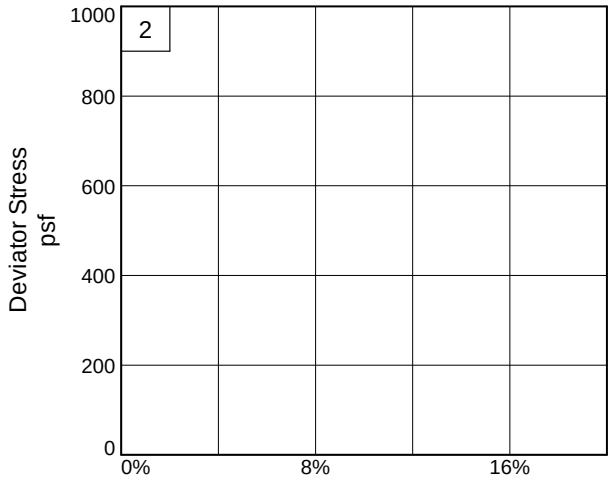
Source of Sample: Lab #7837 **Depth:** 18.0'-20.0'

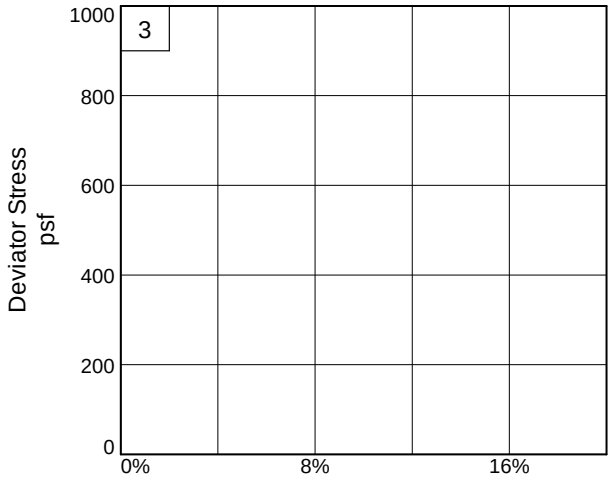
Sample Number: BW-37 T-1

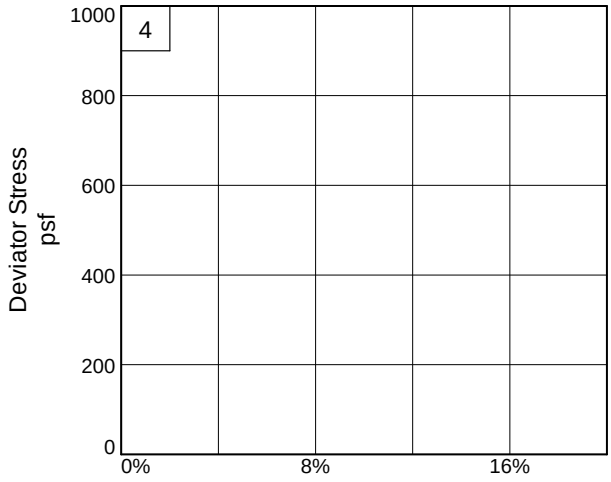
Proj. No.: 1511010228 **Date Sampled:**

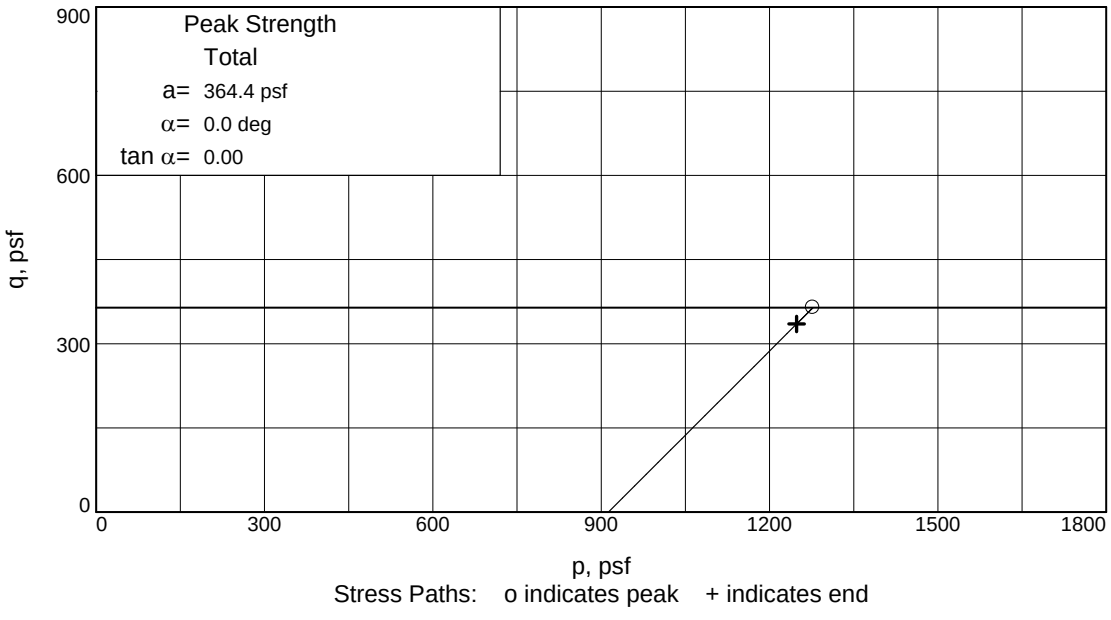
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Mobile, Alabama





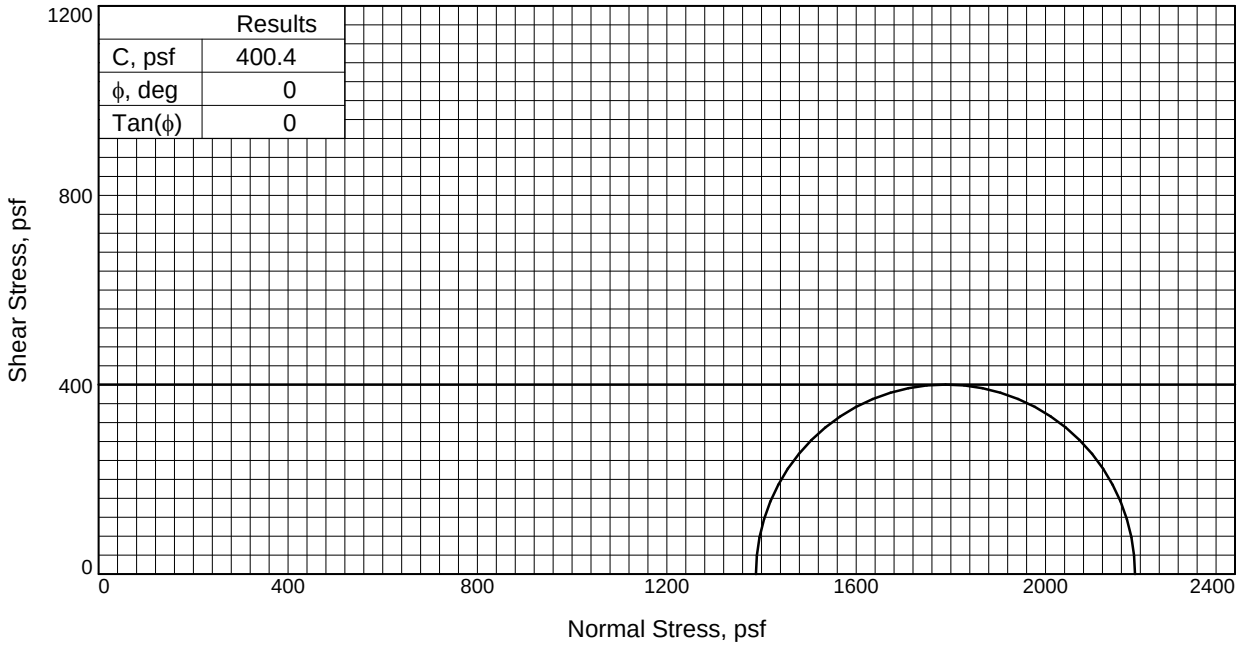


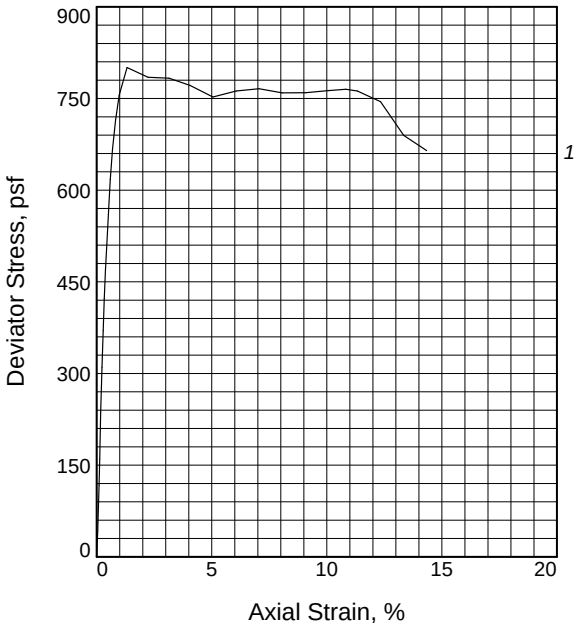




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 18.0'-20.0' **Sample Number:** BW-37 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	72.1
	Dry Density, pcf	58.1
	Saturation, %	102.4
	Void Ratio	1.9005
	Diameter, in.	2.811
	Height, in.	5.524
At Test	Water Content, %	73.2
	Dry Density, pcf	58.1
	Saturation, %	103.9
	Void Ratio	1.9005
	Diameter, in.	2.811
	Height, in.	5.524
Strain at peak, %		1.3
Back Pressure, psf		0.0
Cell Pressure, psf		1388.2
Fail. Stress, psf		800.8
Strain, %		1.3
Ult. Stress, psf		800.8
Strain, %		1.3
σ_1 Failure, psf		2188.9
σ_3 Failure, psf		1388.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(86))

Specific Gravity= 2.699

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

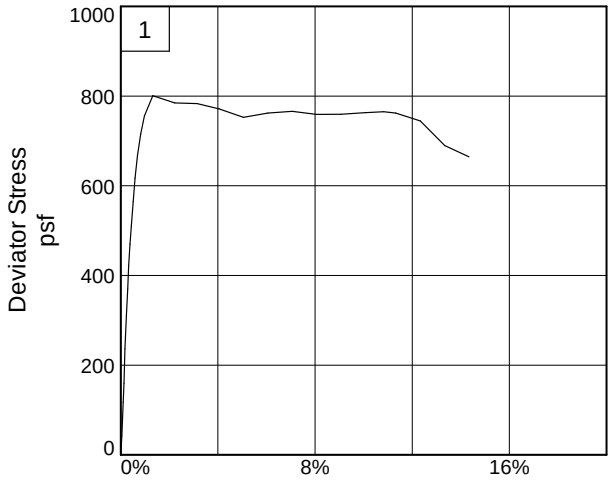
Project: Mobile River Bridge

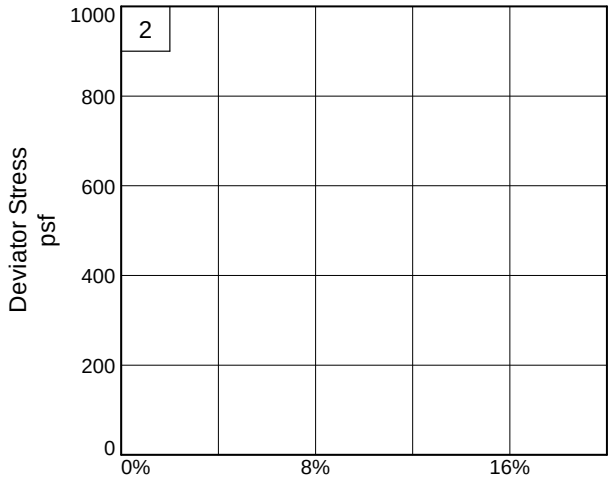
Source of Sample: Lab #7837 **Depth:** 28.0'-30.0'

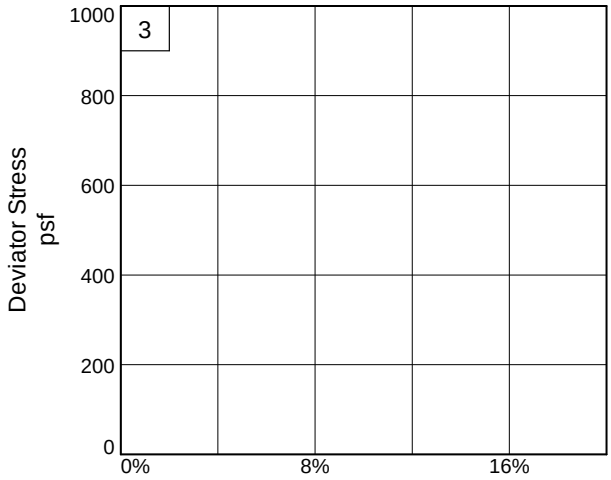
Sample Number: BW-37 T-2

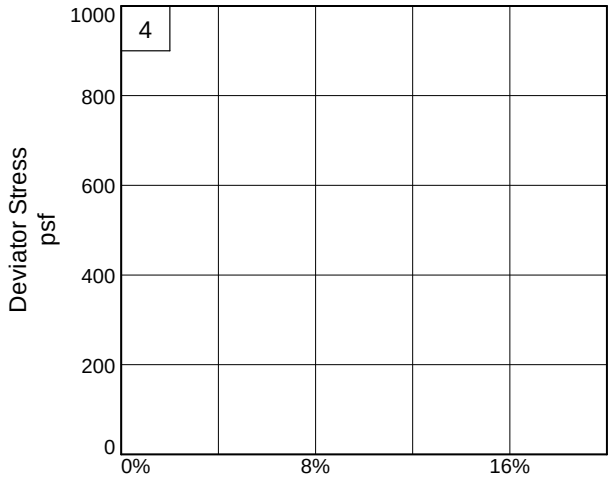
Proj. No.: 1511010228 **Date Sampled:**

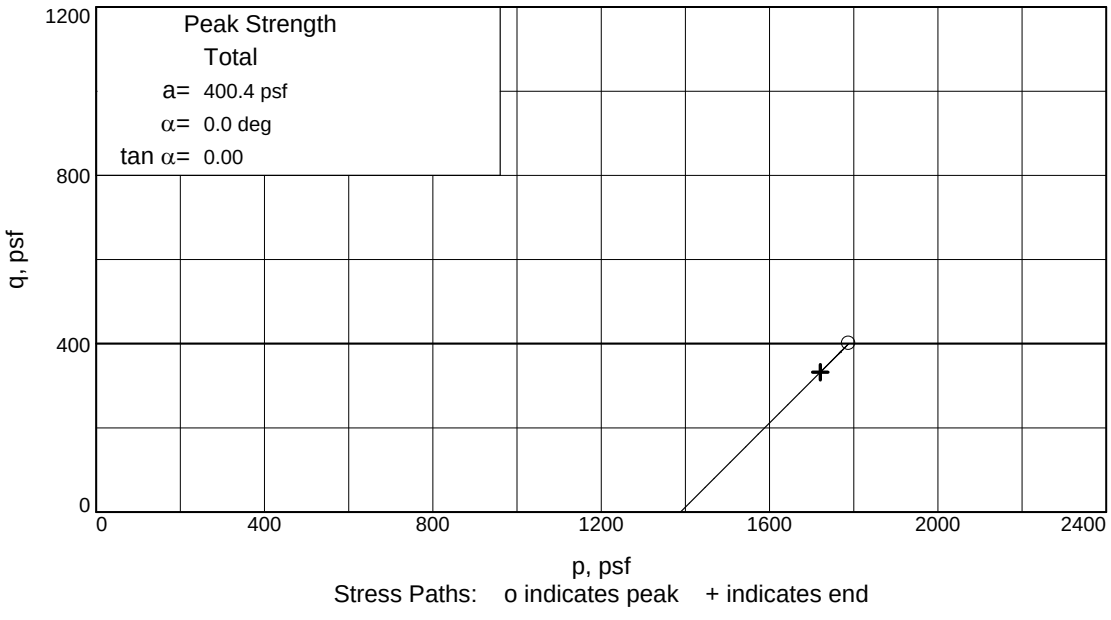
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Mobile, Alabama





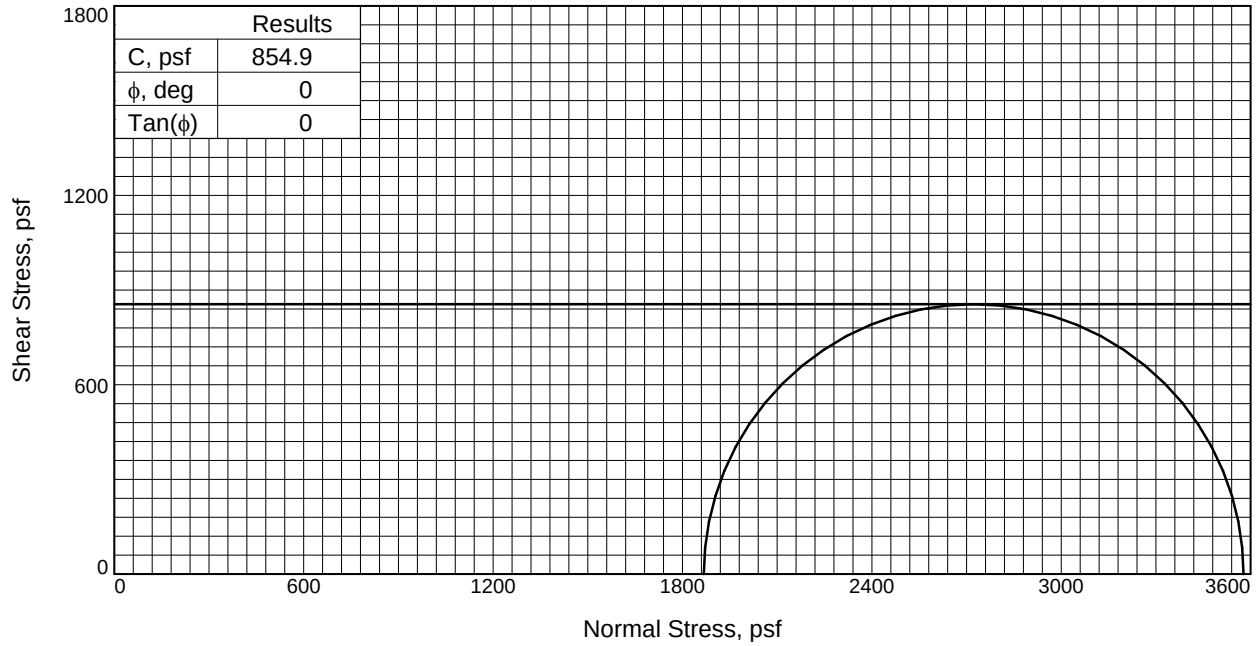


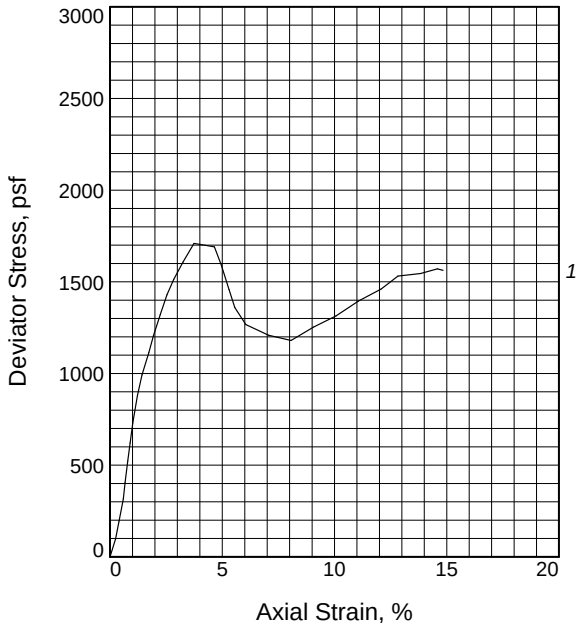




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 28.0'-30.0' **Sample Number:** BW-37 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	130.9
	Dry Density, pcf	36.9
	Saturation, %	99.5
	Void Ratio	3.4984
	Diameter, in.	2.790
	Height, in.	5.578
At Test	Water Content, %	110.2
	Dry Density, pcf	36.9
	Saturation, %	83.8
	Void Ratio	3.4984
	Diameter, in.	2.790
	Height, in.	5.578
Strain at peak, %		3.7
Back Pressure, psf		0.0
Cell Pressure, psf		1867.7
Fail. Stress, psf		1709.9
Strain, %		3.7
Ult. Stress, psf		1709.9
Strain, %		3.7
σ_1 Failure, psf		3577.6
σ_3 Failure, psf		1867.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

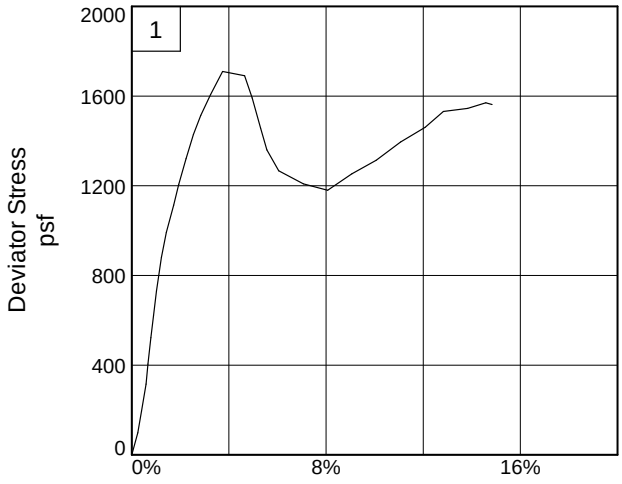
Project: Mobile River Bridge

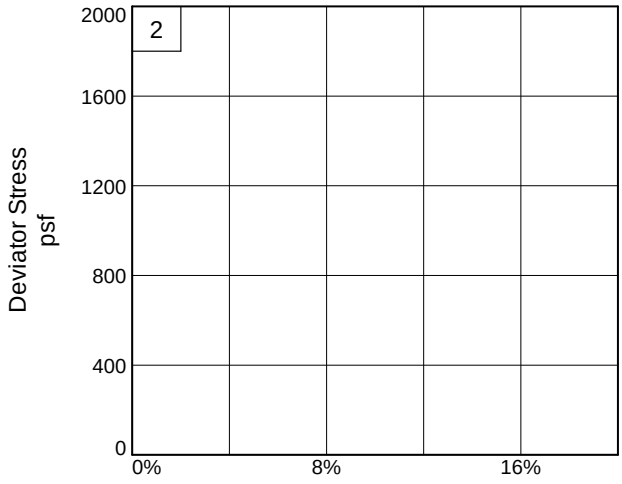
Source of Sample: Lab #7837 **Depth:** 38.0'-40.0'

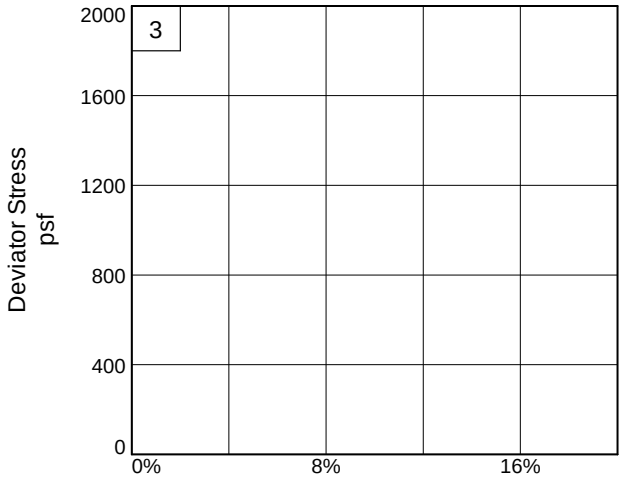
Sample Number: BW-37 T-3

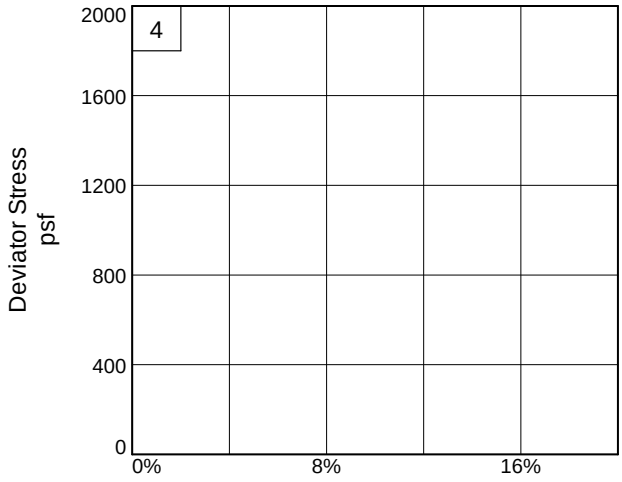
Proj. No.: 1511010228 **Date Sampled:**

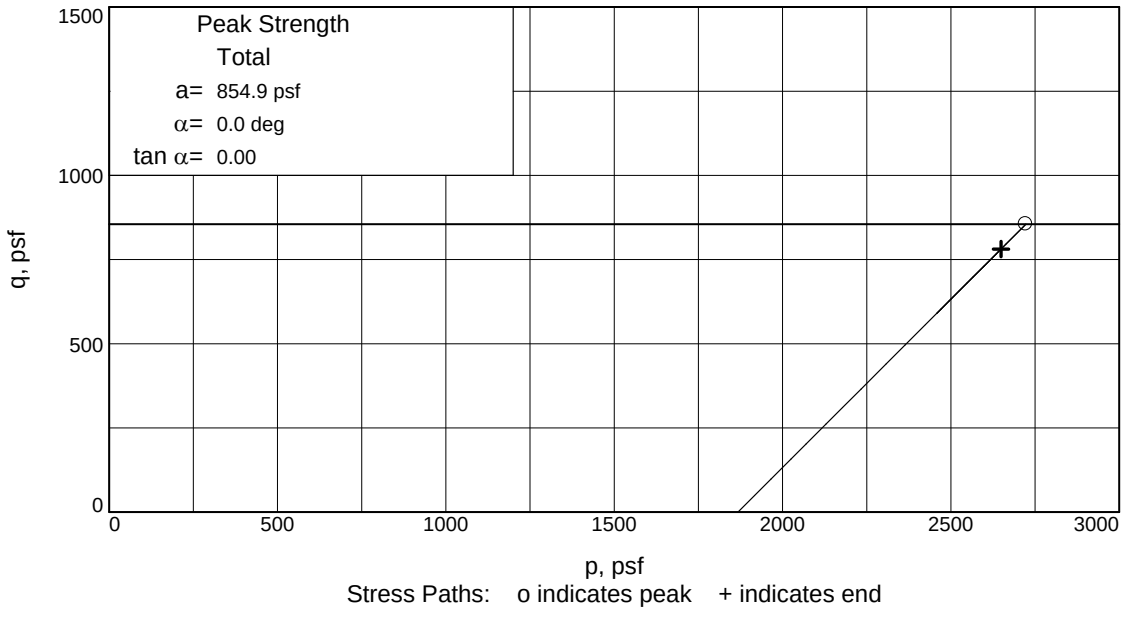
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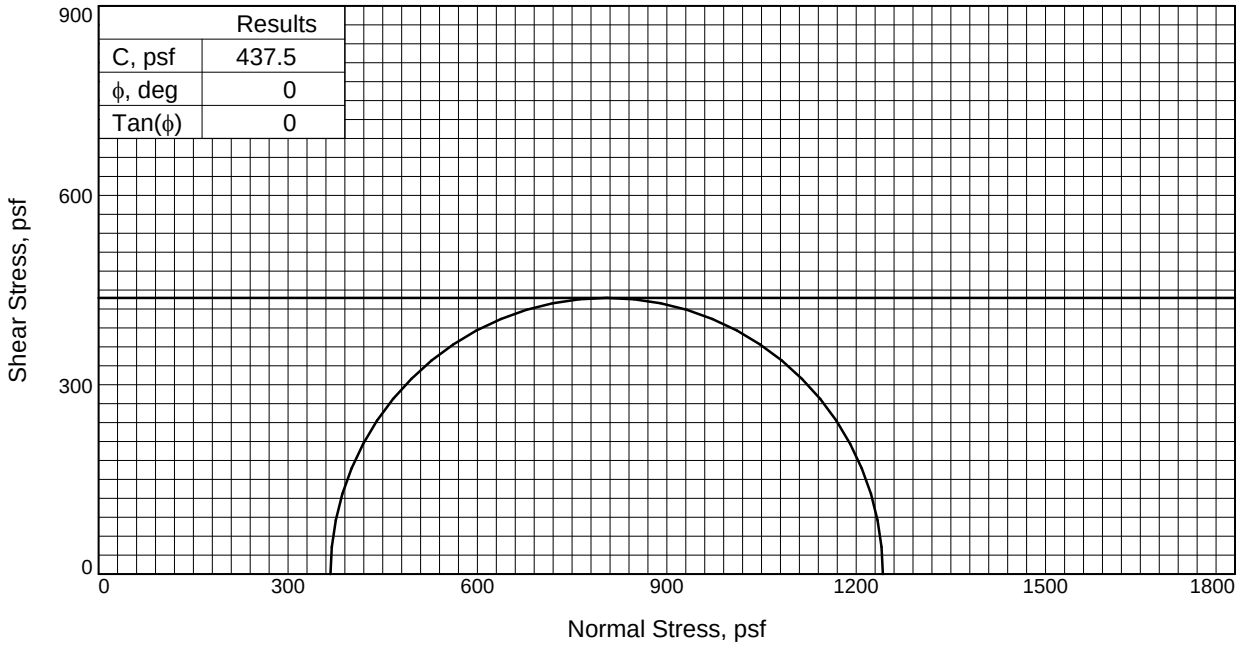


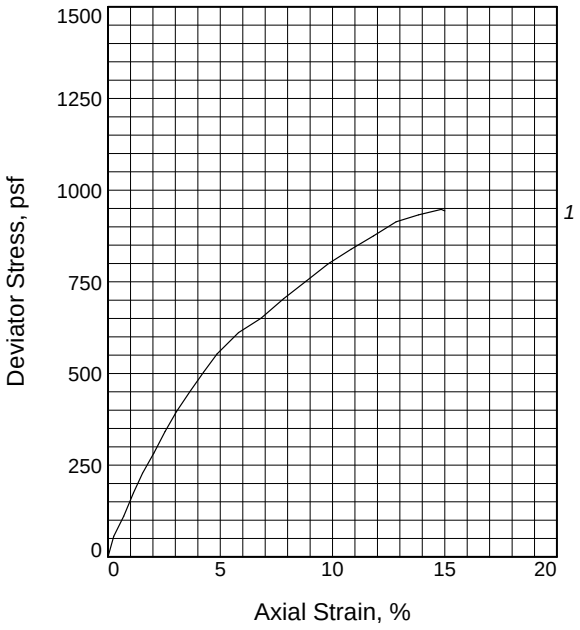




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 38.0'-40.0' **Sample Number:** BW-37 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	33.1
	Dry Density, pcf	89.7
	Saturation, %	103.2
	Void Ratio	0.8516
	Diameter, in.	2.780
	Height, in.	5.154
At Test	Water Content, %	34.0
	Dry Density, pcf	89.7
	Saturation, %	106.2
	Void Ratio	0.8516
	Diameter, in.	2.780
	Height, in.	5.154
Strain at peak, %		11.8
Back Pressure, psf		0.0
Cell Pressure, psf		367.2
Fail. Stress, psf		875.0
Strain, %		11.8
Ult. Stress, psf		875.0
Strain, %		11.8
σ_1 Failure, psf		1242.2
σ_3 Failure, psf		367.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

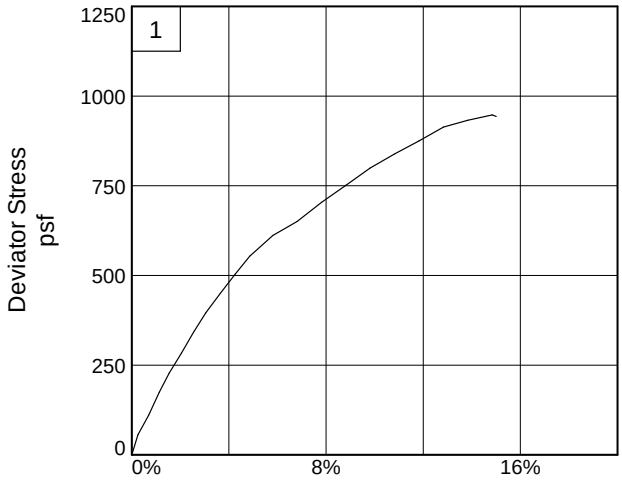
Project: Mobile River Bridge

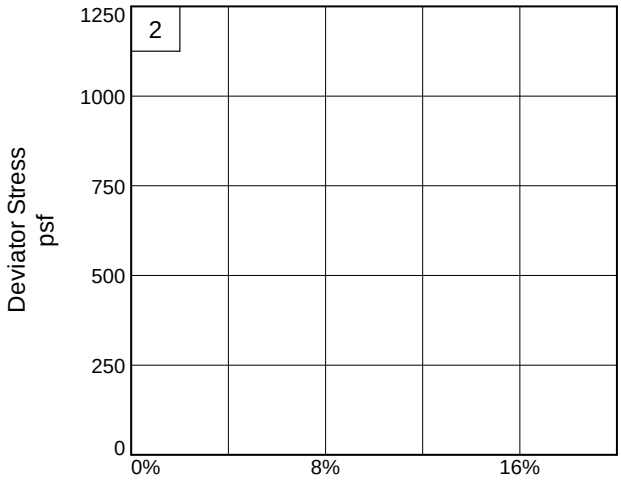
Source of Sample: Lab #7985 **Depth:** 8.0'-10.0'

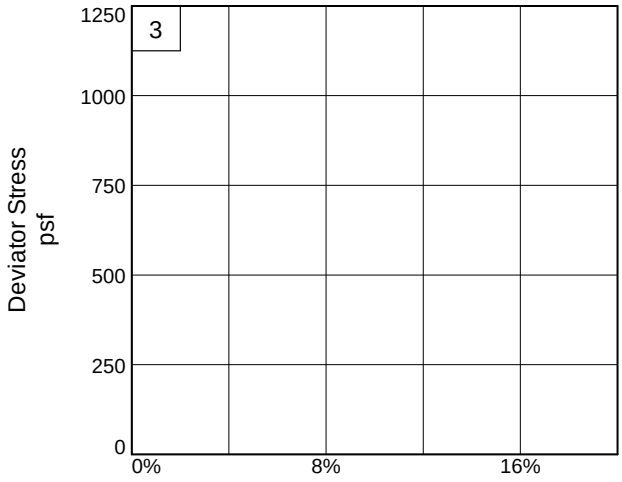
Sample Number: BW-38 T-1

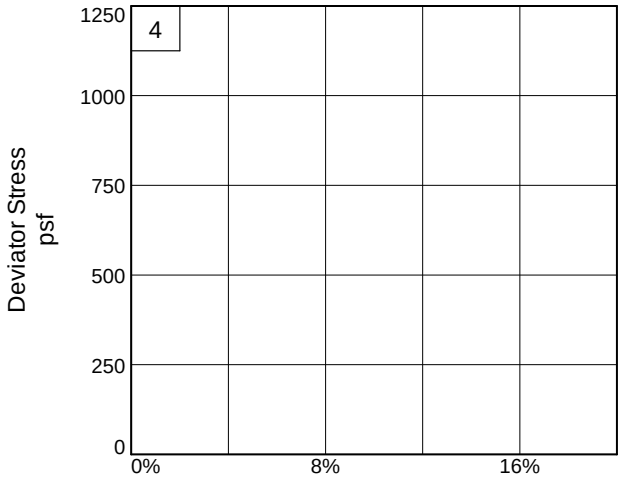
Proj. No.: 1511010228 **Date Sampled:**

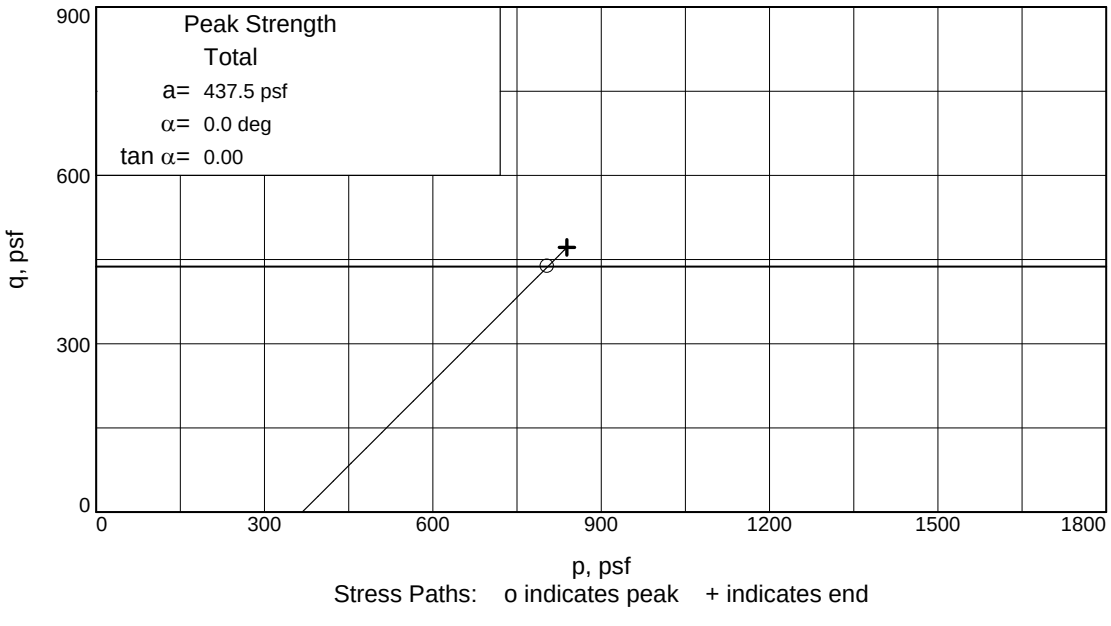
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Mobile, Alabama







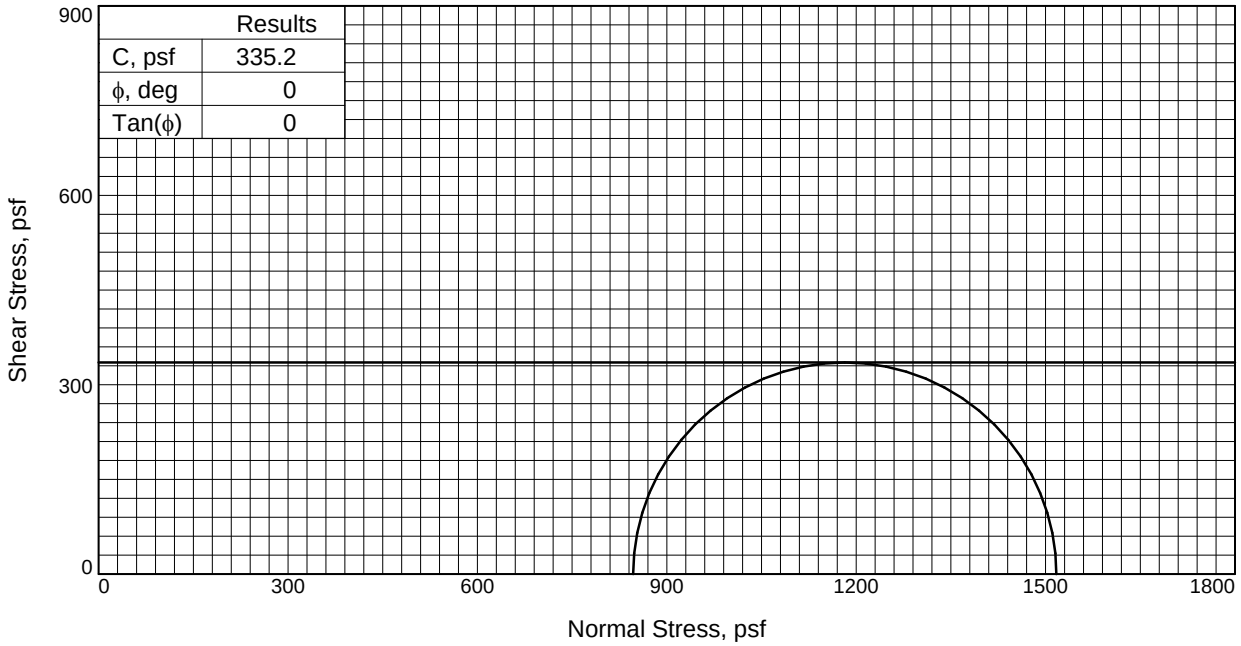


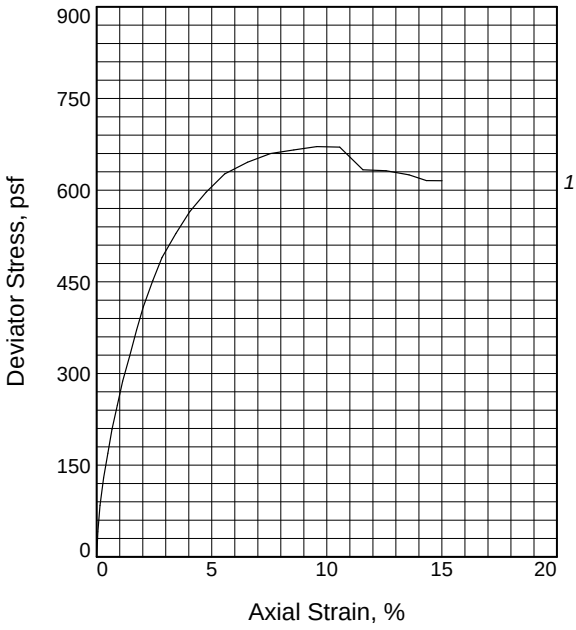


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 8.0'-10.0' **Sample Number:** BW-38 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	50.0
	Dry Density, pcf	73.2
	Saturation, %	104.9
	Void Ratio	1.2688
	Diameter, in.	2.786
	Height, in.	5.411
At Test	Water Content, %	54.4
	Dry Density, pcf	73.2
	Saturation, %	114.0
	Void Ratio	1.2688
	Diameter, in.	2.786
	Height, in.	5.411
Strain at peak, %		10.6
Back Pressure, psf		0.0
Cell Pressure, psf		846.7
Fail. Stress, psf		670.3
Strain, %		10.6
Ult. Stress, psf		670.3
Strain, %		10.6
σ_1 Failure, psf		1517.1
σ_3 Failure, psf		846.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(56))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

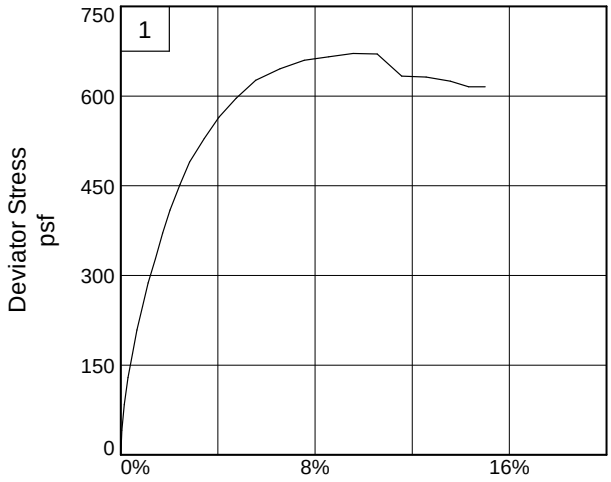
Project: Mobile River Bridge

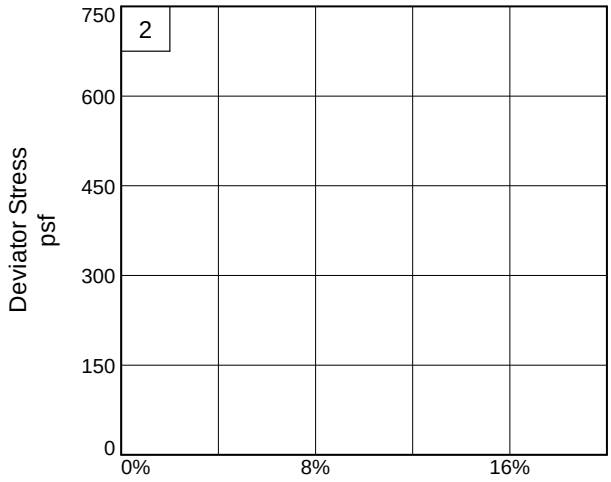
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0'

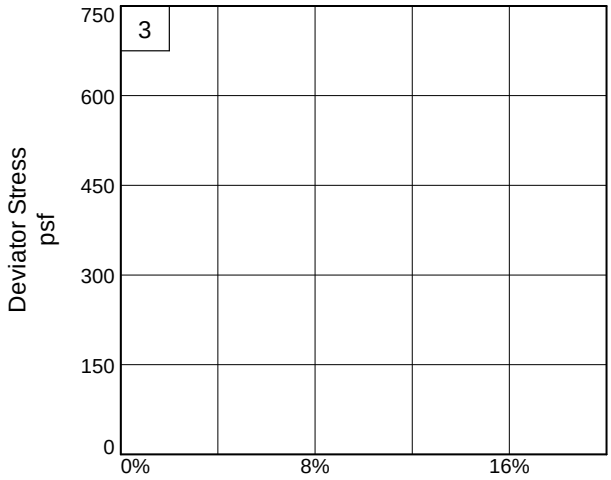
Sample Number: BW-38 T-2

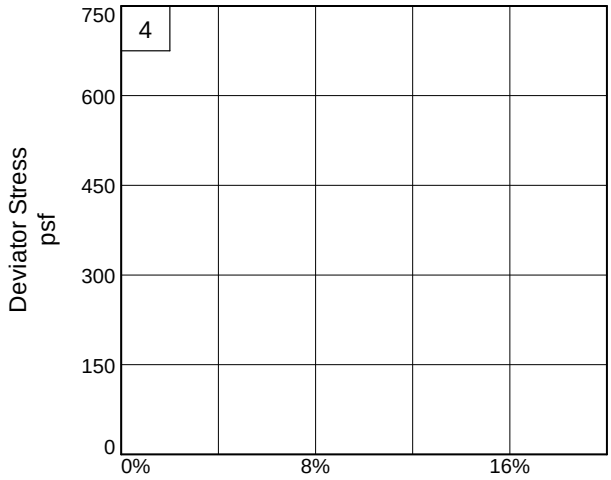
Proj. No.: 1511010228 **Date Sampled:**

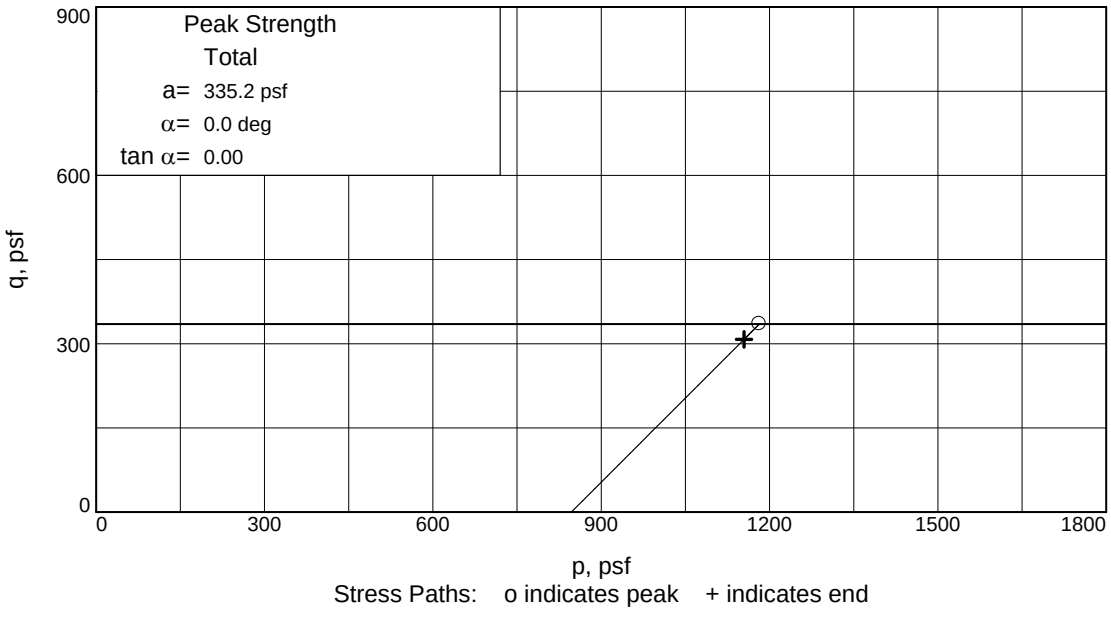
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Thompson Engineering
Mobile, Alabama





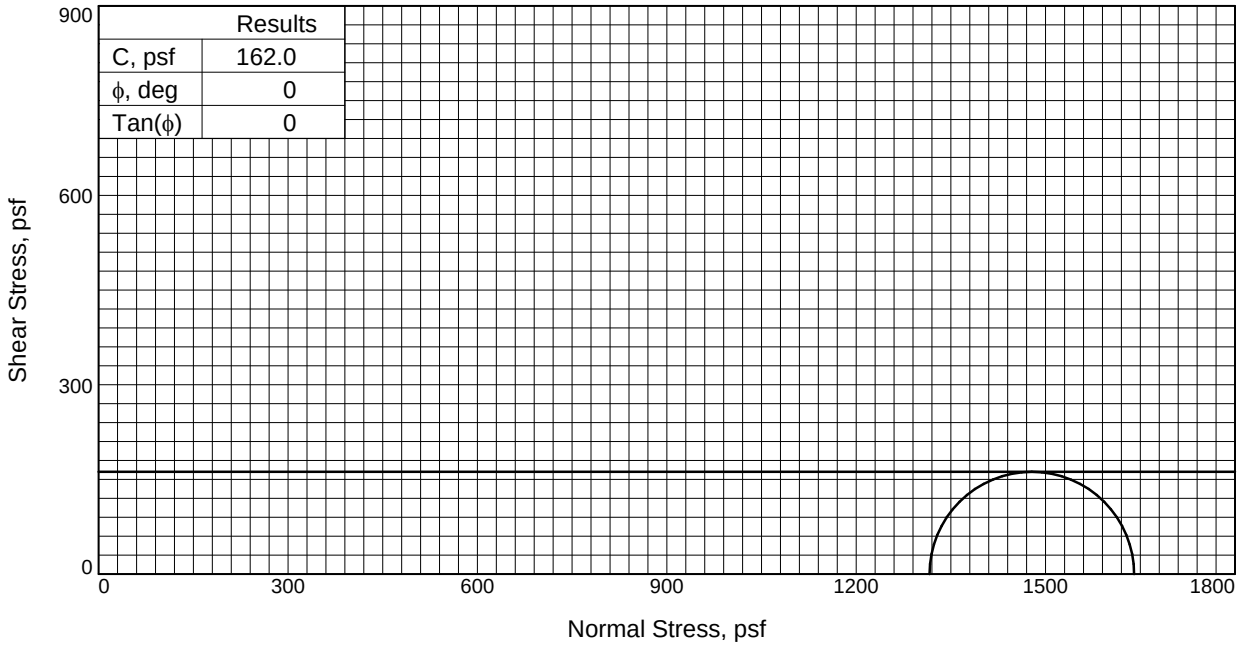


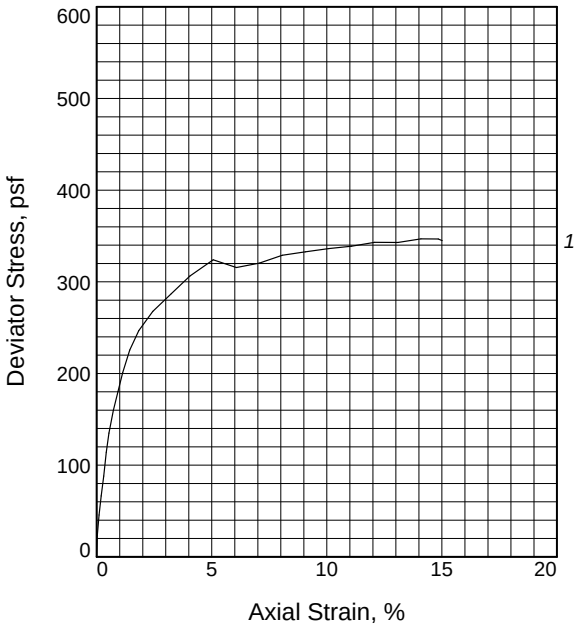




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 18.0'-20.0' **Sample Number:** BW-38 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	69.6
	Dry Density, pcf	60.9
	Saturation, %	107.1
	Void Ratio	1.7287
	Diameter, in.	2.809
	Height, in.	5.354
At Test	Water Content, %	67.0
	Dry Density, pcf	60.9
	Saturation, %	103.1
	Void Ratio	1.7287
	Diameter, in.	2.809
	Height, in.	5.354
Strain at peak, %		5.1
Back Pressure, psf		0.0
Cell Pressure, psf		1316.2
Fail. Stress, psf		324.1
Strain, %		5.1
Ult. Stress, psf		324.1
Strain, %		5.1
σ_1 Failure, psf		1640.2
σ_3 Failure, psf		1316.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(79))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

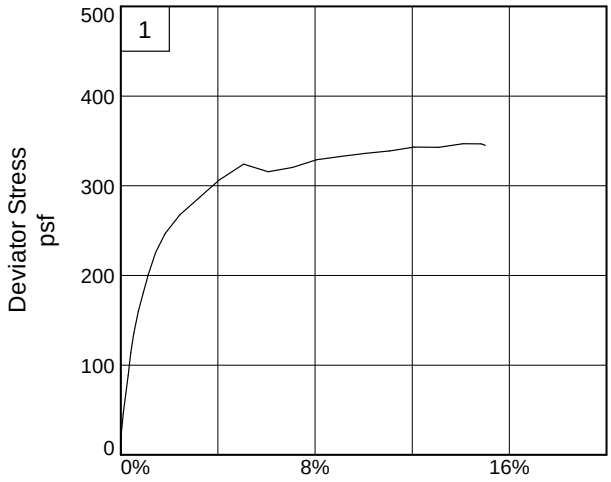
Project: Mobile River Bridge

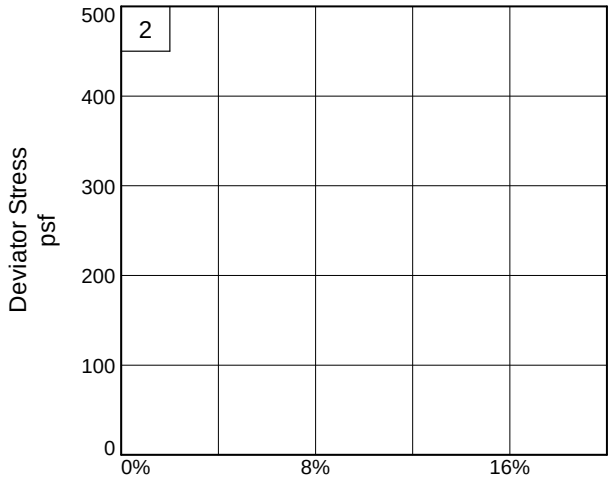
Source of Sample: Lab #7985 **Depth:** 28.0'-30.0'

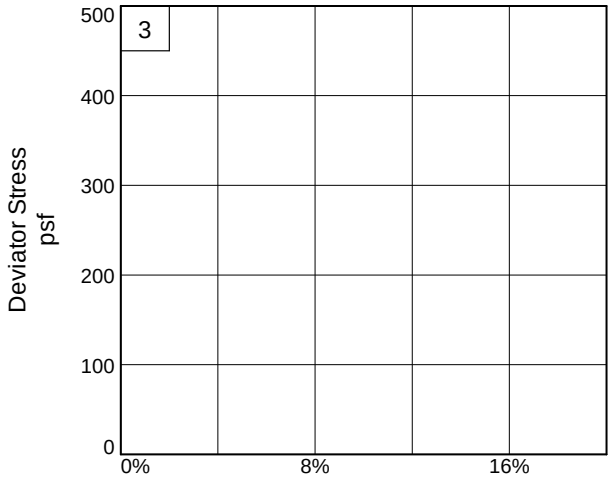
Sample Number: BW-38 T-3

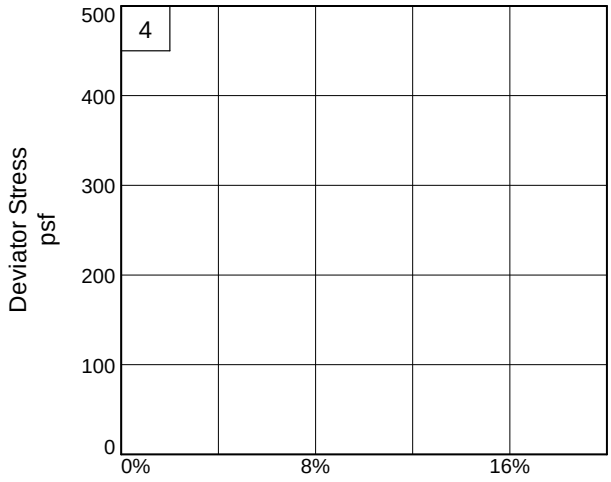
Proj. No.: 1511010228 **Date Sampled:**

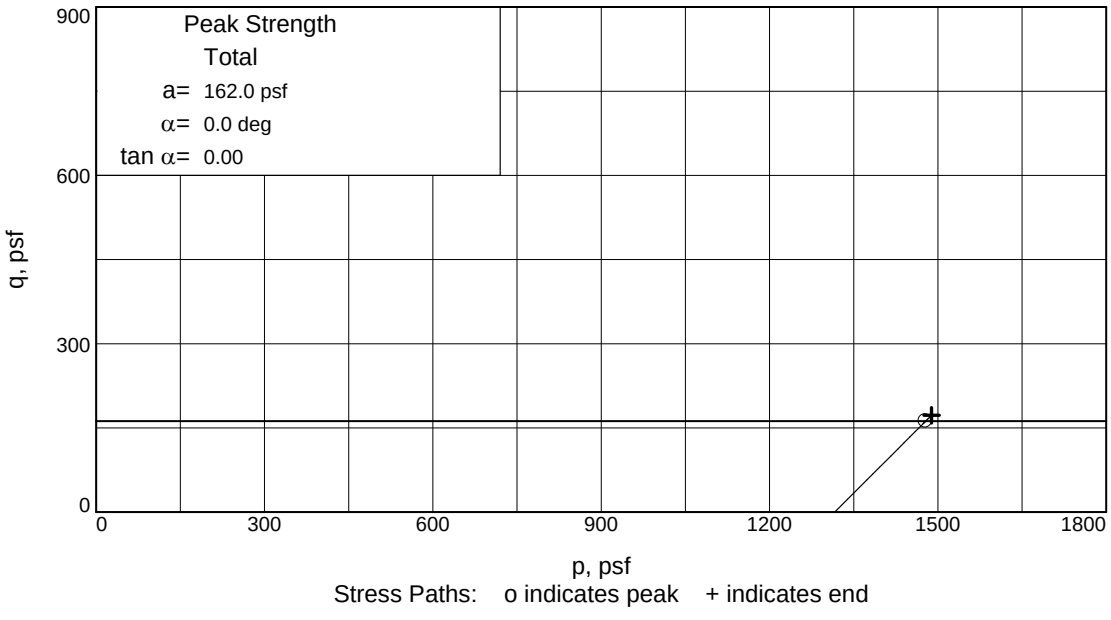
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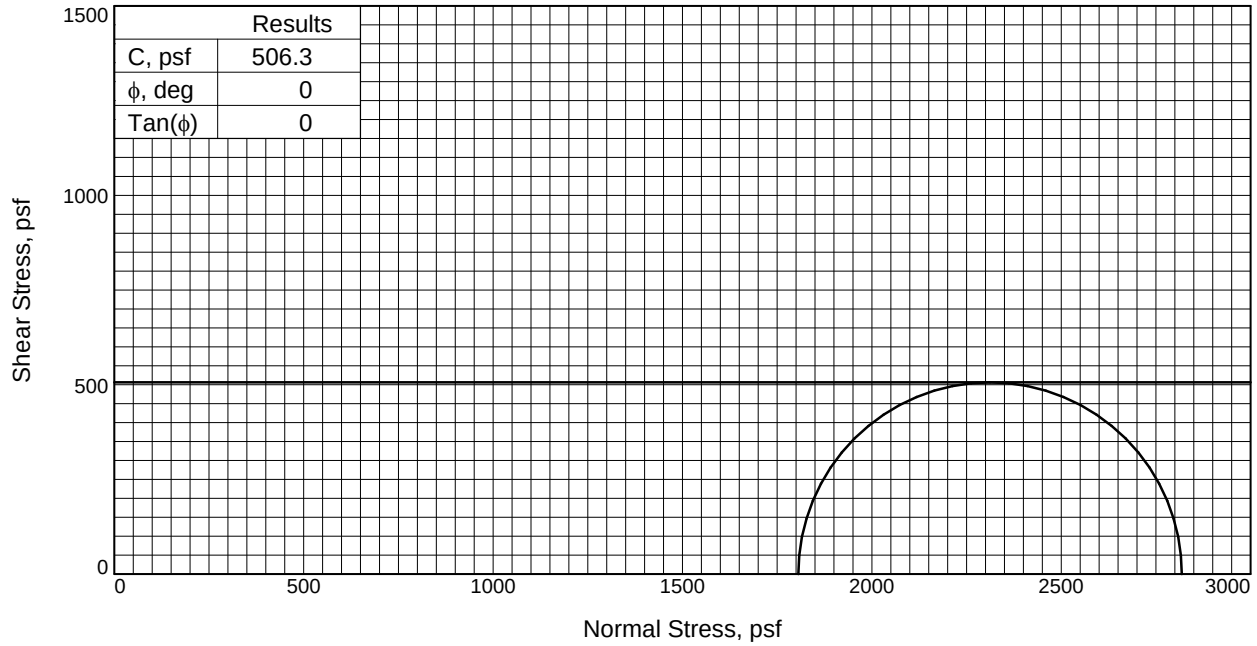


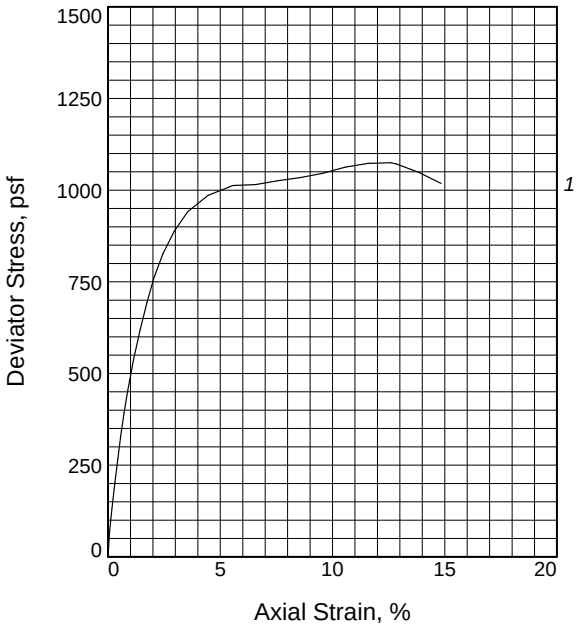




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 28.0'-30.0' **Sample Number:** BW-38 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	116.2
	Dry Density, pcf	41.4
	Saturation, %	102.6
	Void Ratio	3.0132
	Diameter, in.	2.816
	Height, in.	5.560
At Test	Water Content, %	86.8
	Dry Density, pcf	41.4
	Saturation, %	76.6
	Void Ratio	3.0132
	Diameter, in.	2.816
	Height, in.	5.560
Strain at peak, %		5.6
Back Pressure, psf		0.0
Cell Pressure, psf		1805.8
Fail. Stress, psf		1012.5
Strain, %		5.6
Ult. Stress, psf		1012.5
Strain, %		5.6
σ_1 Failure, psf		2818.3
σ_3 Failure, psf		1805.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(82))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

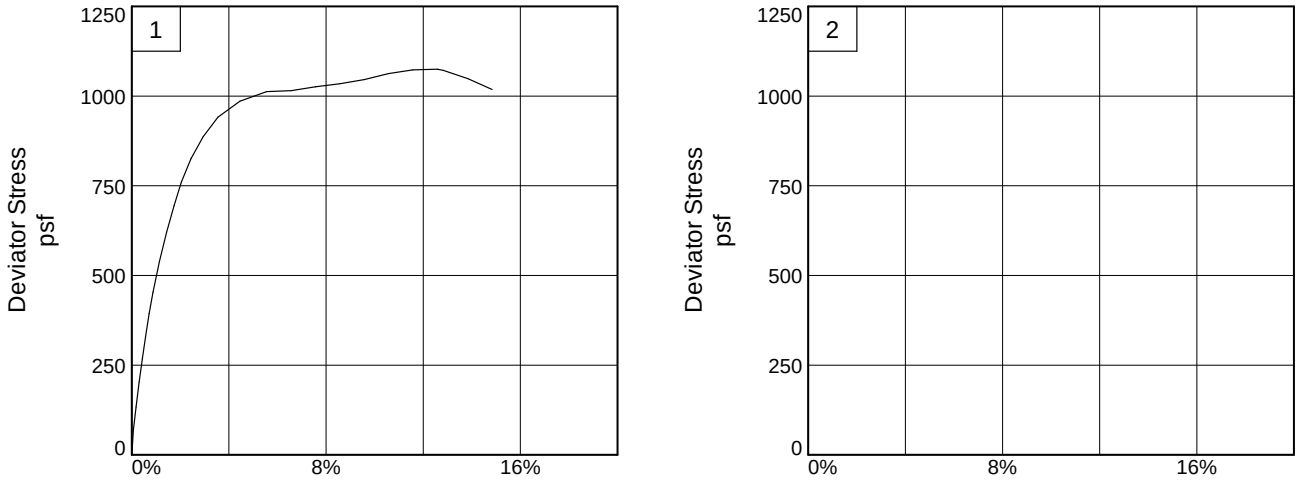
Project: Mobile River Bridge

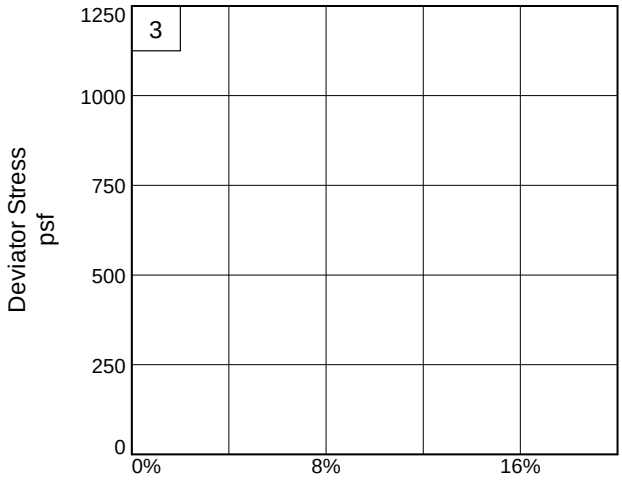
Source of Sample: Lab #7985 **Depth:** 38.0'-40.0'

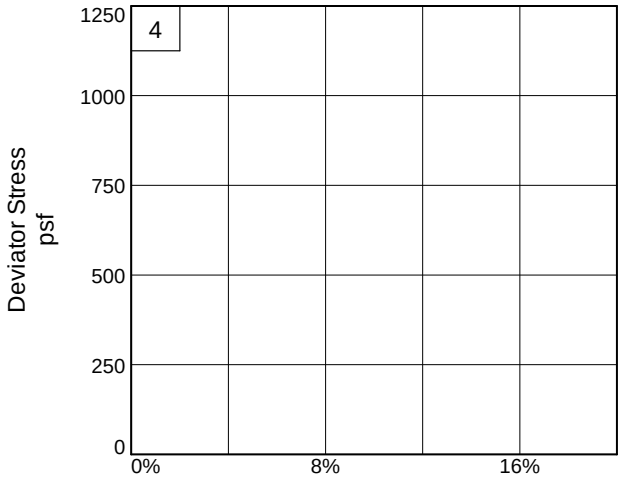
Sample Number: BW-38 T-4

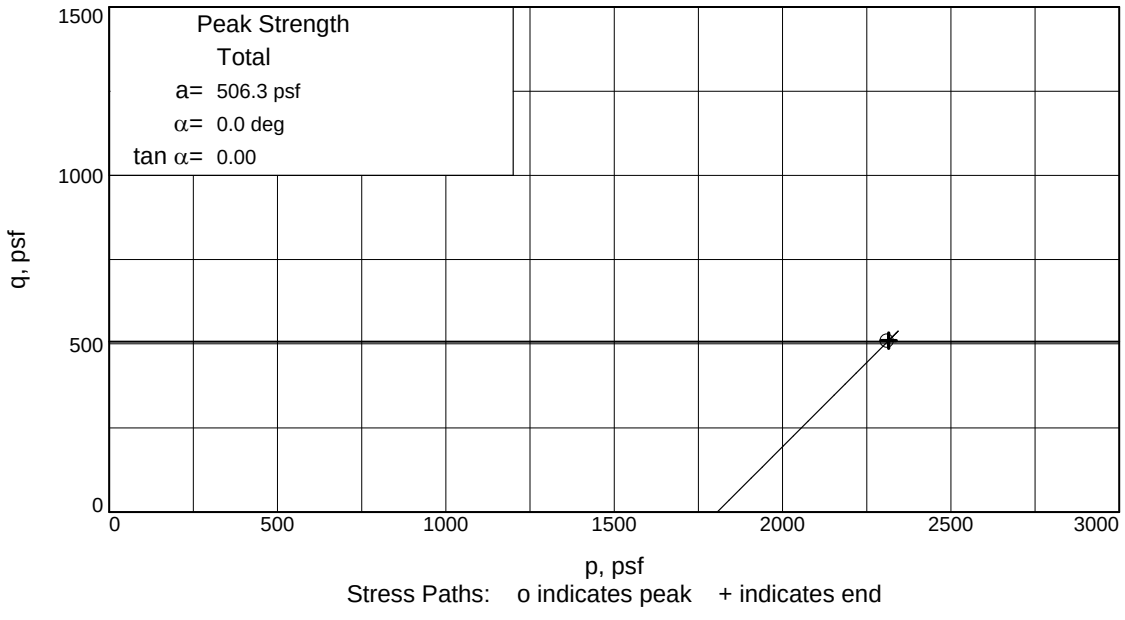
Proj. No.: 1511010228 **Date Sampled:**

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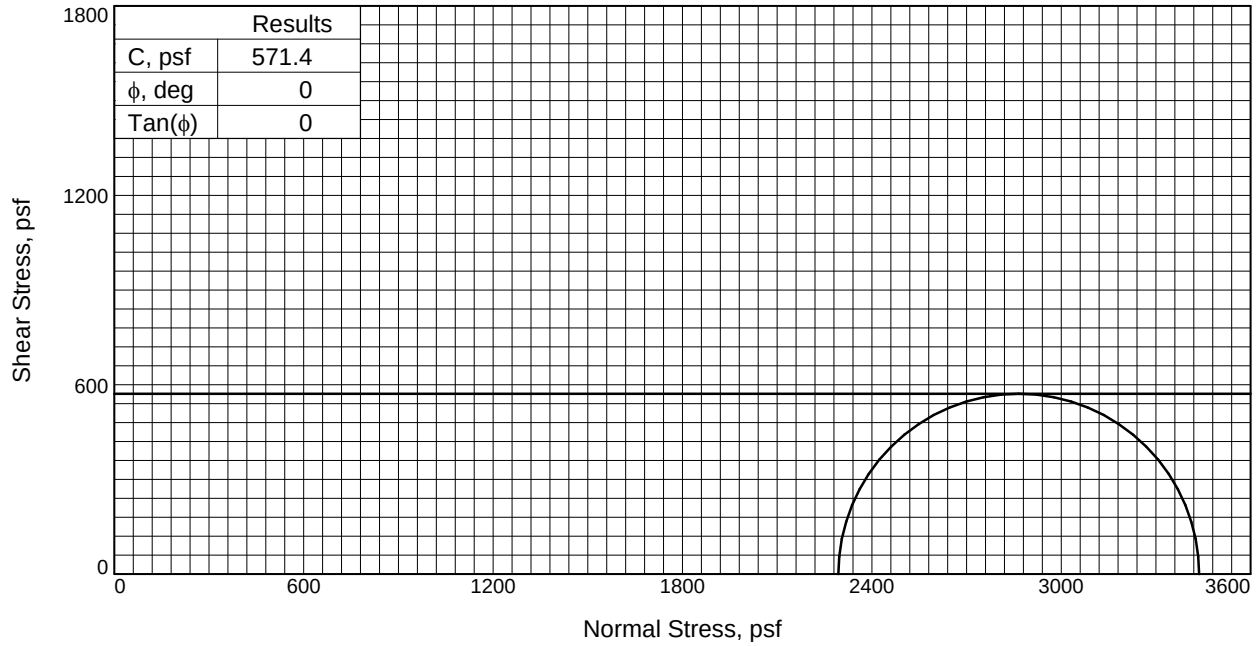


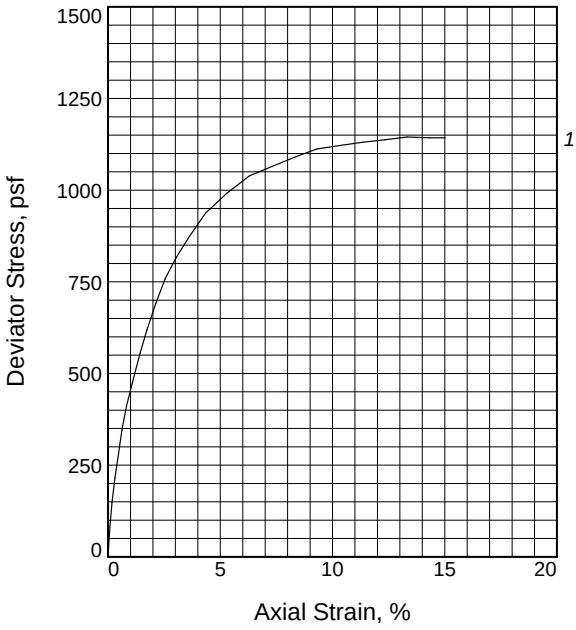




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 38.0'-40.0' **Sample Number:** BW-38 T-4
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	34.8
	Dry Density, pcf	87.9
	Saturation, %	104.3
	Void Ratio	0.8883
	Diameter, in.	2.835
	Height, in.	5.546
At Test	Water Content, %	33.0
	Dry Density, pcf	87.9
	Saturation, %	98.8
	Void Ratio	0.8883
	Diameter, in.	2.835
	Height, in.	5.546
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		2293.9
Fail. Stress, psf		1142.7
Strain, %		15.0
Ult. Stress, psf		1142.7
Strain, %		15.0
σ_1 Failure, psf		3436.6
σ_3 Failure, psf		2293.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(50))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

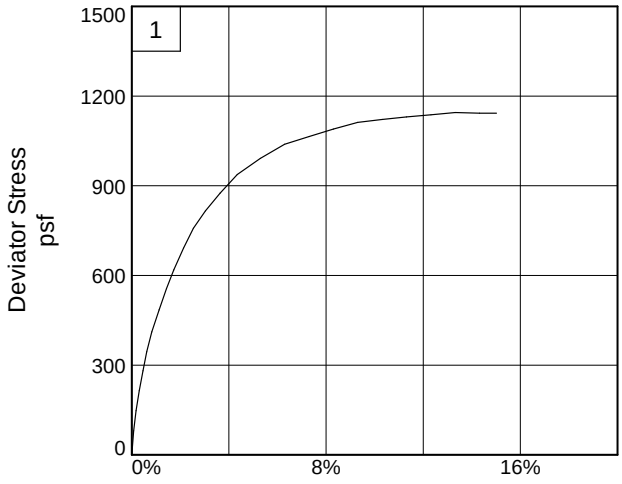
Project: Mobile River Bridge

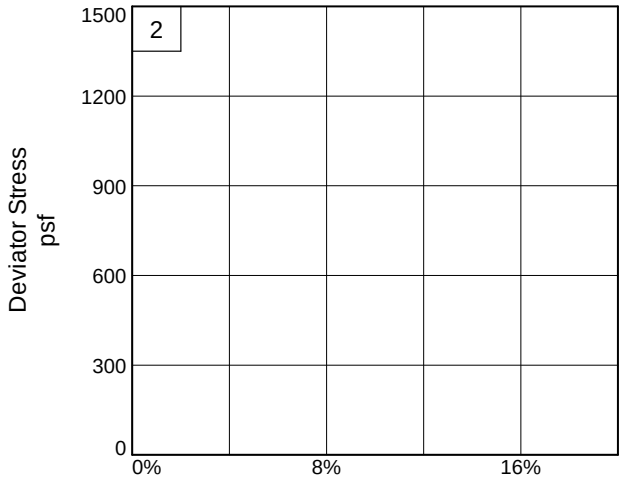
Source of Sample: Lab #7985 **Depth:** 48.0'-50.0'

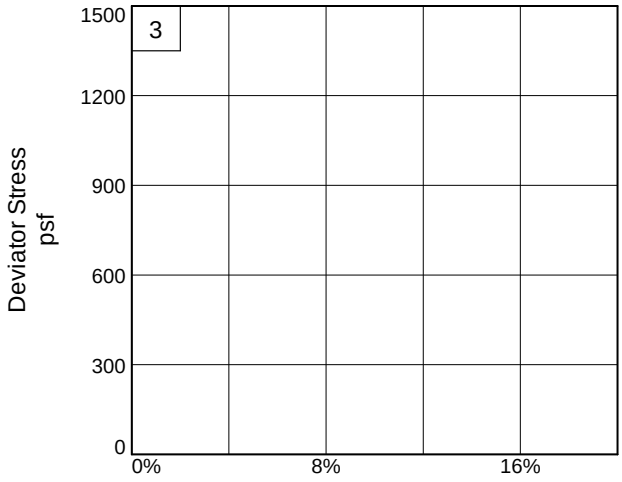
Sample Number: BW-38 T-5

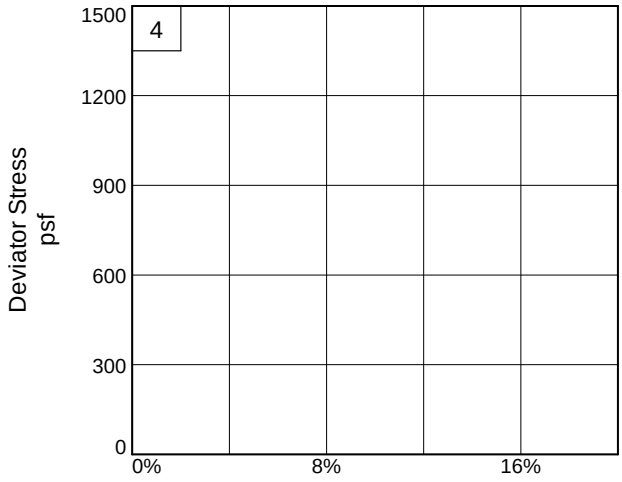
Proj. No.: 1511010228 **Date Sampled:**

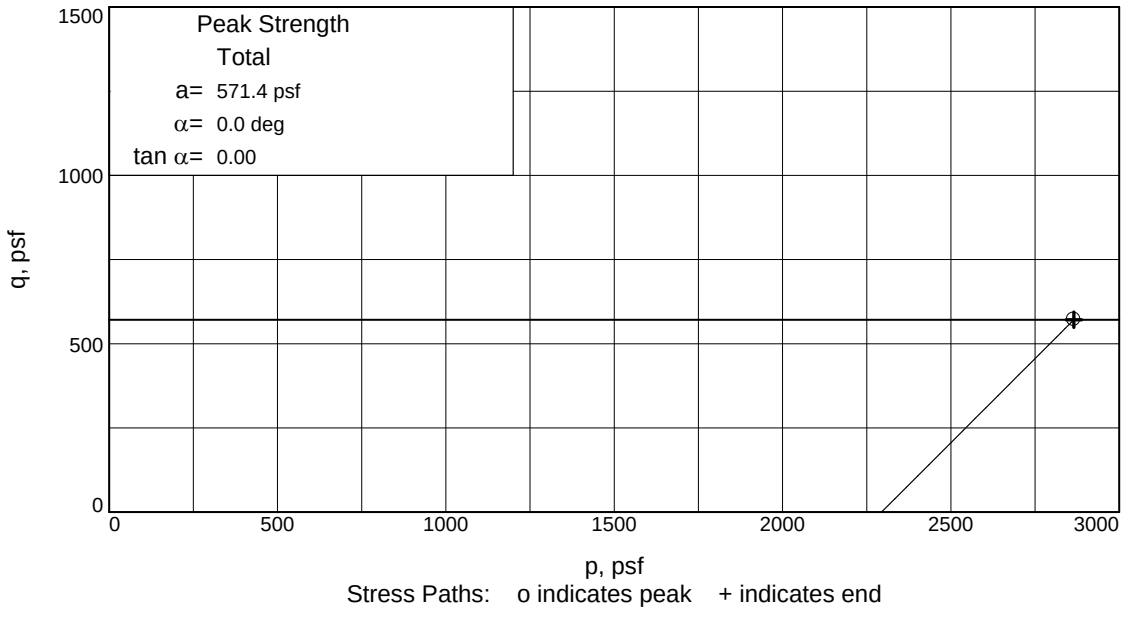
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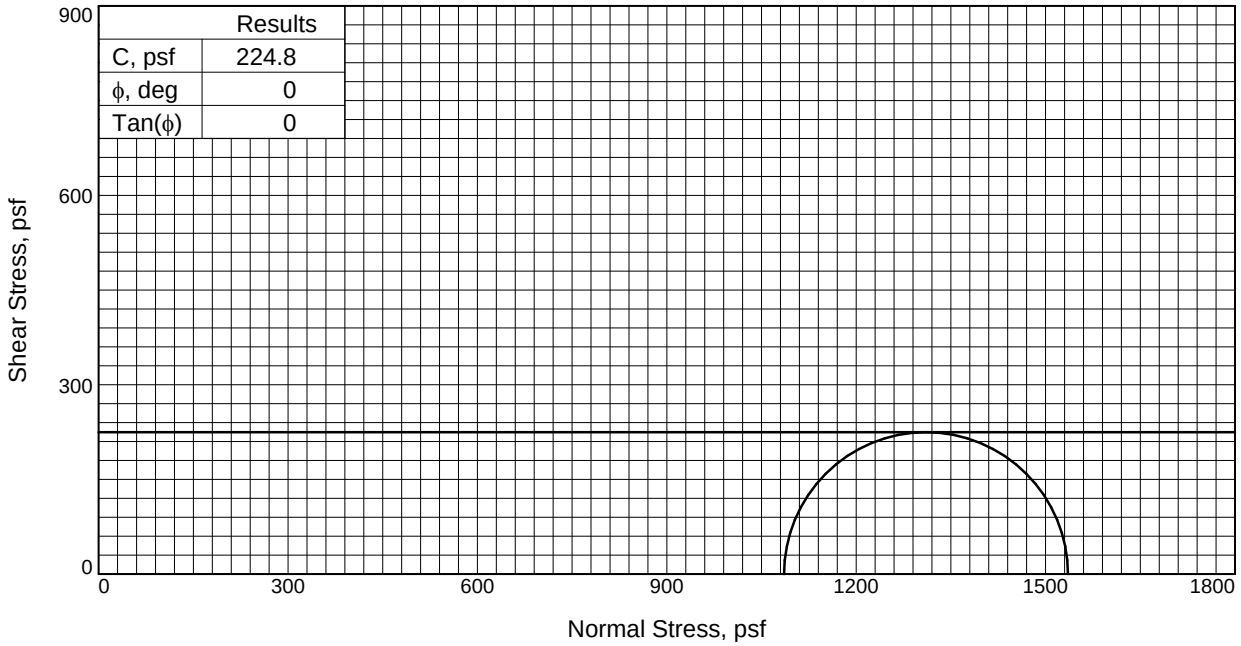


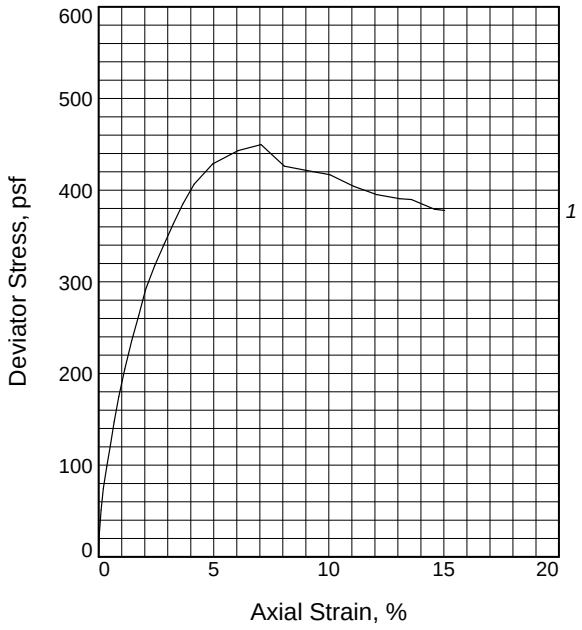




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 48.0'-50.0' **Sample Number:** BW-38 T-5
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	61.3
	Dry Density, pcf	65.1
	Saturation, %	105.3
	Void Ratio	1.5497
	Diameter, in.	2.791
	Height, in.	5.313
At Test	Water Content, %	60.2
	Dry Density, pcf	65.1
	Saturation, %	103.4
	Void Ratio	1.5497
	Diameter, in.	2.791
	Height, in.	5.313
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		1085.8
Fail. Stress, psf		449.7
Strain, %		7.1
Ult. Stress, psf		449.7
Strain, %		7.1
σ_1 Failure, psf		1535.4
σ_3 Failure, psf		1085.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

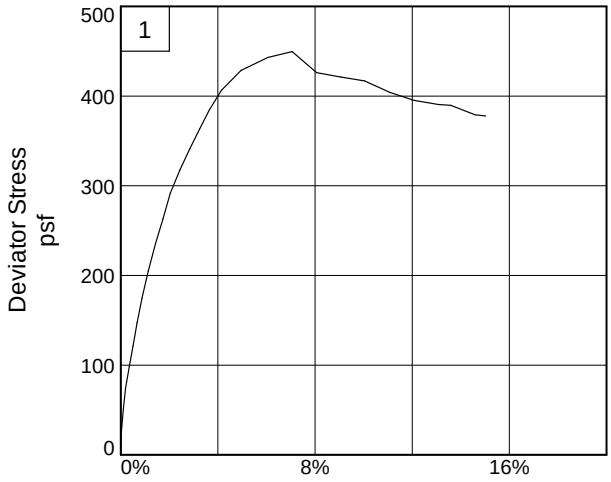
Project: Mobile River Bridge

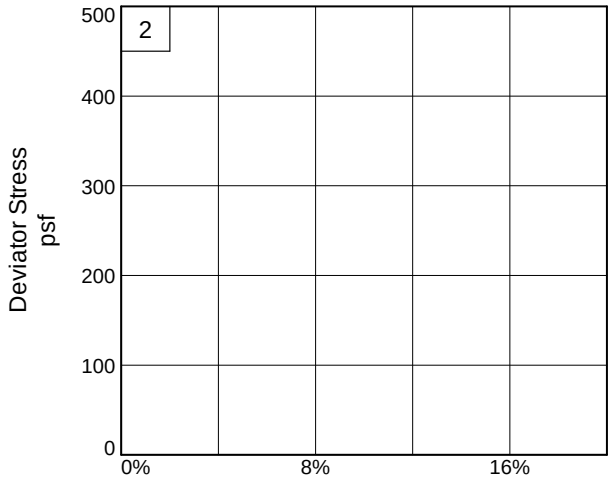
Source of Sample: Lab #7985 **Depth:** 23.0'-25.0'

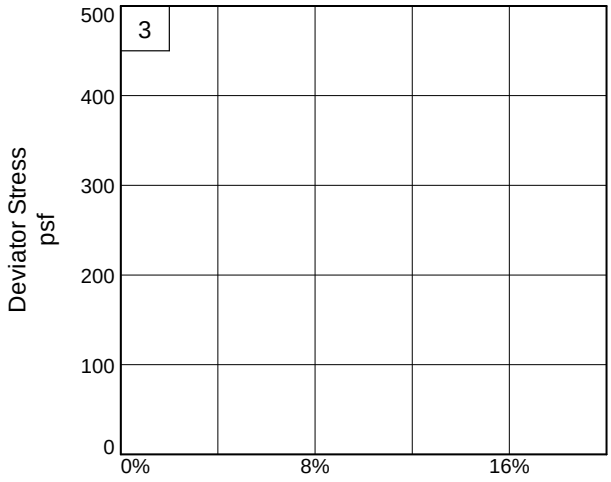
Sample Number: BW-39 T-2

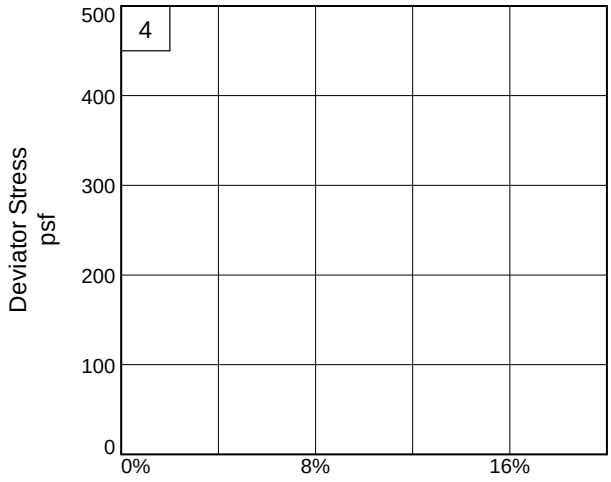
Proj. No.: 1511010228 **Date Sampled:**

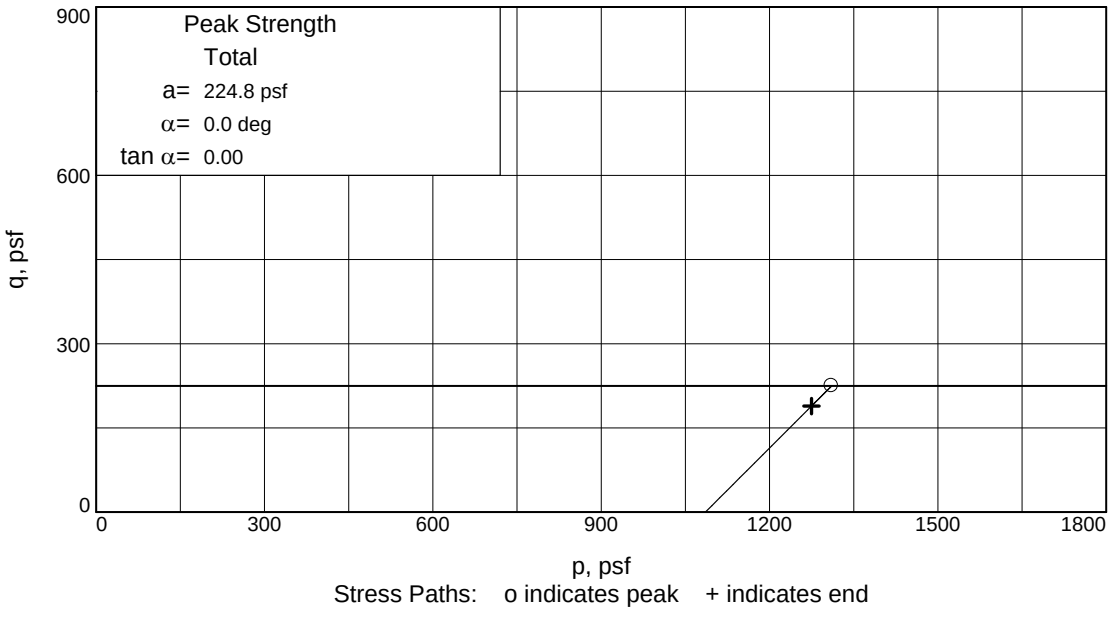
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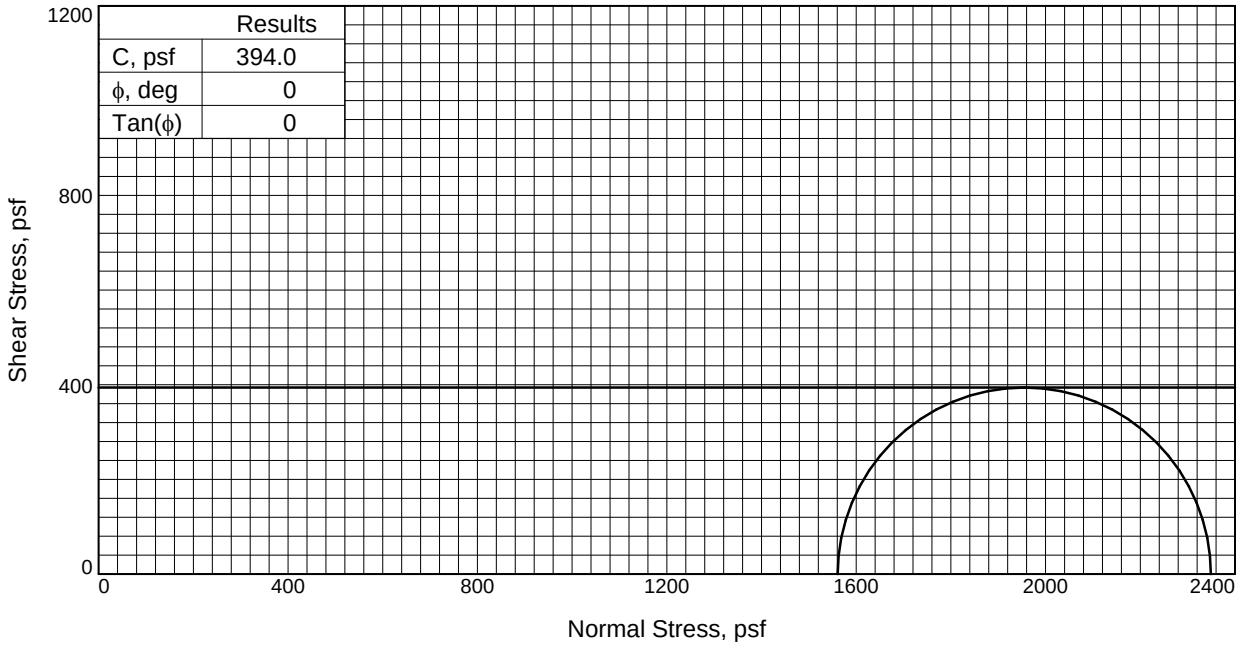


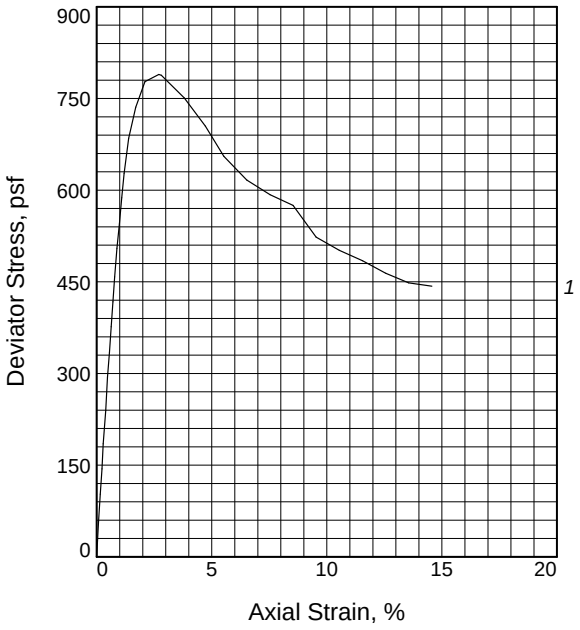




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 23.0'-25.0' **Sample Number:** BW-39 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	70.7
	Dry Density, pcf	58.5
	Saturation, %	102.3
	Void Ratio	1.8387
	Diameter, in.	2.825
	Height, in.	5.526
At Test	Water Content, %	56.8
	Dry Density, pcf	58.5
	Saturation, %	82.1
	Void Ratio	1.8387
	Diameter, in.	2.825
	Height, in.	5.526
Strain at peak, %		2.8
Back Pressure, psf		0.0
Cell Pressure, psf		1561.0
Fail. Stress, psf		788.0
Strain, %		2.8
Ult. Stress, psf		788.0
Strain, %		2.8
σ_1 Failure, psf		2349.0
σ_3 Failure, psf		1561.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(79))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

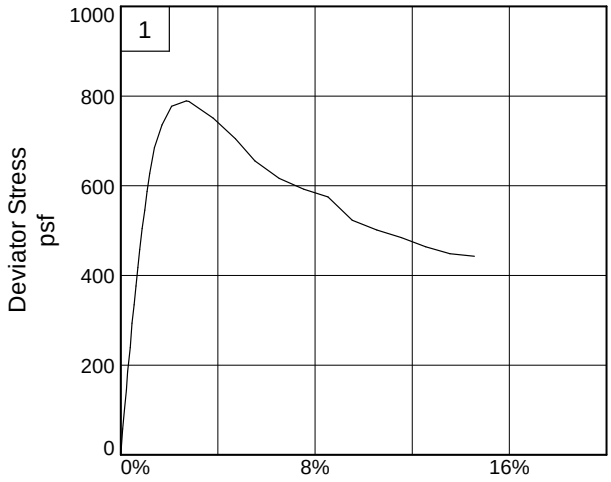
Project: Mobile River Bridge

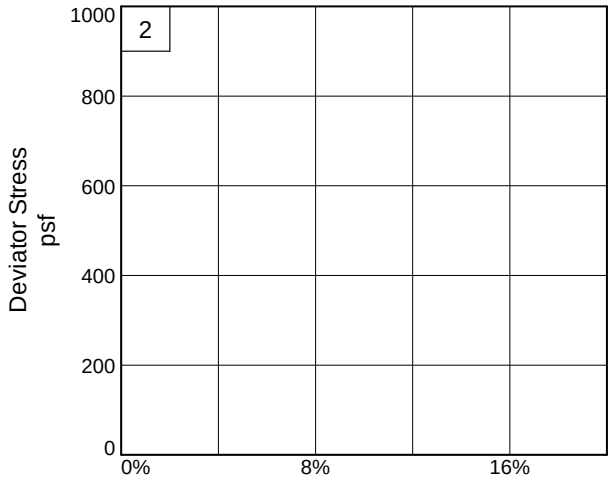
Source of Sample: Lab #7985 **Depth:** 33.0'-35.0'

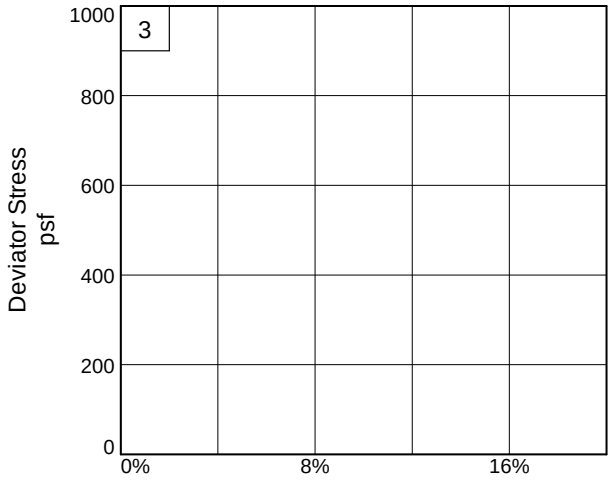
Sample Number: BW-39 T-3

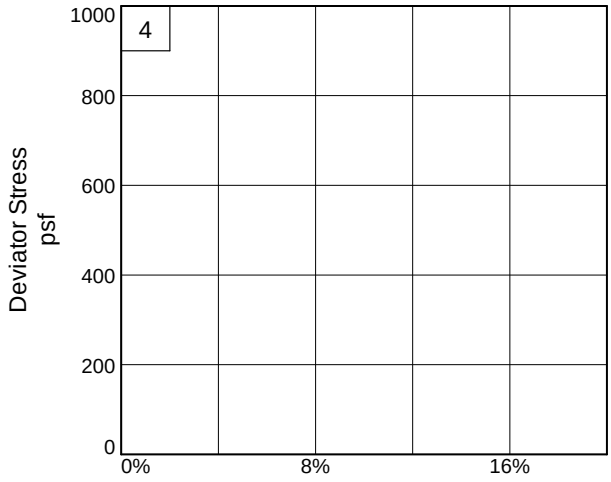
Proj. No.: 1511010228 **Date Sampled:**

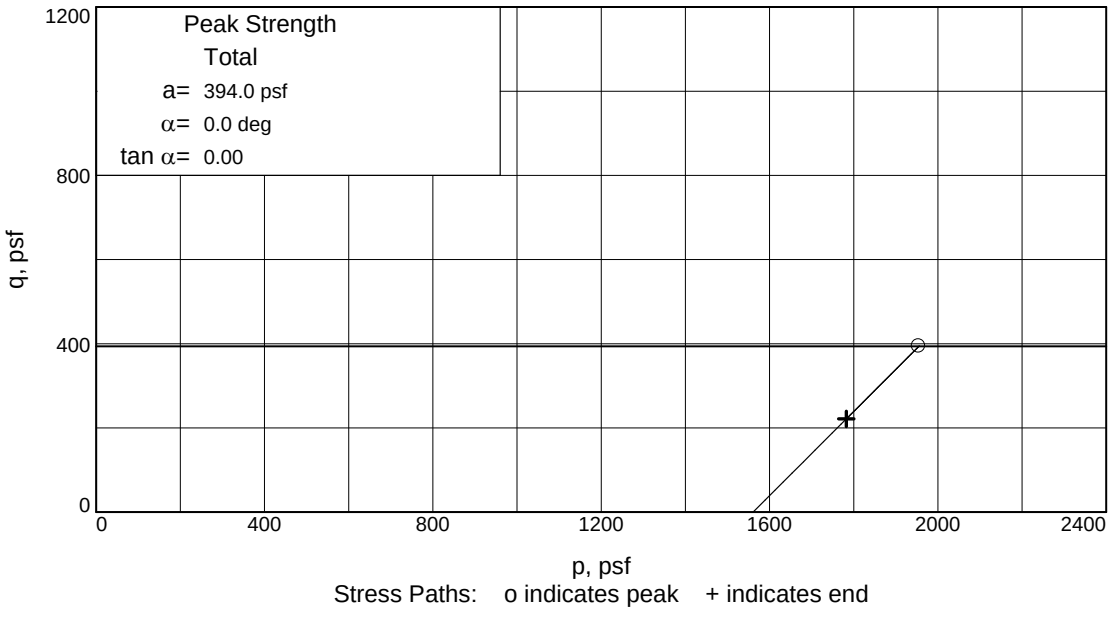
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Thompson Engineering
Mobile, Alabama





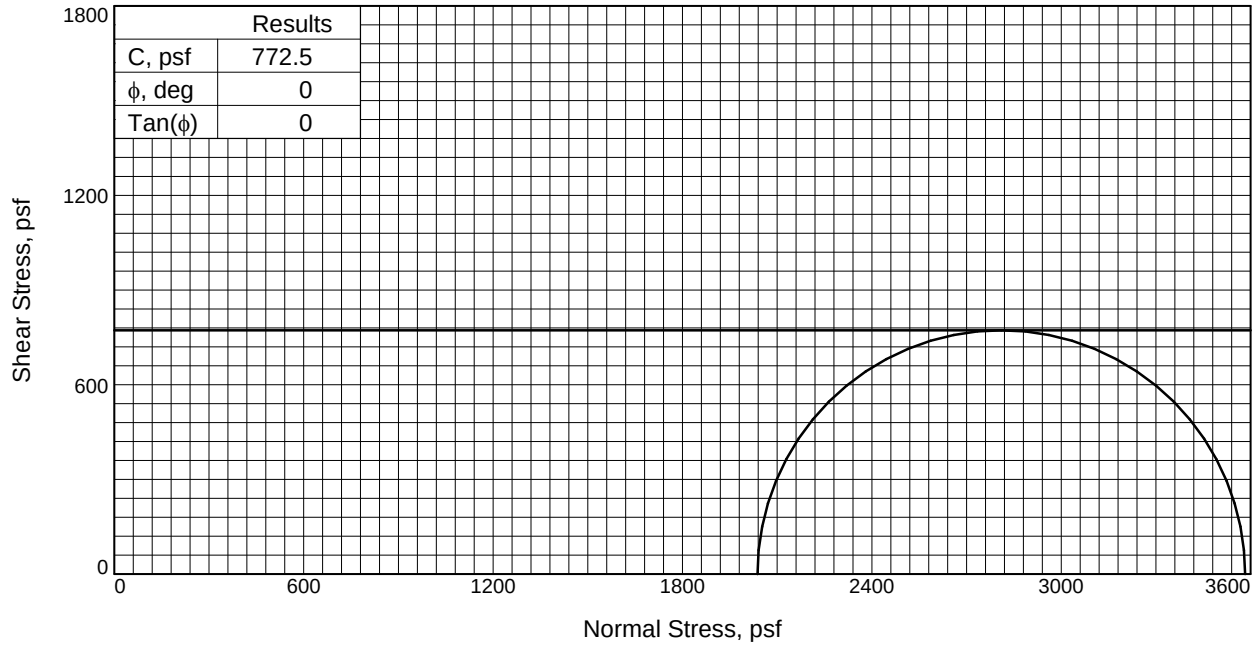


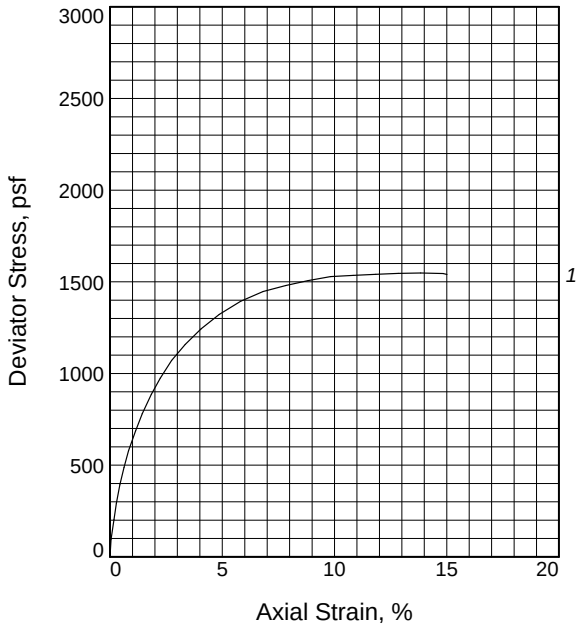




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 33.0'-35.0' **Sample Number:** BW-39 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	36.2
	Dry Density, pcf	87.3
	Saturation, %	106.7
	Void Ratio	0.9027
	Diameter, in.	2.836
	Height, in.	5.319
At Test	Water Content, %	30.7
	Dry Density, pcf	87.3
	Saturation, %	90.6
	Void Ratio	0.9027
	Diameter, in.	2.836
	Height, in.	5.319
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2037.6
Fail. Stress, psf		1545.0
Strain, %		14.8
Ult. Stress, psf		1545.0
Strain, %		14.8
σ_1 Failure, psf		3582.6
σ_3 Failure, psf		2037.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(50))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

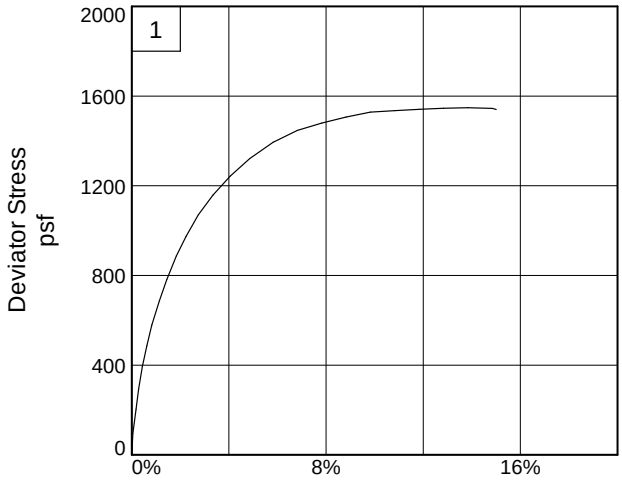
Project: Mobile River Bridge

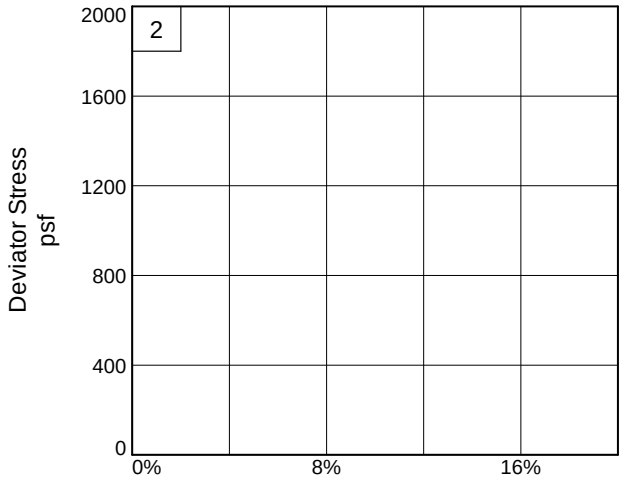
Source of Sample: Lab #7985 **Depth:** 43.0'-45.0'

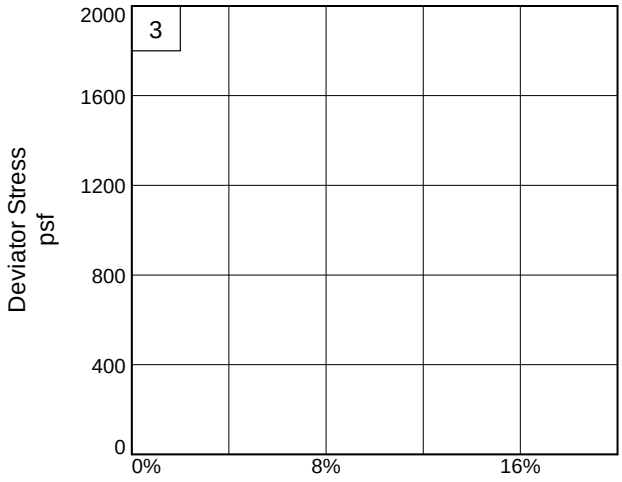
Sample Number: BW-39 T-4

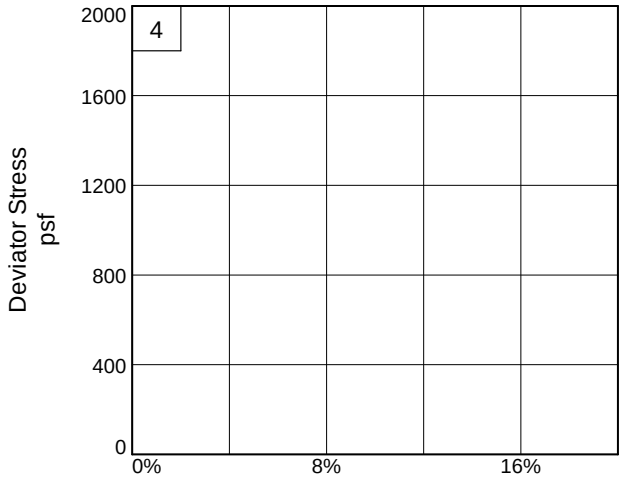
Proj. No.: 1511010228 **Date Sampled:**

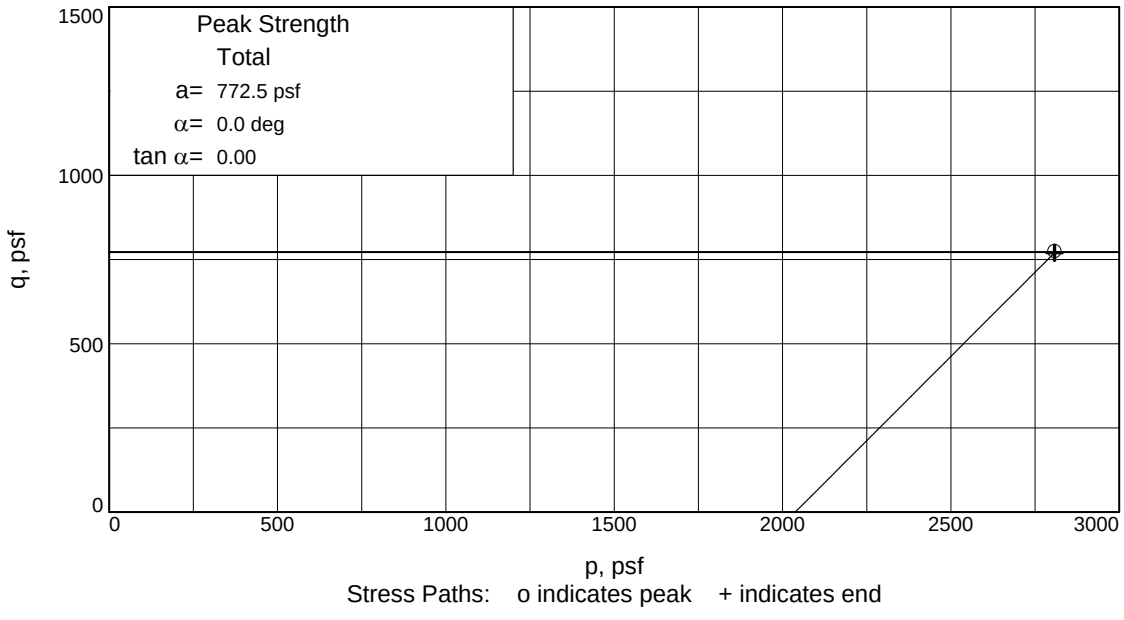
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Mobile, Alabama





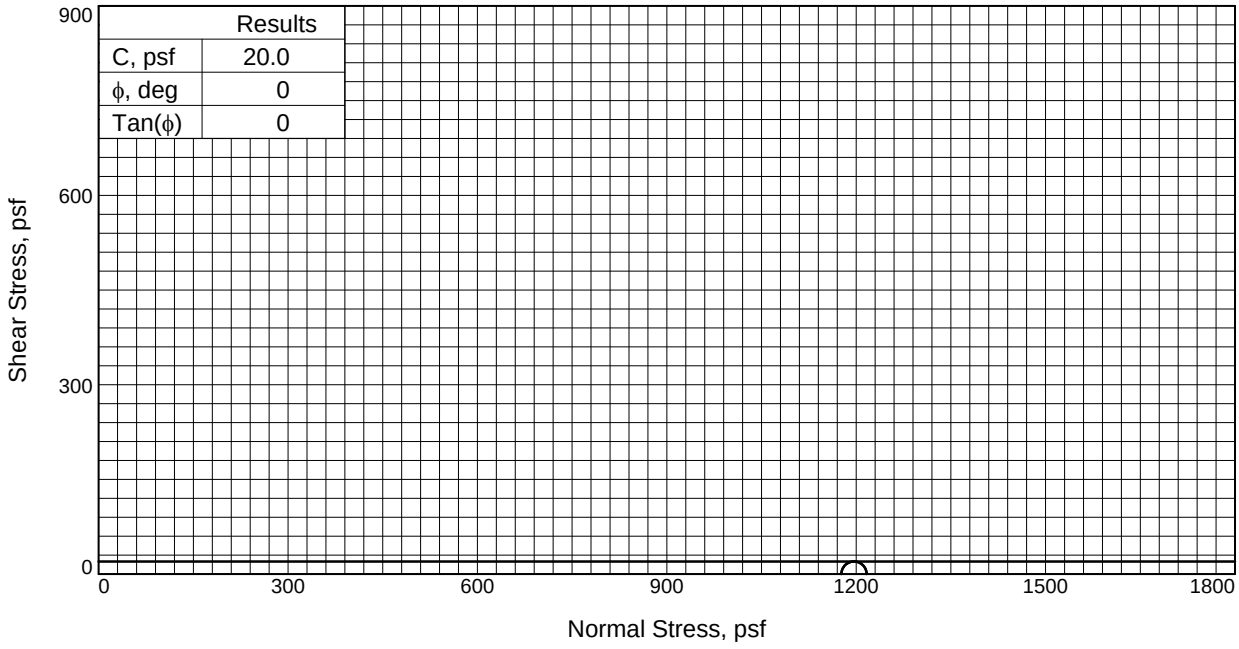


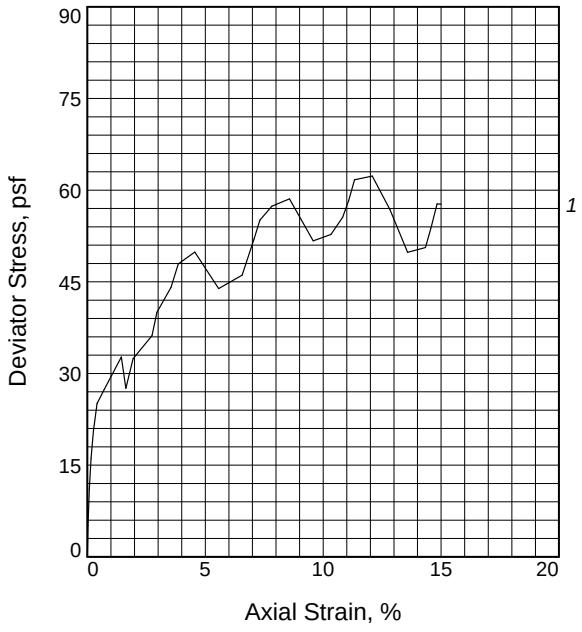




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7985 **Depth:** 43.0'-45.0' **Sample Number:** BW-39 T-4
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	58.4
	Dry Density, pcf	69.6
	Saturation, %	112.1
	Void Ratio	1.3854
	Diameter, in.	2.803
	Height, in.	5.054
At Test	Water Content, %	59.8
	Dry Density, pcf	69.6
	Saturation, %	114.9
	Void Ratio	1.3854
	Diameter, in.	2.803
	Height, in.	5.054
Strain at peak, %		2.9
Back Pressure, psf		0.0
Cell Pressure, psf		1176.5
Fail. Stress, psf		40.0
Strain, %		2.9
Ult. Stress, psf		40.0
Strain, %		2.9
σ_1 Failure, psf		1216.5
σ_3 Failure, psf		1176.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(23))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

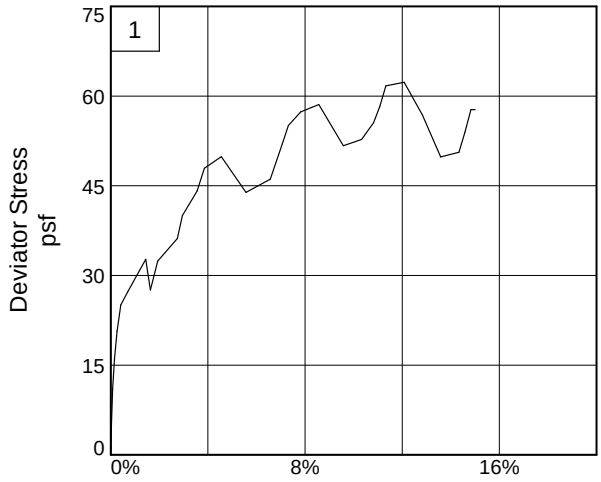
Project: Mobile River Bridge

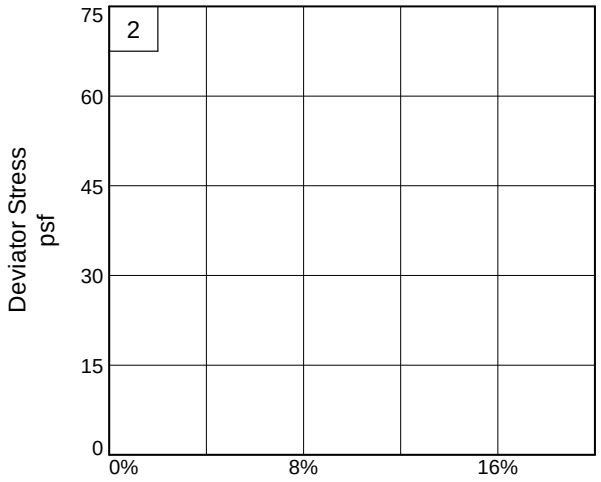
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5'

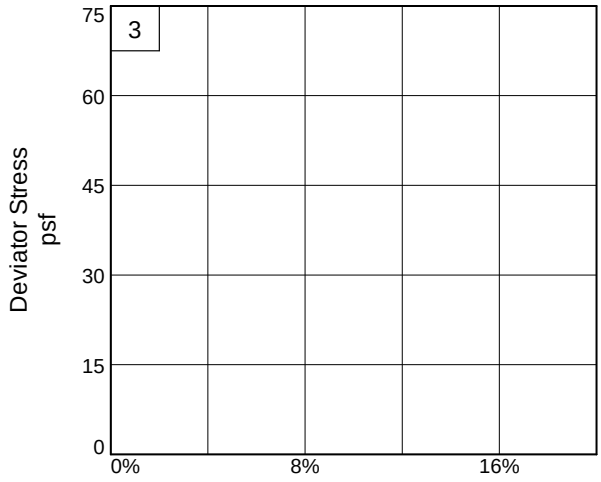
Sample Number: BW-40 T-1

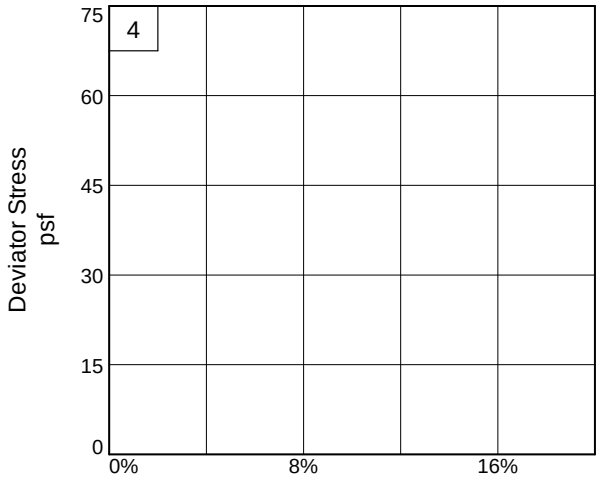
Proj. No.: 1511010228 **Date Sampled:**

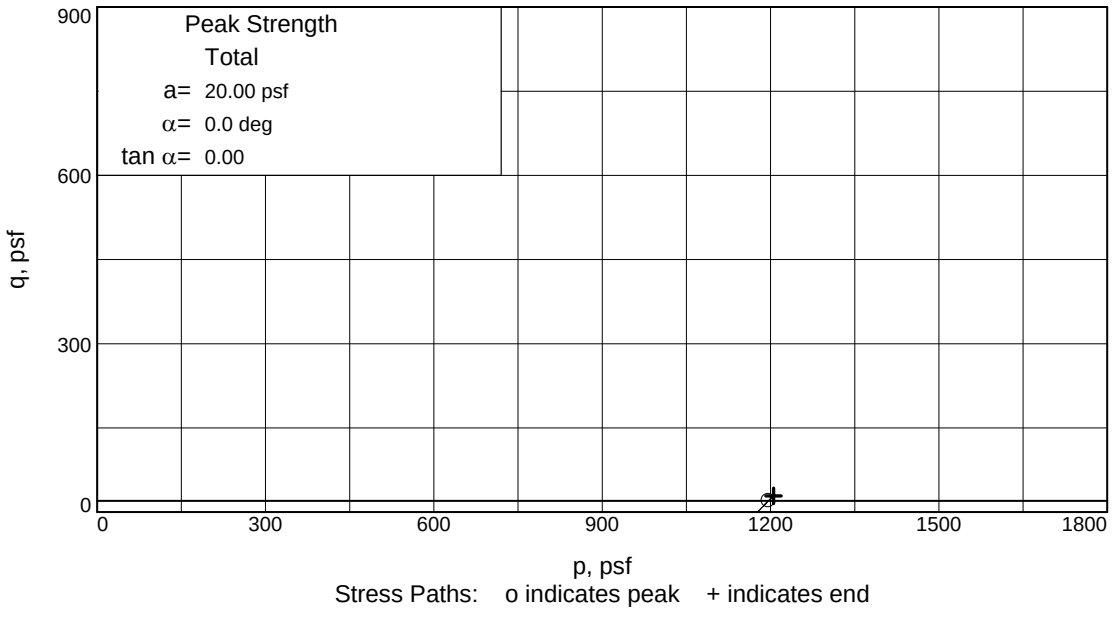
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Mobile, Alabama





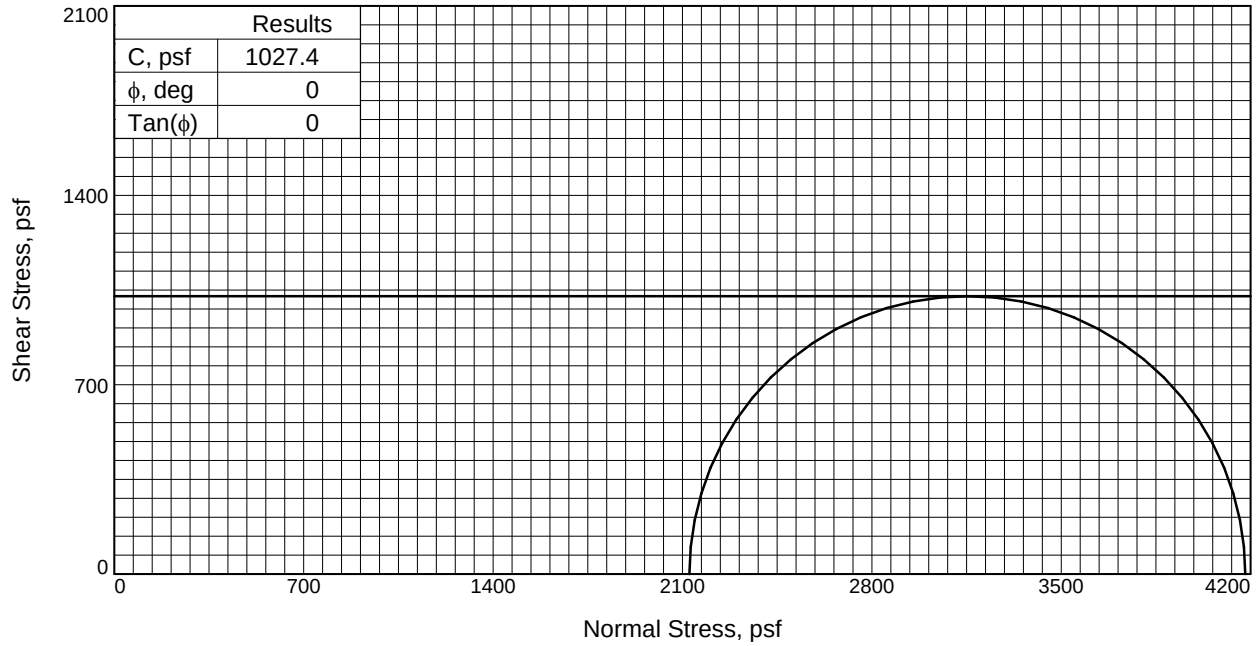


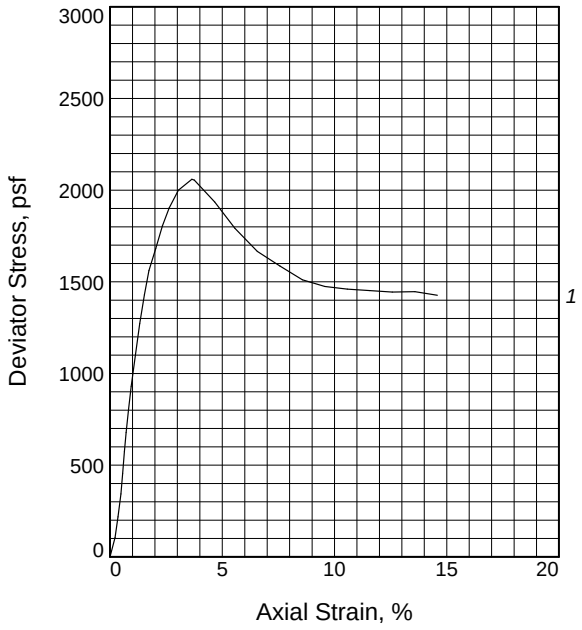




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 23.5'-25.5' **Sample Number:** BW-40 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	132.1
	Dry Density, pcf	35.0
	Saturation, %	93.8
	Void Ratio	3.7460
	Diameter, in.	2.825
	Height, in.	5.545
At Test	Water Content, %	142.7
	Dry Density, pcf	35.0
	Saturation, %	101.4
	Void Ratio	3.7460
	Diameter, in.	2.825
	Height, in.	5.545
Strain at peak, %		3.8
Back Pressure, psf		0.0
Cell Pressure, psf		2125.4
Fail. Stress, psf		2054.8
Strain, %		3.8
Ult. Stress, psf		2054.8
Strain, %		3.8
σ_1 Failure, psf		4180.2
σ_3 Failure, psf		2125.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

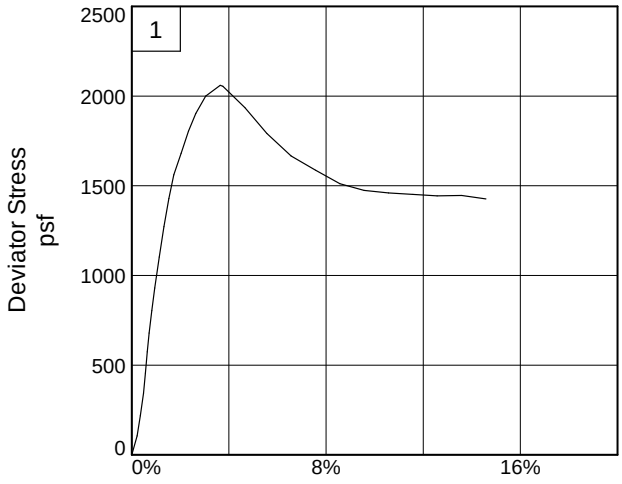
Project: Mobile River Bridge

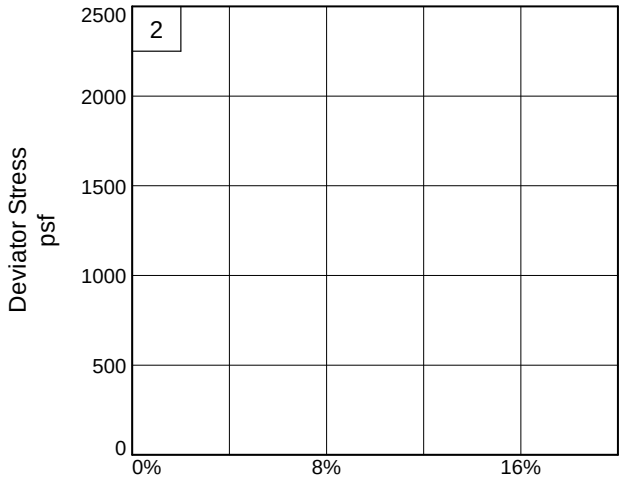
Source of Sample: Lab #7837 **Depth:** 43.5'-45.5'

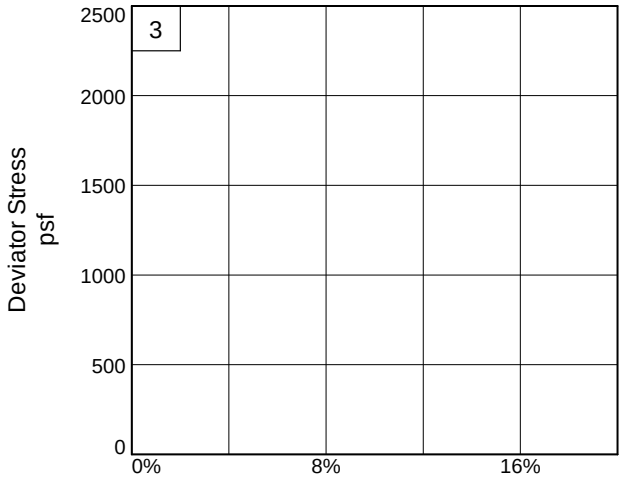
Sample Number: BW-40 T-3

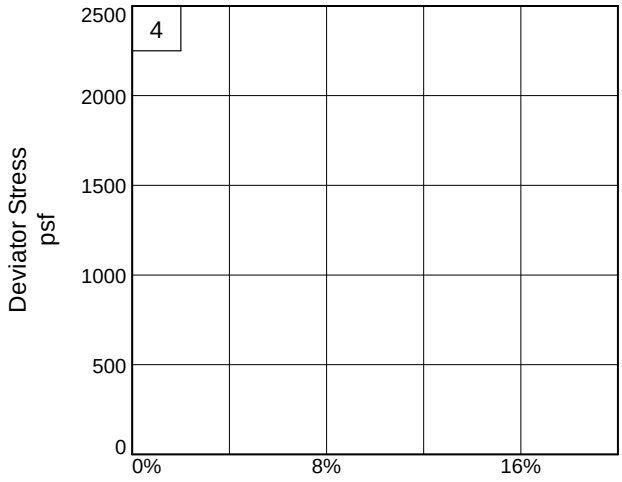
Proj. No.: 1511010228 **Date Sampled:**

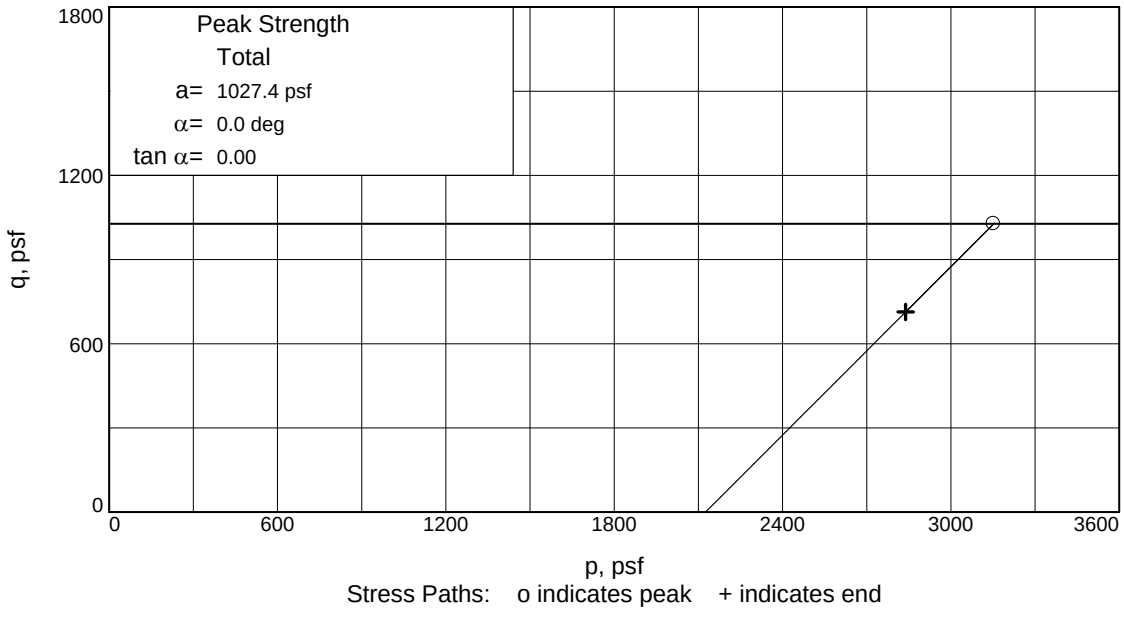
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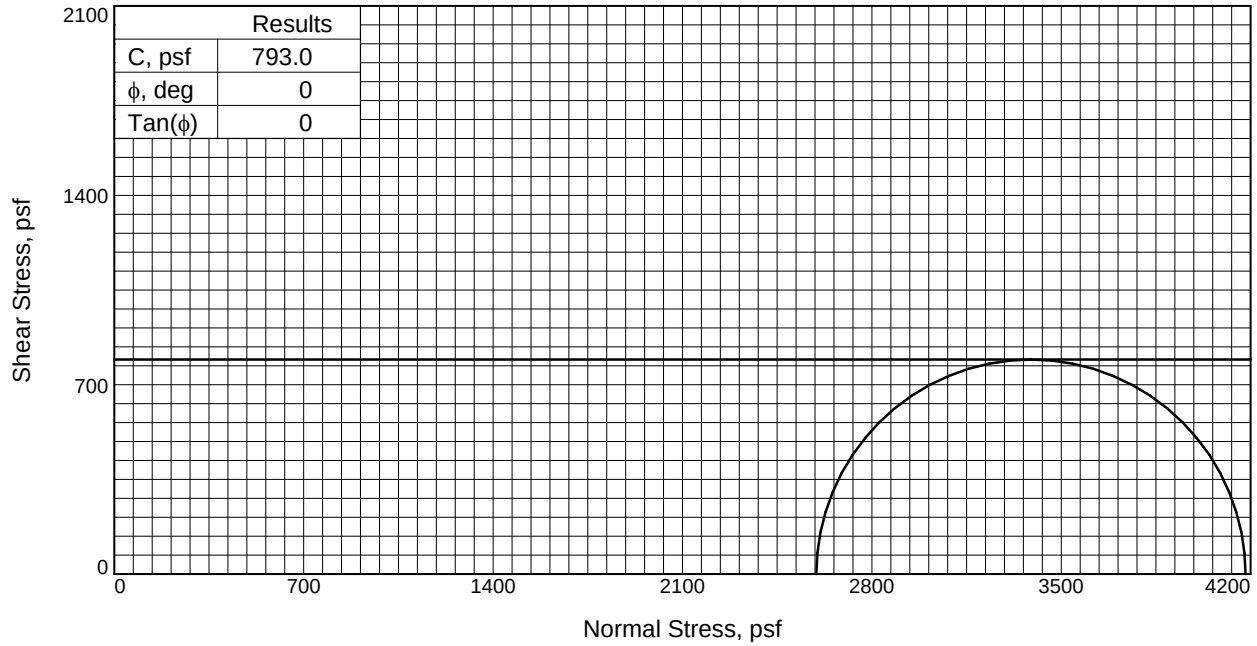


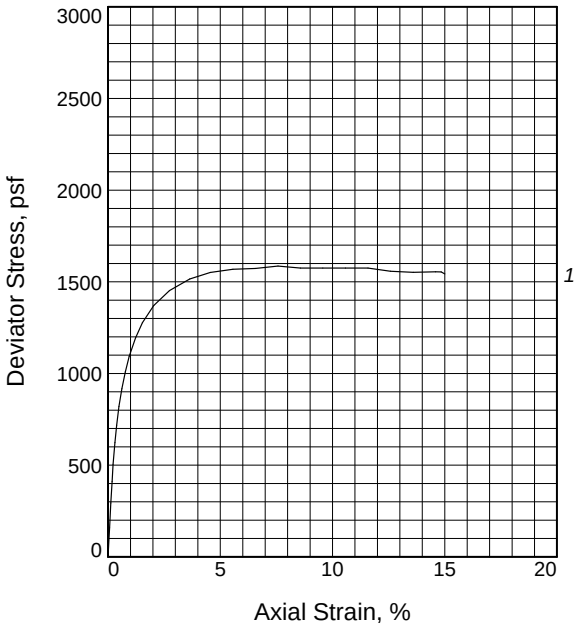


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 43.5'-45.5' **Sample Number:** BW-40 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	37.0
	Dry Density, pcf	85.1
	Saturation, %	103.4
	Void Ratio	0.9513
	Diameter, in.	2.851
	Height, in.	5.557
At Test	Water Content, %	36.9
	Dry Density, pcf	85.1
	Saturation, %	103.2
	Void Ratio	0.9513
	Diameter, in.	2.851
	Height, in.	5.557
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		2594.9
Fail. Stress, psf		1586.1
Strain, %		7.6
Ult. Stress, psf		1586.1
Strain, %		7.6
σ_1 Failure, psf		4181.0
σ_3 Failure, psf		2594.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(38))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

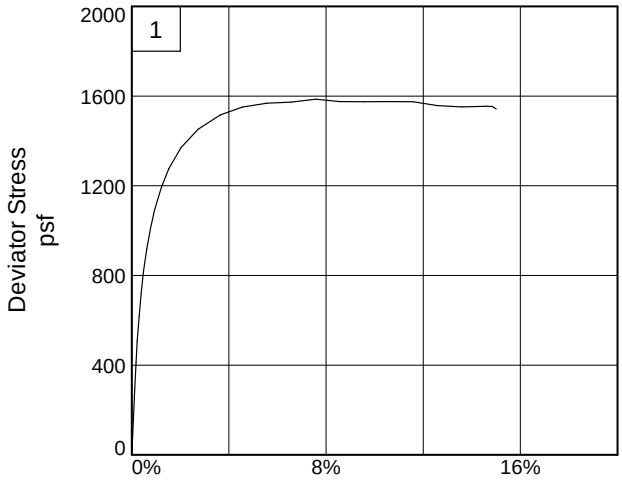
Project: Mobile River Bridge

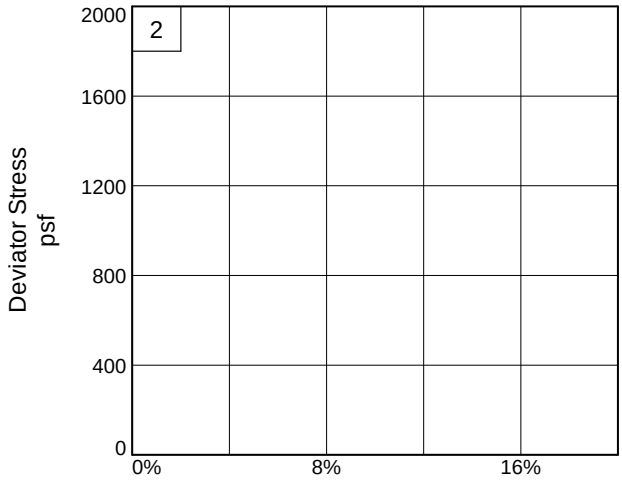
Source of Sample: Lab #7837 **Depth:** 53.5'-55.5'

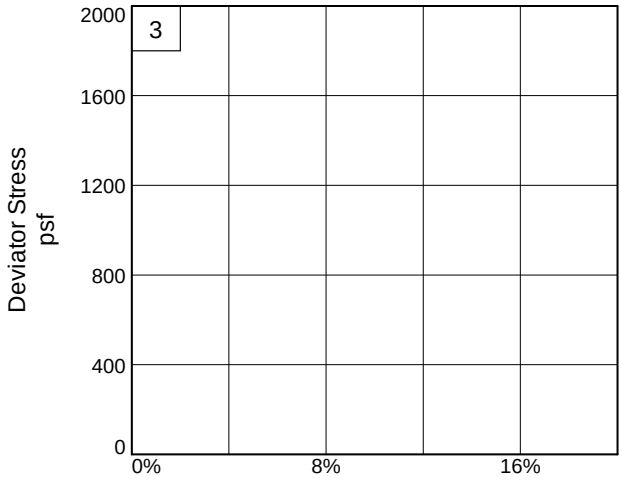
Sample Number: BW-40 T-4

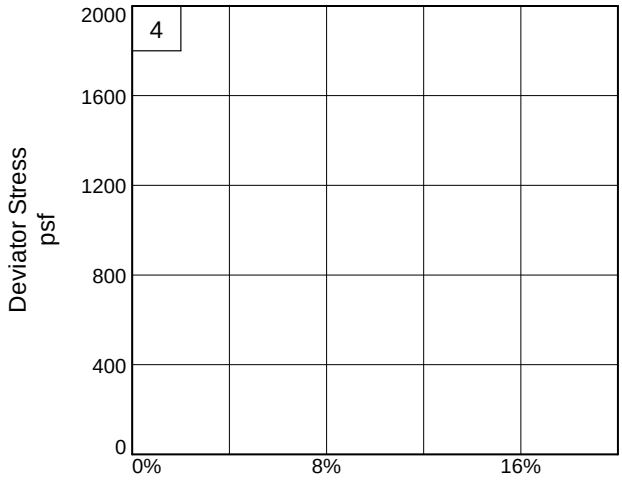
Proj. No.: 1511010228 **Date Sampled:**

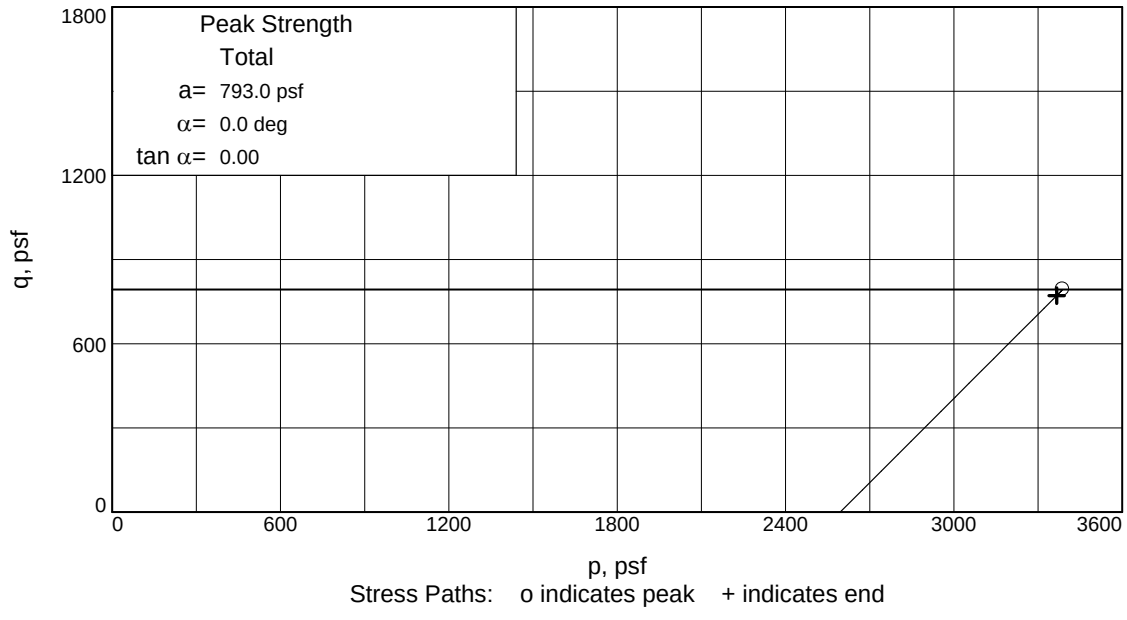
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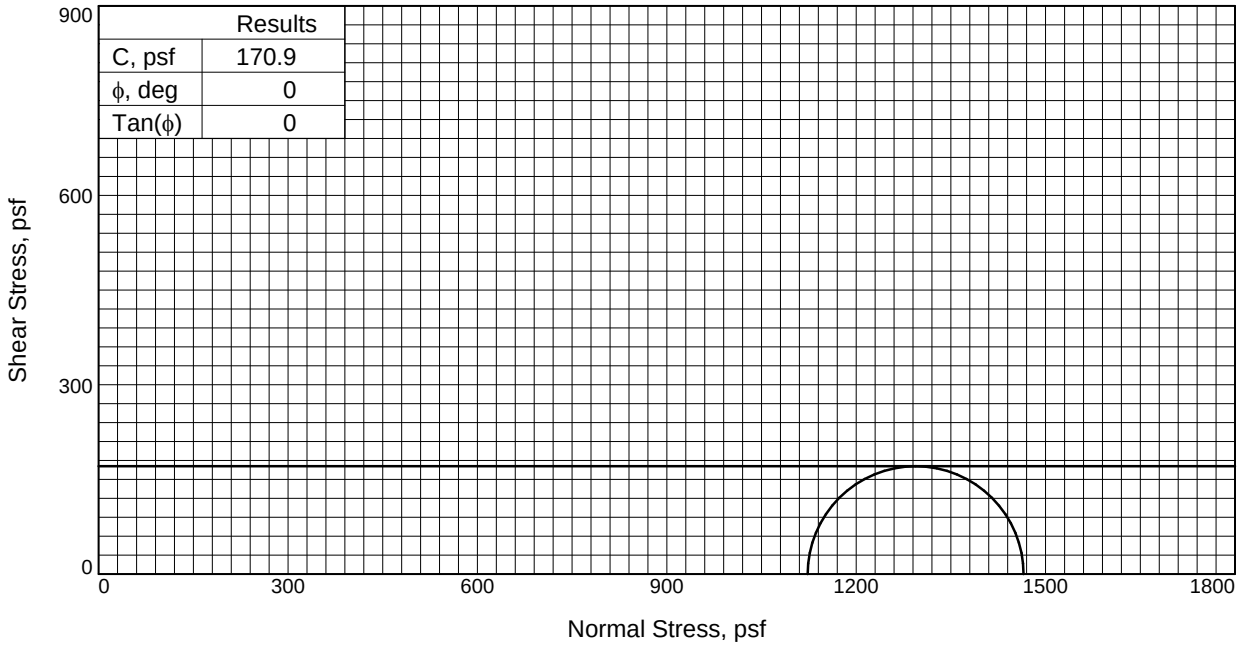


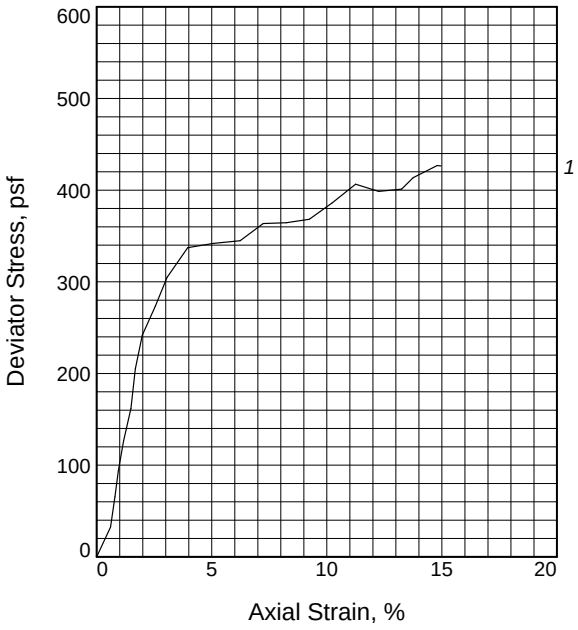




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7837 **Depth:** 53.5'-55.5' **Sample Number:** BW-40 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	50.6
	Dry Density, pcf	73.5
	Saturation, %	106.9
	Void Ratio	1.2584
	Diameter, in.	2.808
	Height, in.	5.472
At Test	Water Content, %	50.8
	Dry Density, pcf	73.5
	Saturation, %	107.5
	Void Ratio	1.2584
	Diameter, in.	2.808
	Height, in.	5.472
Strain at peak, %		5.1
Back Pressure, psf		0.0
Cell Pressure, psf		1123.2
Fail. Stress, psf		341.9
Strain, %		5.1
Ult. Stress, psf		341.9
Strain, %		5.1
σ_1 Failure, psf		1465.1
σ_3 Failure, psf		1123.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(38))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

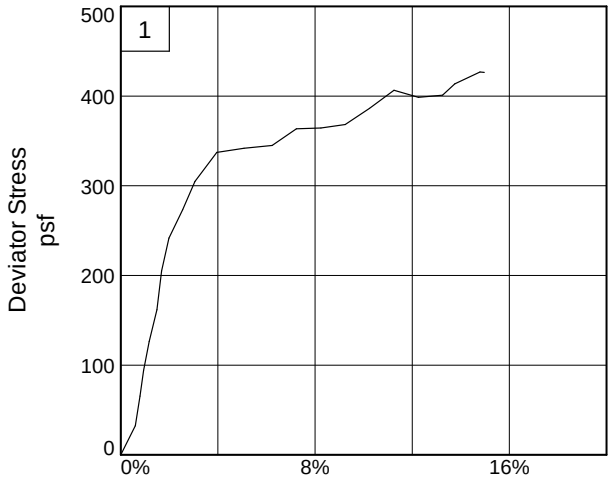
Project: Mobile River Bridge

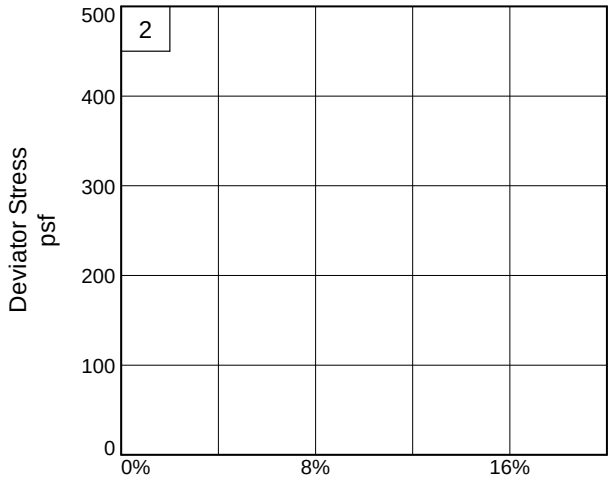
Source of Sample: Lab #7816 **Depth:** 23.0'-25.0'

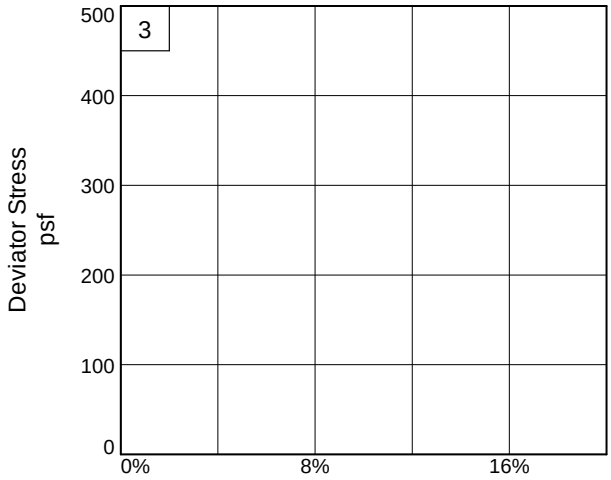
Sample Number: BW-41 T-1

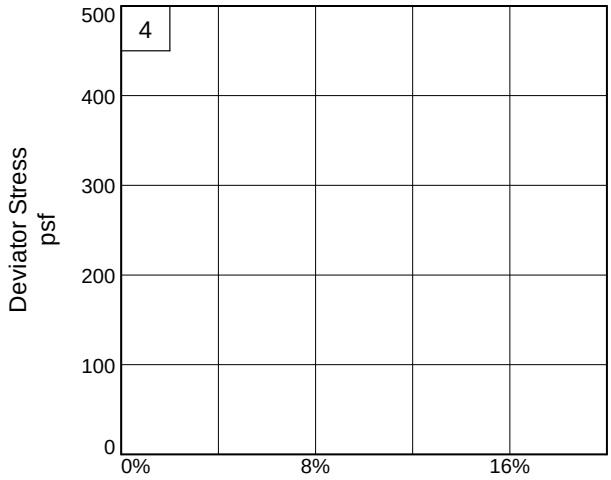
Proj. No.: 1511010228 **Date Sampled:**

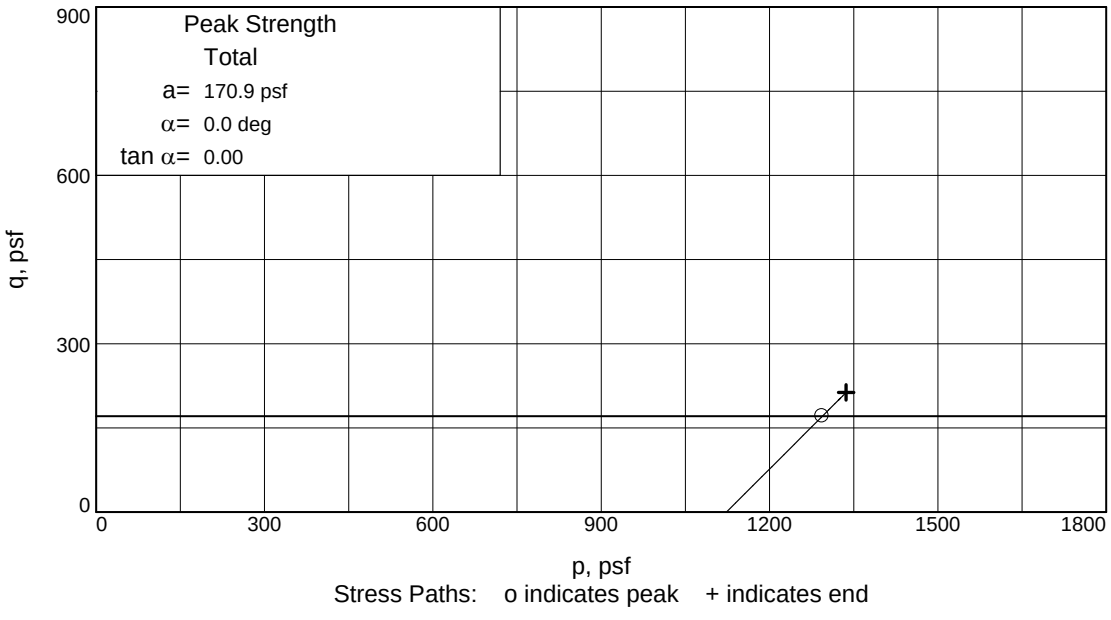
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Mobile, Alabama





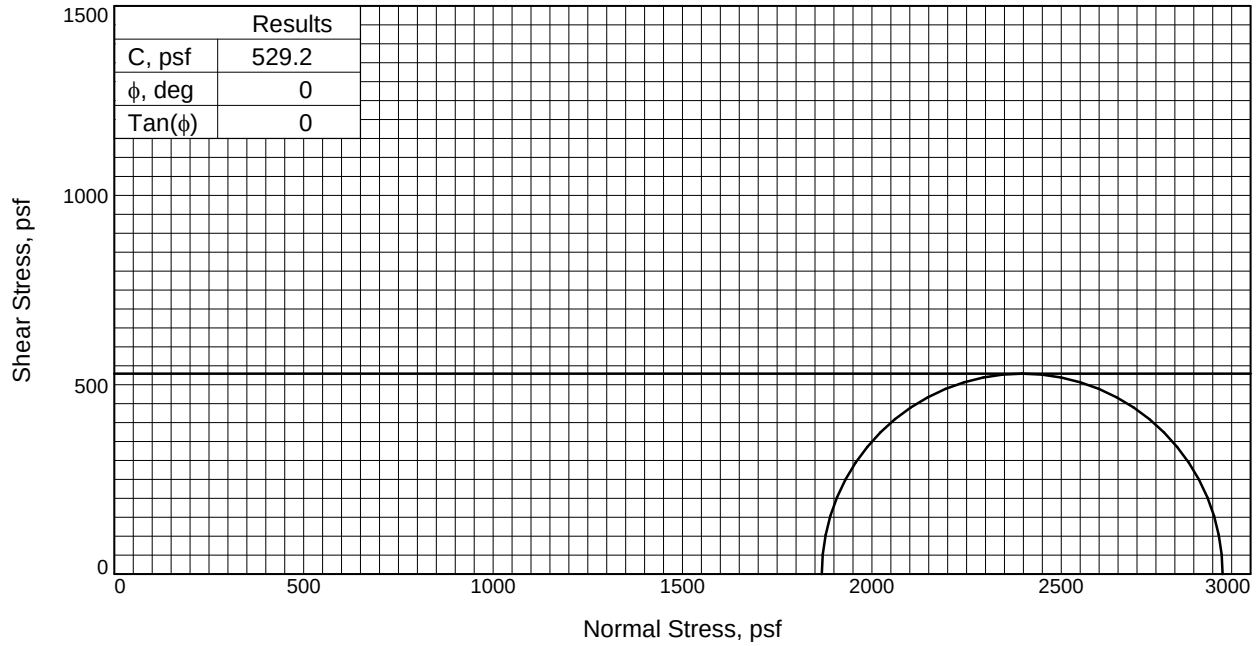


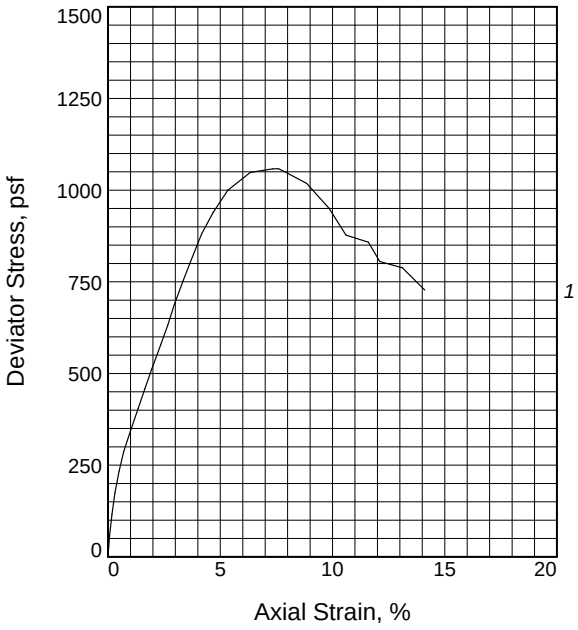




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 23.0'-25.0' **Sample Number:** BW-41 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	65.4
	Dry Density, pcf	61.5
	Saturation, %	102.3
	Void Ratio	1.7008
	Diameter, in.	2.788
	Height, in.	5.433
At Test	Water Content, %	54.6
	Dry Density, pcf	61.5
	Saturation, %	85.3
	Void Ratio	1.7008
	Diameter, in.	2.788
	Height, in.	5.433
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		1867.7
Fail. Stress, psf		1058.4
Strain, %		7.6
Ult. Stress, psf		1058.4
Strain, %		7.6
σ_1 Failure, psf		2926.1
σ_3 Failure, psf		1867.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(83))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

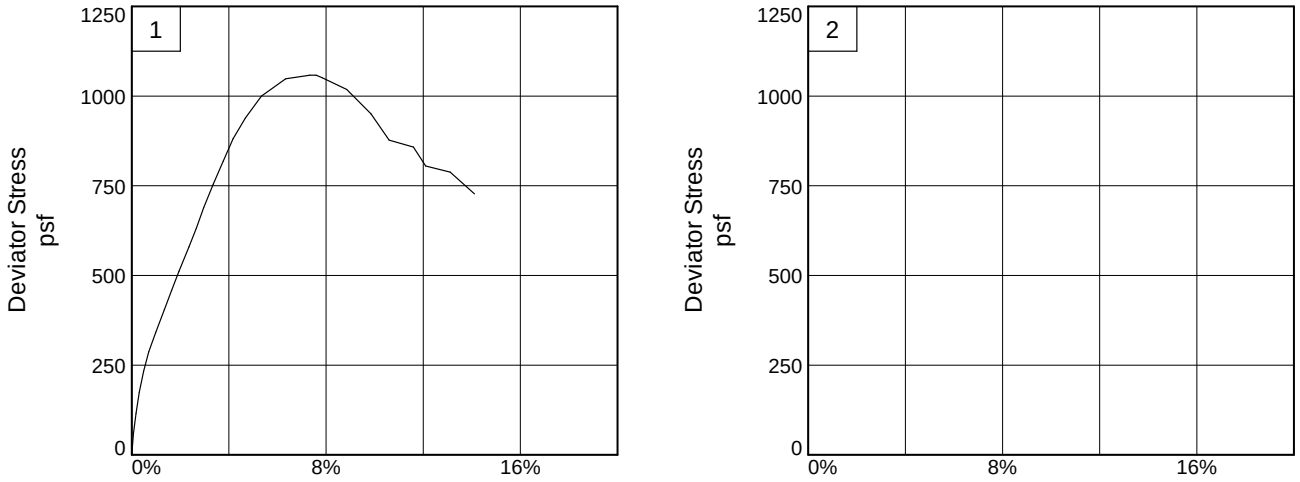
Project: Mobile River Bridge

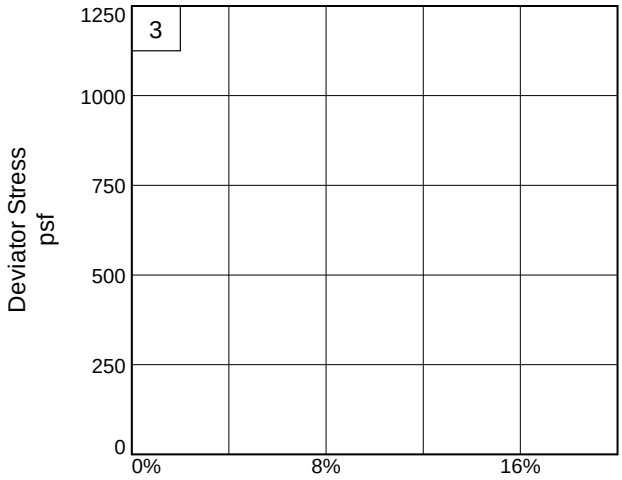
Source of Sample: Lab #7816 **Depth:** 38.0'-40.0'

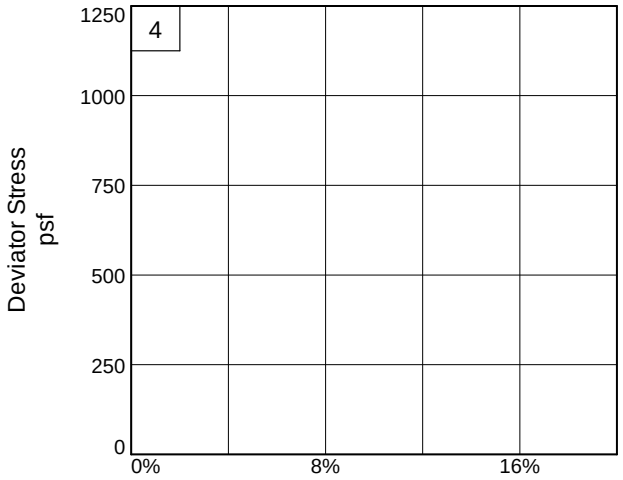
Sample Number: BW-41 T-3

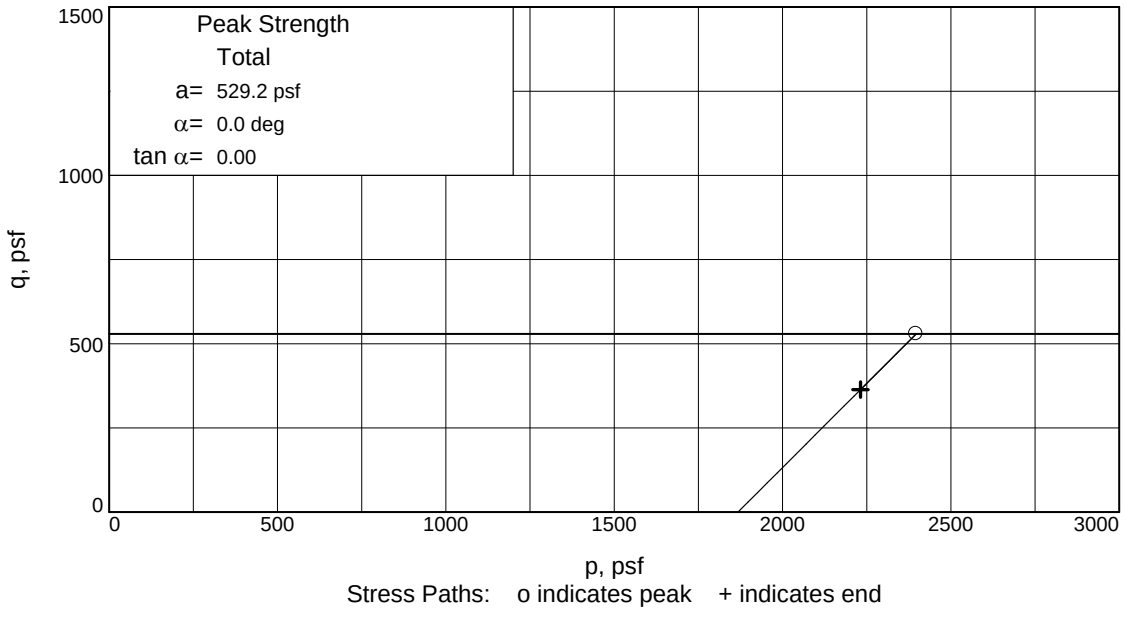
Proj. No.: 1511010228 **Date Sampled:**

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Thompson Engineering
Mobile, Alabama



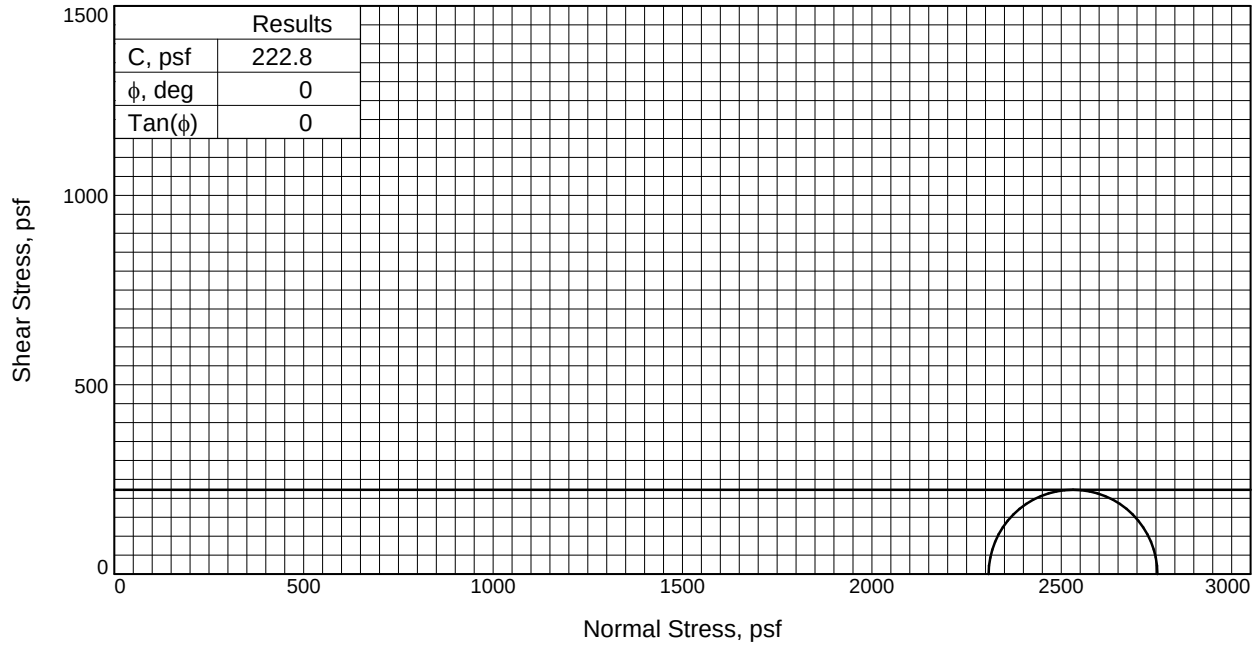


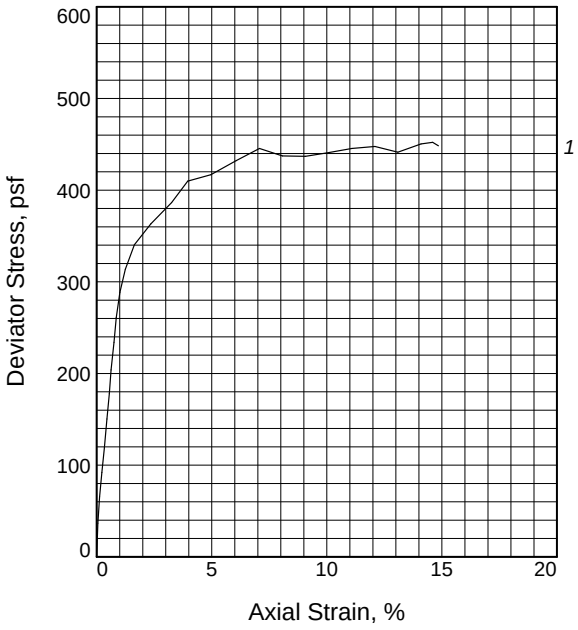




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 38.0'-40.0' **Sample Number:** BW-41 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	53.9
	Dry Density, pcf	64.1
	Saturation, %	90.2
	Void Ratio	1.5891
	Diameter, in.	2.827
	Height, in.	5.353
At Test	Water Content, %	59.7
	Dry Density, pcf	64.1
	Saturation, %	100.0
	Void Ratio	1.5891
	Diameter, in.	2.827
	Height, in.	5.353
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		2308.3
Fail. Stress, psf		445.5
Strain, %		7.1
Ult. Stress, psf		445.5
Strain, %		7.1
σ_1 Failure, psf		2753.8
σ_3 Failure, psf		2308.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(36))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

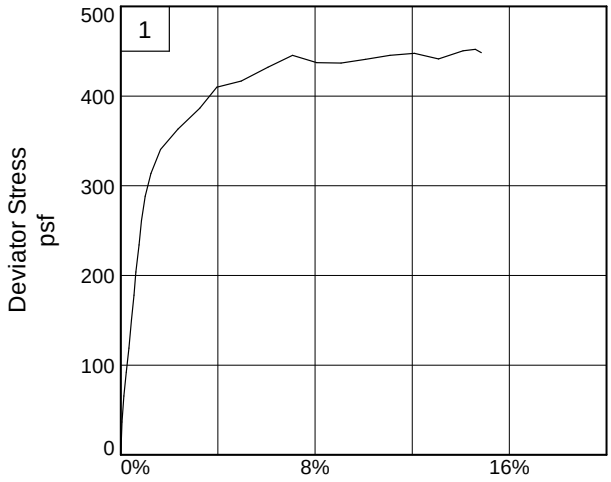
Project: Mobile River Bridge

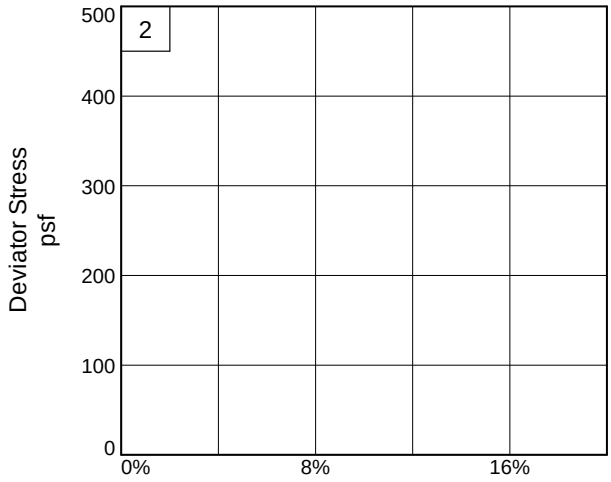
Source of Sample: Lab #7816 **Depth:** 48.0'-50.0'

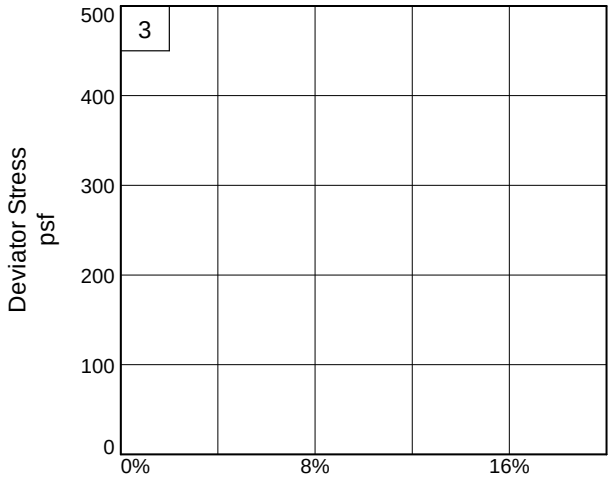
Sample Number: BW-41 T-4

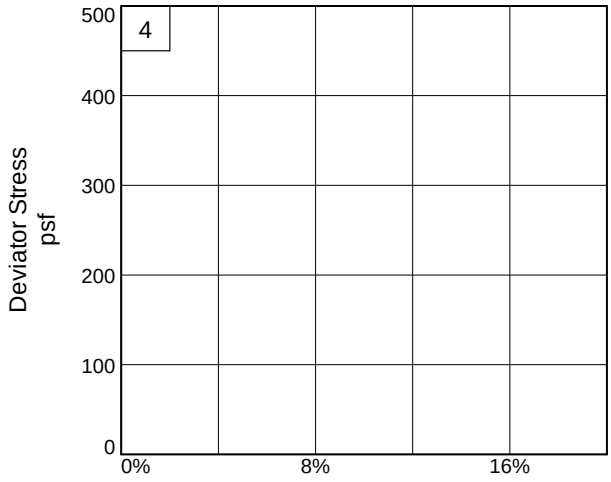
Proj. No.: 1511010228 **Date Sampled:**

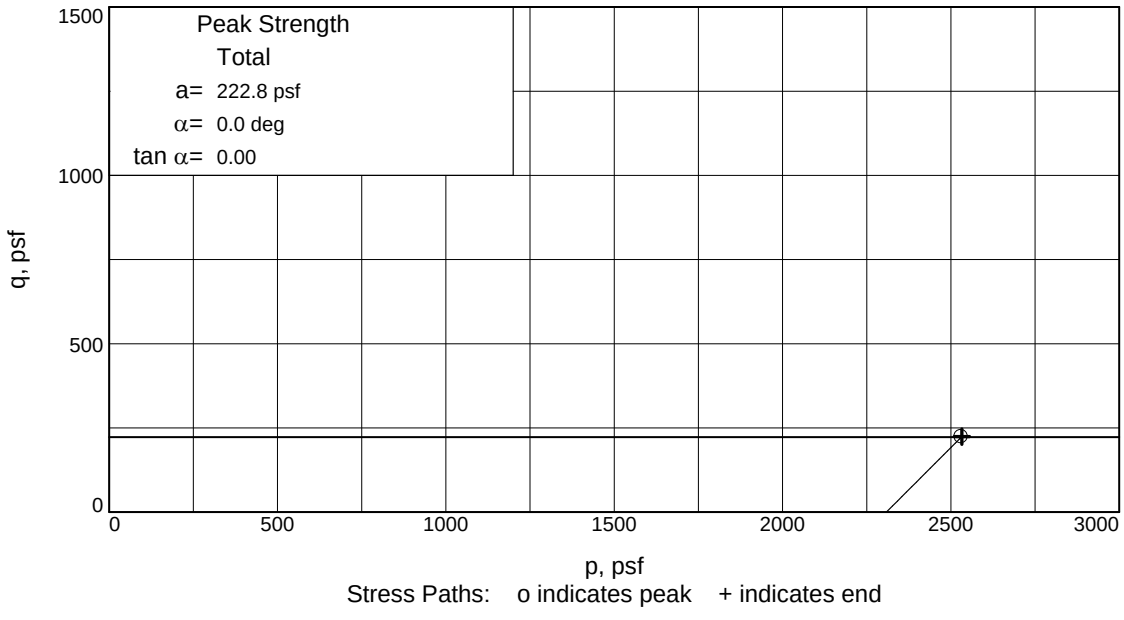
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Mobile, Alabama





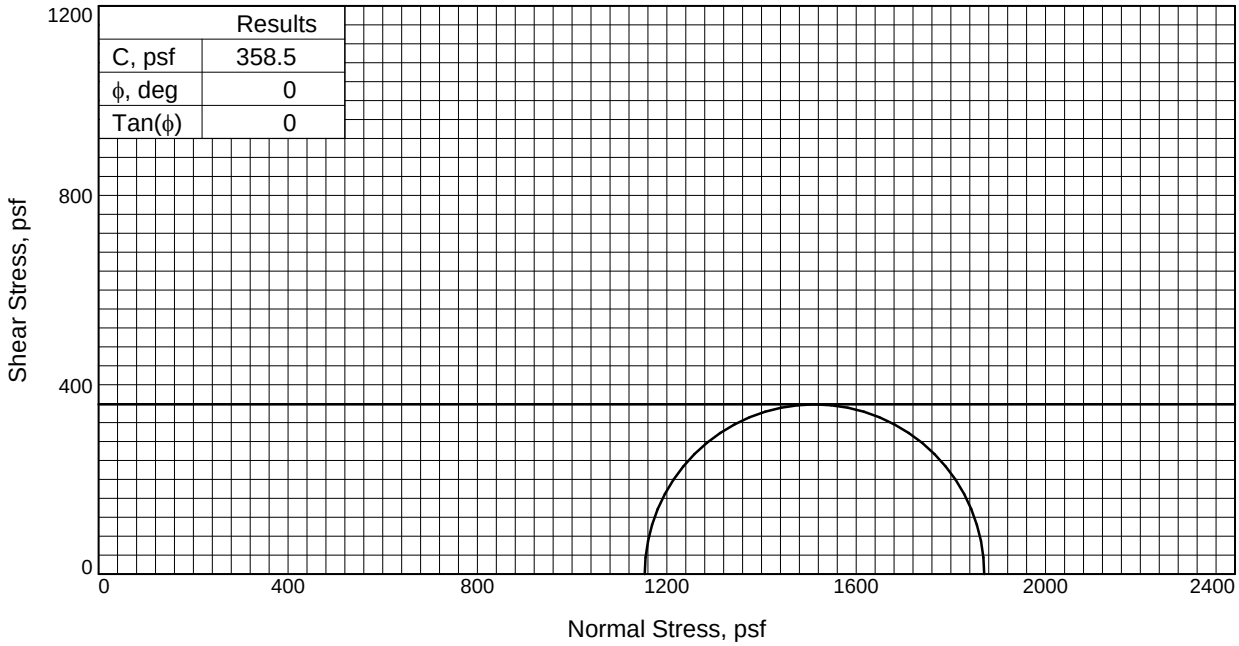


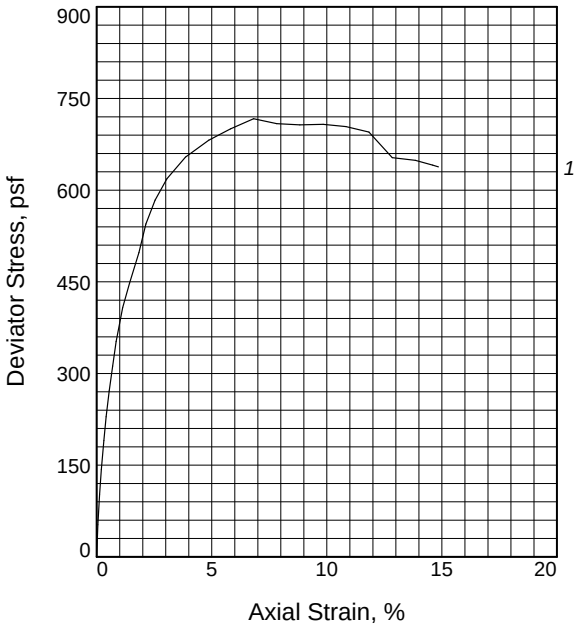




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 48.0'-50.0' **Sample Number:** BW-41 T-4
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	49.9
	Dry Density, pcf	73.8
	Saturation, %	106.4
	Void Ratio	1.2490
	Diameter, in.	2.824
	Height, in.	5.398
At Test	Water Content, %	49.8
	Dry Density, pcf	73.8
	Saturation, %	106.1
	Void Ratio	1.2490
	Diameter, in.	2.824
	Height, in.	5.398
Strain at peak, %		6.8
Back Pressure, psf		0.0
Cell Pressure, psf		1153.4
Fail. Stress, psf		716.9
Strain, %		6.8
Ult. Stress, psf		716.9
Strain, %		6.8
σ_1 Failure, psf		1870.3
σ_3 Failure, psf		1153.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(49))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

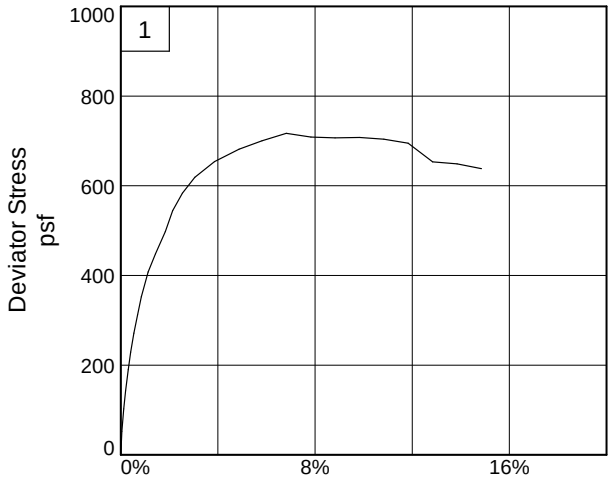
Project: Mobile River Bridge

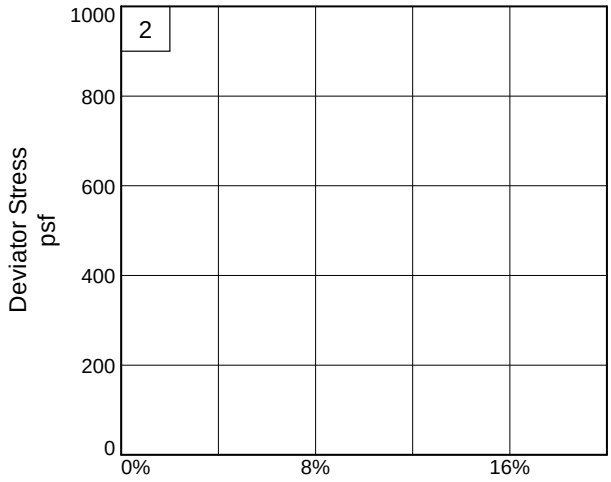
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5'

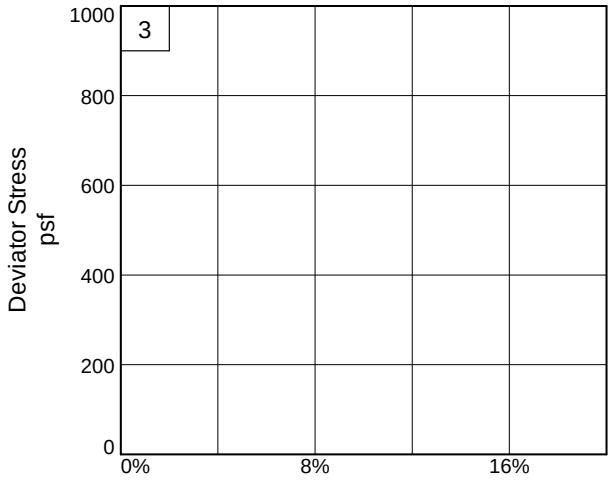
Sample Number: BW-42 T-1

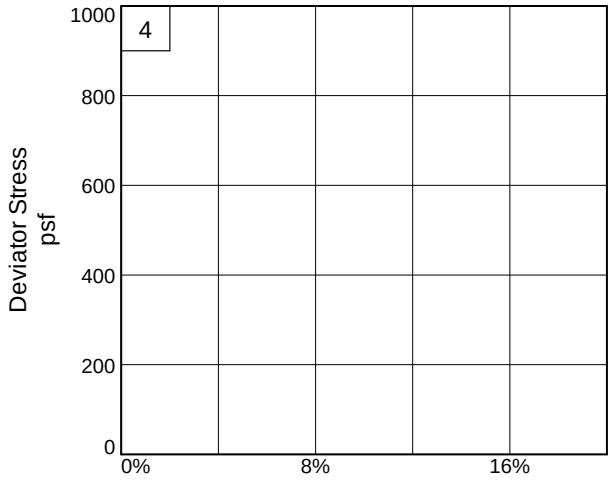
Proj. No.: 1511010228 **Date Sampled:**

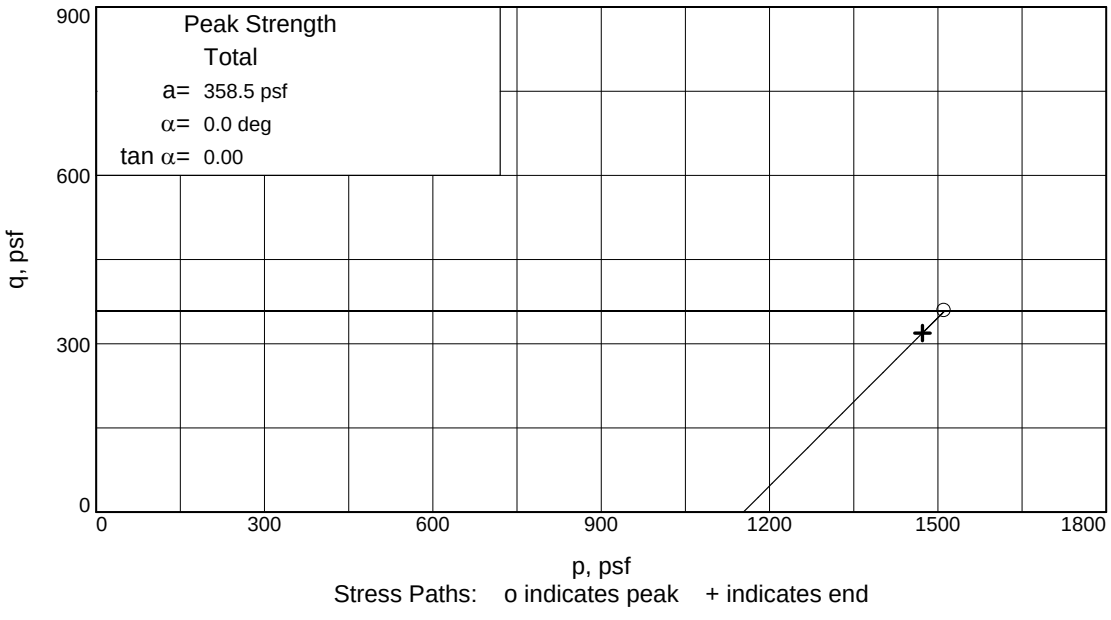
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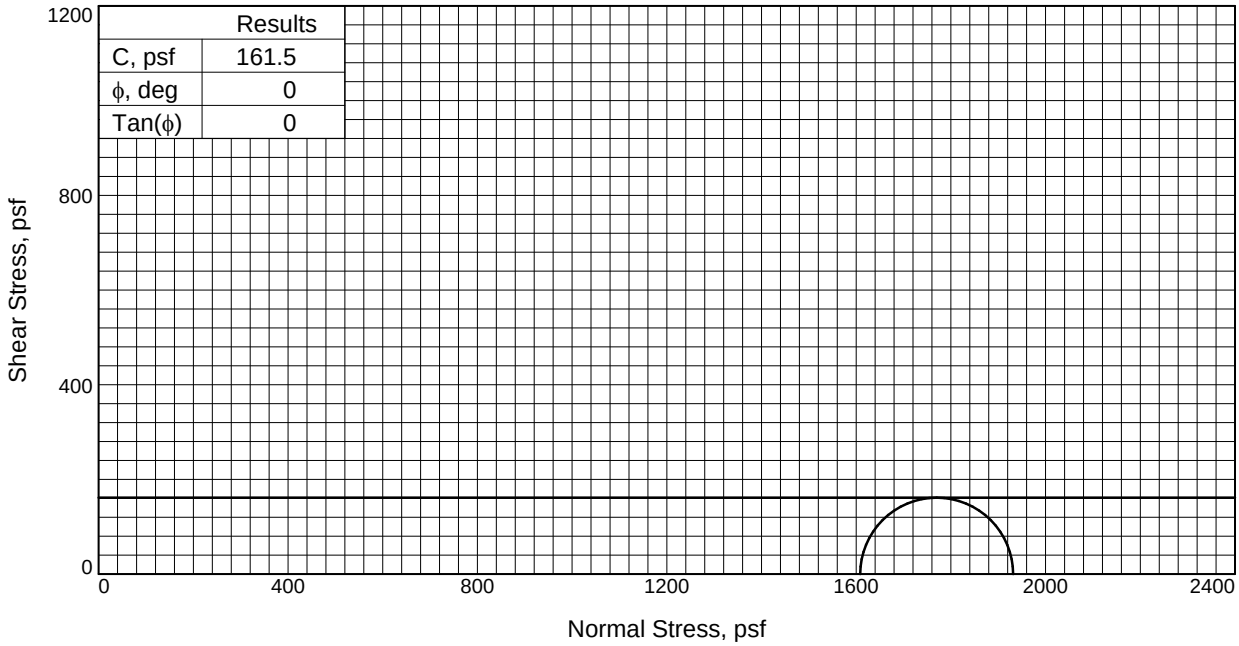


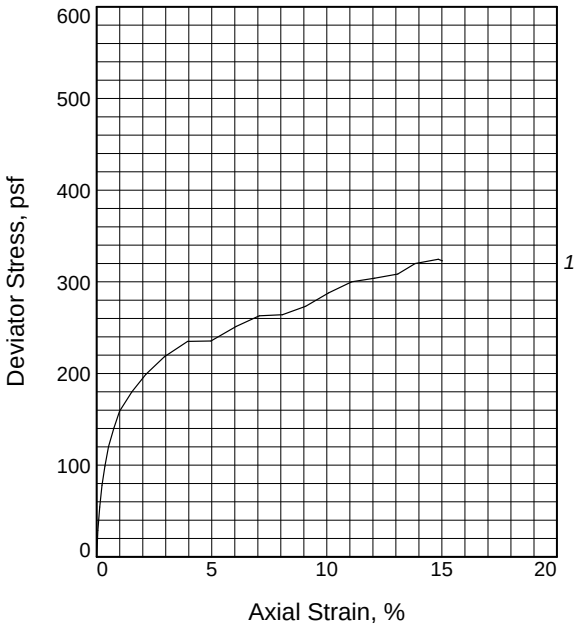




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5' **Sample Number:** BW-42 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	70.5
	Dry Density, pcf	59.1
	Saturation, %	103.6
	Void Ratio	1.8108
	Diameter, in.	2.840
	Height, in.	5.338
At Test	Water Content, %	69.9
	Dry Density, pcf	59.1
	Saturation, %	102.7
	Void Ratio	1.8108
	Diameter, in.	2.840
	Height, in.	5.338
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		1608.5
Fail. Stress, psf		322.9
Strain, %		15.0
Ult. Stress, psf		322.9
Strain, %		15.0
σ_1 Failure, psf		1931.4
σ_3 Failure, psf		1608.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(64))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

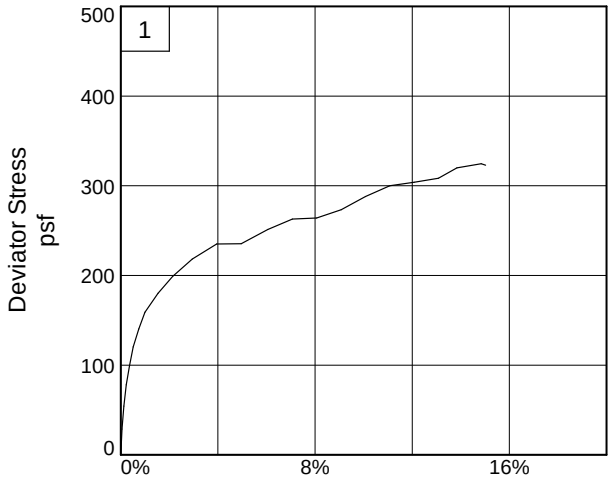
Project: Mobile River Bridge

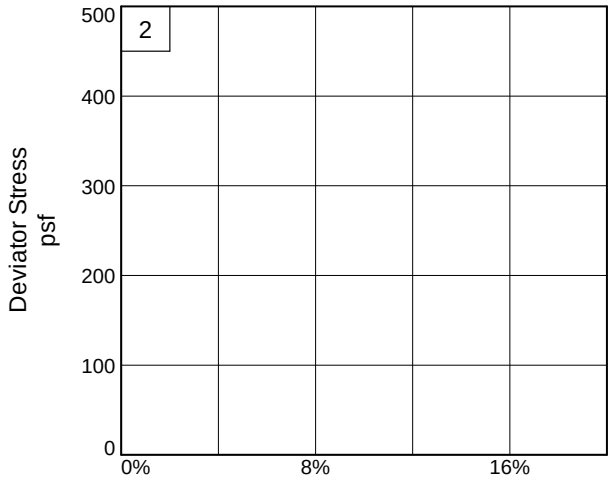
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5'

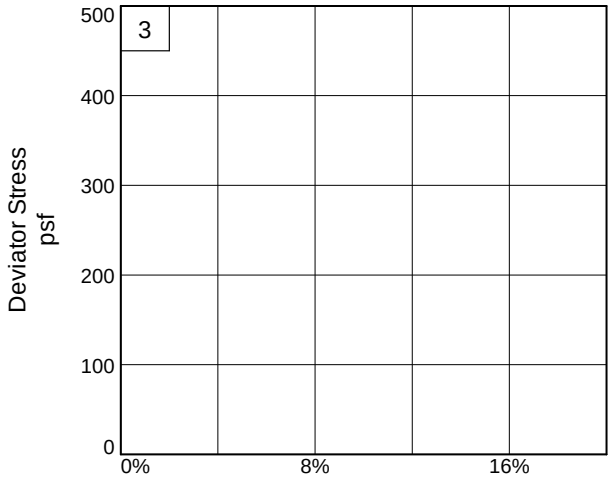
Sample Number: BW-42 T-2

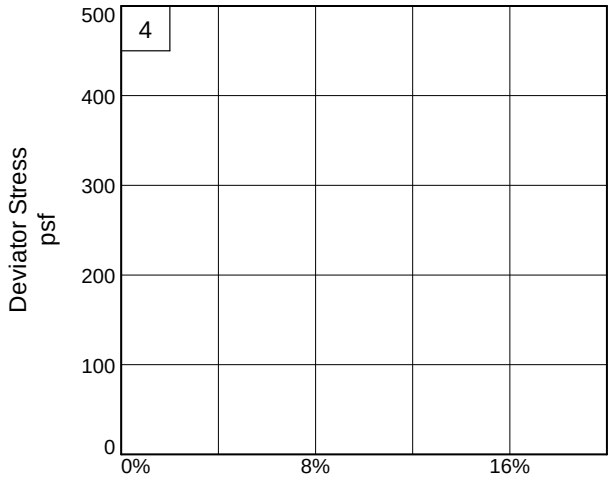
Proj. No.: 1511010228 **Date Sampled:**

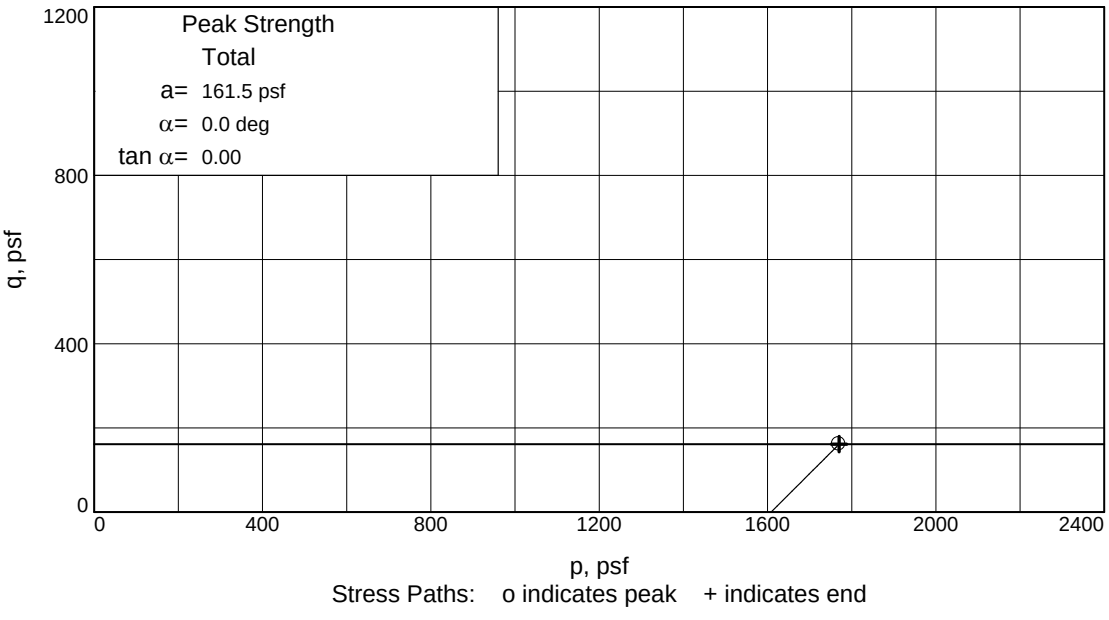
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

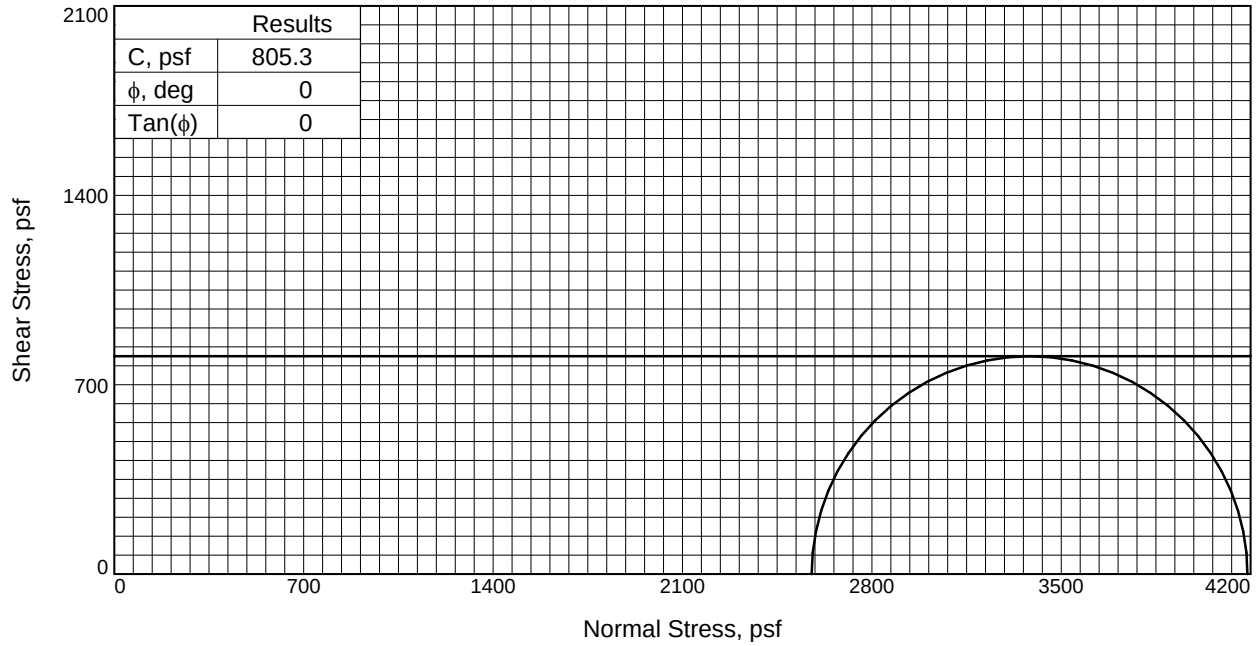
Client: ALDOT

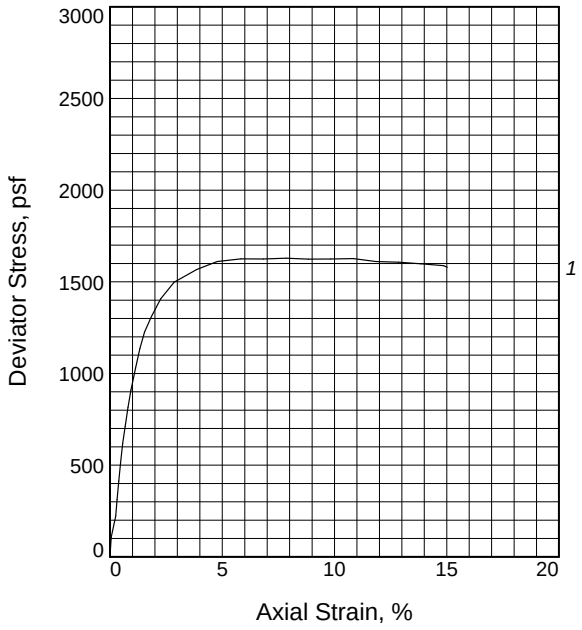
Project: Mobile River Bridge

Source of Sample: Lab #7816 **Depth:** 33.5'-35.5' **Sample Number:** BW-42 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	36.4
	Dry Density, pcf	85.2
	Saturation, %	106.7
	Void Ratio	0.8715
	Diameter, in.	2.858
	Height, in.	5.481
At Test	Water Content, %	36.8
	Dry Density, pcf	85.2
	Saturation, %	108.0
	Void Ratio	0.8715
	Diameter, in.	2.858
	Height, in.	5.481
Strain at peak, %		4.8
Back Pressure, psf		0.0
Cell Pressure, psf		2577.6
Fail. Stress, psf		1610.6
Strain, %		4.8
Ult. Stress, psf		1610.6
Strain, %		4.8
σ_1 Failure, psf		4188.2
σ_3 Failure, psf		2577.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(62))

Specific Gravity= 2.554

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

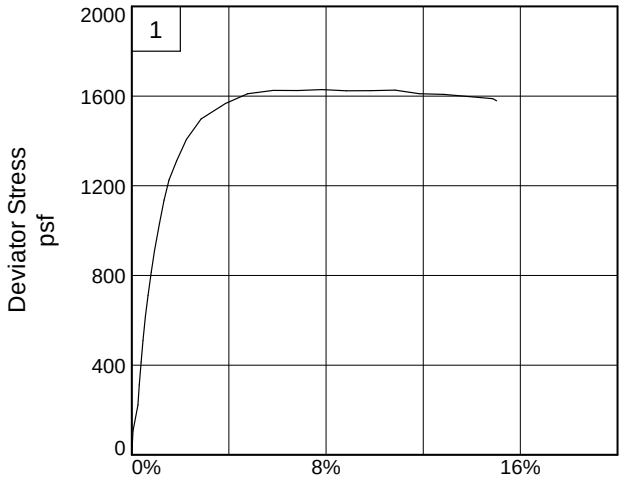
Project: Mobile River Bridge

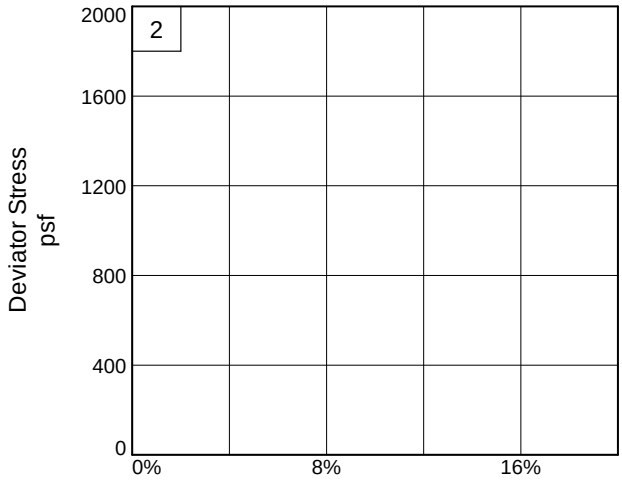
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5'

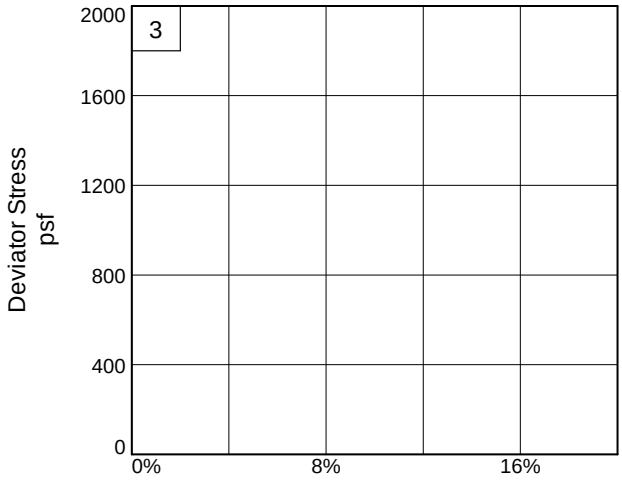
Sample Number: BW-42 T-4

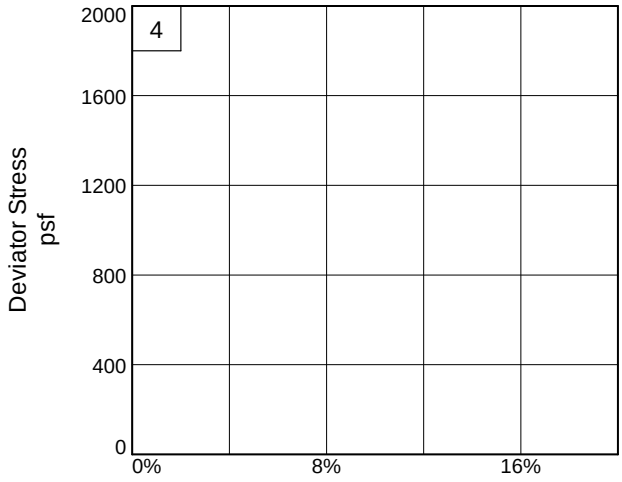
Proj. No.: 1511010228 **Date Sampled:**

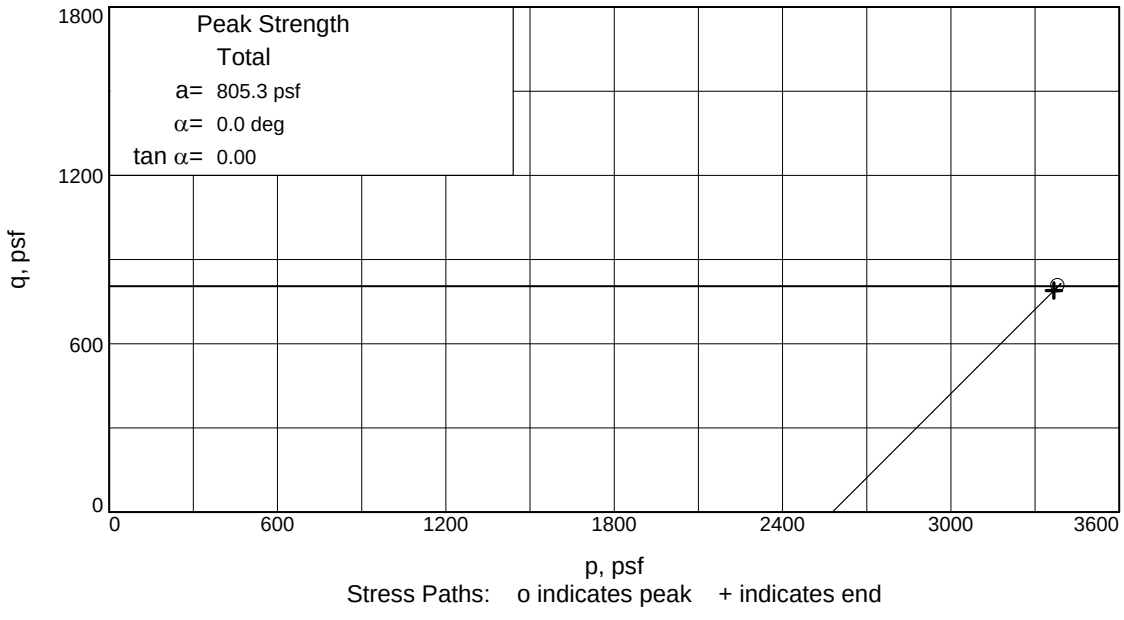
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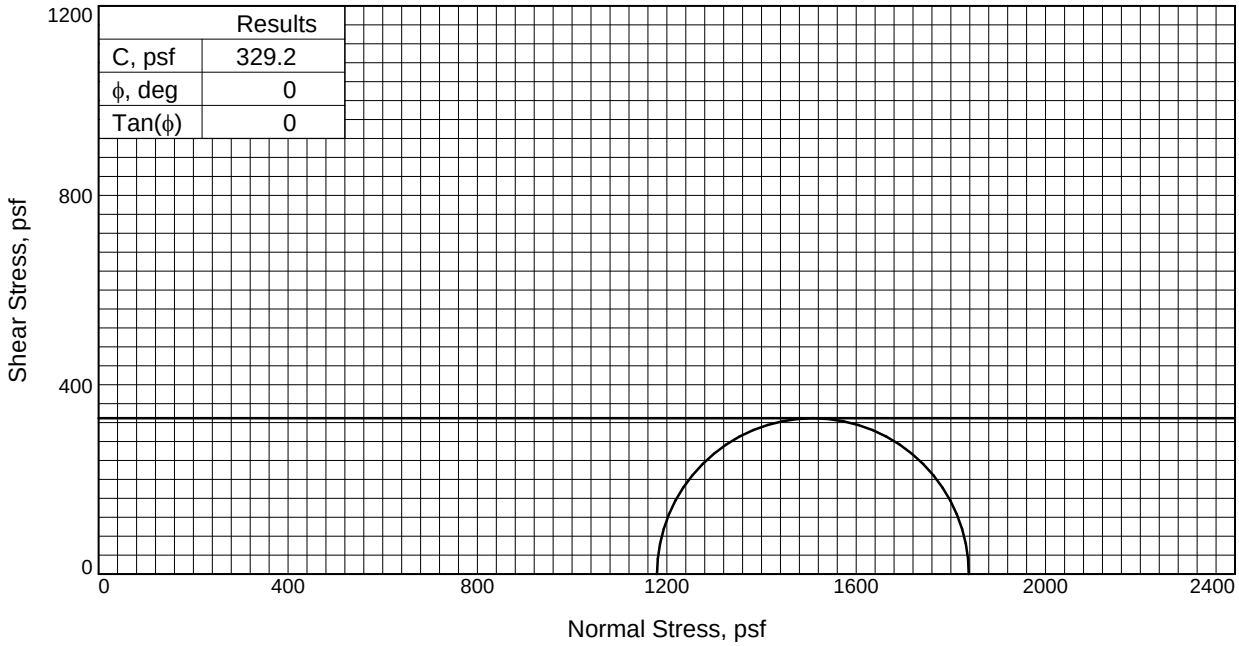


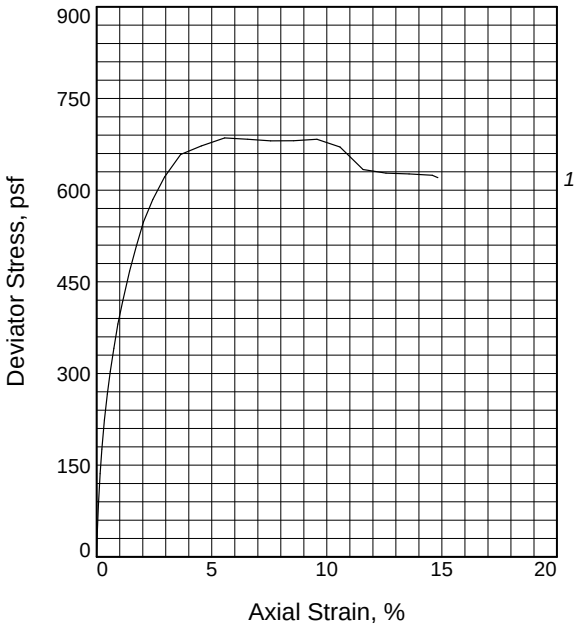




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5' **Sample Number:** BW-42 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	51.1
	Dry Density, pcf	72.3
	Saturation, %	104.9
	Void Ratio	1.2959
	Diameter, in.	2.799
	Height, in.	5.547
At Test	Water Content, %	50.2
	Dry Density, pcf	72.3
	Saturation, %	103.1
	Void Ratio	1.2959
	Diameter, in.	2.799
	Height, in.	5.547
Strain at peak, %		3.6
Back Pressure, psf		0.0
Cell Pressure, psf		1179.4
Fail. Stress, psf		658.4
Strain, %		3.6
Ult. Stress, psf		658.4
Strain, %		3.6
σ_1 Failure, psf		1837.8
σ_3 Failure, psf		1179.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description:

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

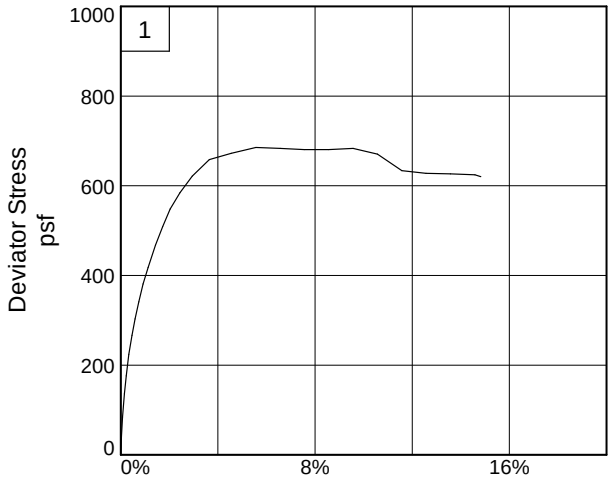
Project: Mobile River Bridge

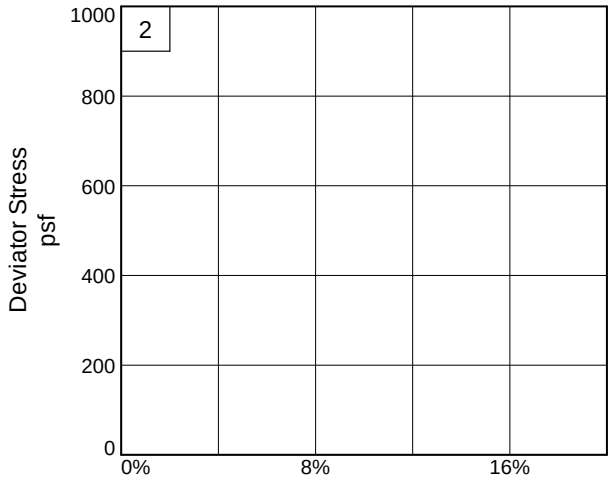
Source of Sample: Lab #7816 **Depth:** 18.5'-20.5'

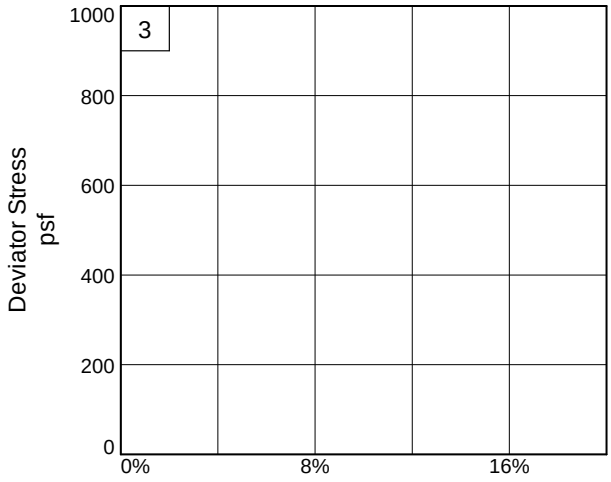
Sample Number: BW-43 T-1

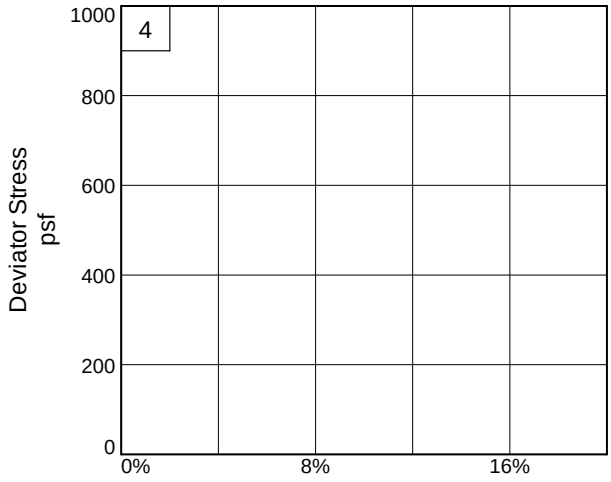
Proj. No.: 1511010228 **Date Sampled:**

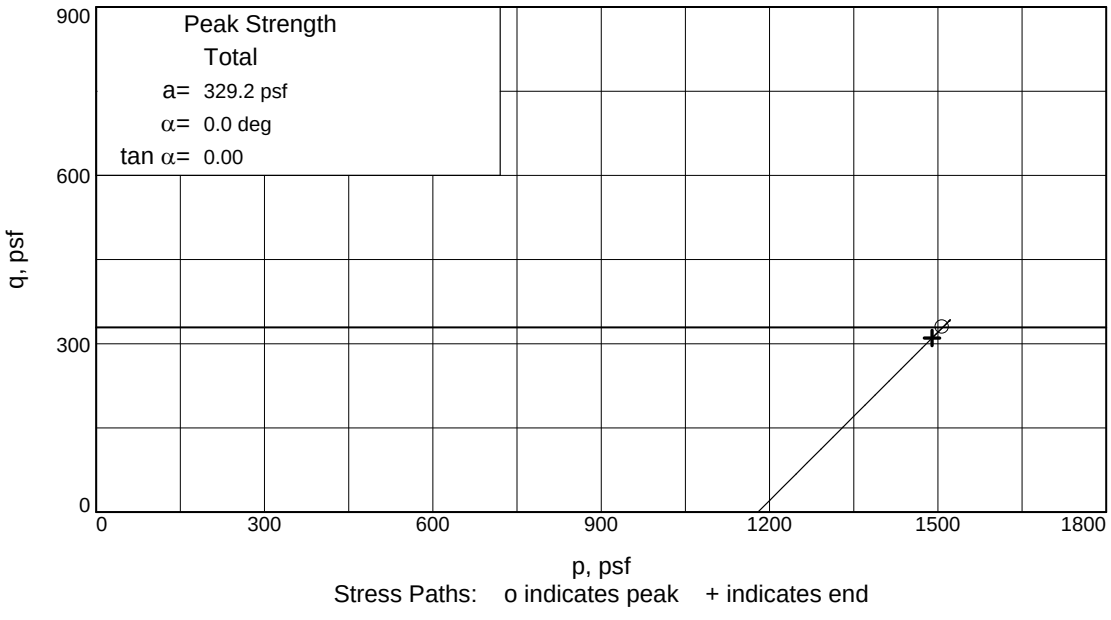
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Thompson Engineering
Mobile, Alabama





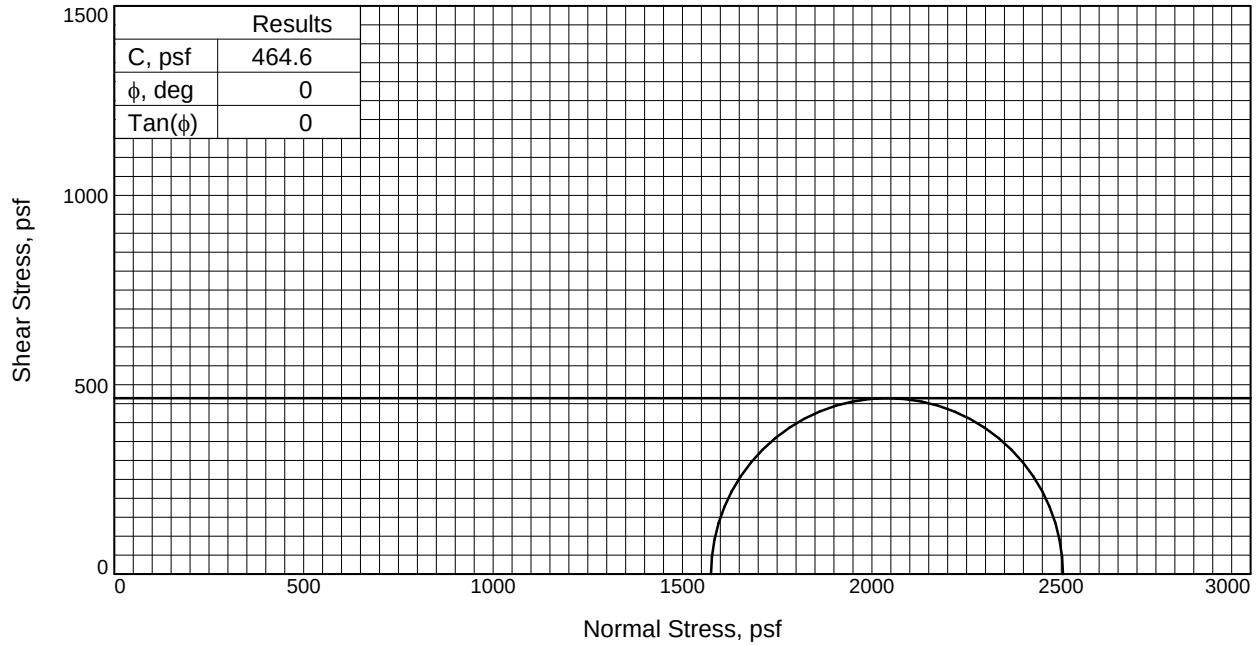


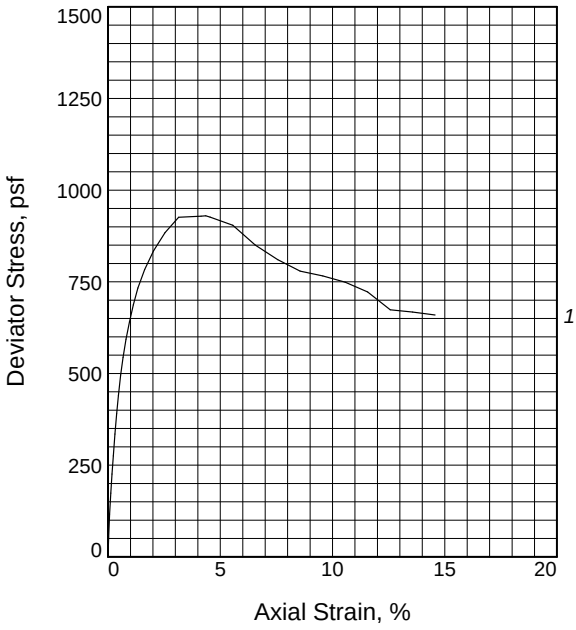




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 18.5'-20.5' **Sample Number:** BW-43 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	62.2
	Dry Density, pcf	63.0
	Saturation, %	101.1
	Void Ratio	1.6356
	Diameter, in.	2.807
	Height, in.	5.405
At Test	Water Content, %	65.0
	Dry Density, pcf	63.0
	Saturation, %	105.8
	Void Ratio	1.6356
	Diameter, in.	2.807
	Height, in.	5.405
Strain at peak, %		4.1
Back Pressure, psf		0.0
Cell Pressure, psf		1575.4
Fail. Stress, psf		929.2
Strain, %		4.1
Ult. Stress, psf		929.2
Strain, %		4.1
σ_1 Failure, psf		2504.5
σ_3 Failure, psf		1575.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(76))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

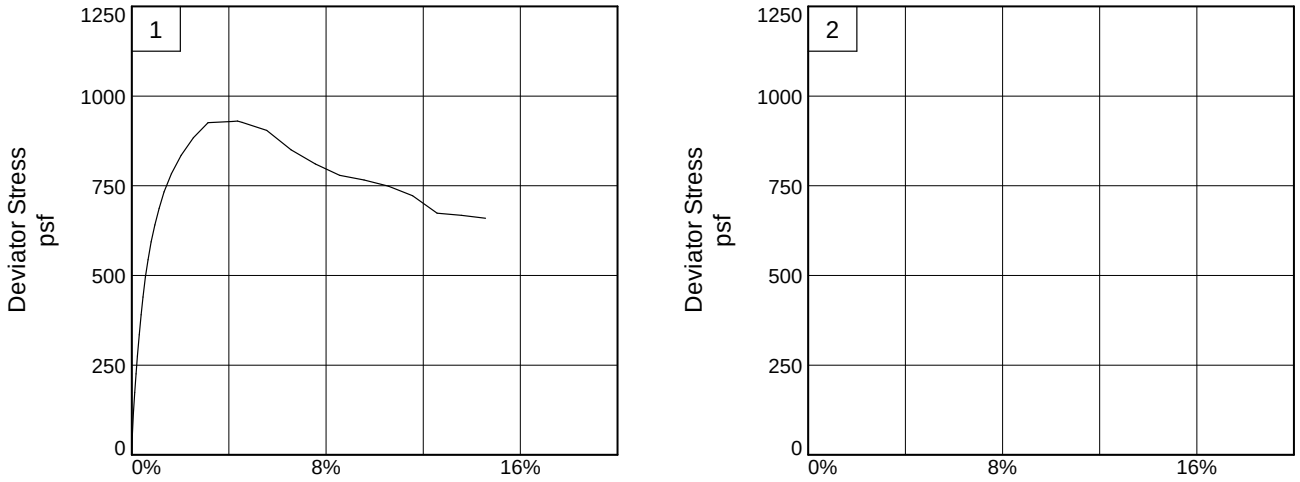
Project: Mobile River Bridge

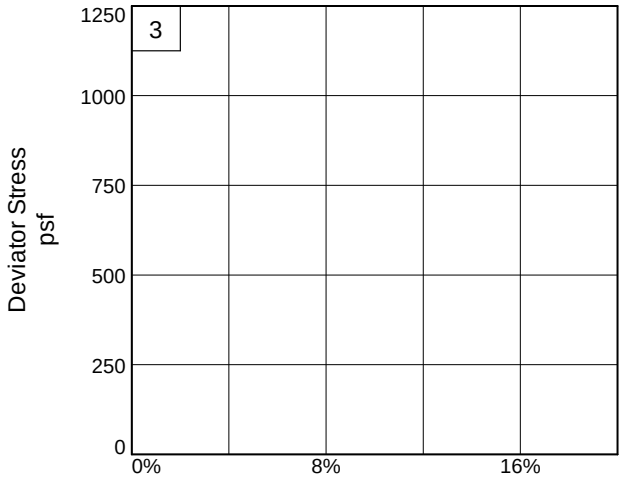
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5'

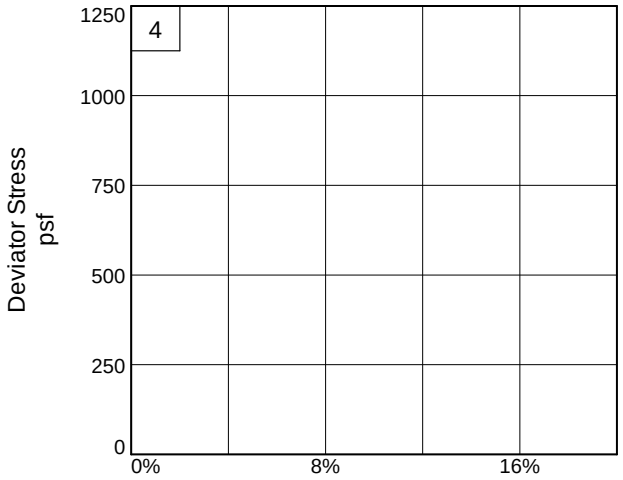
Sample Number: BW-43 T-2

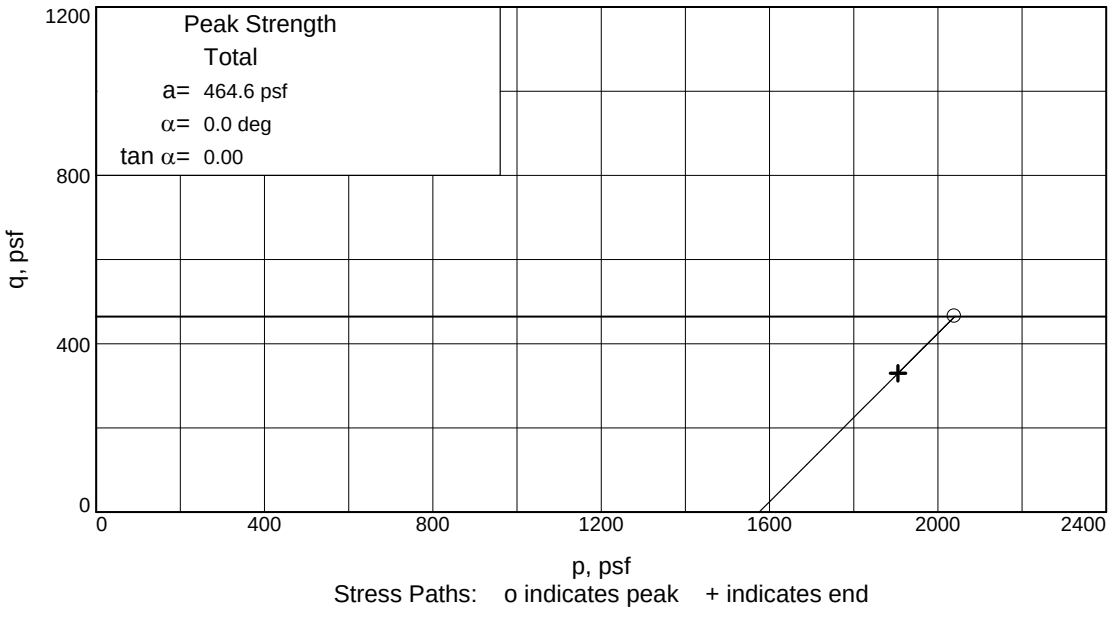
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



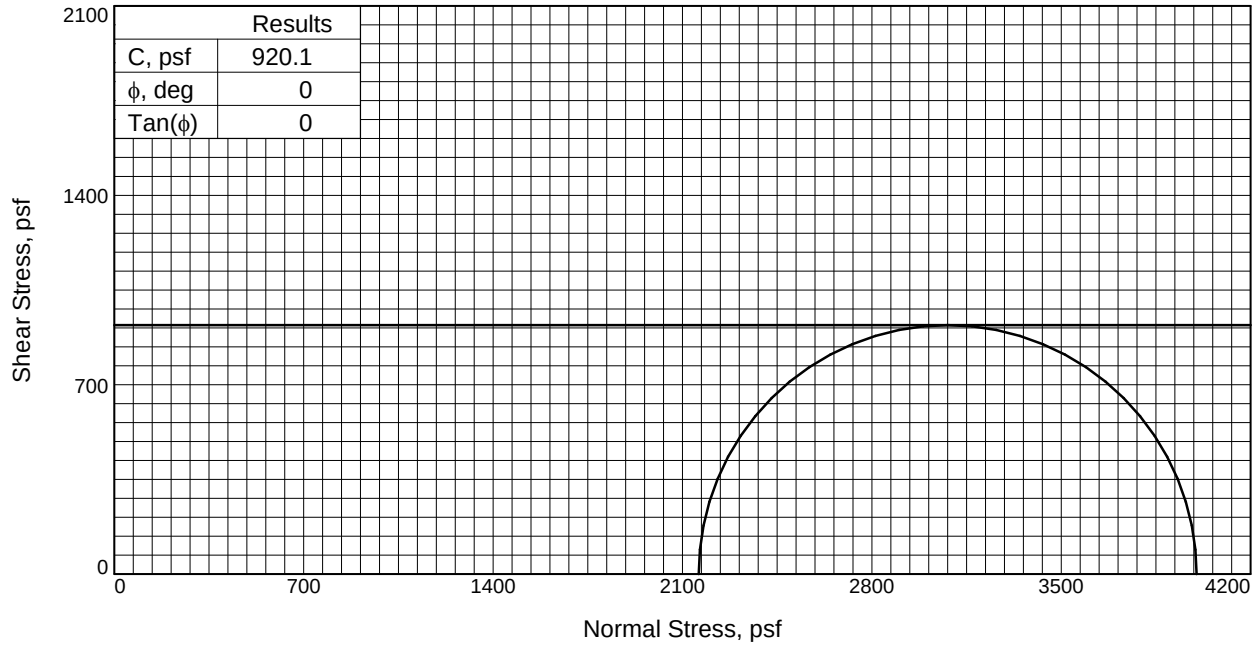


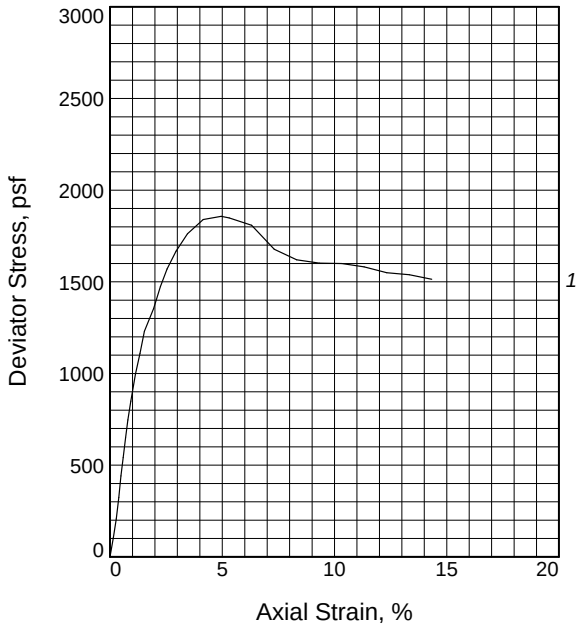




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5' **Sample Number:** BW-43 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	146.3
	Dry Density, pcf	33.4
	Saturation, %	98.0
	Void Ratio	3.9702
	Diameter, in.	2.823
	Height, in.	5.587
At Test	Water Content, %	131.1
	Dry Density, pcf	33.4
	Saturation, %	87.8
	Void Ratio	3.9702
	Diameter, in.	2.823
	Height, in.	5.587
Strain at peak, %		4.1
Back Pressure, psf		0.0
Cell Pressure, psf		2160.0
Fail. Stress, psf		1840.1
Strain, %		4.1
Ult. Stress, psf		1840.1
Strain, %		4.1
σ_1 Failure, psf		4000.1
σ_3 Failure, psf		2160.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: ELASTIC SILT(MH A-7-5(52))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

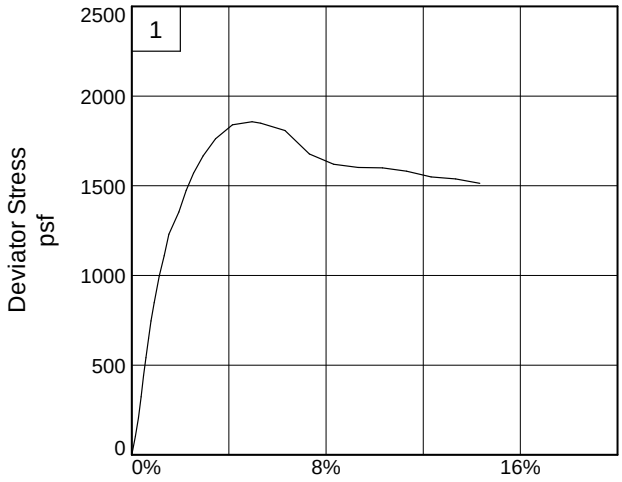
Project: Mobile River Bridge

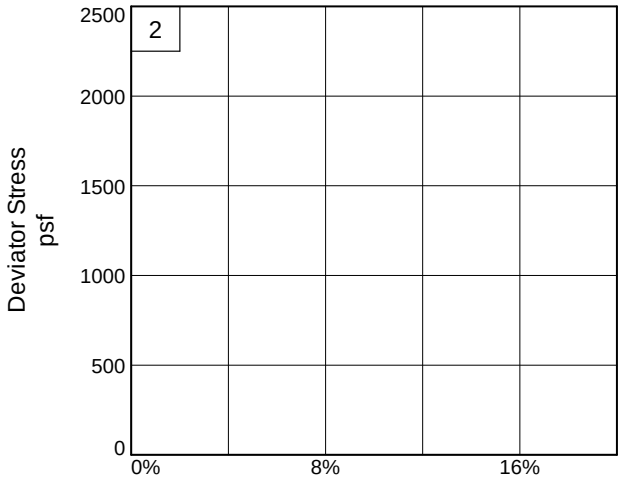
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5'

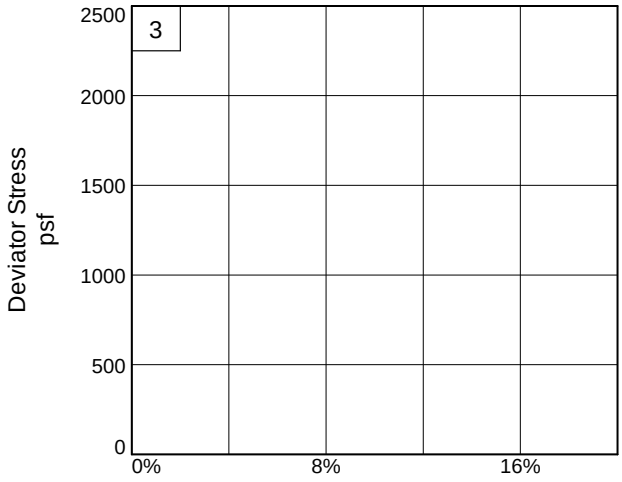
Sample Number: BW-43 T-3

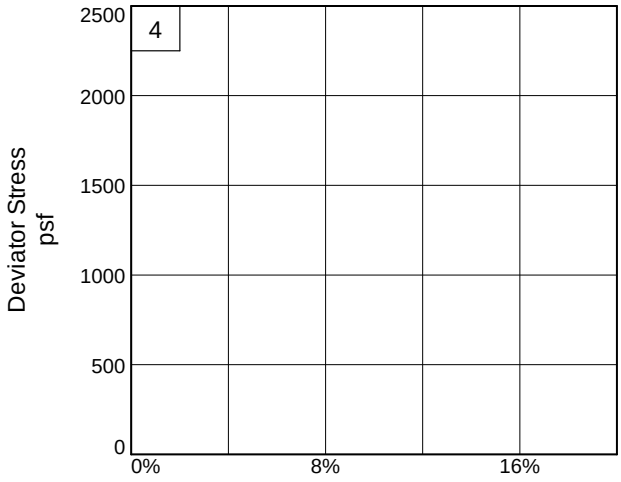
Proj. No.: 1511010228 **Date Sampled:**

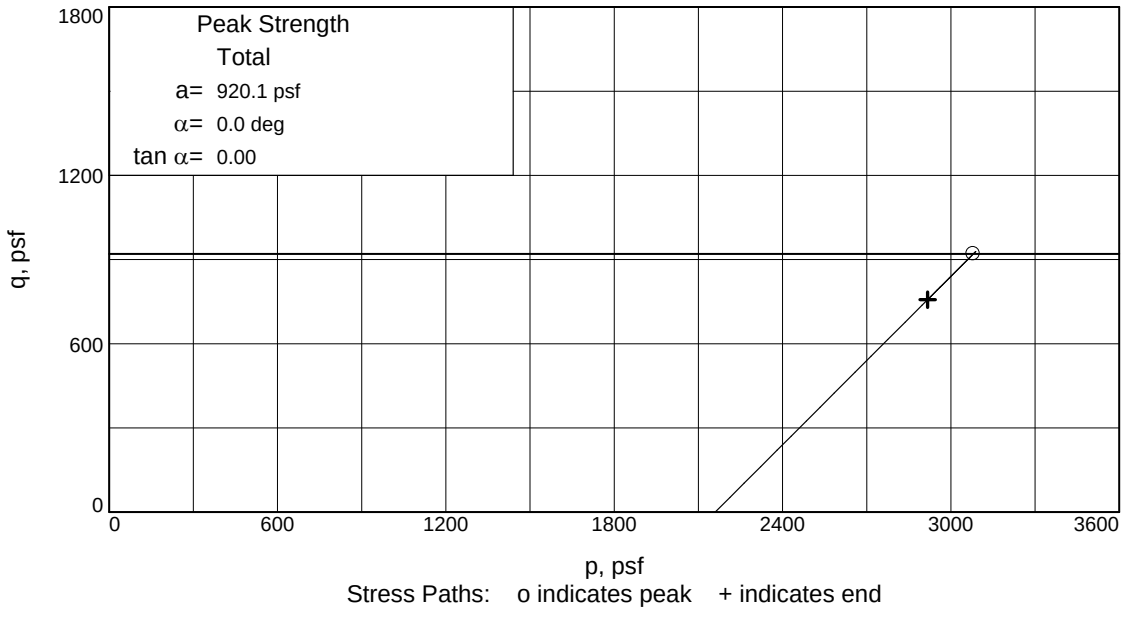
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Mobile, Alabama







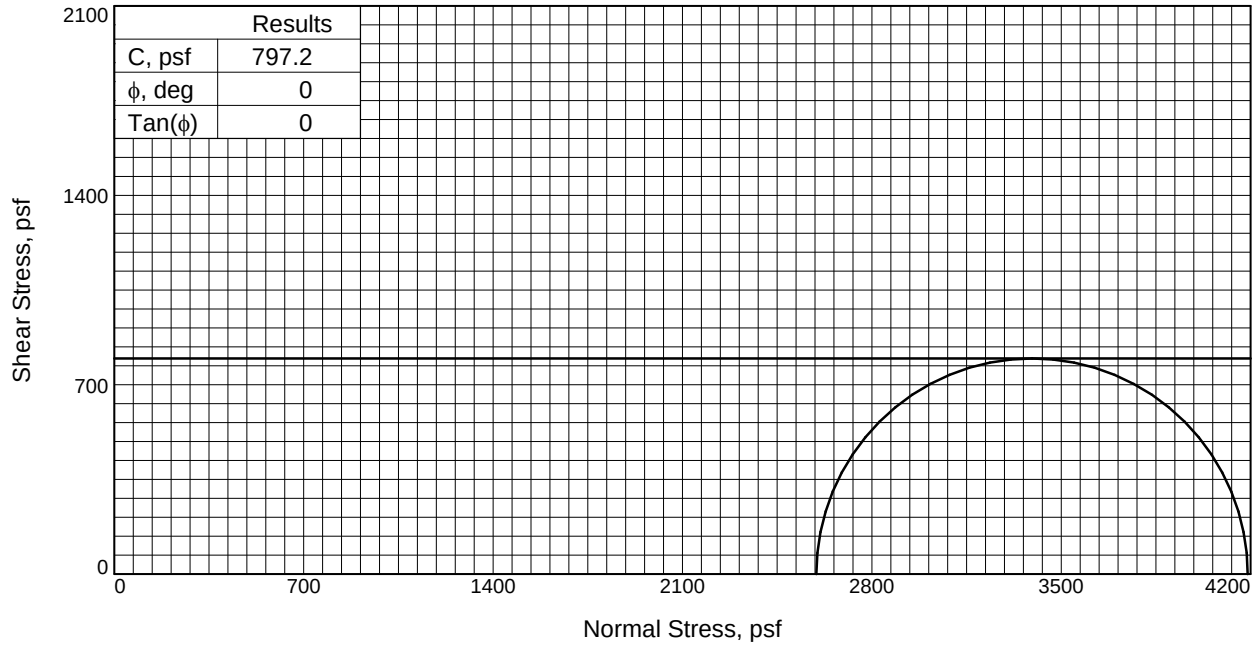


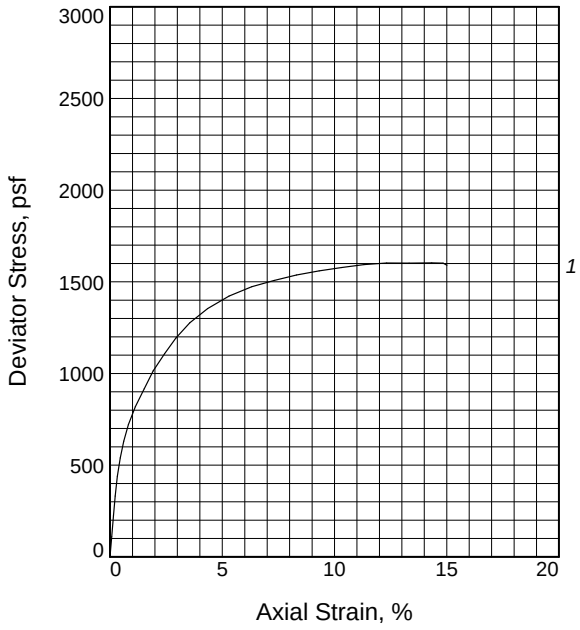


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5' **Sample Number:** BW-43 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	23.7
	Dry Density, pcf	100.3
	Saturation, %	96.4
	Void Ratio	0.6552
	Diameter, in.	2.832
	Height, in.	5.477
At Test	Water Content, %	30.0
	Dry Density, pcf	100.3
	Saturation, %	121.7
	Void Ratio	0.6552
	Diameter, in.	2.832
	Height, in.	5.477
Strain at peak, %		11.3
Back Pressure, psf		0.0
Cell Pressure, psf		2594.9
Fail. Stress, psf		1594.3
Strain, %		11.3
Ult. Stress, psf		1594.3
Strain, %		11.3
σ_1 Failure, psf		4189.2
σ_3 Failure, psf		2594.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(30))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

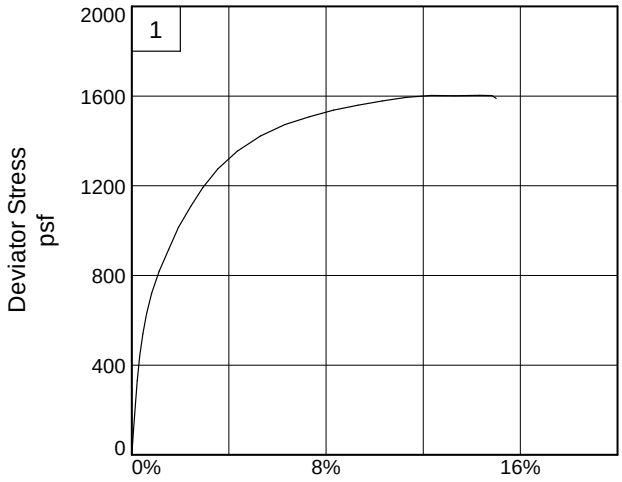
Project: Mobile River Bridge

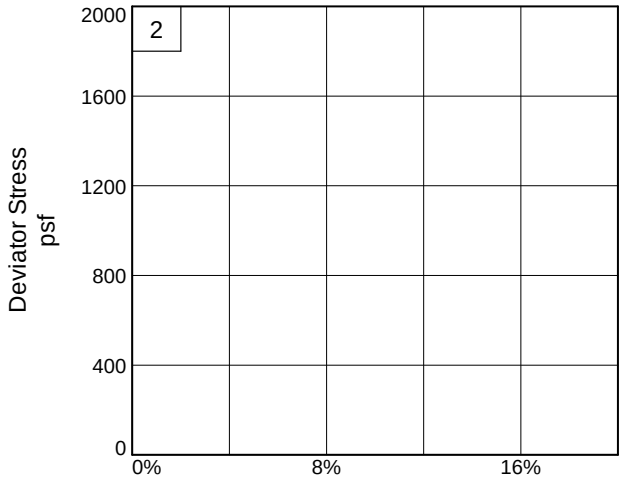
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5'

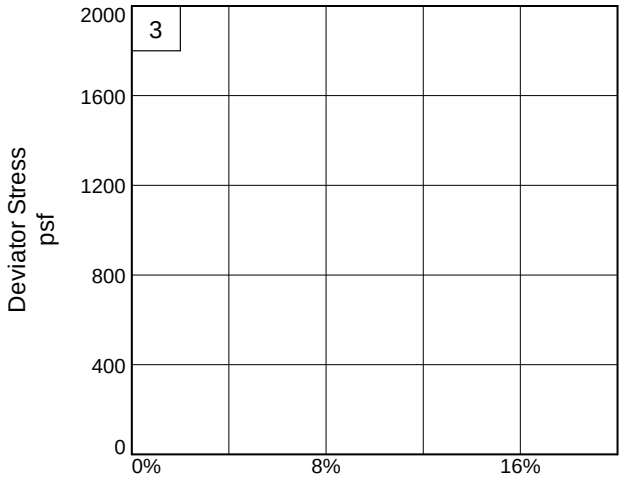
Sample Number: BW-43 T-4

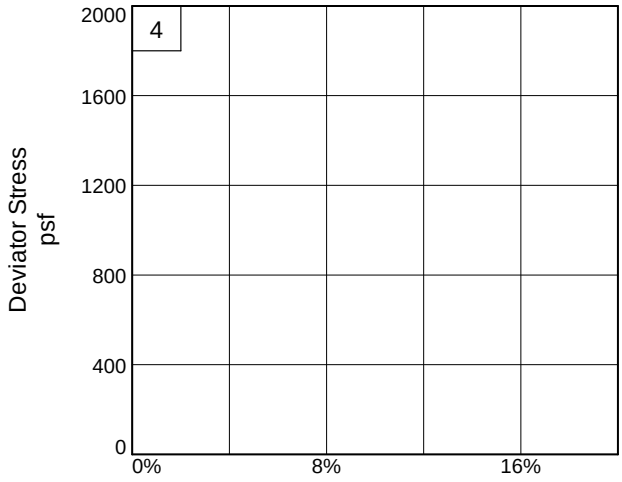
Proj. No.: 1511010228 **Date Sampled:**

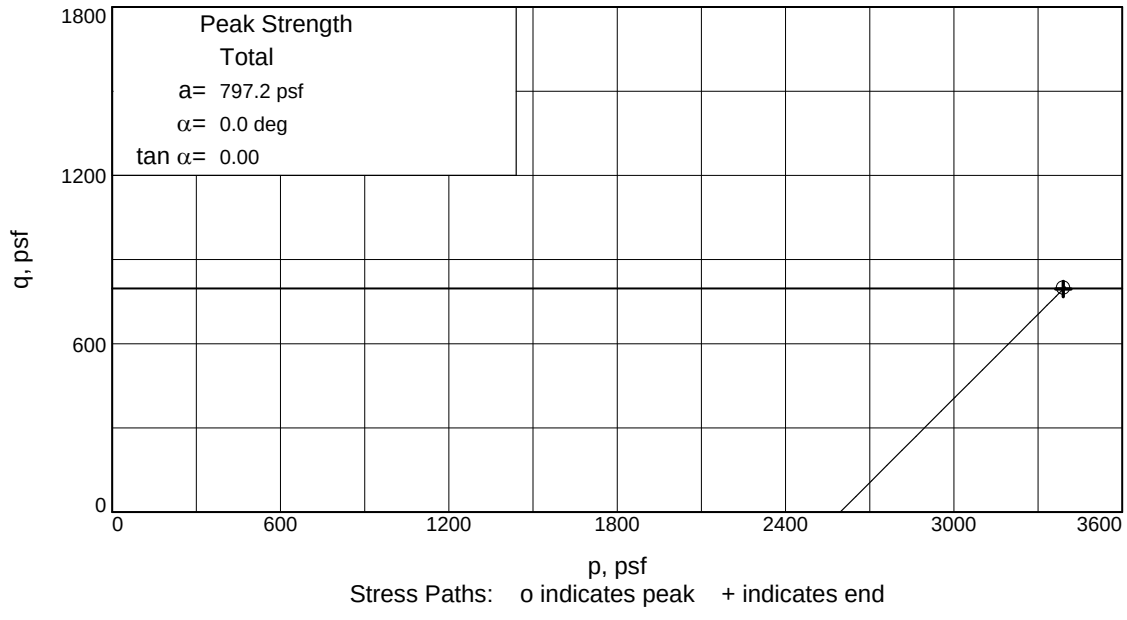
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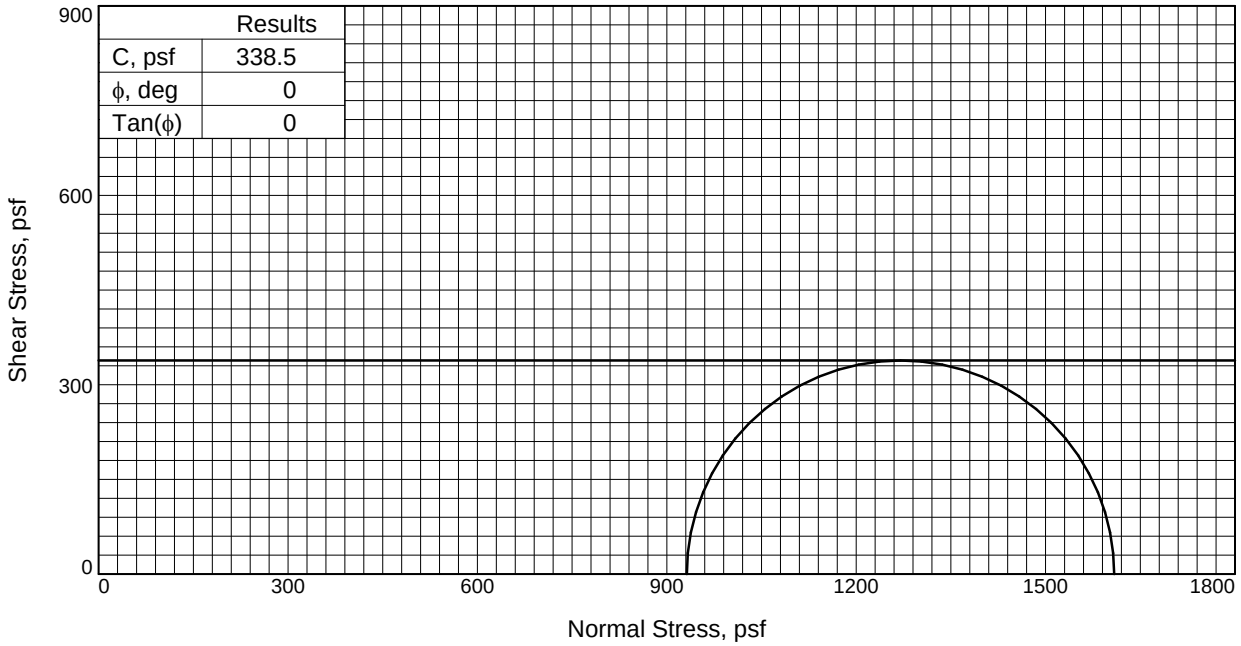


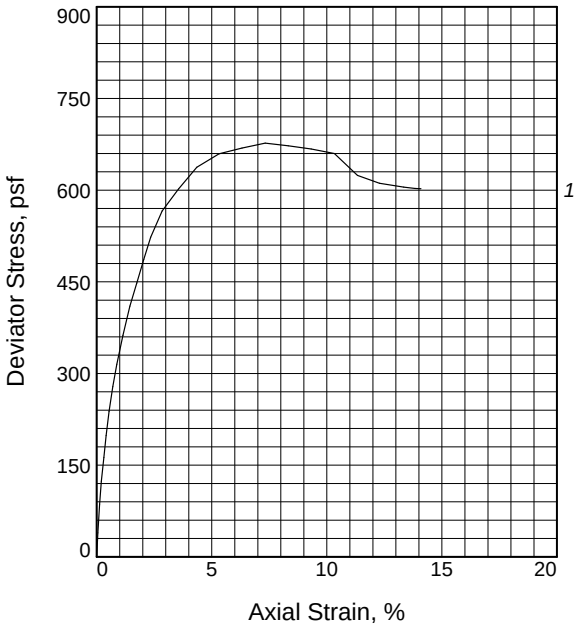




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5' **Sample Number:** BW-43 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	51.7
	Dry Density, pcf	71.2
	Saturation, %	103.3
	Void Ratio	1.3328
	Diameter, in.	2.791
	Height, in.	5.572
At Test	Water Content, %	53.2
	Dry Density, pcf	71.2
	Saturation, %	106.1
	Void Ratio	1.3328
	Diameter, in.	2.791
	Height, in.	5.572
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		931.7
Fail. Stress, psf		676.9
Strain, %		7.3
Ult. Stress, psf		676.9
Strain, %		7.3
σ_1 Failure, psf		1608.6
σ_3 Failure, psf		931.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(44))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

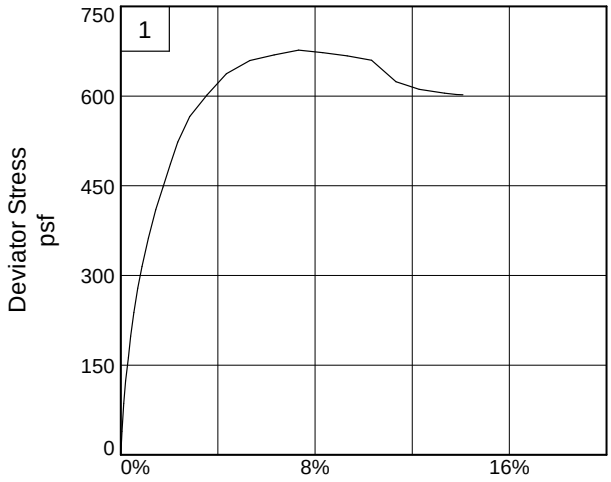
Project: Mobile River Bridge

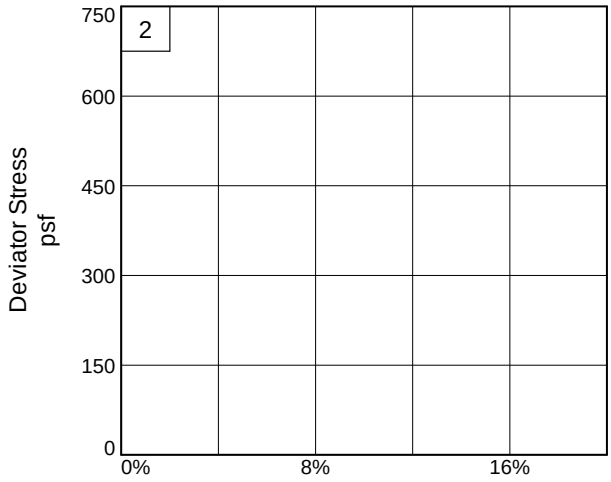
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5'

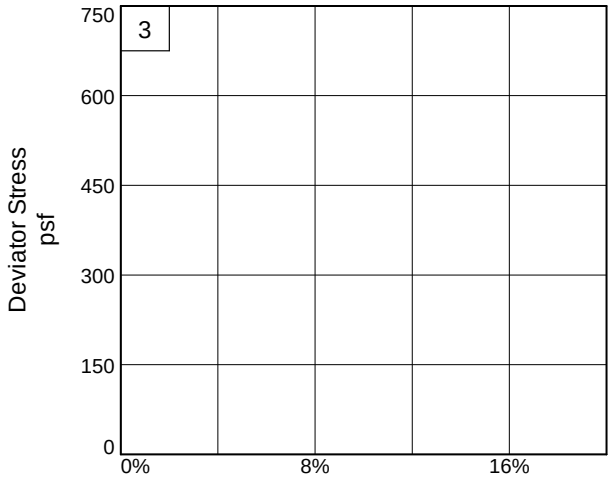
Sample Number: BW-44 T-1

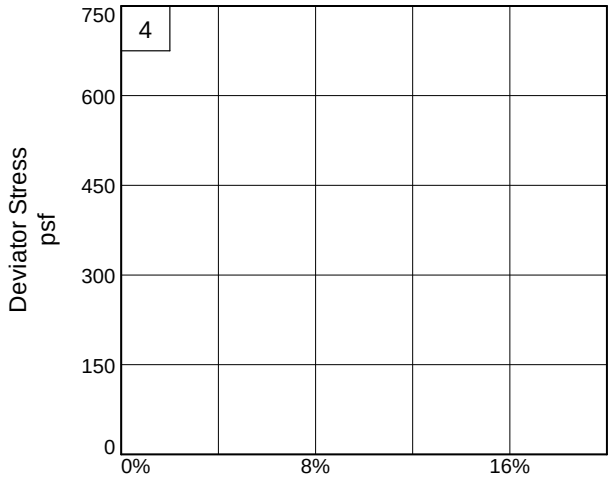
Proj. No.: 1511010228 **Date Sampled:**

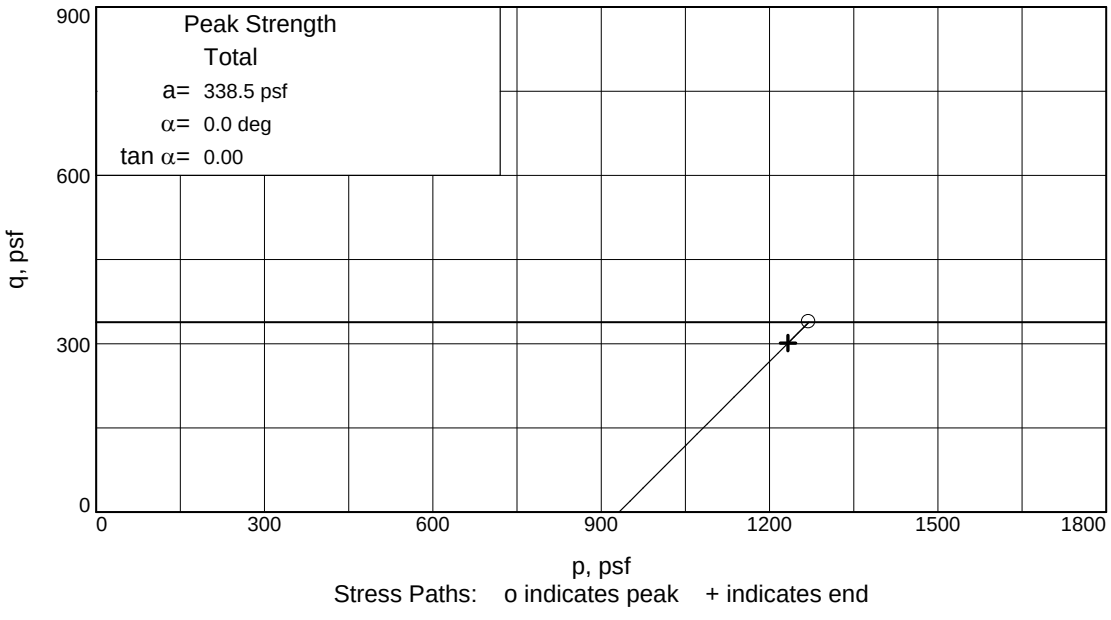
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Mobile, Alabama





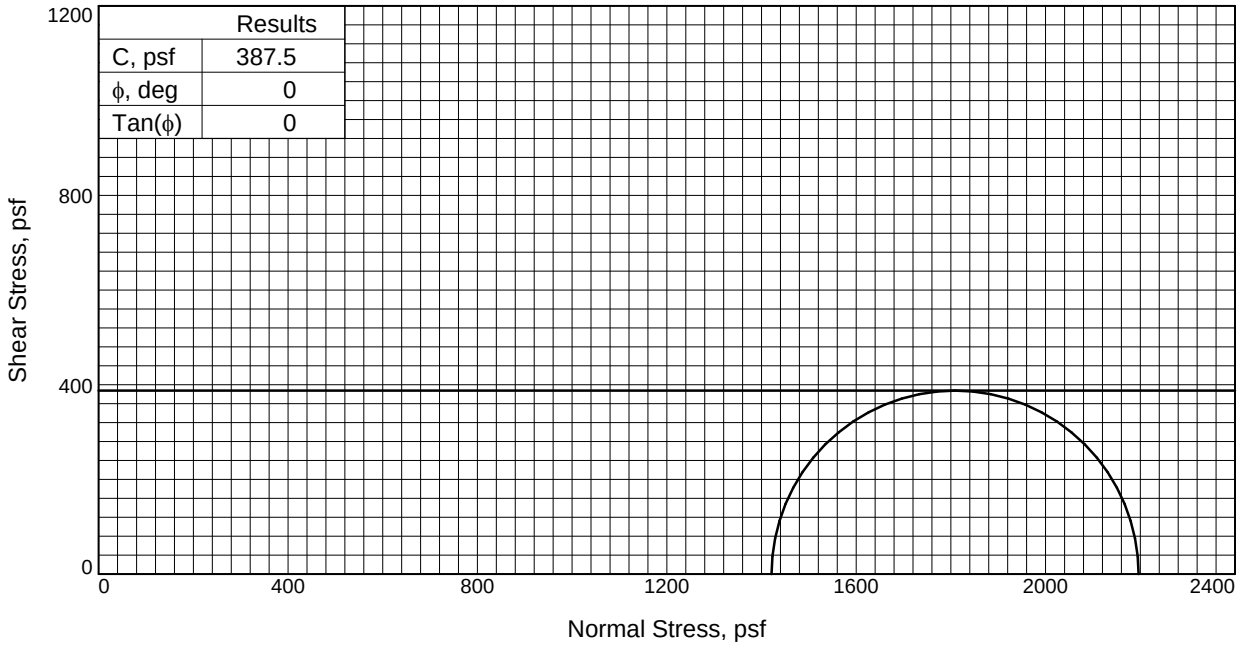


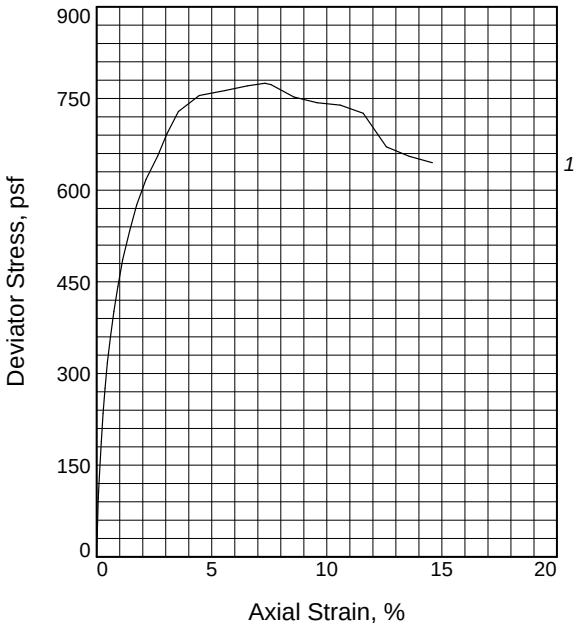




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5' **Sample Number:** BW-44 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	60.9
	Dry Density, pcf	64.0
	Saturation, %	101.6
	Void Ratio	1.5956
	Diameter, in.	2.817
	Height, in.	5.574
At Test	Water Content, %	63.1
	Dry Density, pcf	64.0
	Saturation, %	105.3
	Void Ratio	1.5956
	Diameter, in.	2.817
	Height, in.	5.574
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		1421.3
Fail. Stress, psf		775.0
Strain, %		7.3
Ult. Stress, psf		775.0
Strain, %		7.3
σ_1 Failure, psf		2196.3
σ_3 Failure, psf		1421.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(45))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

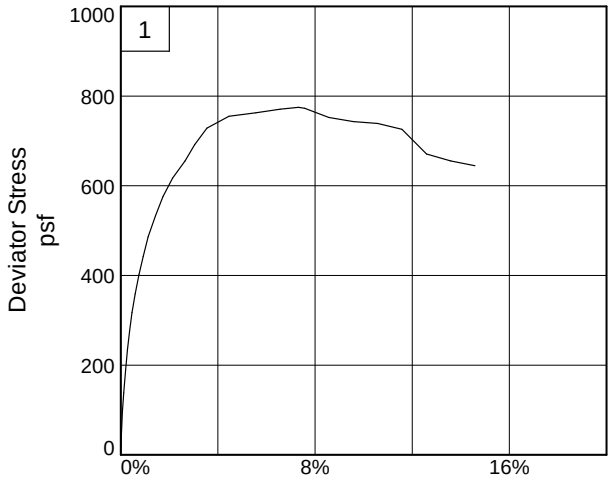
Project: Mobile River Bridge

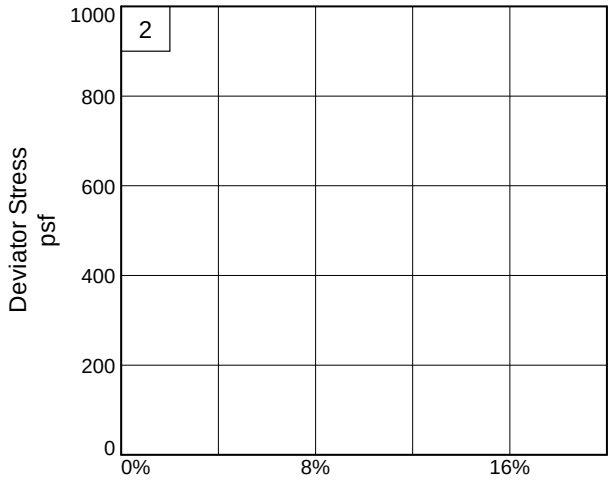
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5'

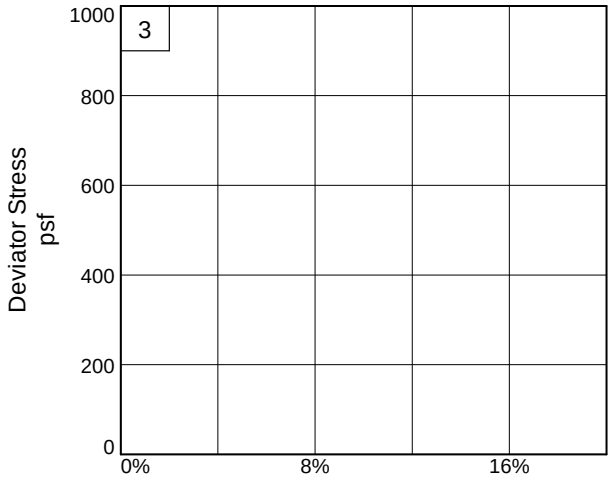
Sample Number: BW-44 T-2

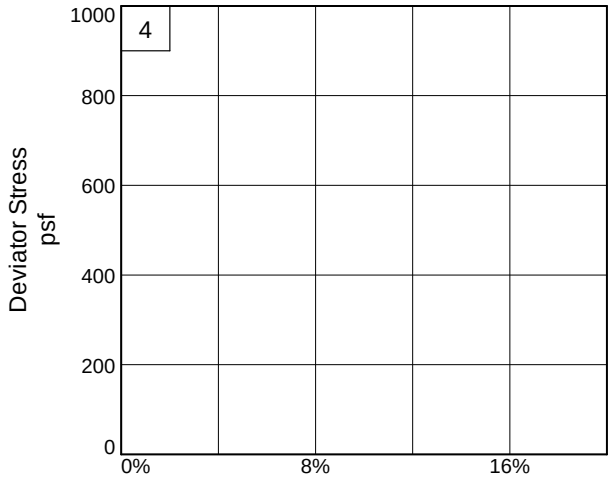
Proj. No.: 1511010228 **Date Sampled:**

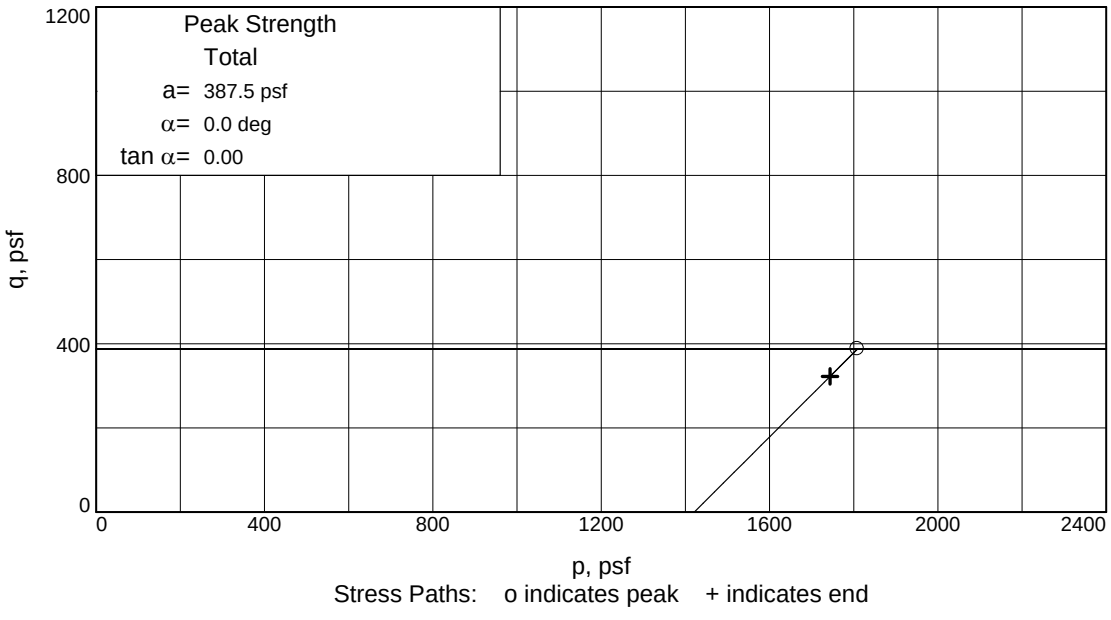
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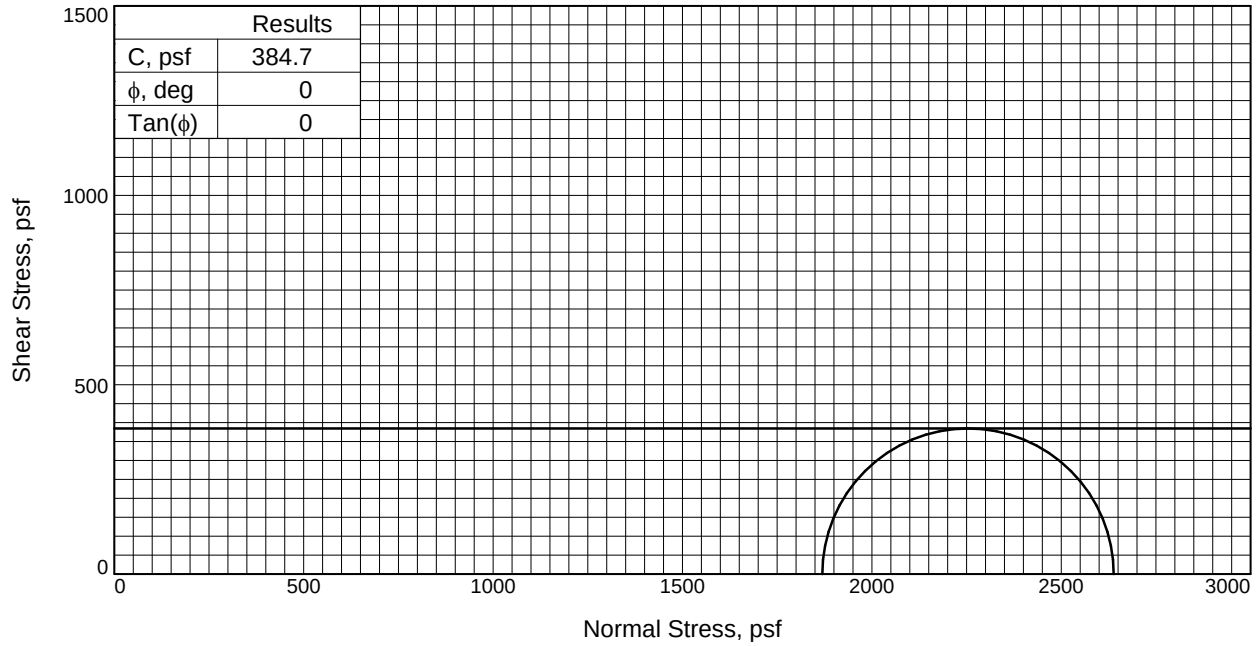


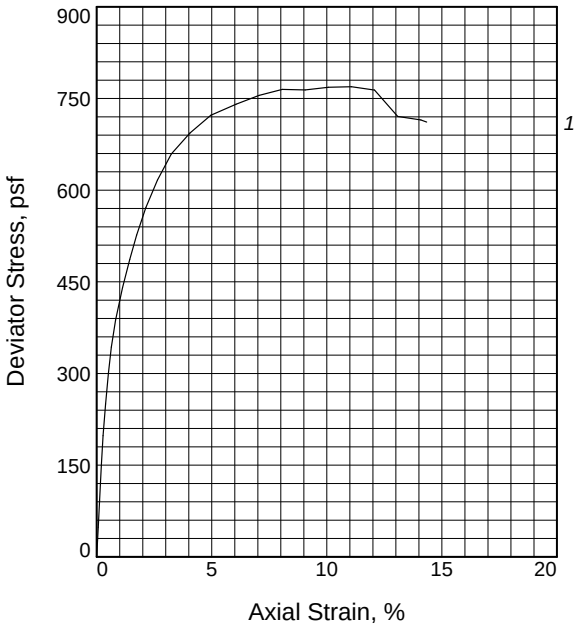




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5' **Sample Number:** BW-44 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.9
	Dry Density, pcf	83.6
	Saturation, %	118.2
	Void Ratio	0.7876
	Diameter, in.	2.783
	Height, in.	5.536
At Test	Water Content, %	40.5
	Dry Density, pcf	83.6
	Saturation, %	123.1
	Void Ratio	0.7876
	Diameter, in.	2.783
	Height, in.	5.536
Strain at peak, %		11.1
Back Pressure, psf		0.0
Cell Pressure, psf		1869.1
Fail. Stress, psf		769.3
Strain, %		11.1
Ult. Stress, psf		769.3
Strain, %		11.1
σ_1 Failure, psf		2638.4
σ_3 Failure, psf		1869.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(39))

Specific Gravity= 2.393

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

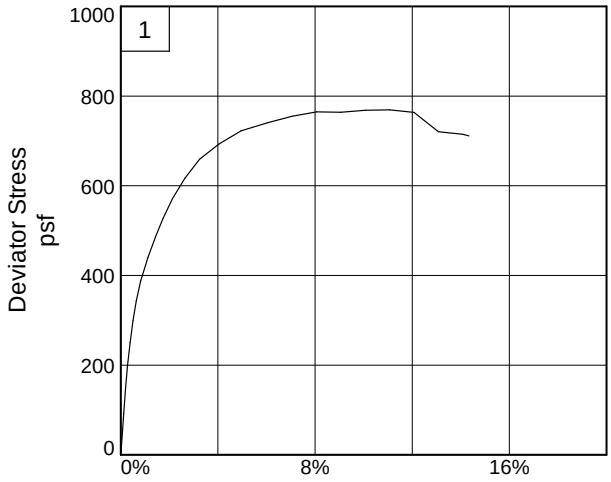
Project: Mobile River Bridge

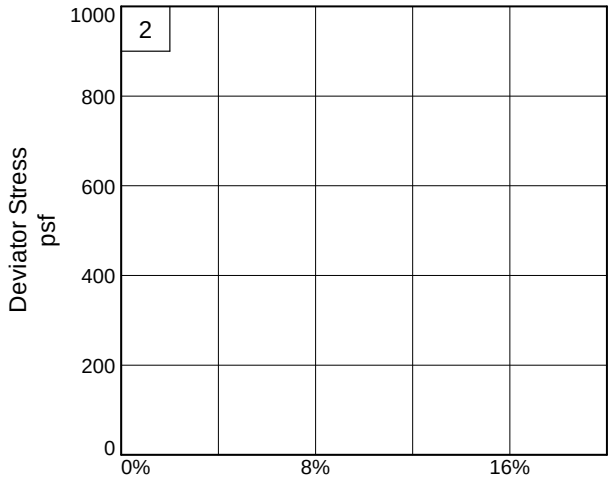
Source of Sample: Lab #7800 **Depth:** 38.5'-40.5'

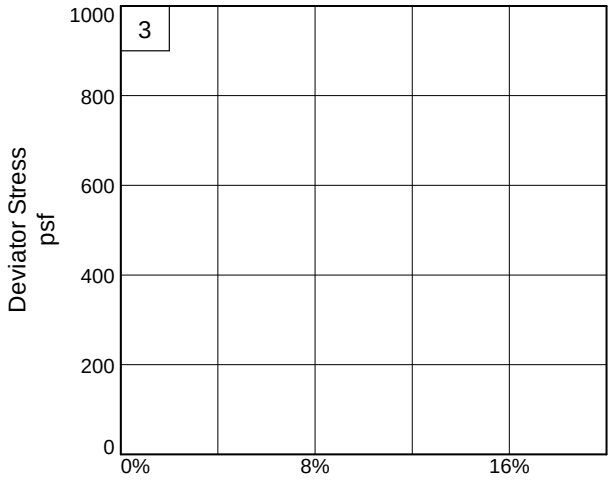
Sample Number: BW-44 T-3

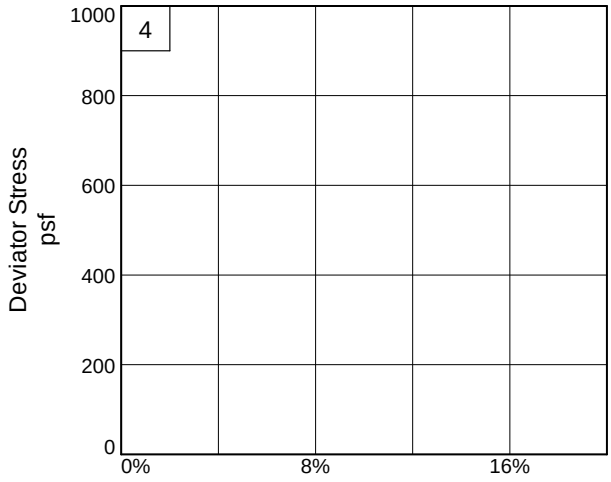
Proj. No.: 1511010228 **Date Sampled:**

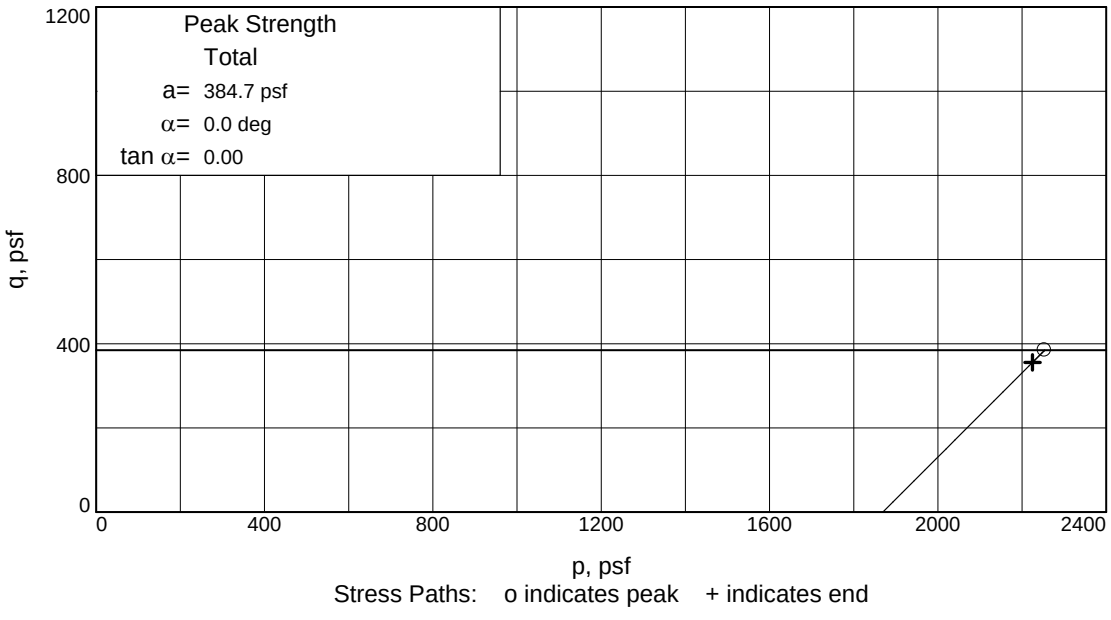
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Thompson Engineering
Mobile, Alabama





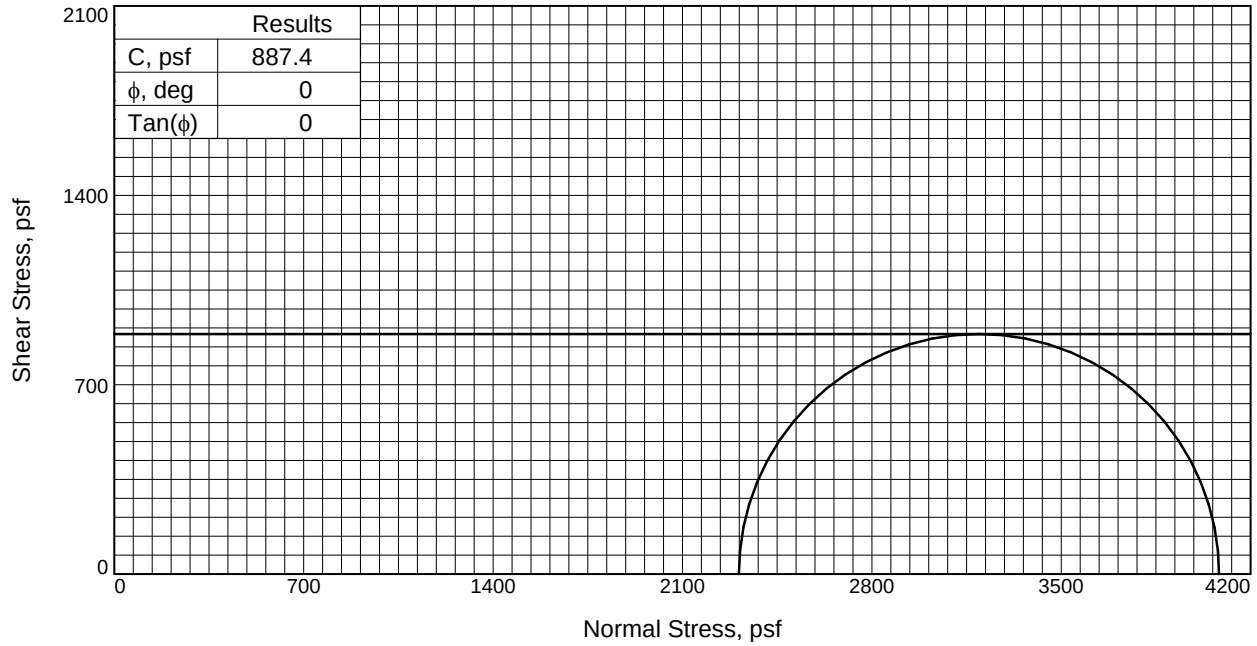


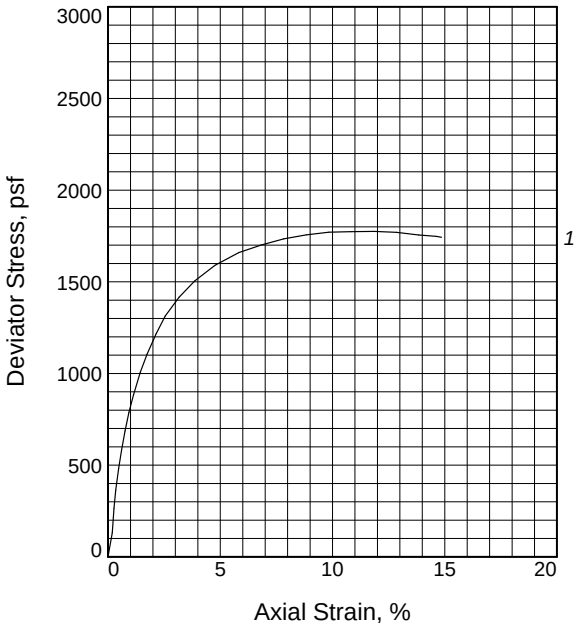




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 38.5'-40.5' **Sample Number:** BW-44 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	31.2
	Dry Density, pcf	92.3
	Saturation, %	103.9
	Void Ratio	0.7989
	Diameter, in.	2.819
	Height, in.	5.711
At Test	Water Content, %	31.0
	Dry Density, pcf	92.3
	Saturation, %	103.3
	Void Ratio	0.7989
	Diameter, in.	2.819
	Height, in.	5.711
Strain at peak, %		11.8
Back Pressure, psf		0.0
Cell Pressure, psf		2308.3
Fail. Stress, psf		1774.8
Strain, %		11.8
Ult. Stress, psf		1774.8
Strain, %		11.8
σ_1 Failure, psf		4083.1
σ_3 Failure, psf		2308.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(37))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

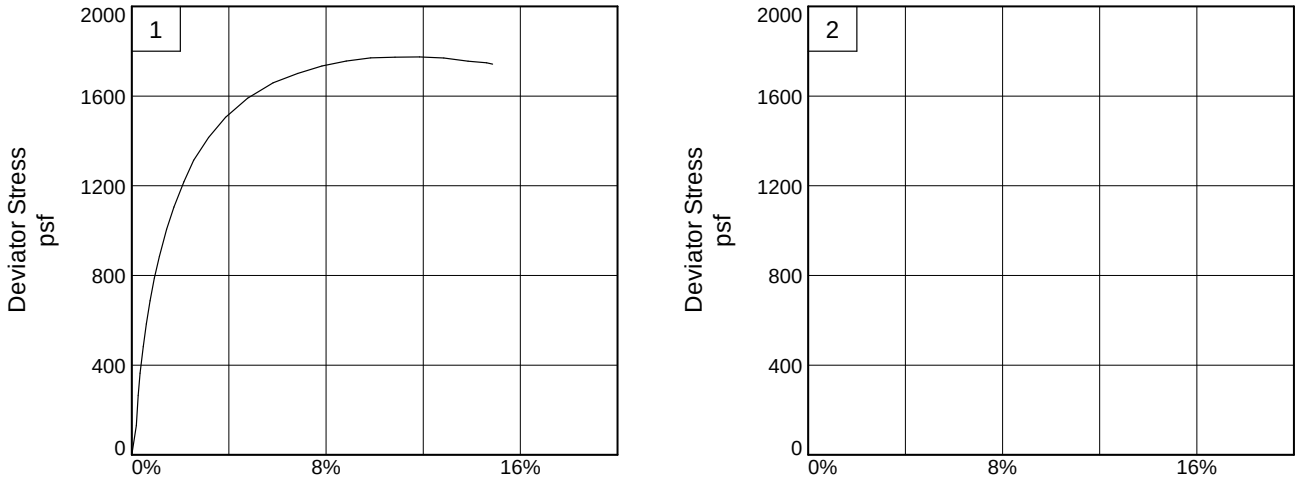
Project: Mobile River Bridge

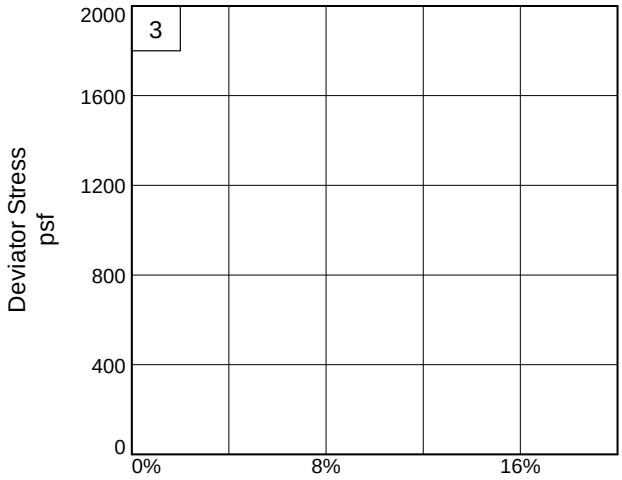
Source of Sample: Lab #7800 **Depth:** 48.5'-50.5'

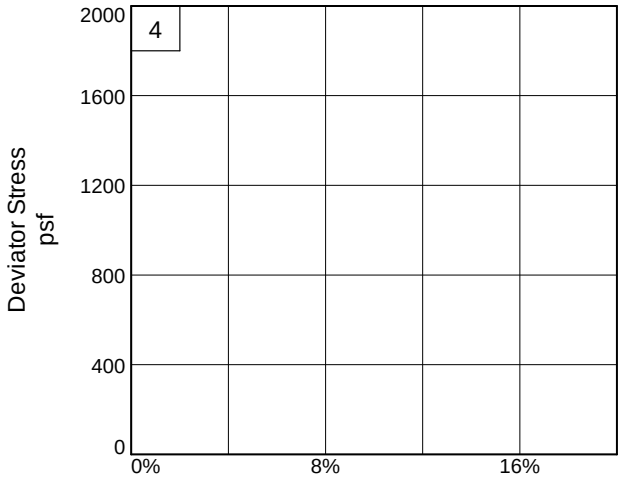
Sample Number: BW-44 T-4

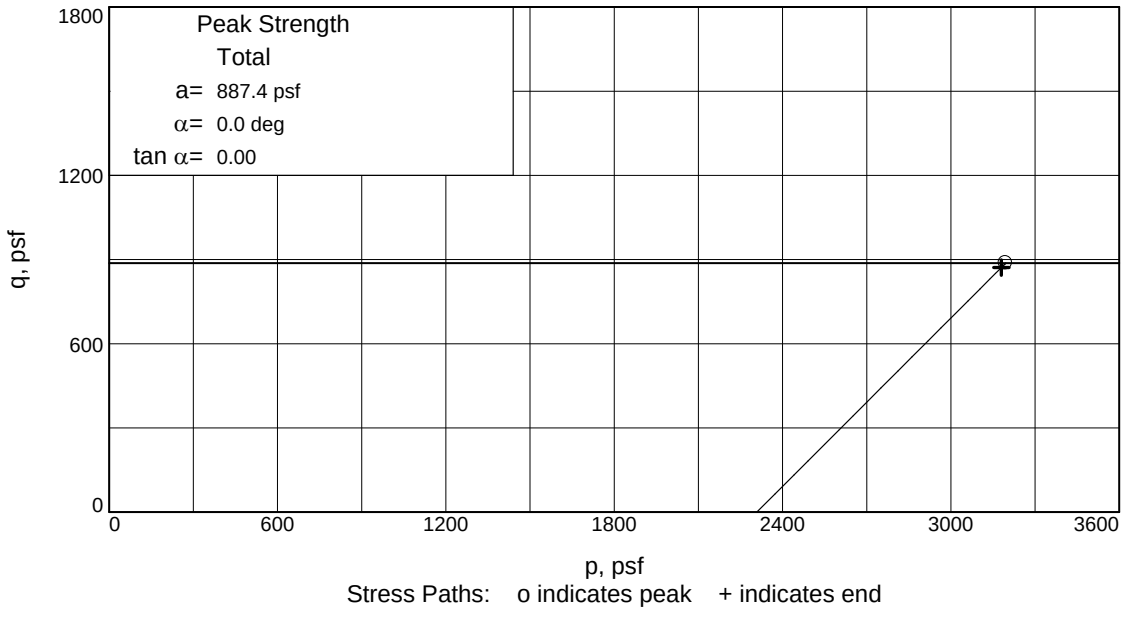
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama









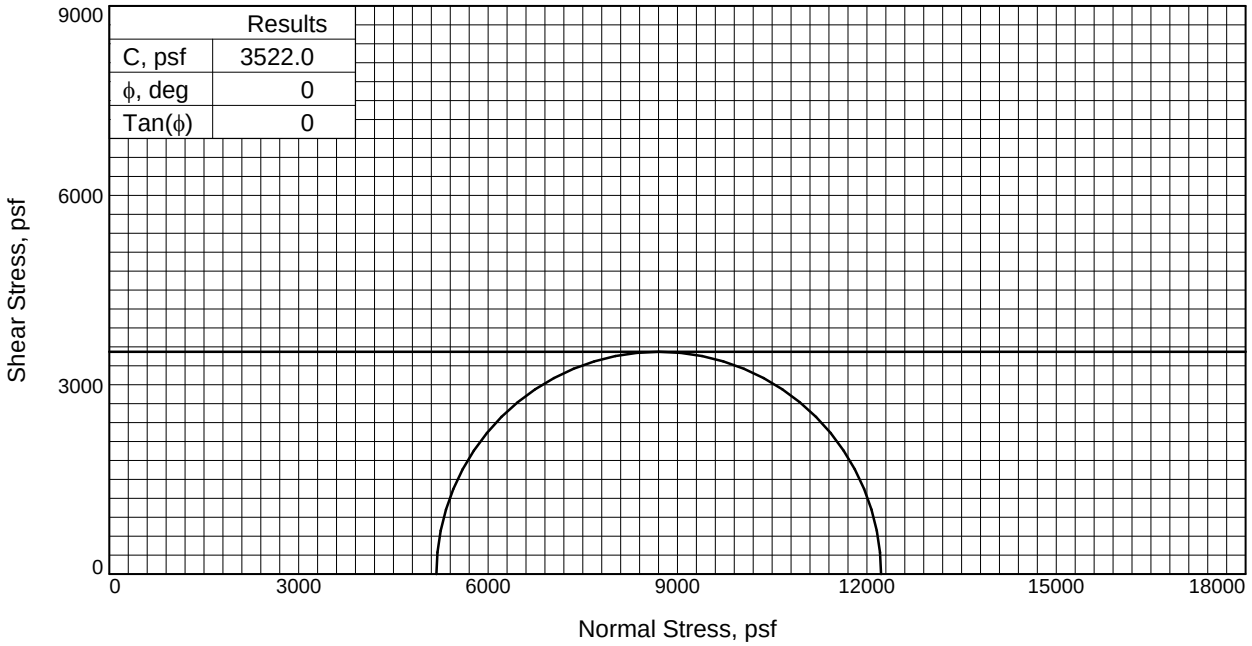
Client: ALDOT

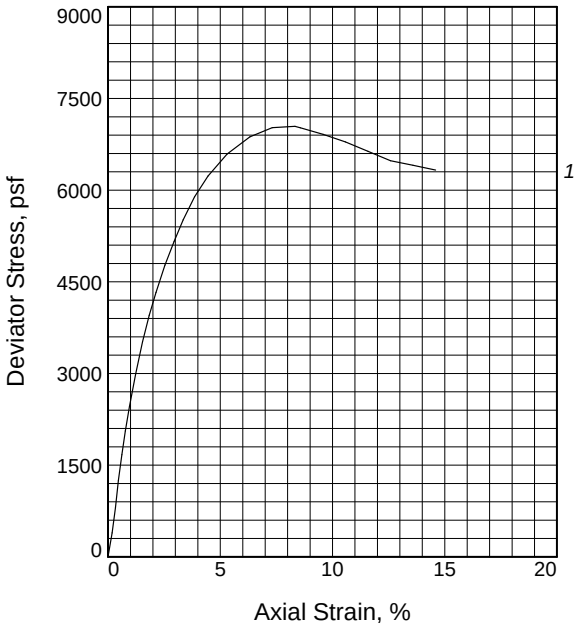
Project: Mobile River Bridge

Source of Sample: Lab #7800 **Depth:** 48.5'-50.5' **Sample Number:** BW-44 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	22.3
	Dry Density, pcf	108.1
	Saturation, %	115.0
	Void Ratio	0.5062
	Diameter, in.	2.829
	Height, in.	5.693
At Test	Water Content, %	20.0
	Dry Density, pcf	108.1
	Saturation, %	102.9
	Void Ratio	0.5062
	Diameter, in.	2.829
	Height, in.	5.693
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		5181.1
Fail. Stress, psf		7044.0
Strain, %		8.3
Ult. Stress, psf		7044.0
Strain, %		8.3
σ_1 Failure, psf		12225.1
σ_3 Failure, psf		5181.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(34))

Specific Gravity= 2.607

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

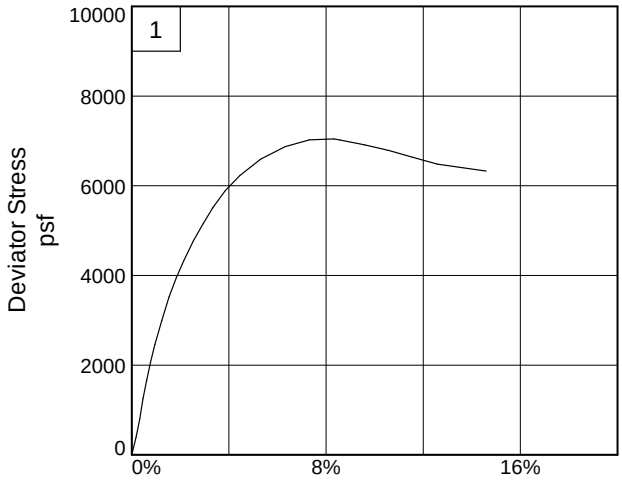
Project: Mobile River Bridge

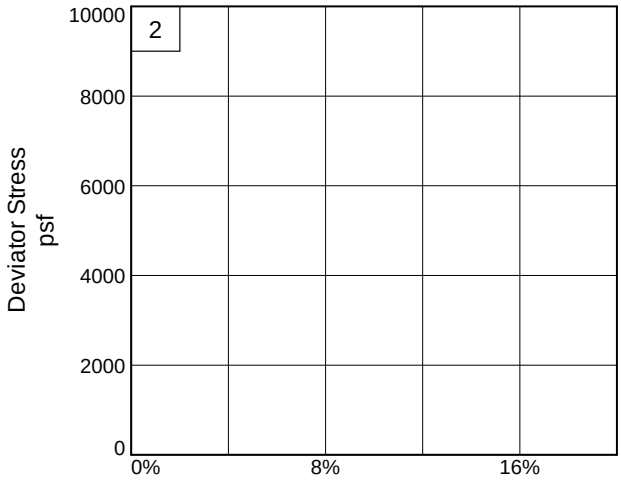
Source of Sample: Lab #7800 **Depth:** 108.5'-110.5'

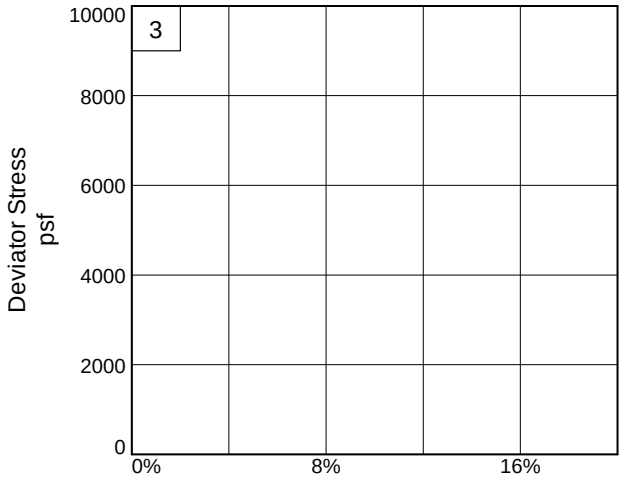
Sample Number: BW-44 T-5

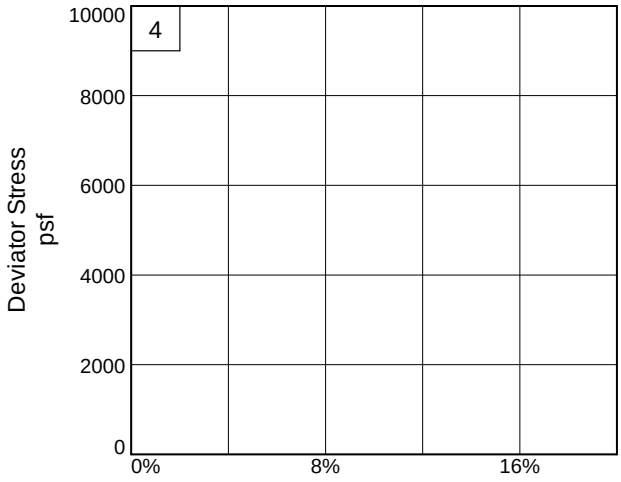
Proj. No.: 1511010228 **Date Sampled:**

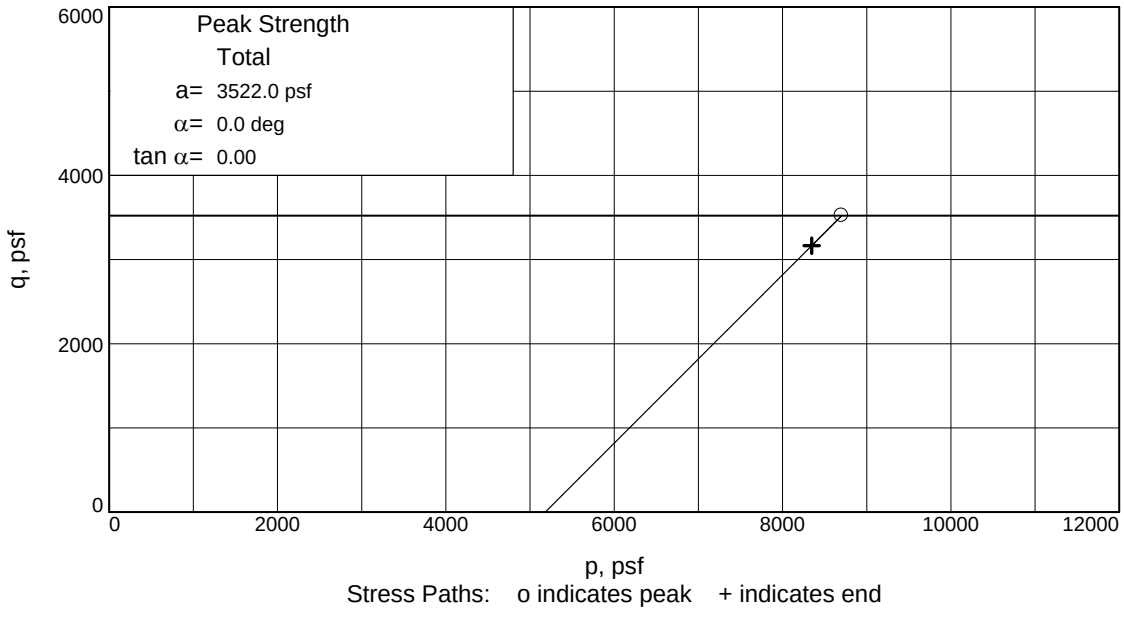
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Mobile, Alabama







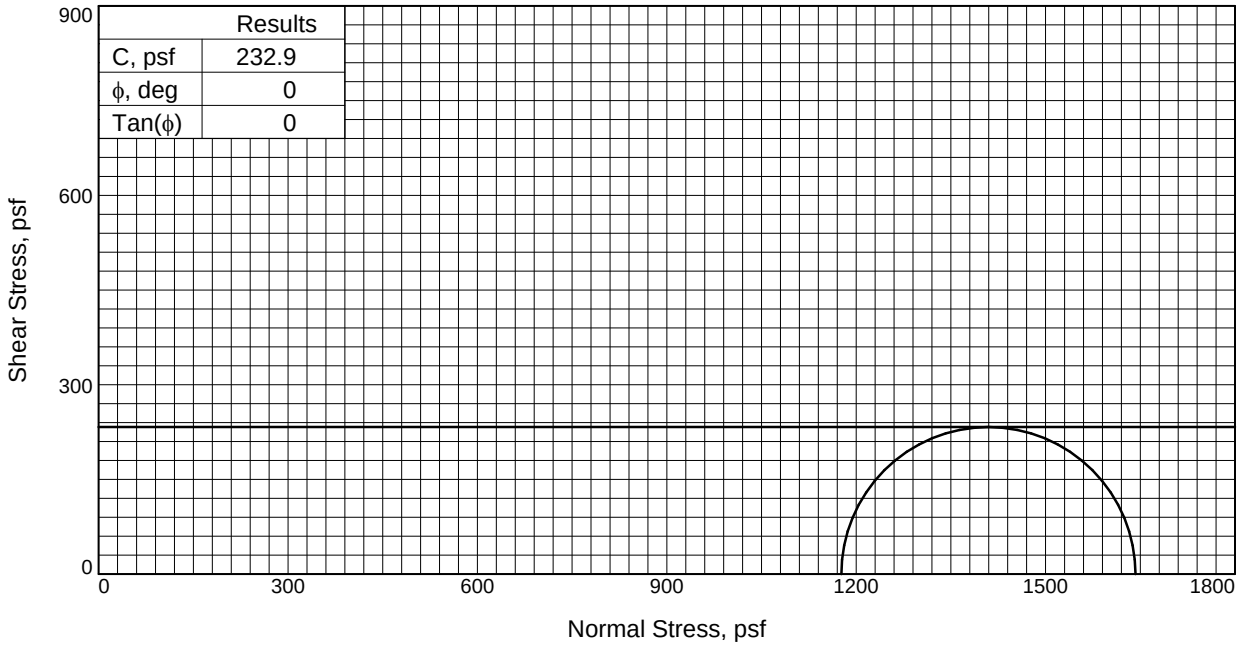


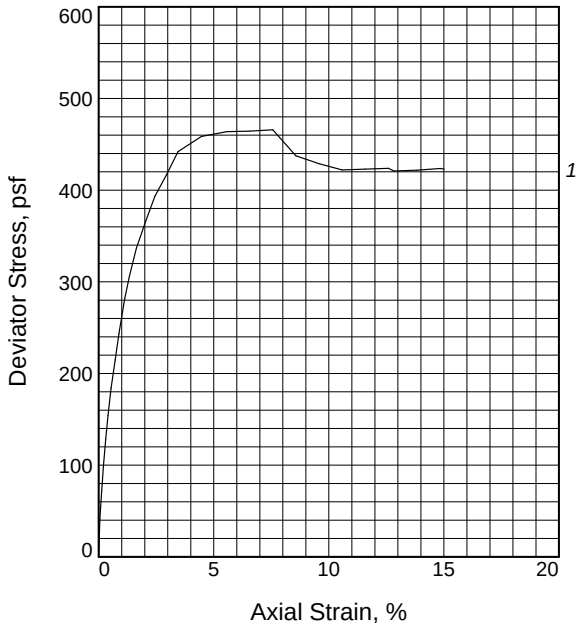


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 108.5'-110.5' **Sample Number:** BW-44 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.2
	Dry Density, pcf	65.6
	Saturation, %	101.2
	Void Ratio	1.5312
	Diameter, in.	2.792
	Height, in.	5.338
At Test	Water Content, %	61.0
	Dry Density, pcf	65.6
	Saturation, %	106.0
	Void Ratio	1.5312
	Diameter, in.	2.792
	Height, in.	5.338
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		1176.5
Fail. Stress, psf		465.9
Strain, %		7.6
Ult. Stress, psf		465.9
Strain, %		7.6
σ_1 Failure, psf		1642.4
σ_3 Failure, psf		1176.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(57))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

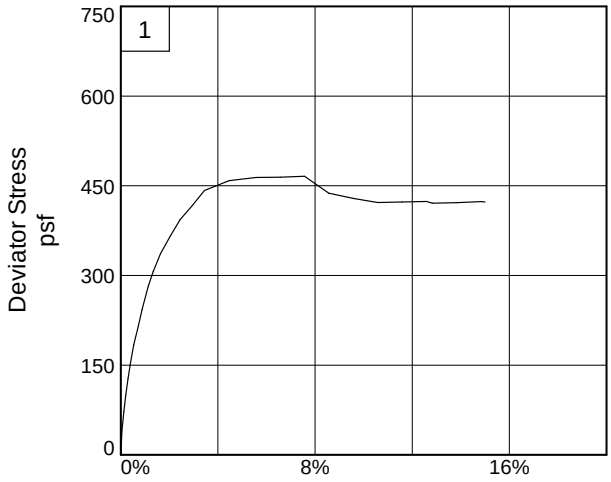
Project: Mobile River Bridge

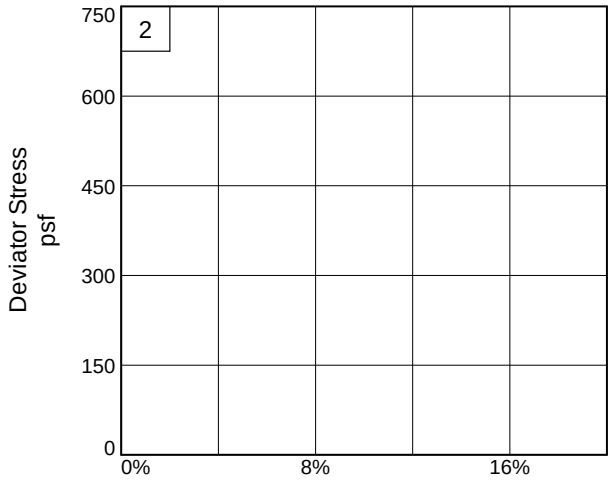
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5'

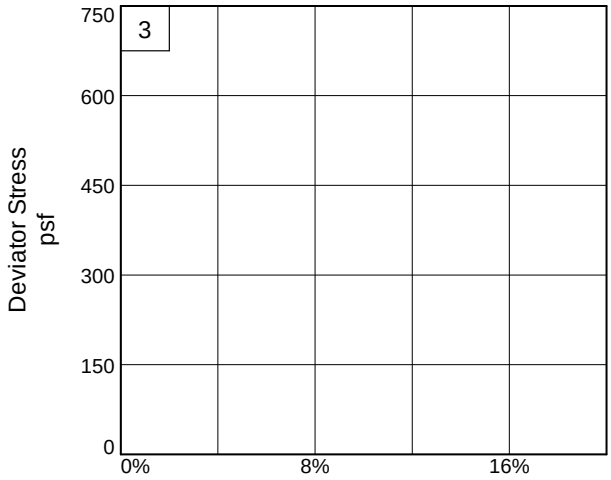
Sample Number: BW-45 T-1

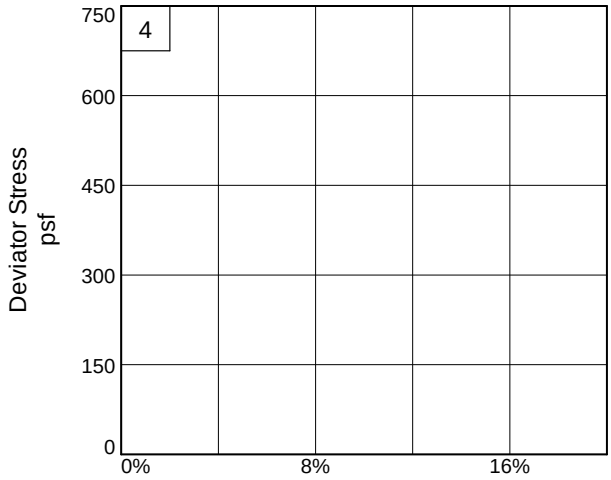
Proj. No.: 1511010228 **Date Sampled:**

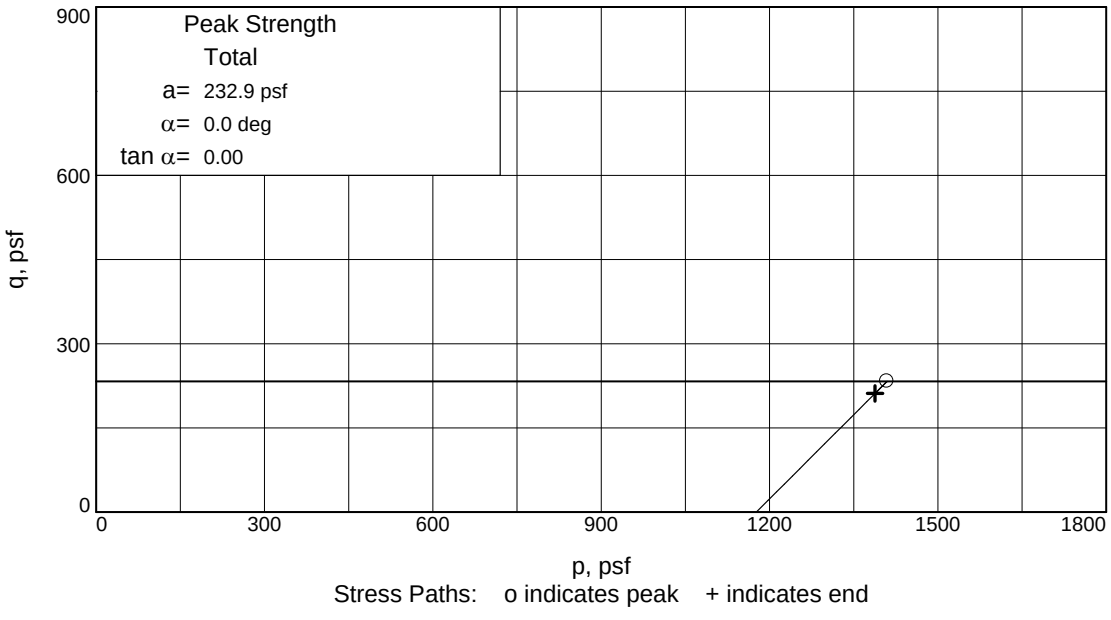
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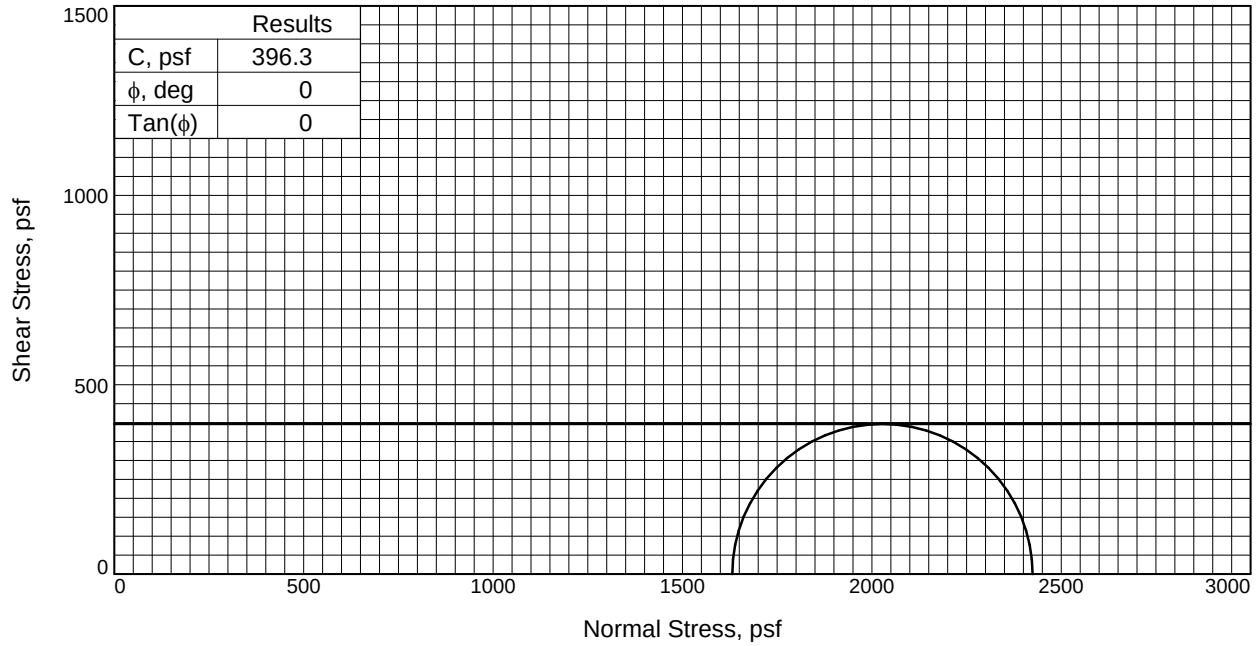


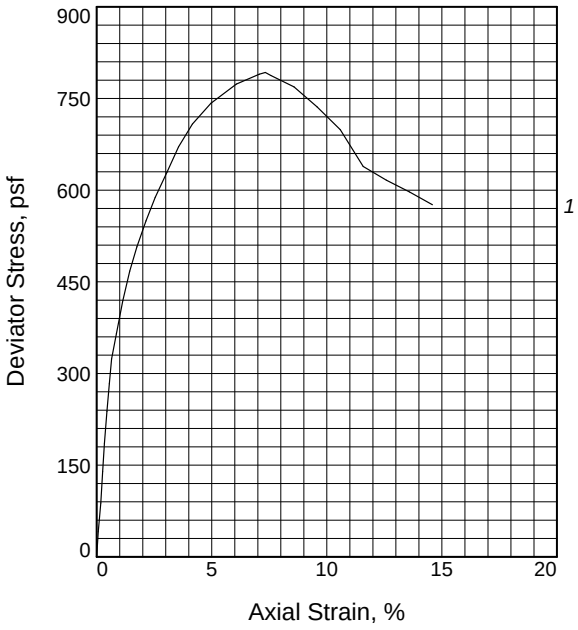




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5' **Sample Number:** BW-45 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	67.3
	Dry Density, pcf	59.5
	Saturation, %	100.0
	Void Ratio	1.7897
	Diameter, in.	2.786
	Height, in.	5.567
At Test	Water Content, %	69.7
	Dry Density, pcf	59.5
	Saturation, %	103.5
	Void Ratio	1.7897
	Diameter, in.	2.786
	Height, in.	5.567
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		1631.5
Fail. Stress, psf		792.7
Strain, %		7.3
Ult. Stress, psf		792.7
Strain, %		7.3
σ_1 Failure, psf		2424.2
σ_3 Failure, psf		1631.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(82))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

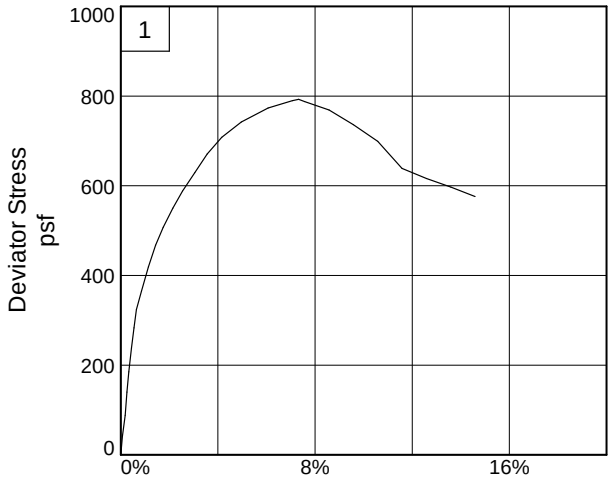
Project: Mobile River Bridge

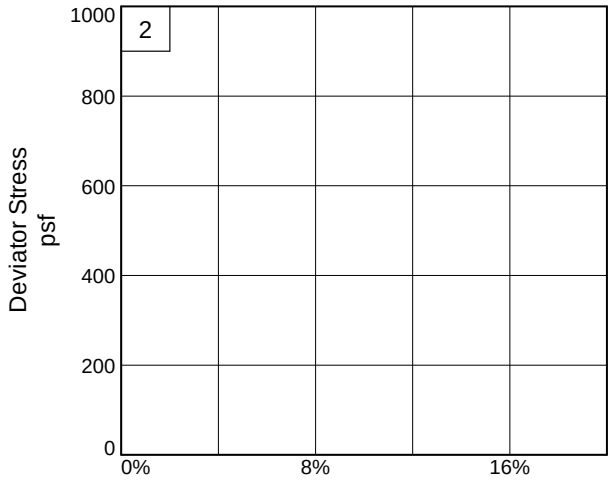
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5'

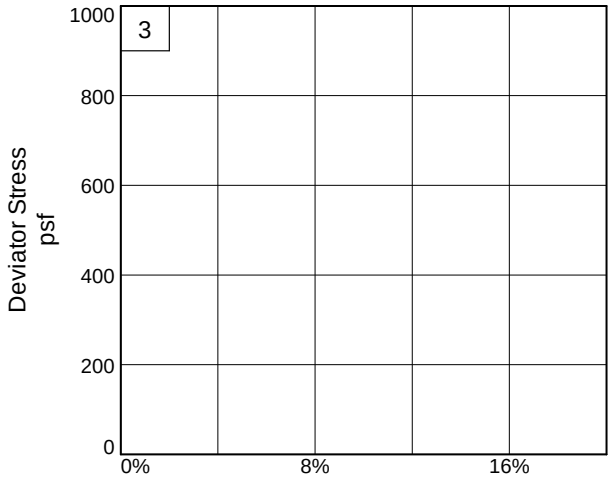
Sample Number: BW-45 T-2

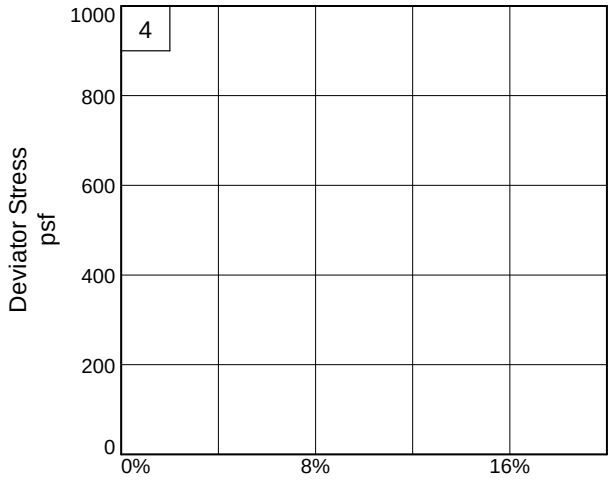
Proj. No.: 1511010228 **Date Sampled:**

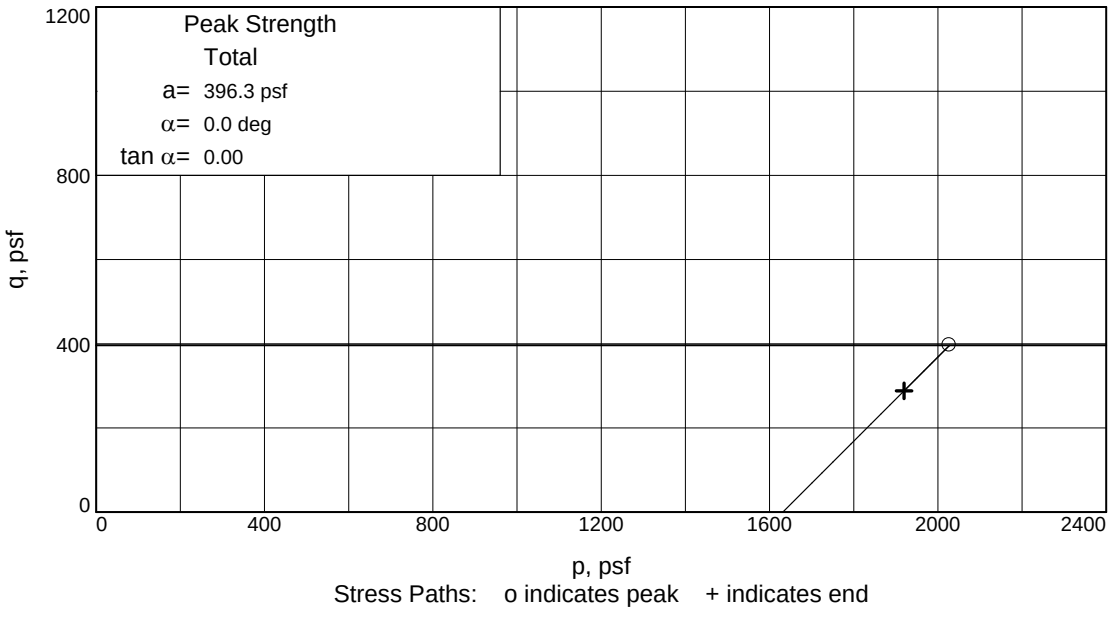
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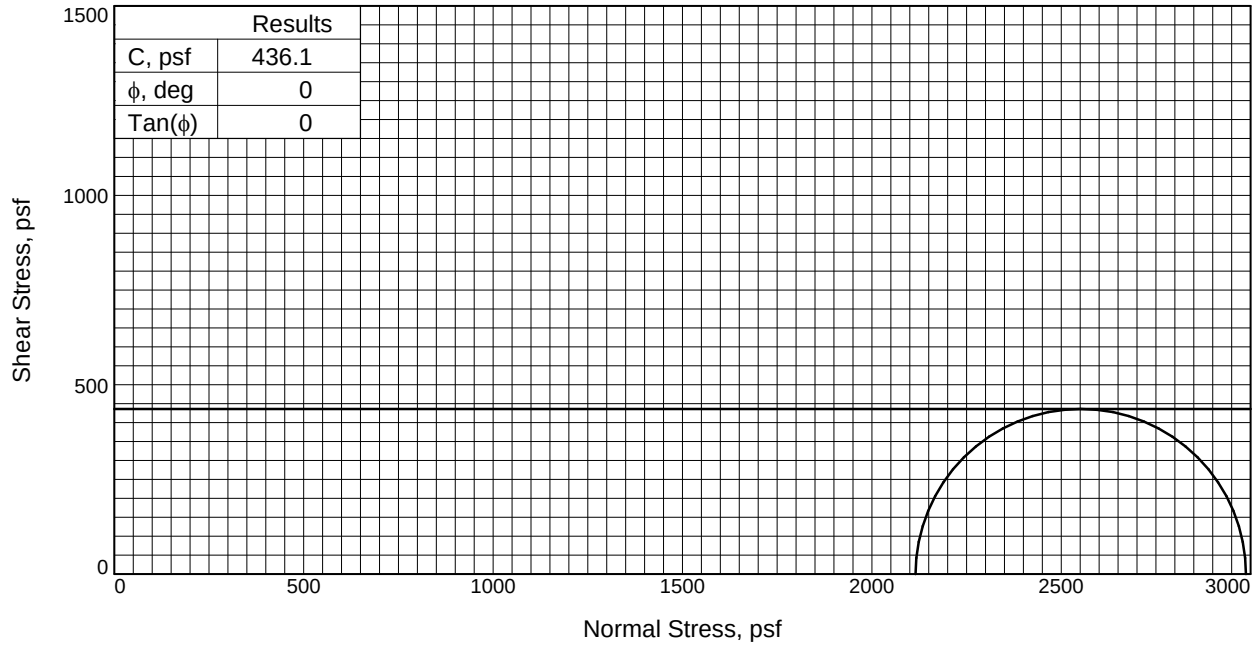


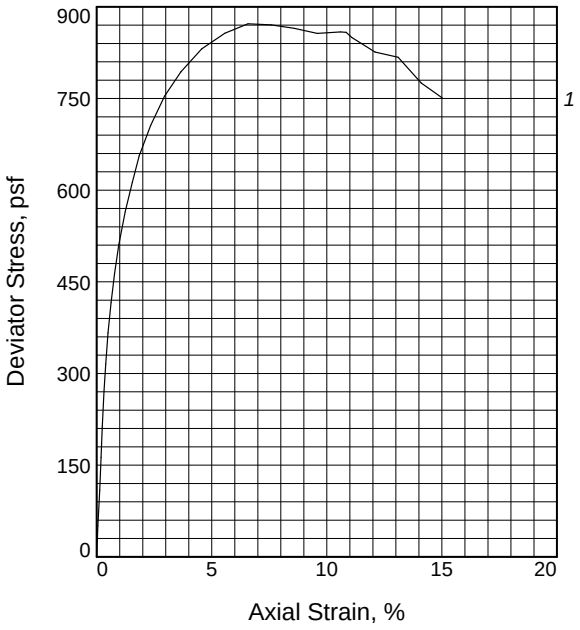




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5' **Sample Number:** BW-45 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	57.3
	Dry Density, pcf	67.2
	Saturation, %	103.5
	Void Ratio	1.4712
	Diameter, in.	2.798
	Height, in.	5.496
At Test	Water Content, %	54.2
	Dry Density, pcf	67.2
	Saturation, %	98.0
	Void Ratio	1.4712
	Diameter, in.	2.798
	Height, in.	5.496
Strain at peak, %		6.6
Back Pressure, psf		0.0
Cell Pressure, psf		2115.4
Fail. Stress, psf		872.2
Strain, %		6.6
Ult. Stress, psf		872.2
Strain, %		6.6
σ_1 Failure, psf		2987.5
σ_3 Failure, psf		2115.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(51))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

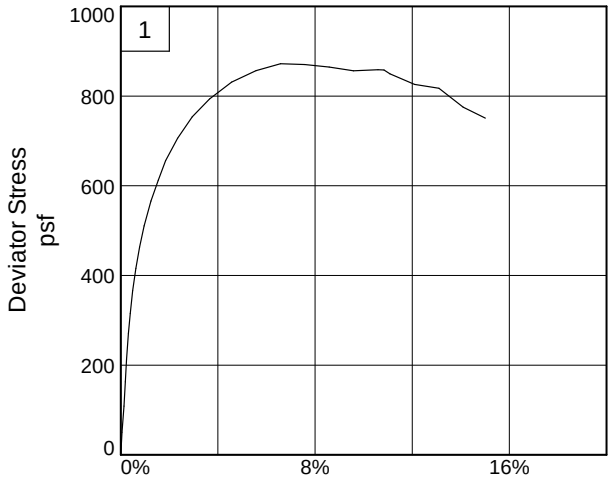
Project: Mobile River Bridge

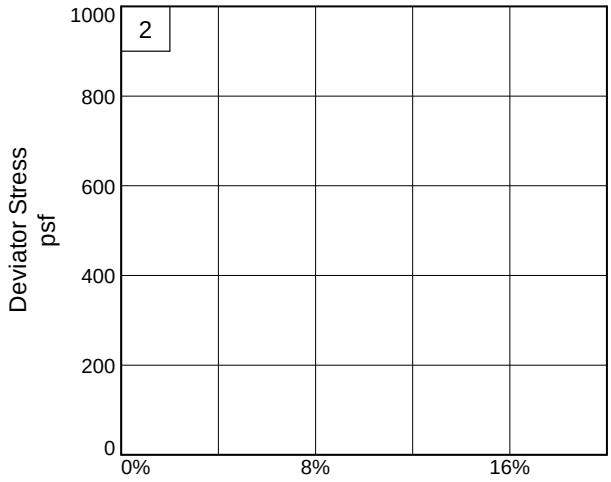
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5'

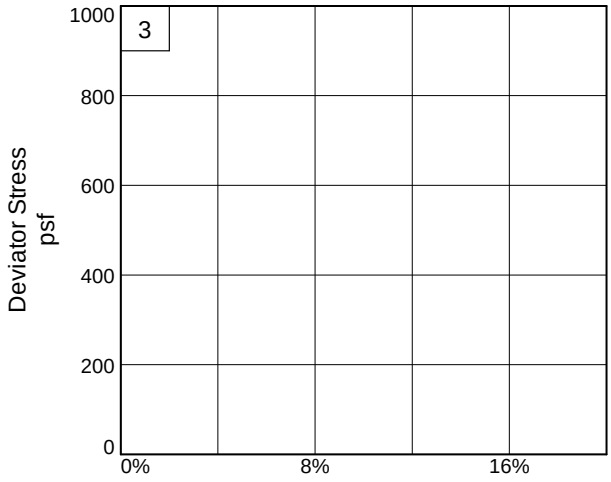
Sample Number: BW-45 T-3

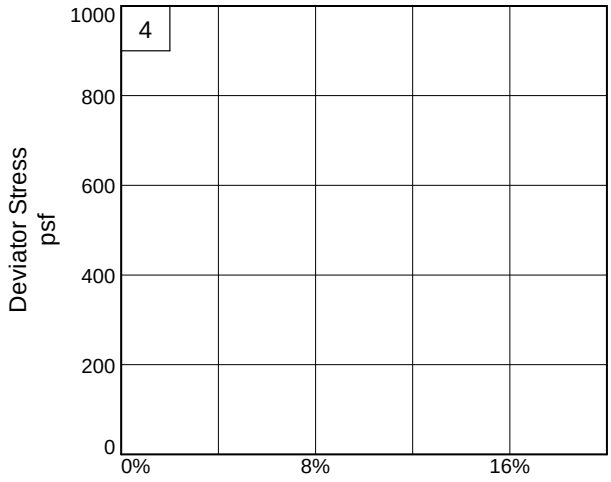
Proj. No.: 1511010228 **Date Sampled:**

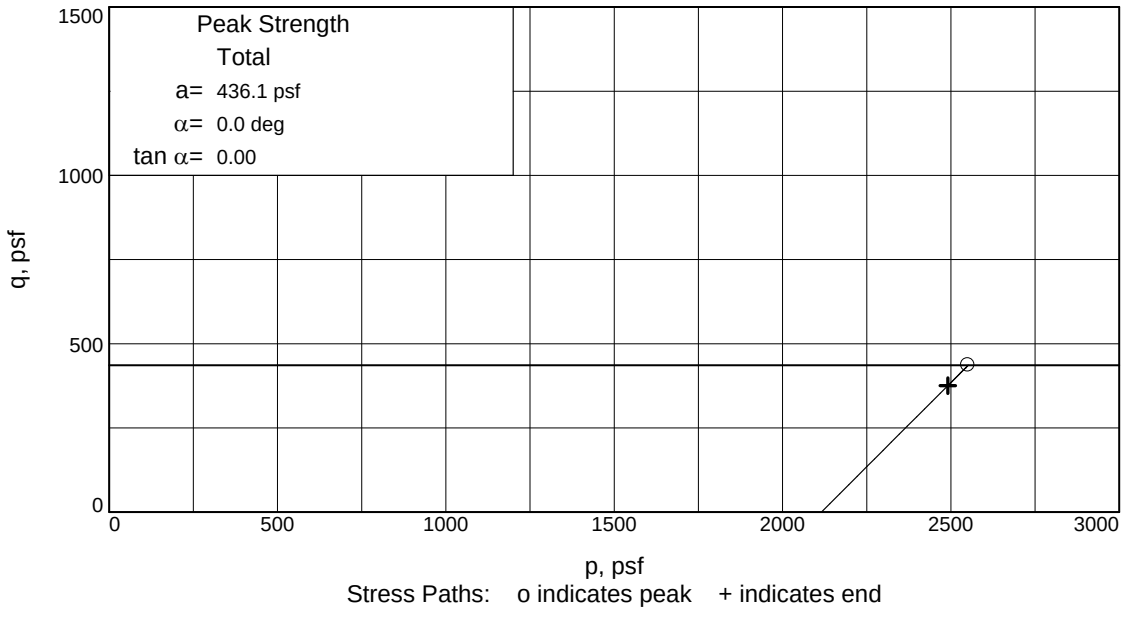
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Thompson Engineering
Mobile, Alabama





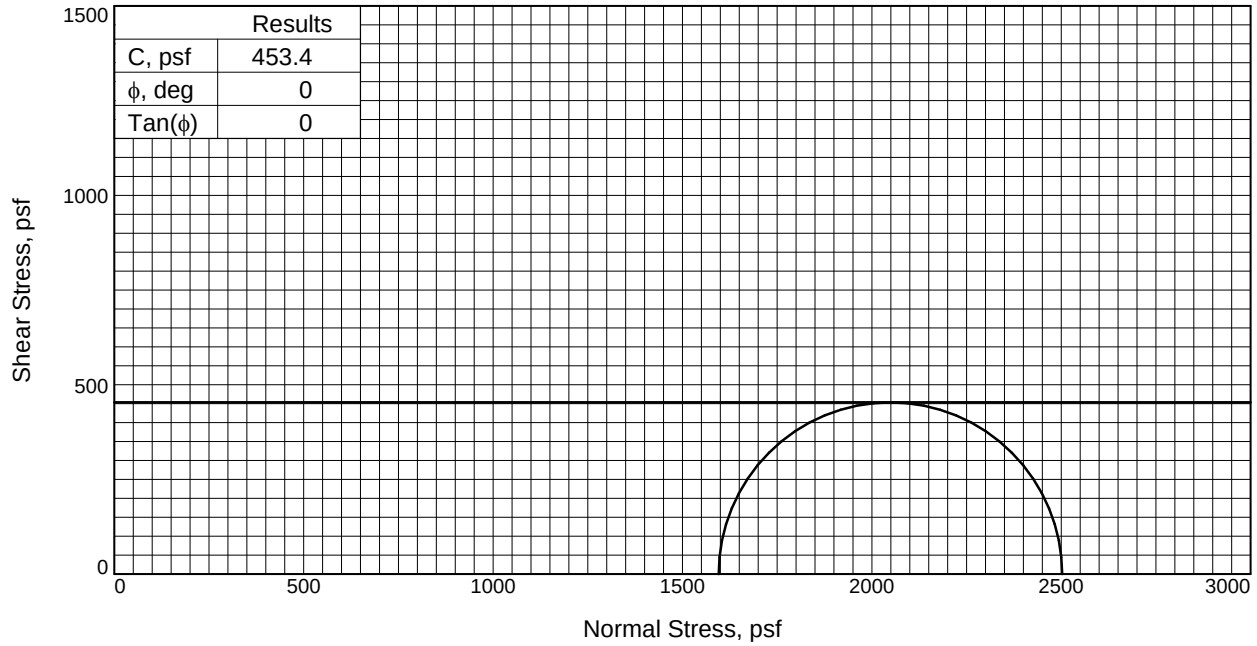


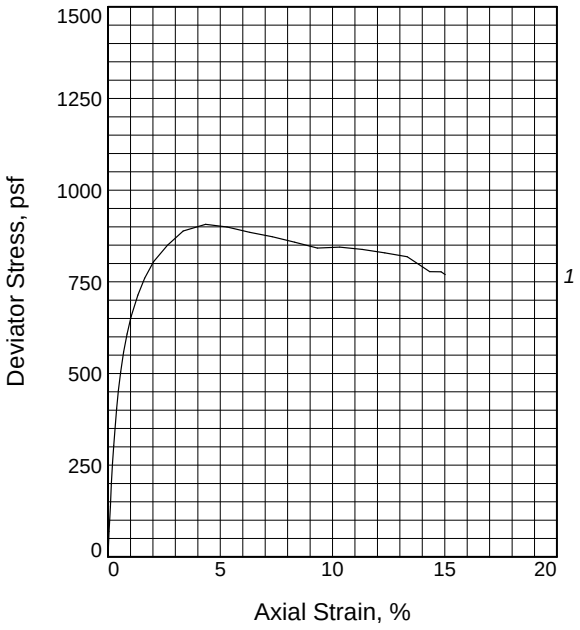




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5' **Sample Number:** BW-45 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	65.6
	Dry Density, pcf	62.3
	Saturation, %	104.6
	Void Ratio	1.6674
	Diameter, in.	2.778
	Height, in.	5.446
At Test	Water Content, %	63.7
	Dry Density, pcf	62.3
	Saturation, %	101.6
	Void Ratio	1.6674
	Diameter, in.	2.778
	Height, in.	5.446
Strain at peak, %		4.3
Back Pressure, psf		0.0
Cell Pressure, psf		1595.5
Fail. Stress, psf		906.8
Strain, %		4.3
Ult. Stress, psf		906.8
Strain, %		4.3
σ_1 Failure, psf		2502.3
σ_3 Failure, psf		1595.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(71))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

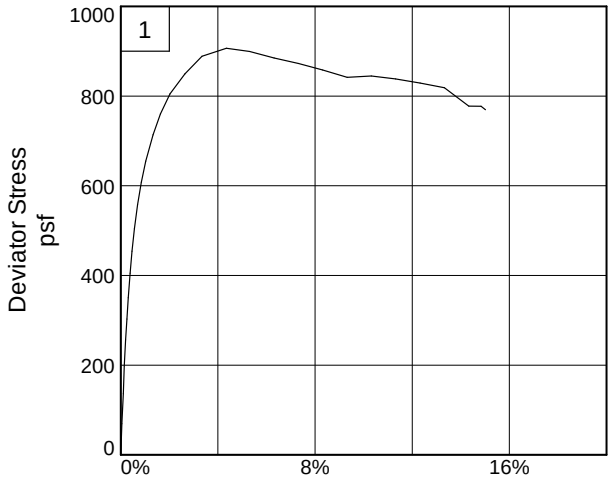
Project: Mobile River Bridge

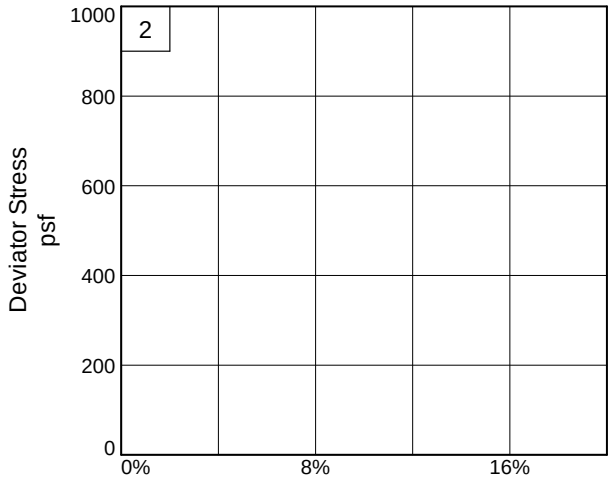
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5'

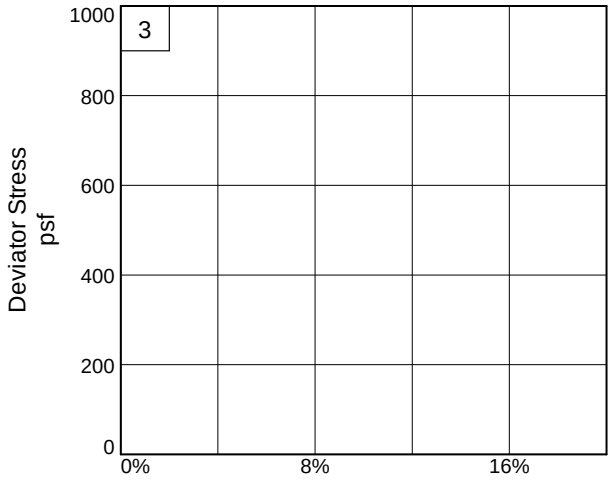
Sample Number: BW-46 T-2

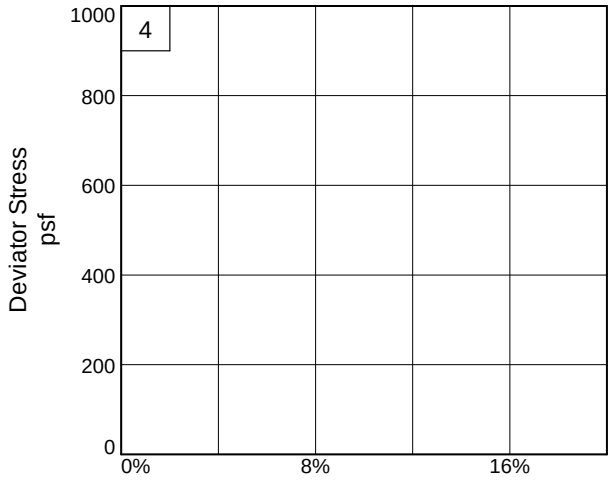
Proj. No.: 1511010228 **Date Sampled:**

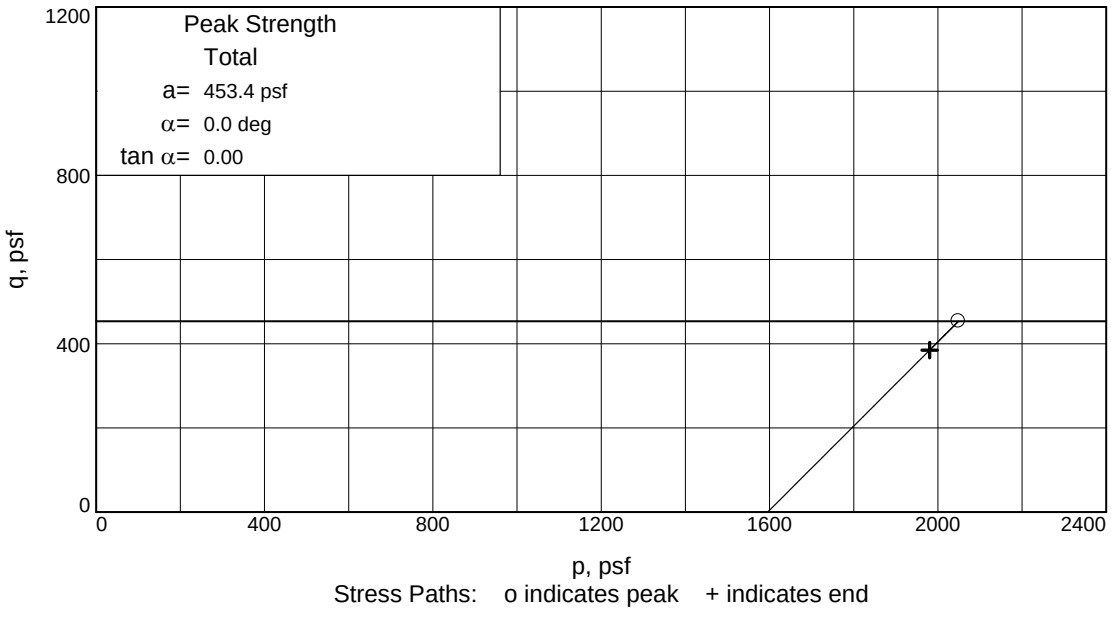
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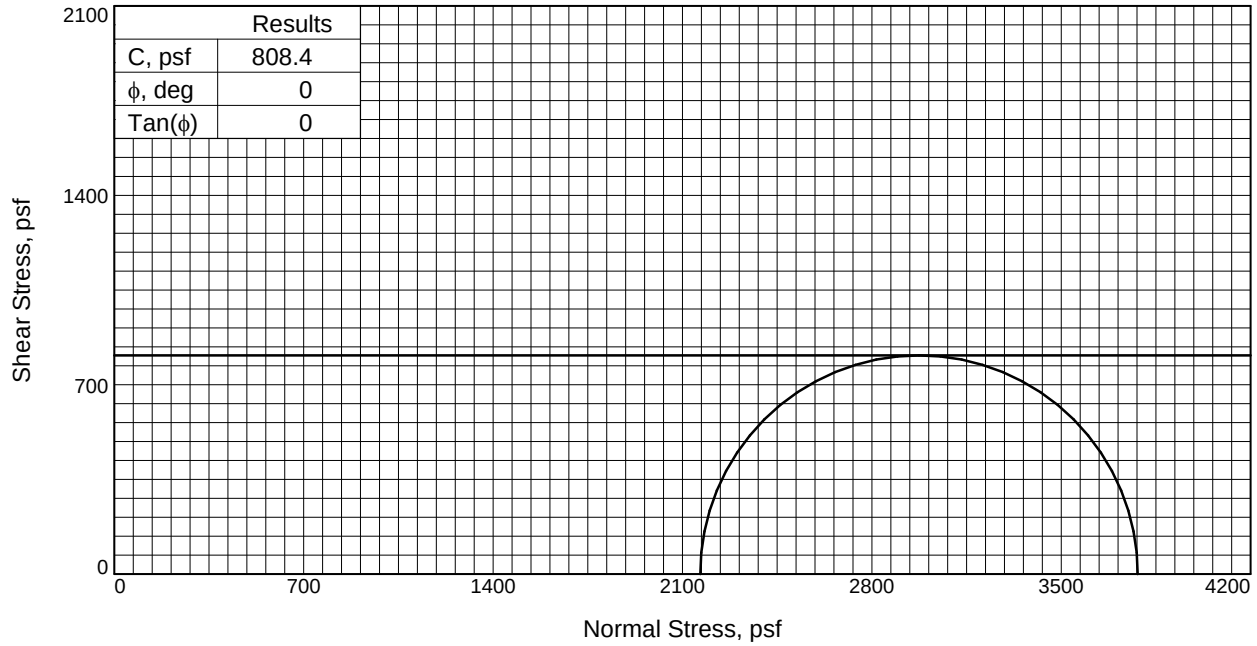


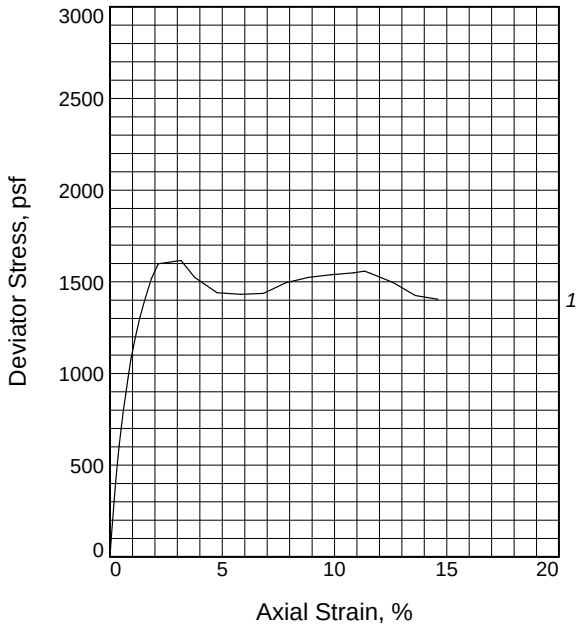




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5' **Sample Number:** BW-46 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	136.6
	Dry Density, pcf	35.3
	Saturation, %	103.2
	Void Ratio	2.9671
	Diameter, in.	2.819
	Height, in.	5.469
At Test	Water Content, %	123.9
	Dry Density, pcf	35.3
	Saturation, %	93.7
	Void Ratio	2.9671
	Diameter, in.	2.819
	Height, in.	5.469
Strain at peak, %		3.2
Back Pressure, psf		0.0
Cell Pressure, psf		2165.8
Fail. Stress, psf		1616.9
Strain, %		3.2
Ult. Stress, psf		1616.9
Strain, %		3.2
σ_1 Failure, psf		3782.6
σ_3 Failure, psf		2165.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(71))

Specific Gravity= 2.243

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

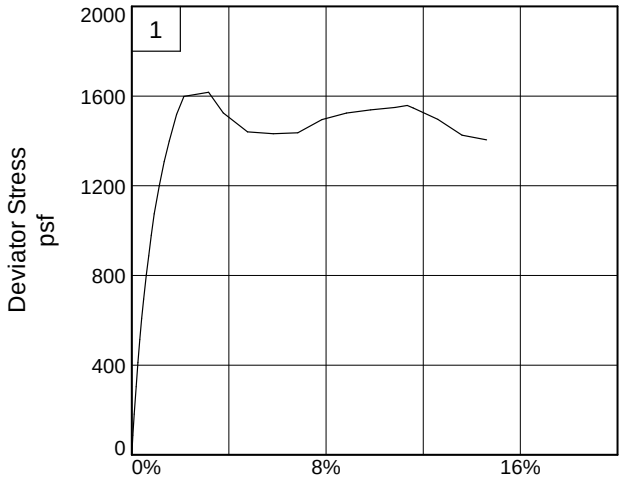
Project: Mobile River Bridge

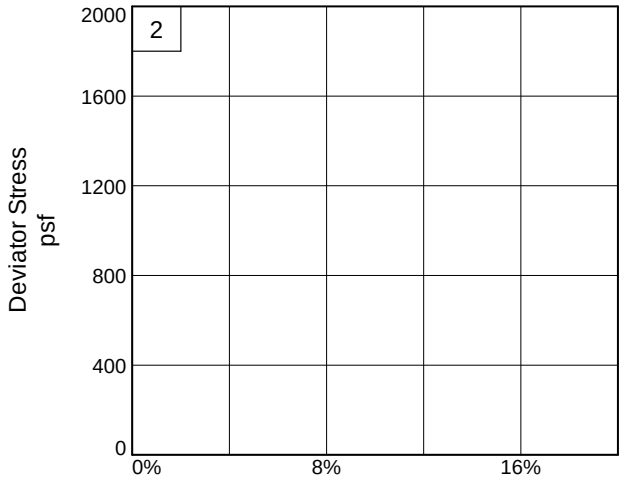
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5'

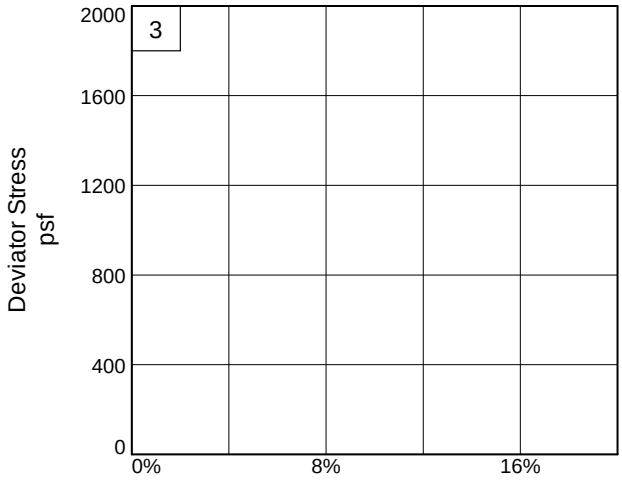
Sample Number: BW-46 T-3

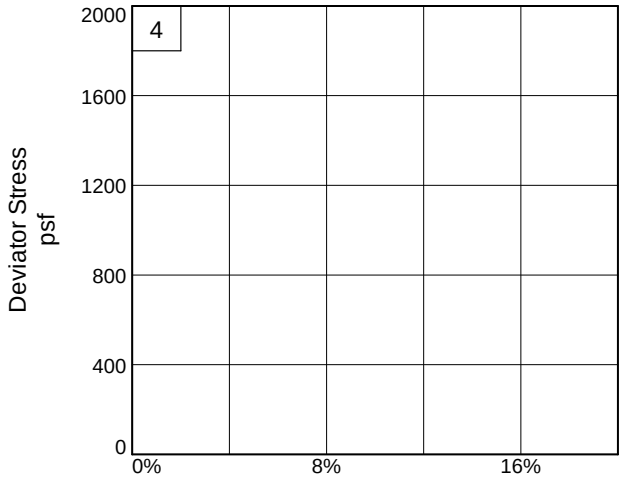
Proj. No.: 1511010228 **Date Sampled:**

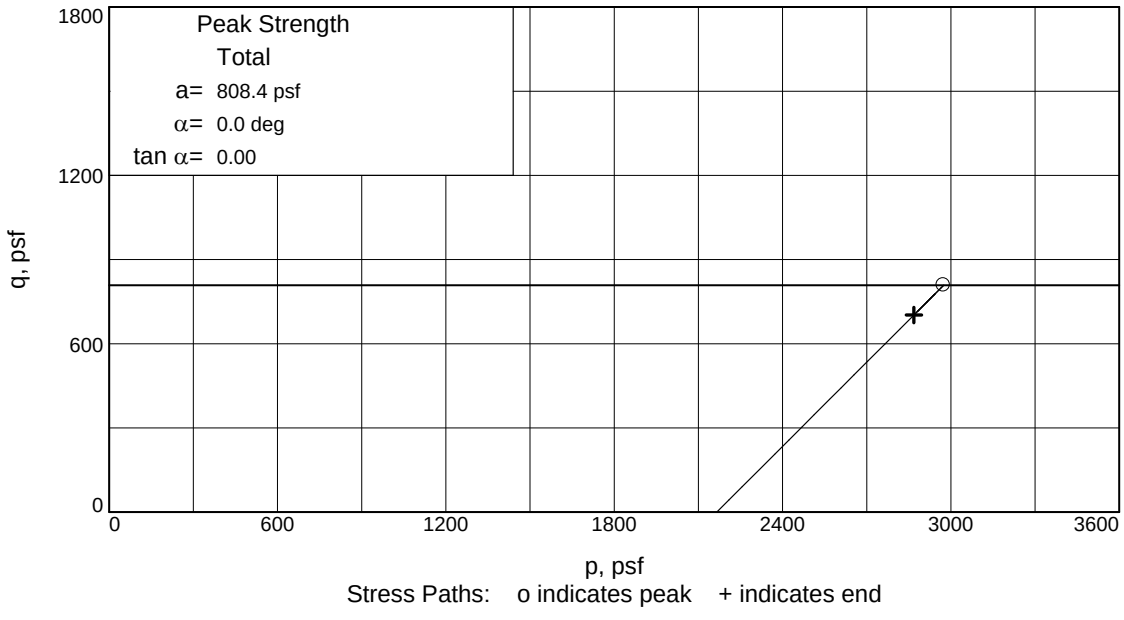
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Mobile, Alabama





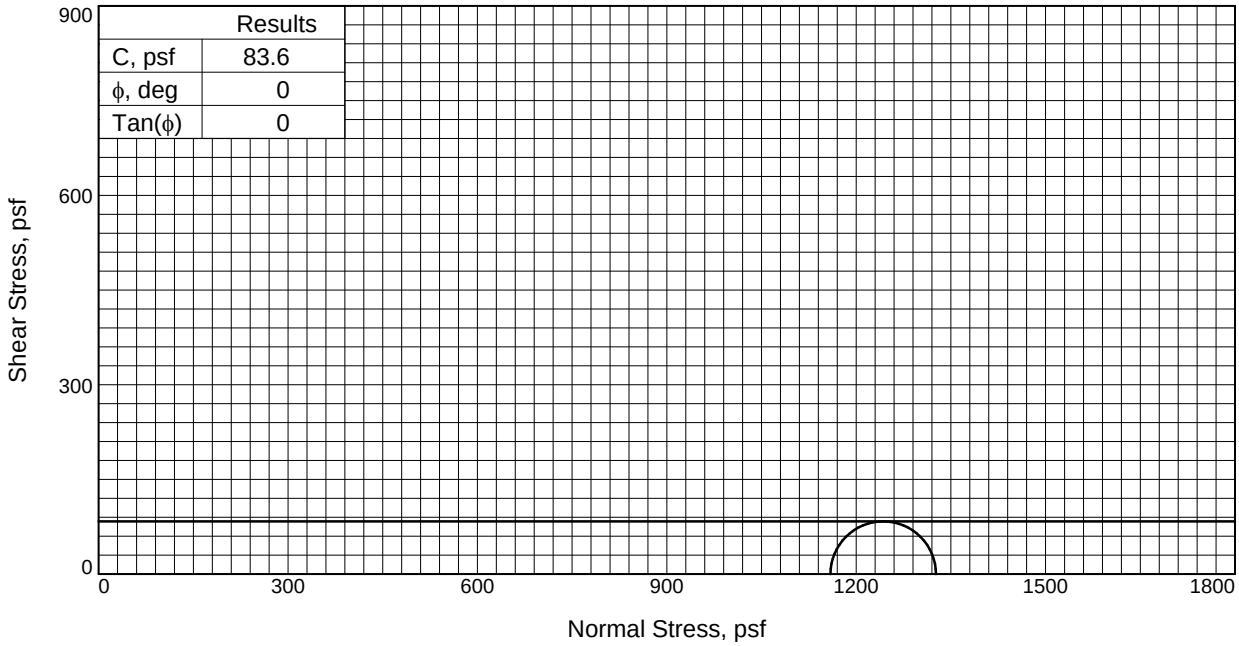


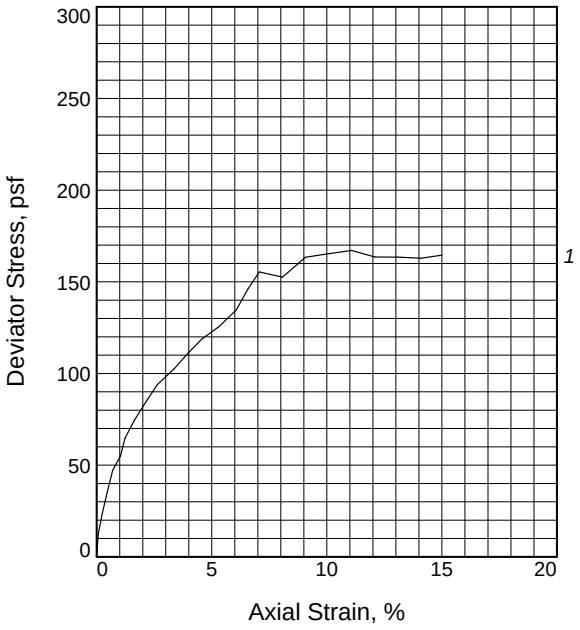




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5' **Sample Number:** BW-46 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	52.8
	Dry Density, pcf	72.1
	Saturation, %	107.8
	Void Ratio	1.3037
	Diameter, in.	2.798
	Height, in.	5.352
At Test	Water Content, %	56.7
	Dry Density, pcf	72.1
	Saturation, %	115.7
	Void Ratio	1.3037
	Diameter, in.	2.798
	Height, in.	5.352
Strain at peak, %		11.1
Back Pressure, psf		0.0
Cell Pressure, psf		1159.2
Fail. Stress, psf		167.1
Strain, %		11.1
Ult. Stress, psf		167.1
Strain, %		11.1
σ_1 Failure, psf		1326.3
σ_3 Failure, psf		1159.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(39))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

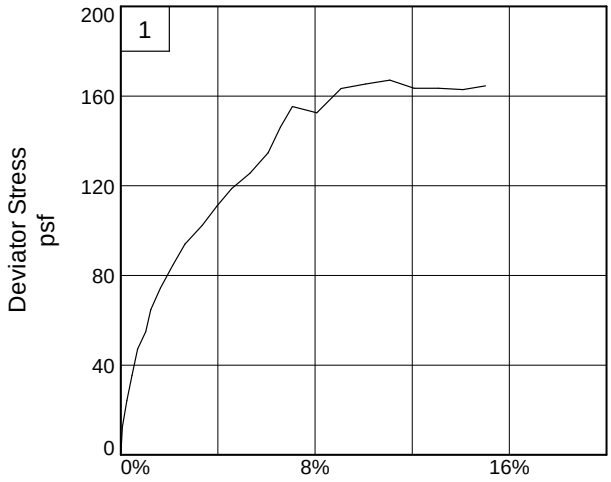
Project: Mobile River Bridge

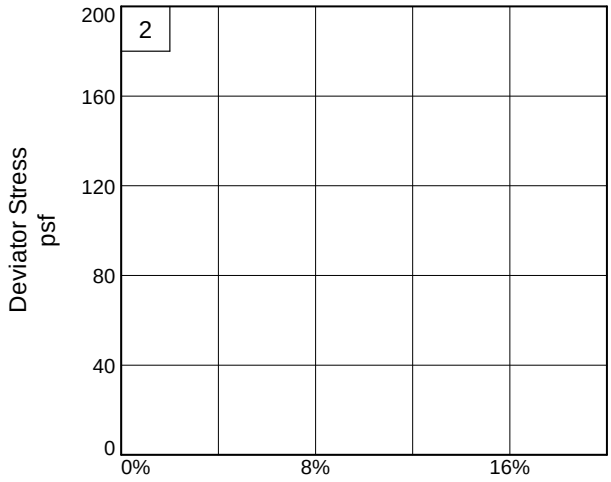
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5'

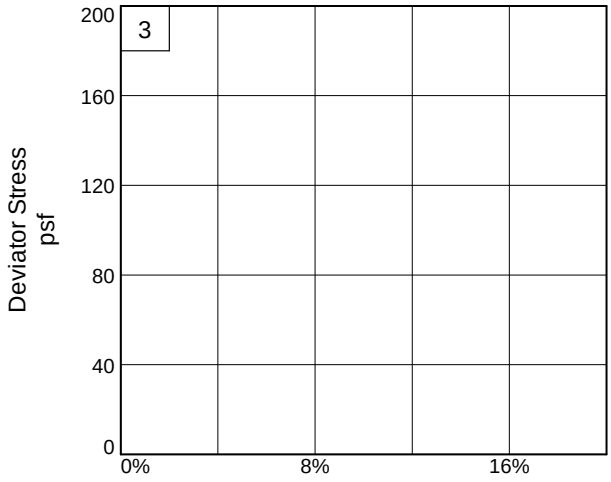
Sample Number: BW-47 T-1

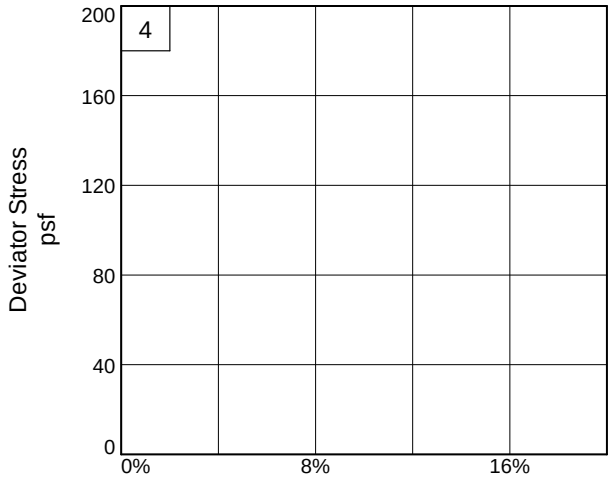
Proj. No.: 1511010228 **Date Sampled:**

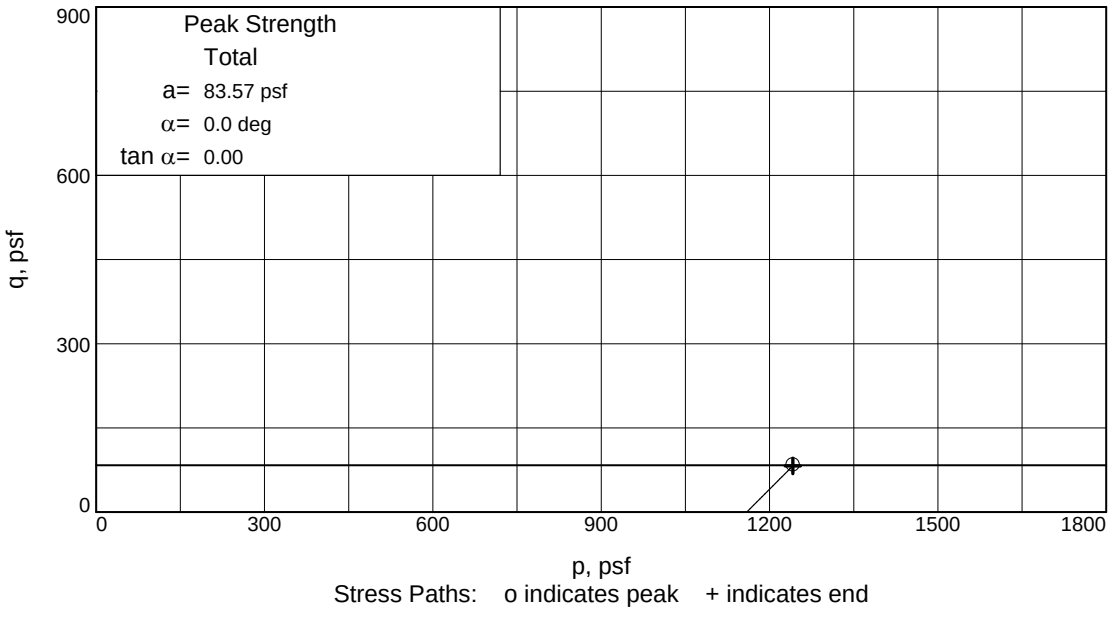
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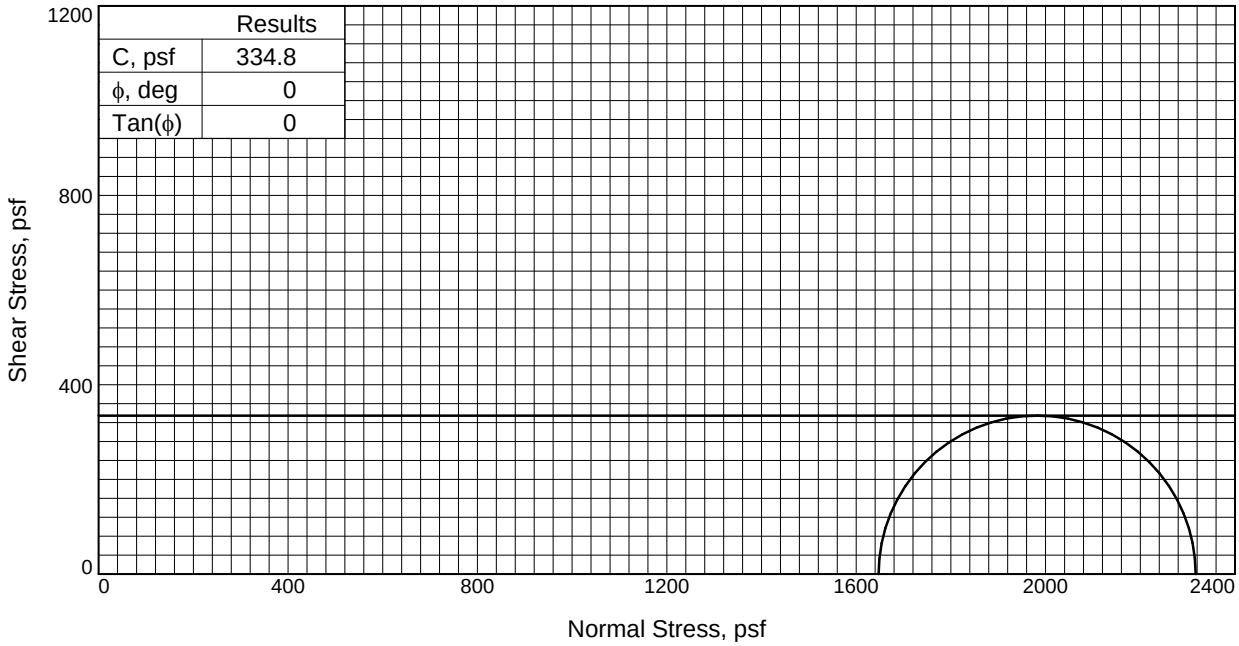


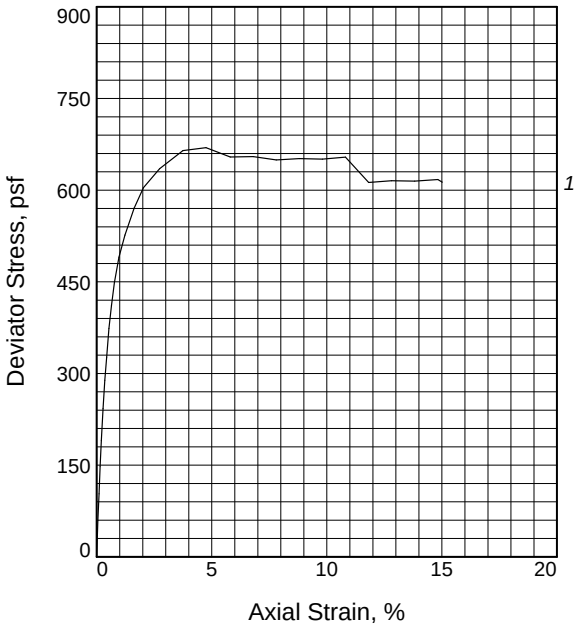




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 23.5'-25.5' **Sample Number:** BW-47 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	57.1
	Dry Density, pcf	64.5
	Saturation, %	96.4
	Void Ratio	1.5750
	Diameter, in.	2.779
	Height, in.	5.499
At Test	Water Content, %	69.2
	Dry Density, pcf	64.5
	Saturation, %	116.9
	Void Ratio	1.5750
	Diameter, in.	2.779
	Height, in.	5.499
Strain at peak, %		4.7
Back Pressure, psf		0.0
Cell Pressure, psf		1647.4
Fail. Stress, psf		669.6
Strain, %		4.7
Ult. Stress, psf		669.6
Strain, %		4.7
σ_1 Failure, psf		2316.9
σ_3 Failure, psf		1647.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(71))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

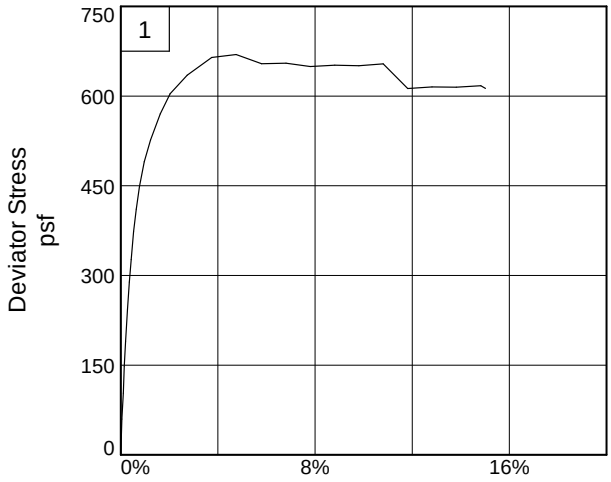
Project: Mobile River Bridge

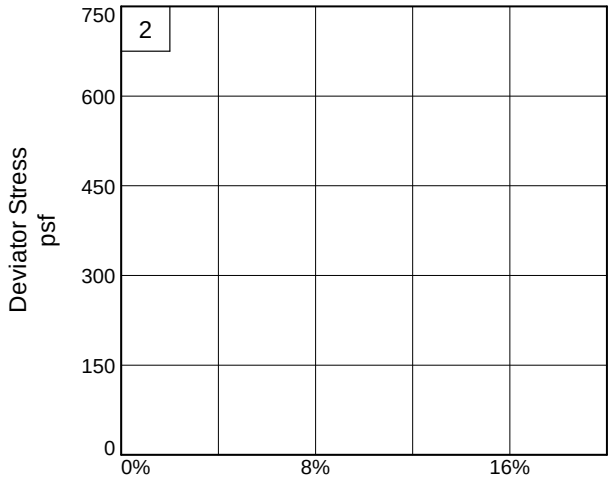
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5'

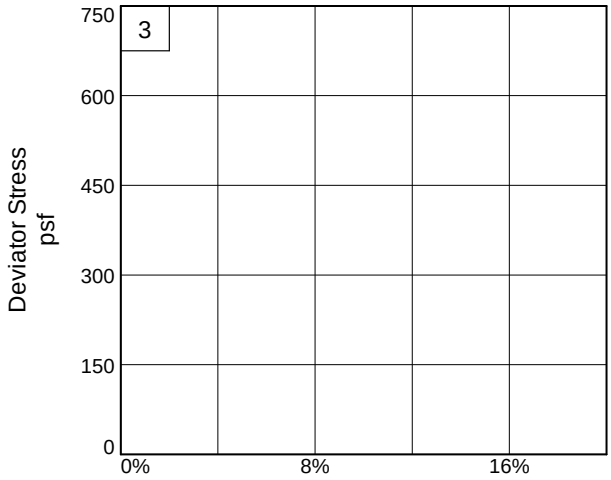
Sample Number: BW-47 T-2

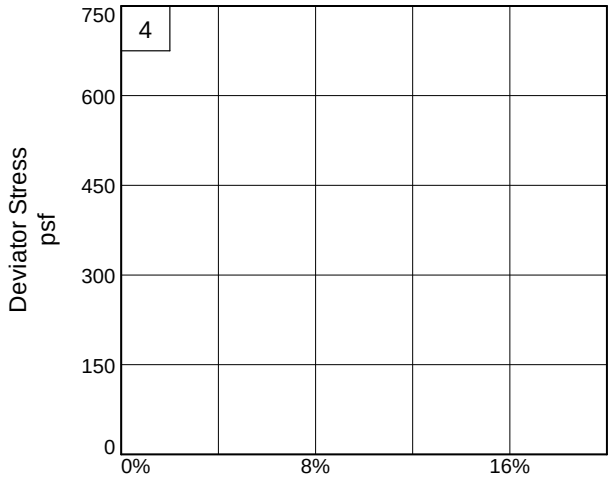
Proj. No.: 1511010228 **Date Sampled:**

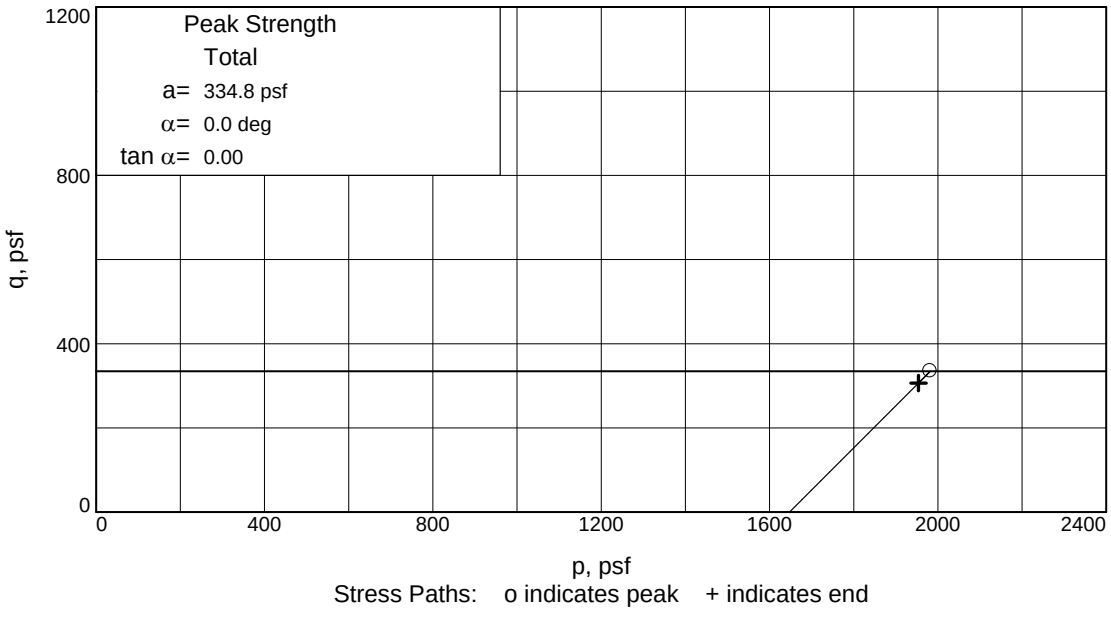
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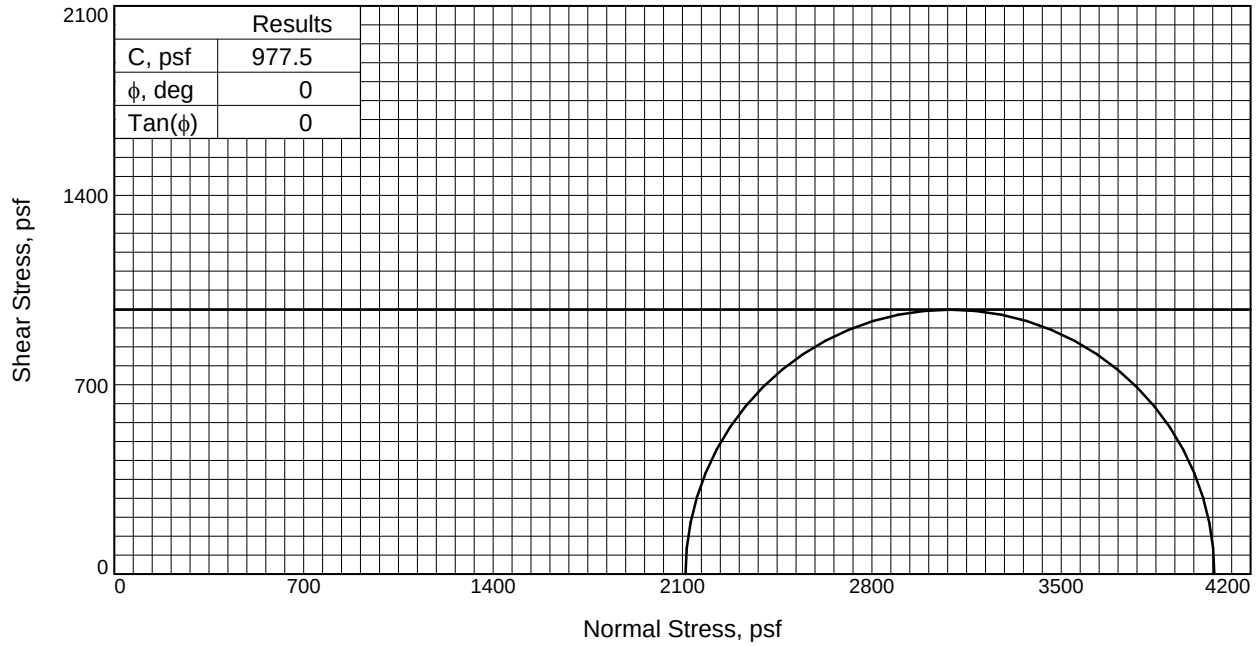


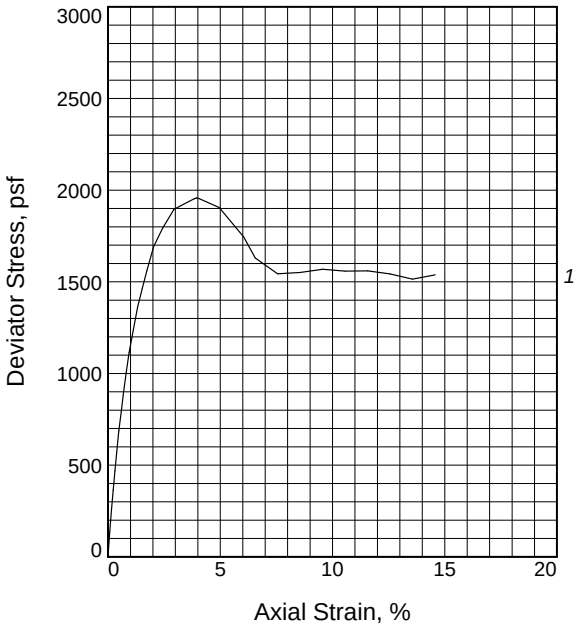




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 33.5'-35.5' **Sample Number:** BW-47 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	142.7
	Dry Density, pcf	35.7
	Saturation, %	104.1
	Void Ratio	3.6467
	Diameter, in.	2.829
	Height, in.	5.554
At Test	Water Content, %	112.6
	Dry Density, pcf	35.7
	Saturation, %	82.1
	Void Ratio	3.6467
	Diameter, in.	2.829
	Height, in.	5.554
Strain at peak, %		4.0
Back Pressure, psf		0.0
Cell Pressure, psf		2111.0
Fail. Stress, psf		1954.9
Strain, %		4.0
Ult. Stress, psf		1954.9
Strain, %		4.0
σ_1 Failure, psf		4066.0
σ_3 Failure, psf		2111.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

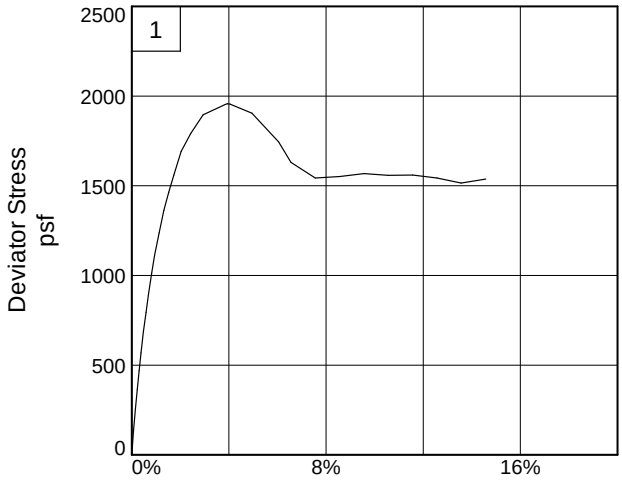
Project: Mobile River Bridge

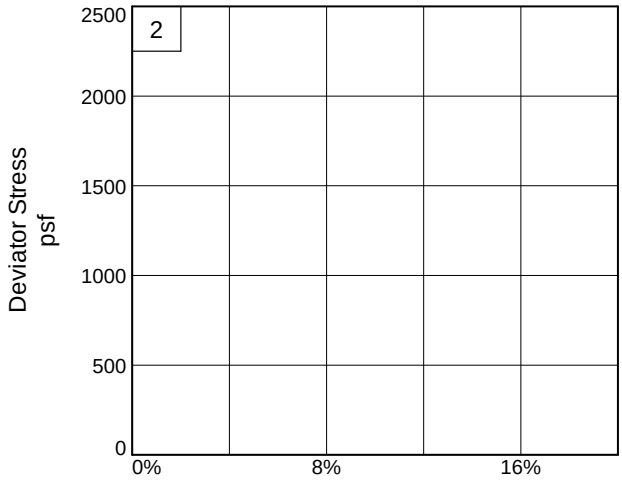
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5'

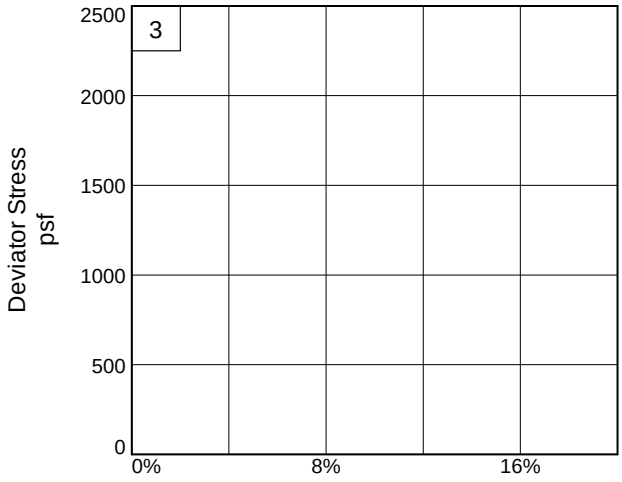
Sample Number: BW-47 T-3

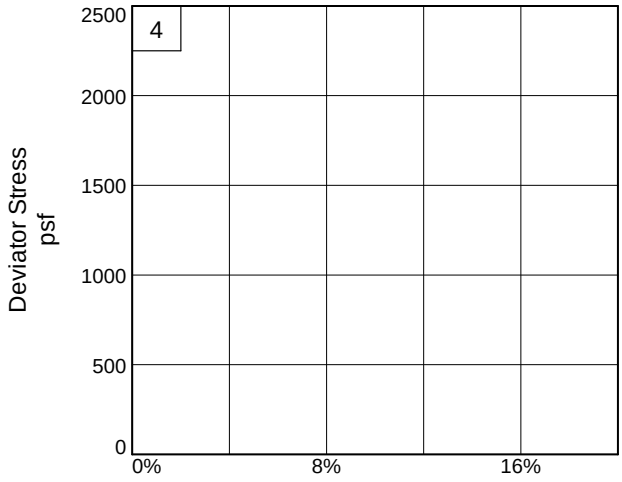
Proj. No.: 1511010228 **Date Sampled:**

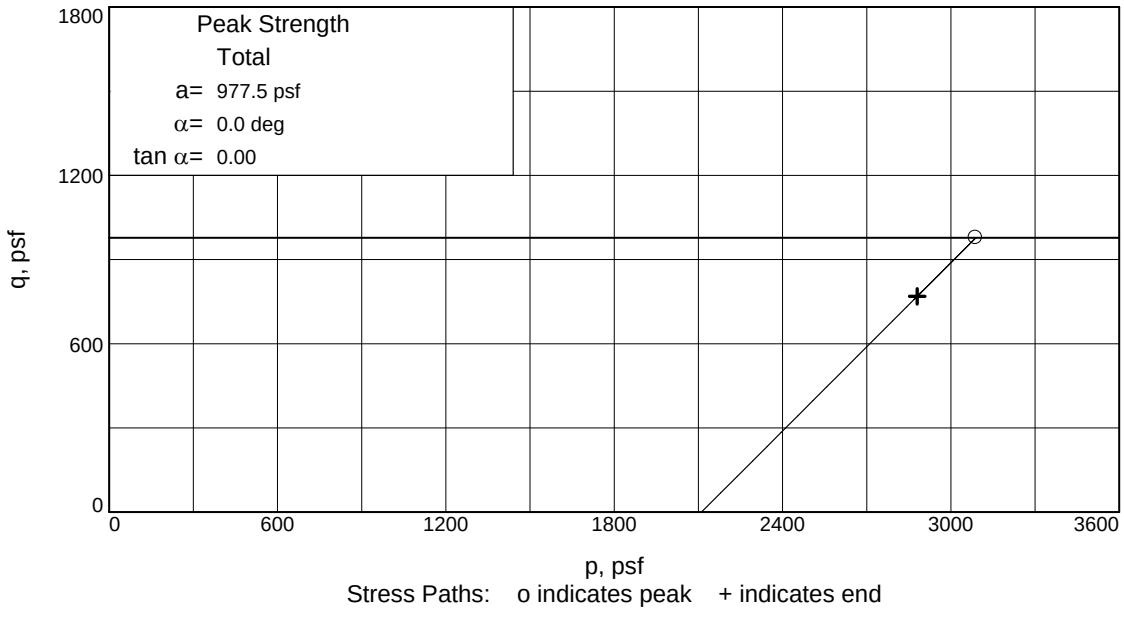
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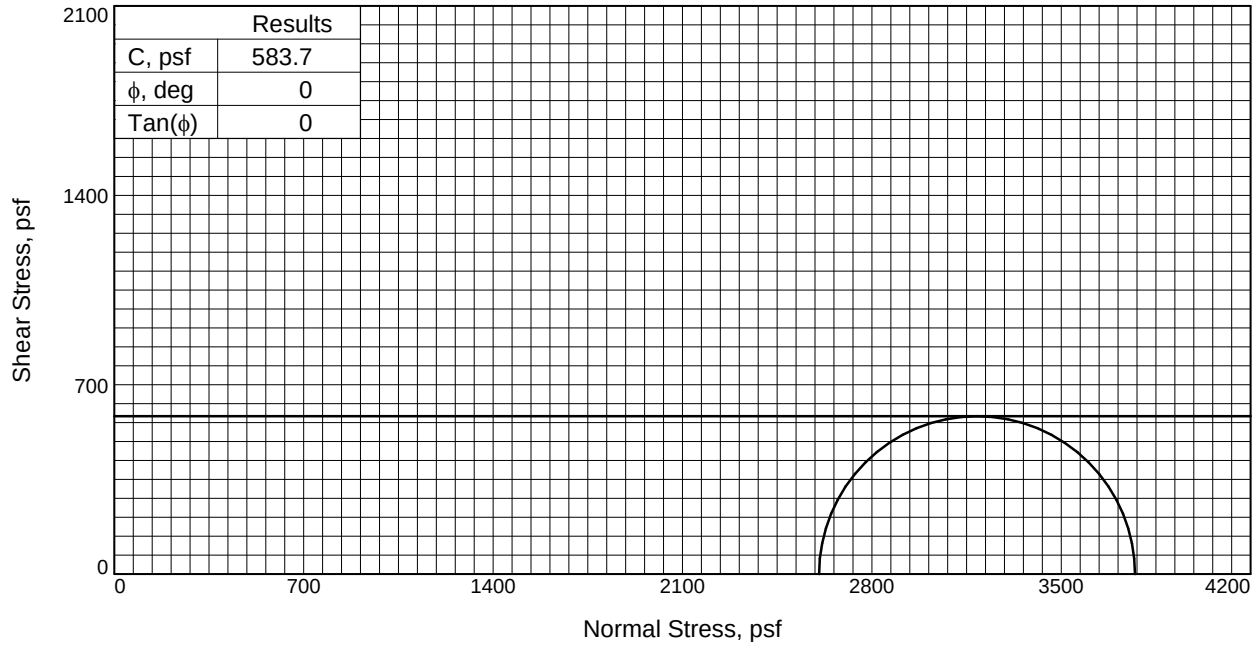


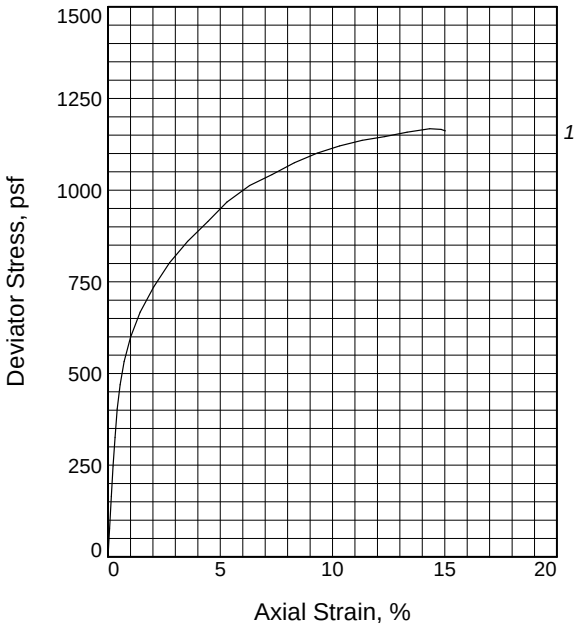




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 43.5'-45.5' **Sample Number:** BW-47 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	29.8
	Dry Density, pcf	94.7
	Saturation, %	105.2
	Void Ratio	0.7528
	Diameter, in.	2.799
	Height, in.	5.550
At Test	Water Content, %	30.6
	Dry Density, pcf	94.7
	Saturation, %	108.1
	Void Ratio	0.7528
	Diameter, in.	2.799
	Height, in.	5.550
Strain at peak, %		14.3
Back Pressure, psf		0.0
Cell Pressure, psf		2605.0
Fail. Stress, psf		1167.5
Strain, %		14.3
Ult. Stress, psf		1167.5
Strain, %		14.3
σ_1 Failure, psf		3772.4
σ_3 Failure, psf		2605.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(22))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

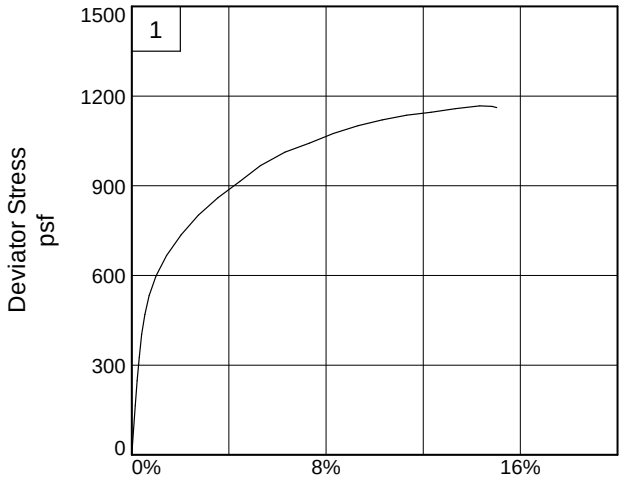
Project: Mobile River Bridge

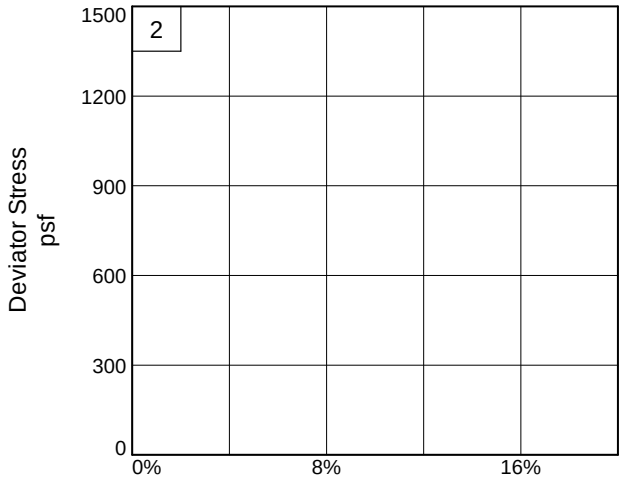
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5'

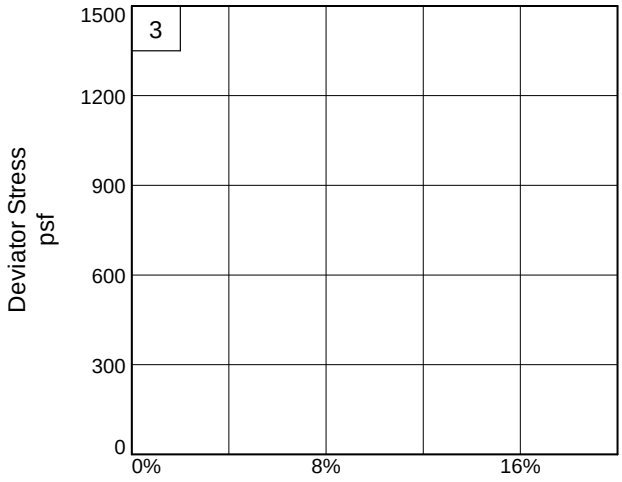
Sample Number: BW-47 T-4

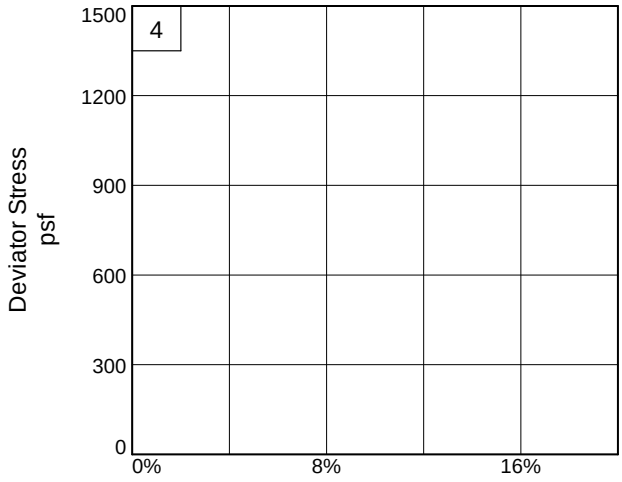
Proj. No.: 1511010228 **Date Sampled:**

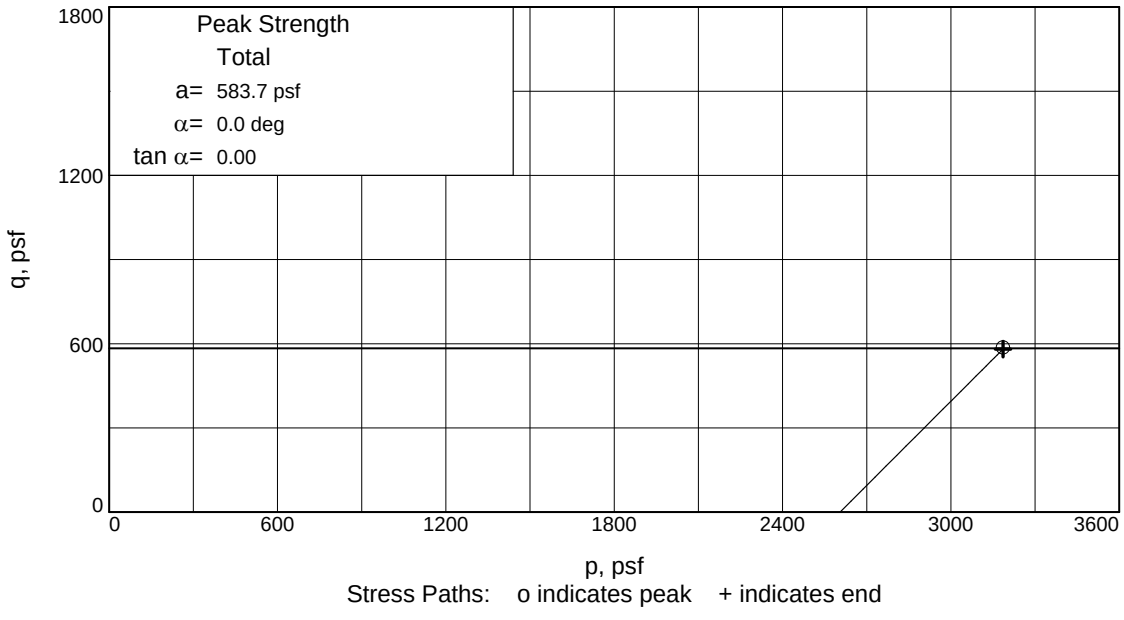
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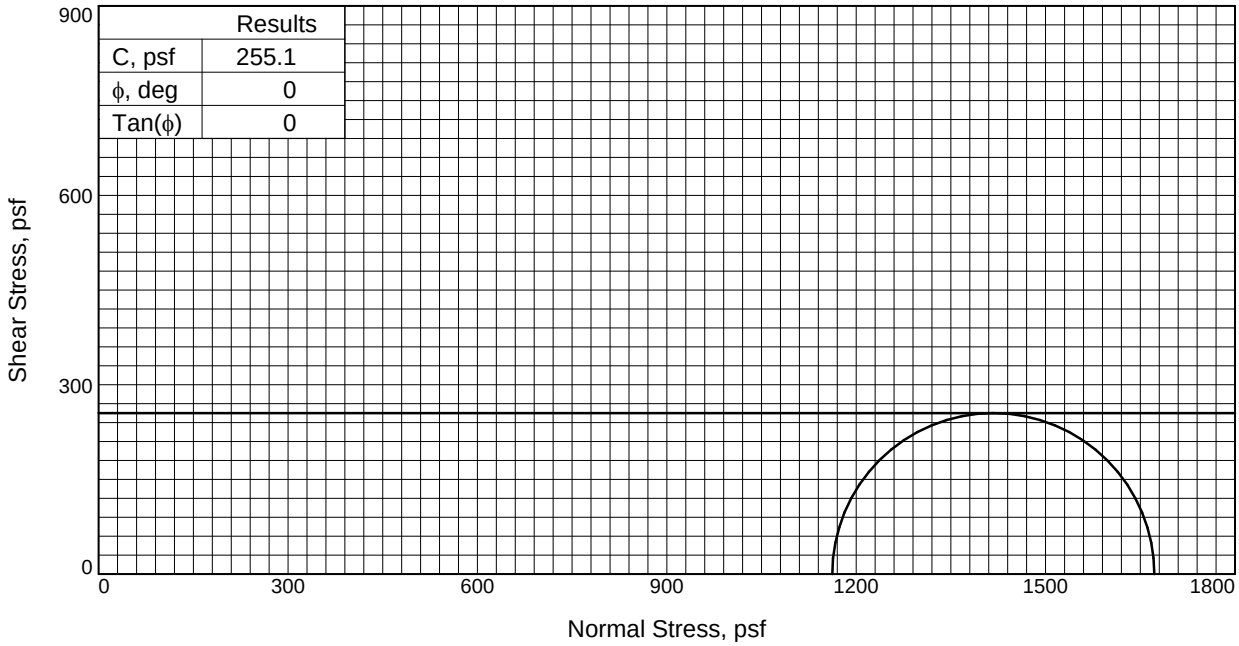


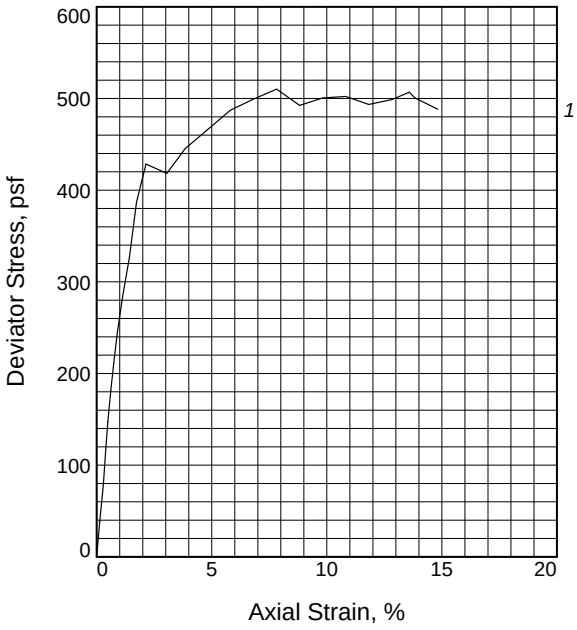


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7816 **Depth:** 53.5'-55.5' **Sample Number:** BW-47 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	56.5
	Dry Density, pcf	71.5
	Saturation, %	113.7
	Void Ratio	1.3222
	Diameter, in.	2.747
	Height, in.	5.689
At Test	Water Content, %	50.1
	Dry Density, pcf	71.5
	Saturation, %	100.7
	Void Ratio	1.3222
	Diameter, in.	2.747
	Height, in.	5.689
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		1162.1
Fail. Stress, psf		510.2
Strain, %		7.8
Ult. Stress, psf		510.2
Strain, %		7.8
σ_1 Failure, psf		1672.3
σ_3 Failure, psf		1162.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: Gray, CLAY, with trace shell

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

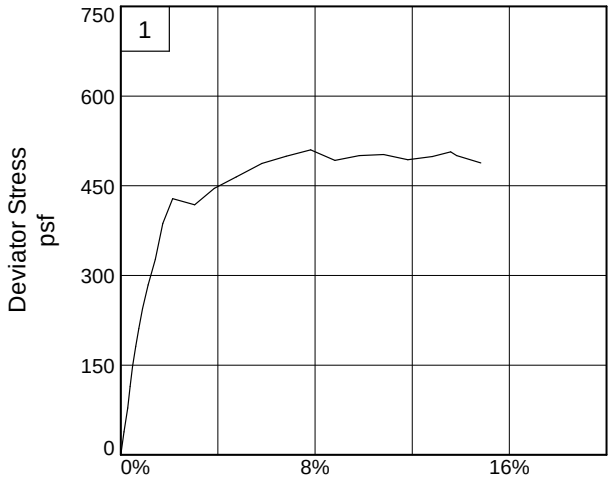
Project: Mobile River Bridge

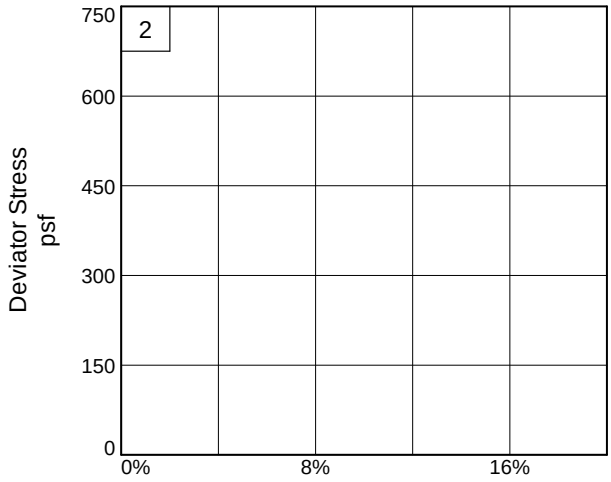
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5'

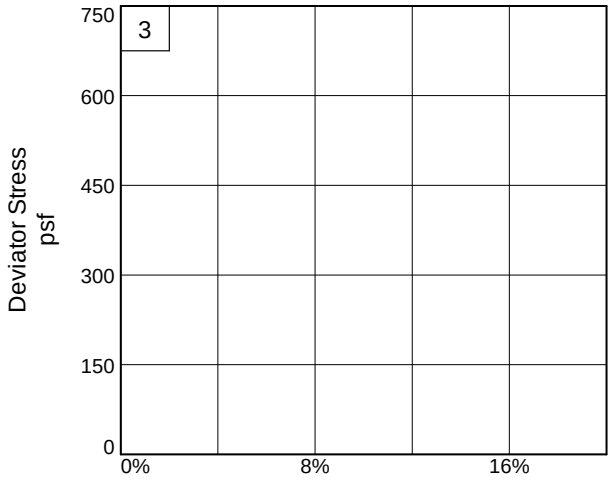
Sample Number: BW-48 T-1

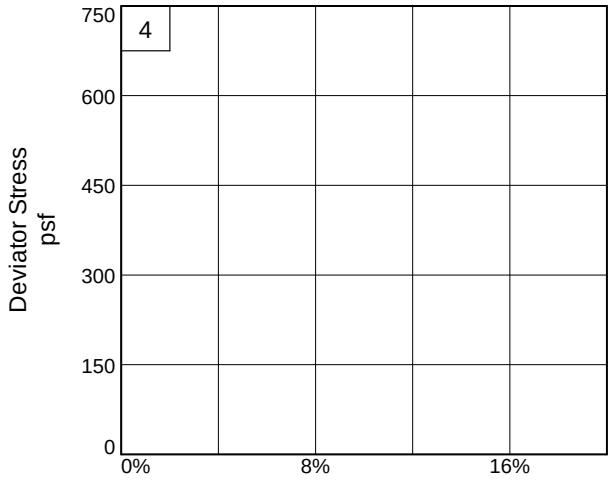
Proj. No.: 1511010228 **Date Sampled:**

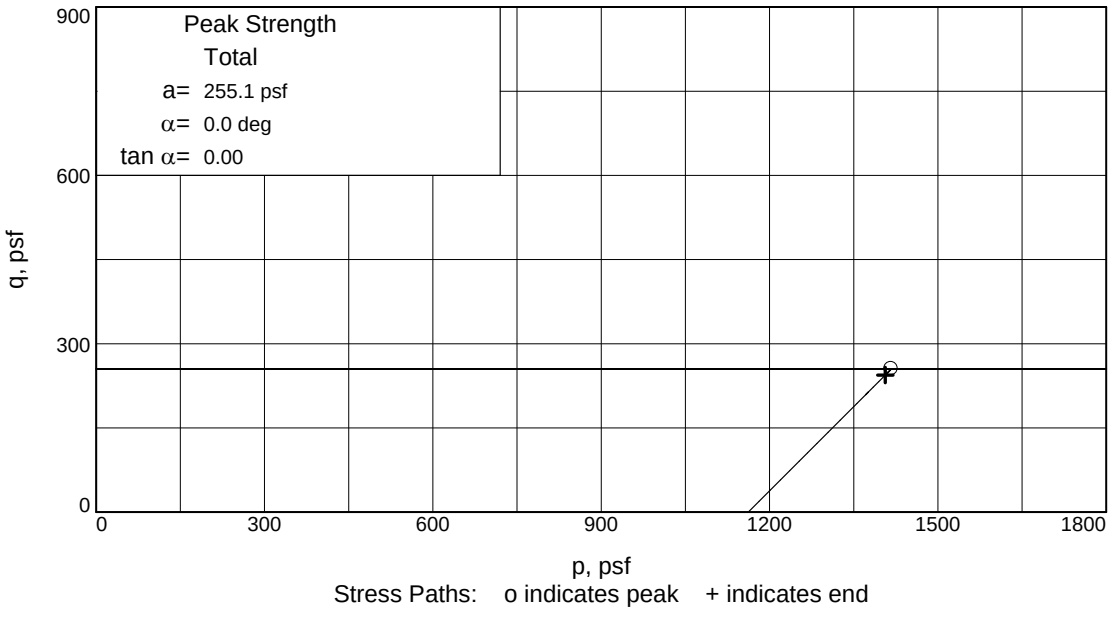
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Mobile, Alabama





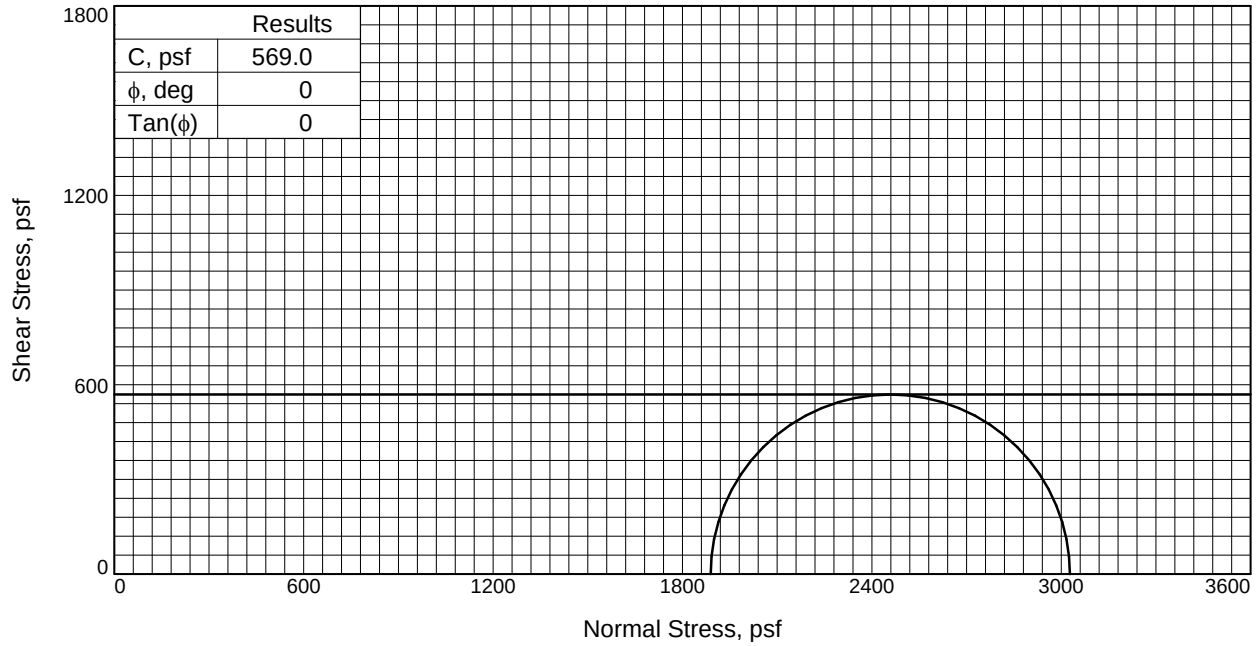


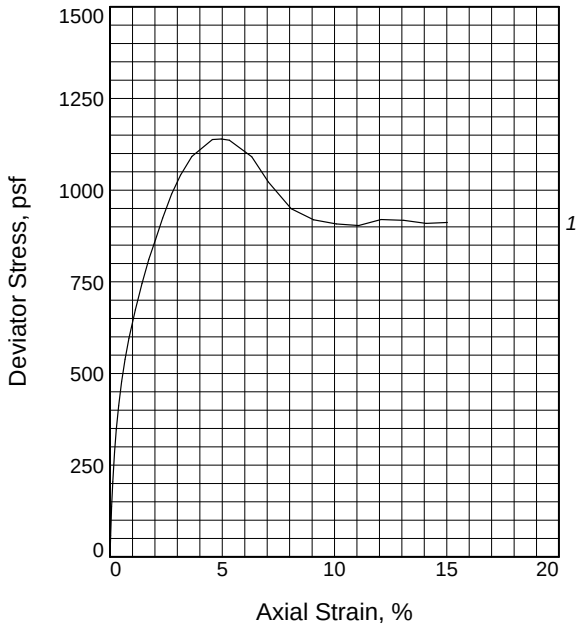




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5' **Sample Number:** BW-48 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	65.0
	Dry Density, pcf	62.7
	Saturation, %	104.9
	Void Ratio	1.6479
	Diameter, in.	2.809
	Height, in.	5.593
At Test	Water Content, %	60.2
	Dry Density, pcf	62.7
	Saturation, %	97.2
	Void Ratio	1.6479
	Diameter, in.	2.809
	Height, in.	5.593
Strain at peak, %		4.6
Back Pressure, psf		0.0
Cell Pressure, psf		1889.3
Fail. Stress, psf		1138.1
Strain, %		4.6
Ult. Stress, psf		1138.1
Strain, %		4.6
σ_1 Failure, psf		3027.3
σ_3 Failure, psf		1889.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(56))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

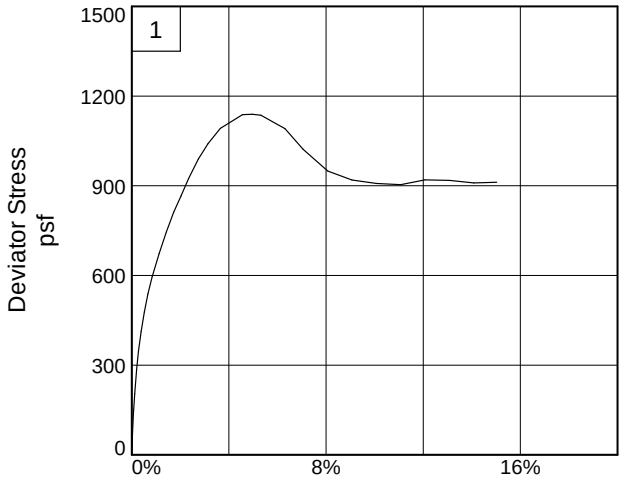
Project: Mobile River Bridge

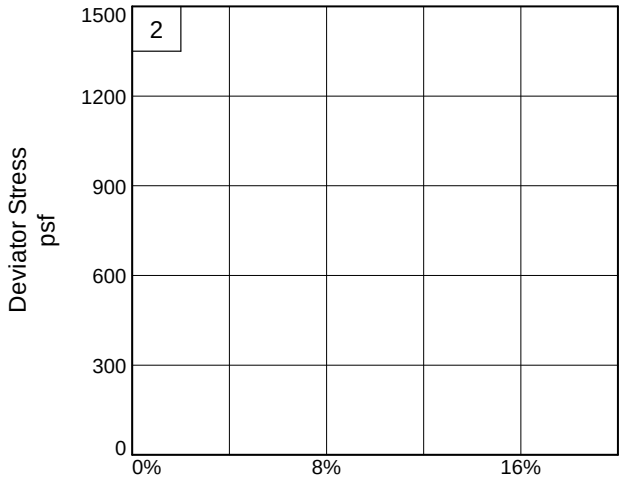
Source of Sample: Lab #7817 **Depth:** 38.5'-40.5'

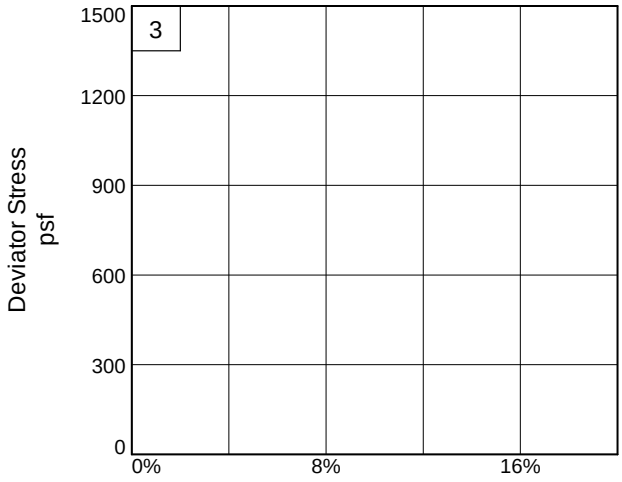
Sample Number: BW-48 T-2

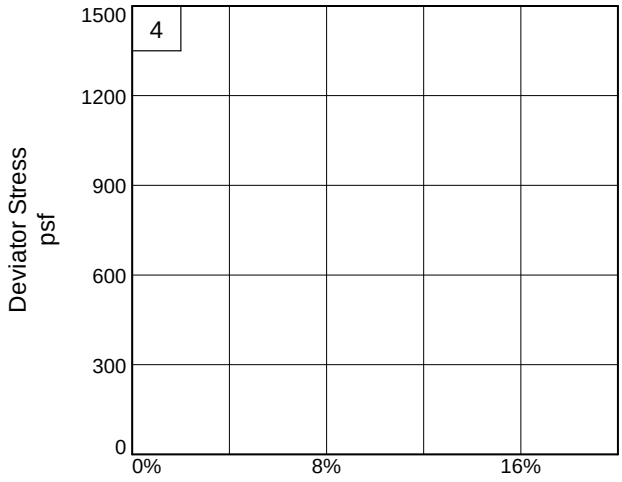
Proj. No.: 1511010228 **Date Sampled:**

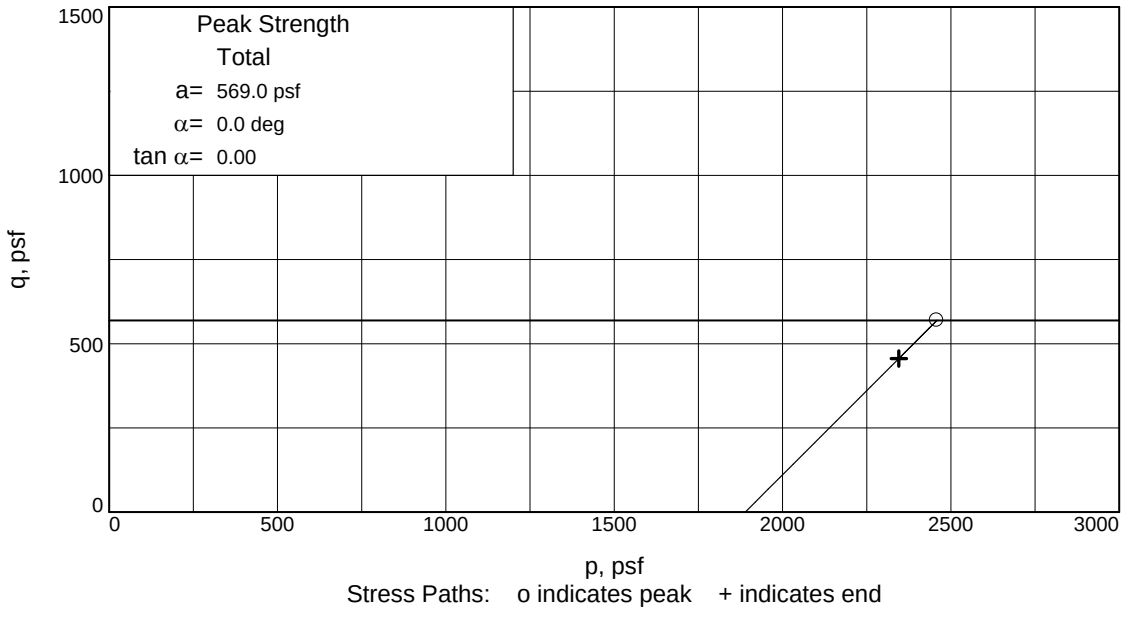
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Mobile, Alabama





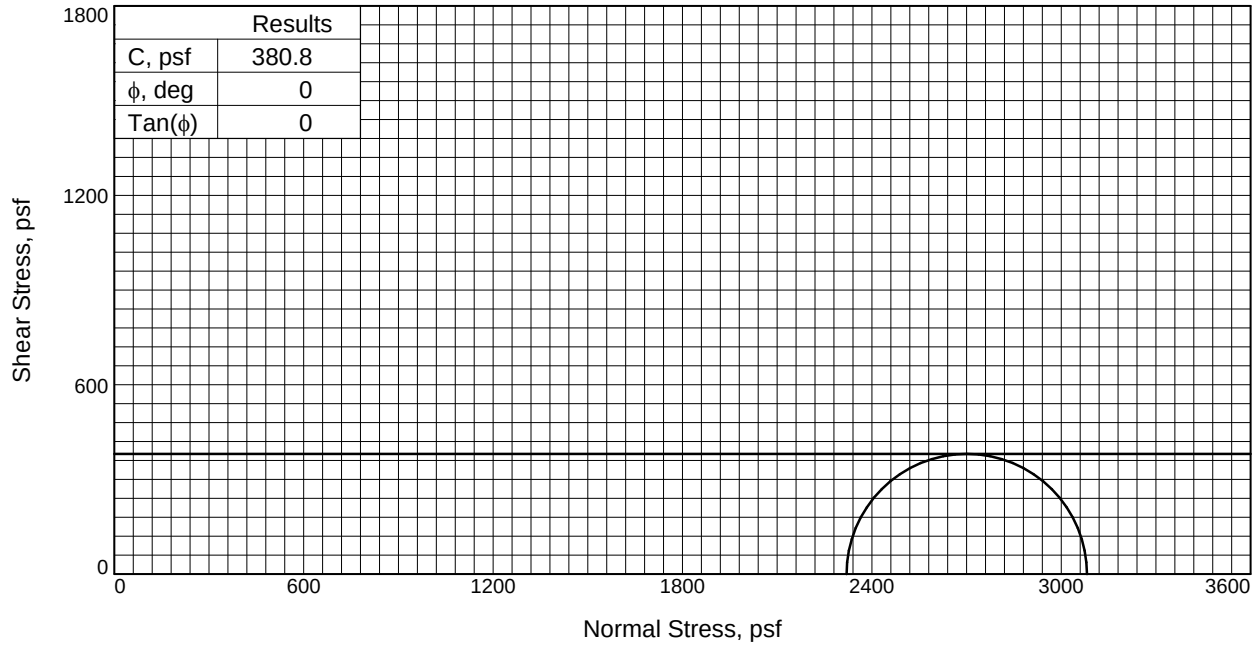


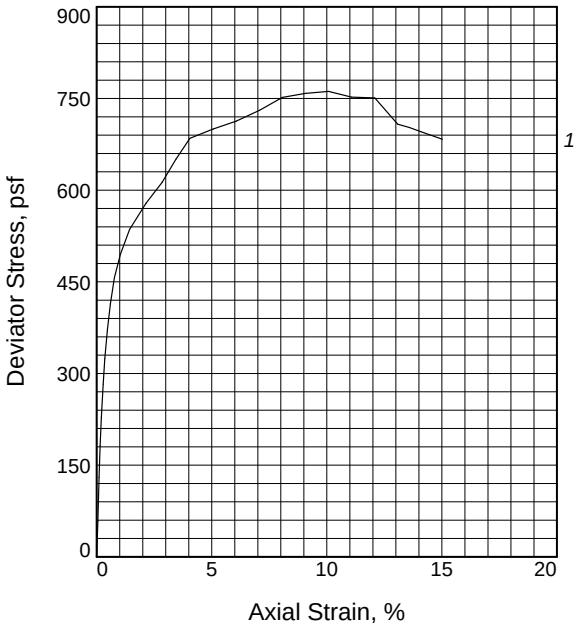




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 38.5'-40.5' **Sample Number:** BW-48 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	41.1
	Dry Density, pcf	80.8
	Saturation, %	103.7
	Void Ratio	1.0544
	Diameter, in.	2.756
	Height, in.	5.376
At Test	Water Content, %	44.2
	Dry Density, pcf	80.8
	Saturation, %	111.4
	Void Ratio	1.0544
	Diameter, in.	2.756
	Height, in.	5.376
Strain at peak, %		10.1
Back Pressure, psf		0.0
Cell Pressure, psf		2319.8
Fail. Stress, psf		761.6
Strain, %		10.1
Ult. Stress, psf		761.6
Strain, %		10.1
σ_1 Failure, psf		3081.5
σ_3 Failure, psf		2319.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(20))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

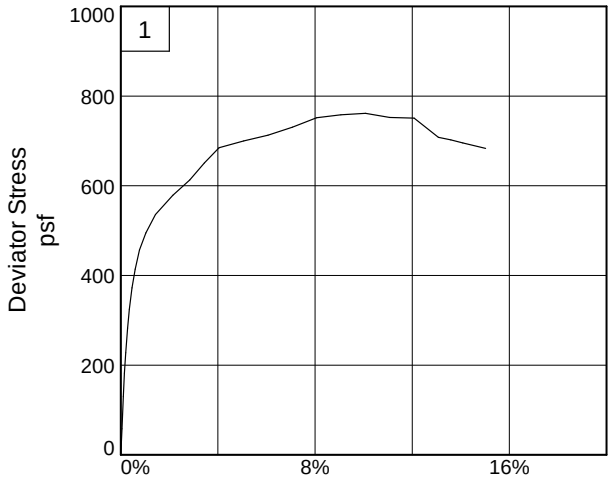
Project: Mobile River Bridge

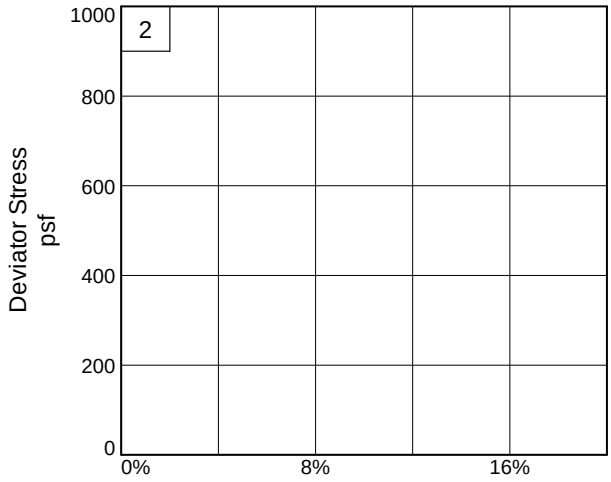
Source of Sample: Lab #7817 **Depth:** 48.5'-50.5'

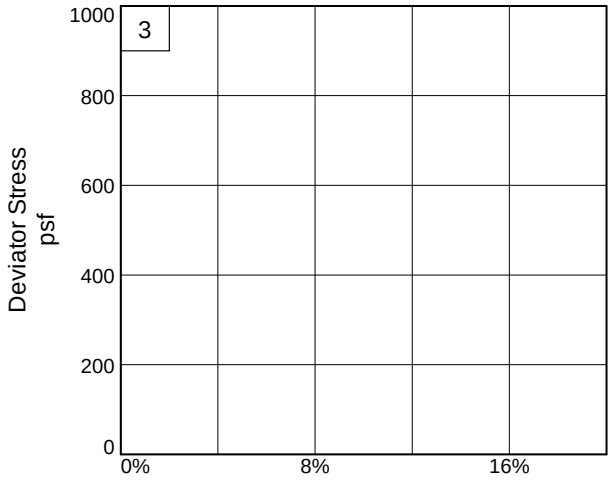
Sample Number: BW-48 T-3

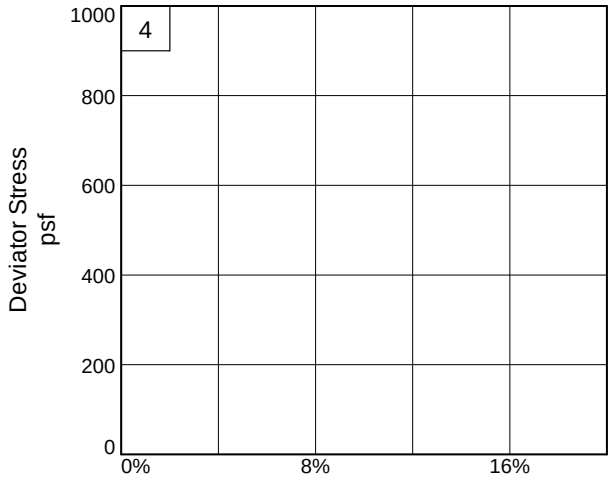
Proj. No.: 1511010228 **Date Sampled:**

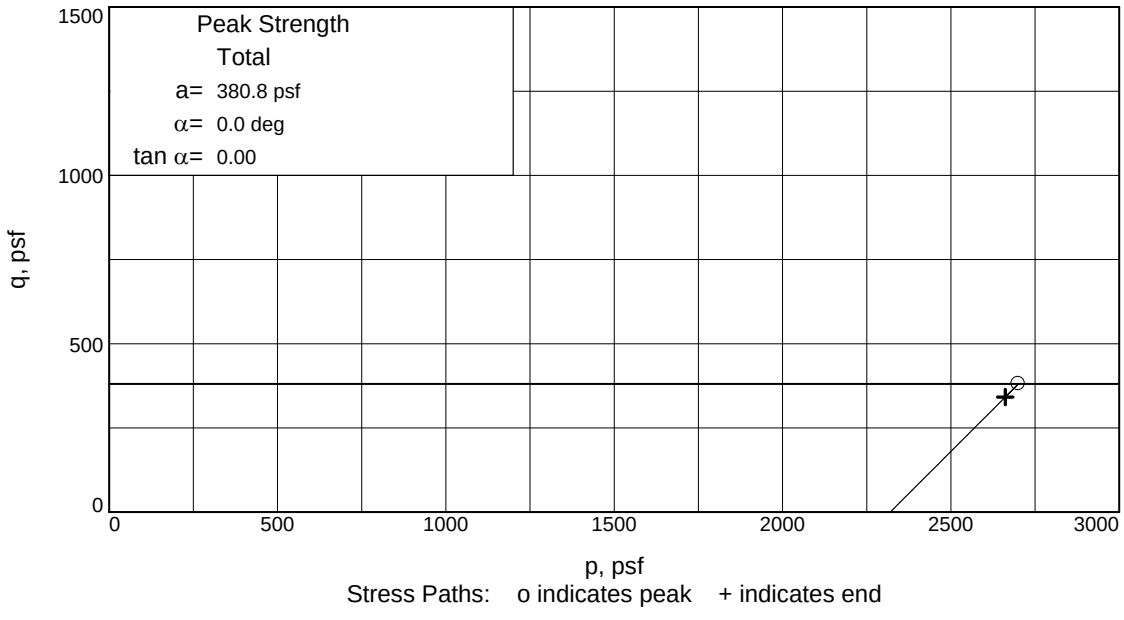
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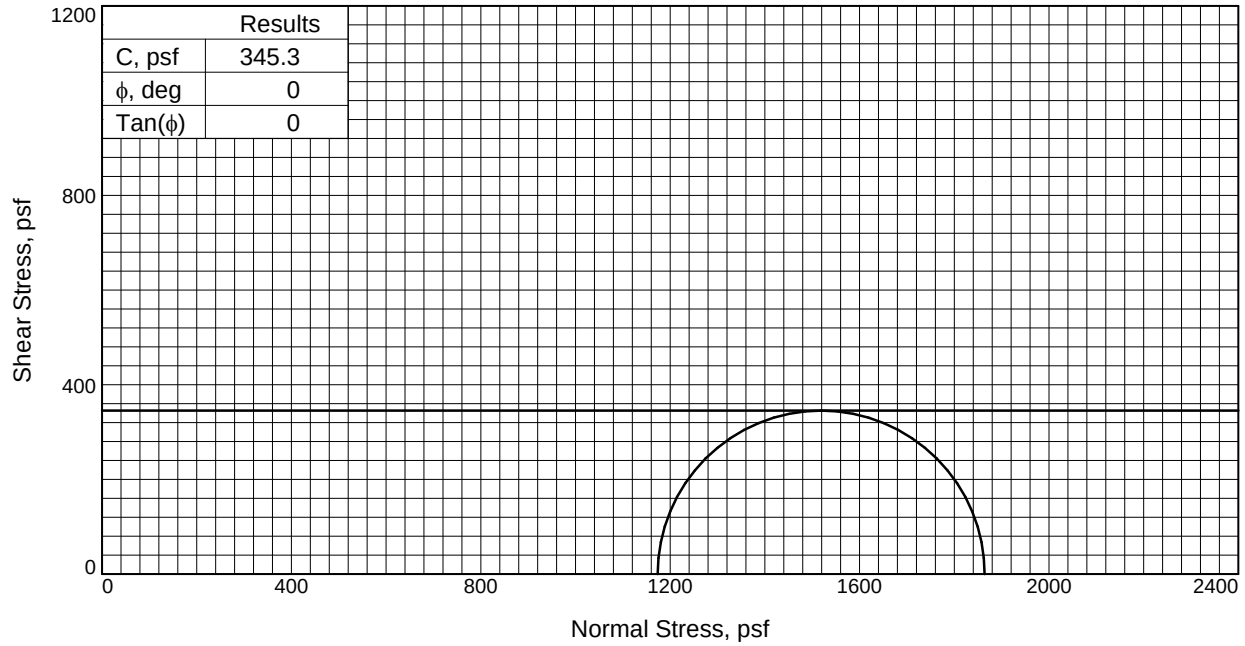


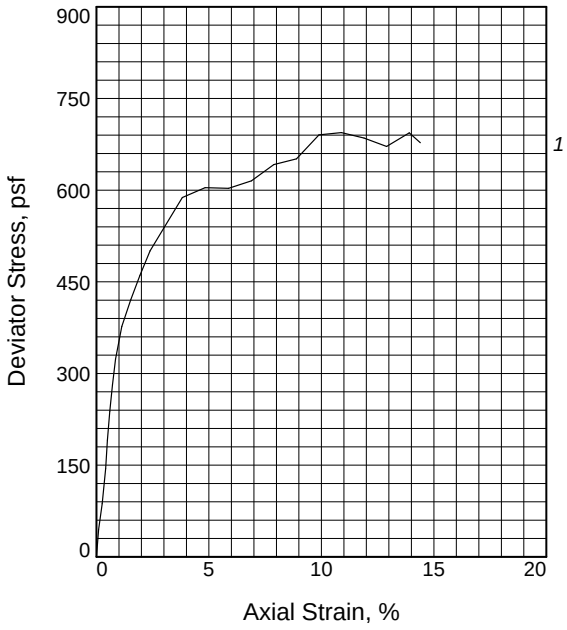




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 48.5'-50.5' **Sample Number:** BW-48 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	55.8
	Dry Density, pcf	72.1
	Saturation, %	113.8
	Void Ratio	1.3037
	Diameter, in.	2.845
	Height, in.	5.471
At Test	Water Content, %	38.1
	Dry Density, pcf	72.1
	Saturation, %	77.7
	Void Ratio	1.3037
	Diameter, in.	2.845
	Height, in.	5.471
Strain at peak, %		9.9
Back Pressure, psf		0.0
Cell Pressure, psf		1173.6
Fail. Stress, psf		690.5
Strain, %		9.9
Ult. Stress, psf		690.5
Strain, %		9.9
σ_1 Failure, psf		1864.1
σ_3 Failure, psf		1173.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(43))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

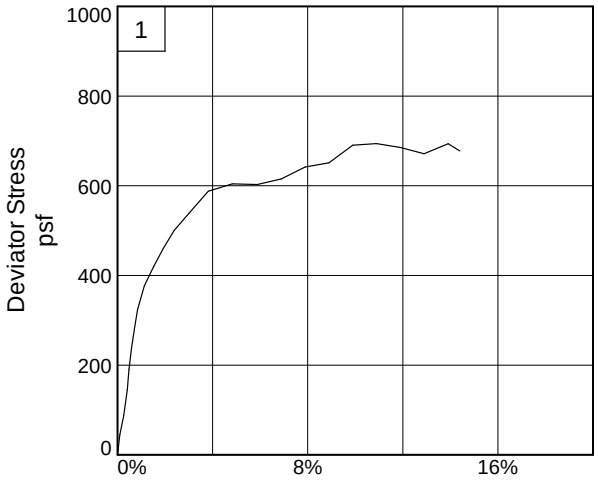
Project: Mobile River Bridge

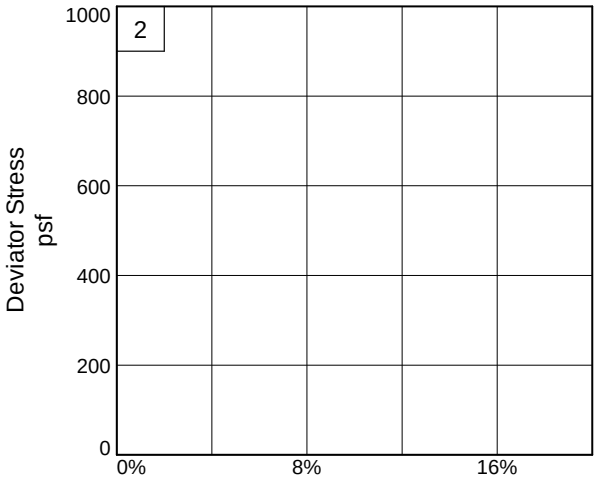
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5'

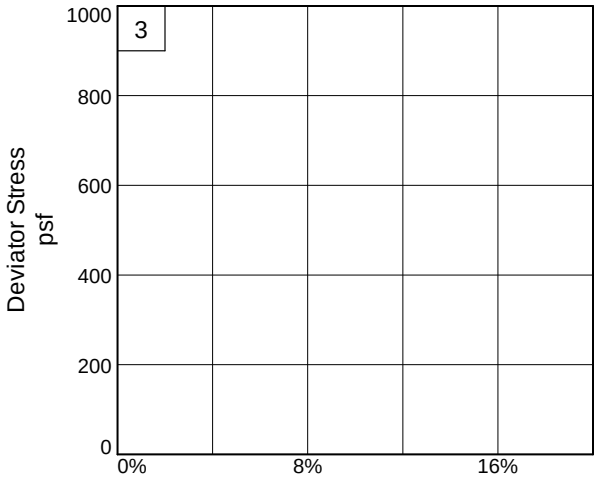
Sample Number: BW-49 T-1

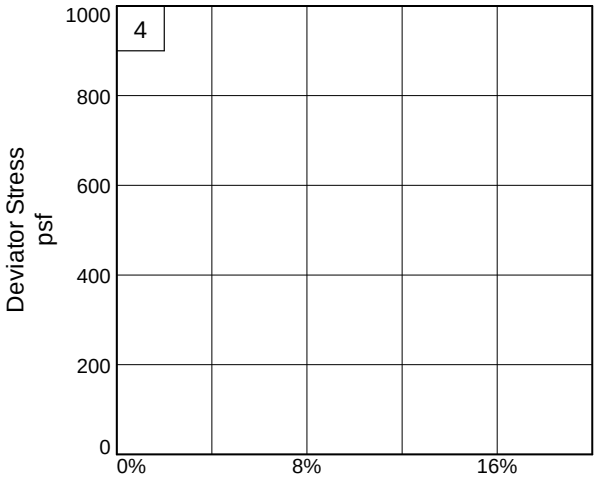
Proj. No.: 1511010228 **Date Sampled:**

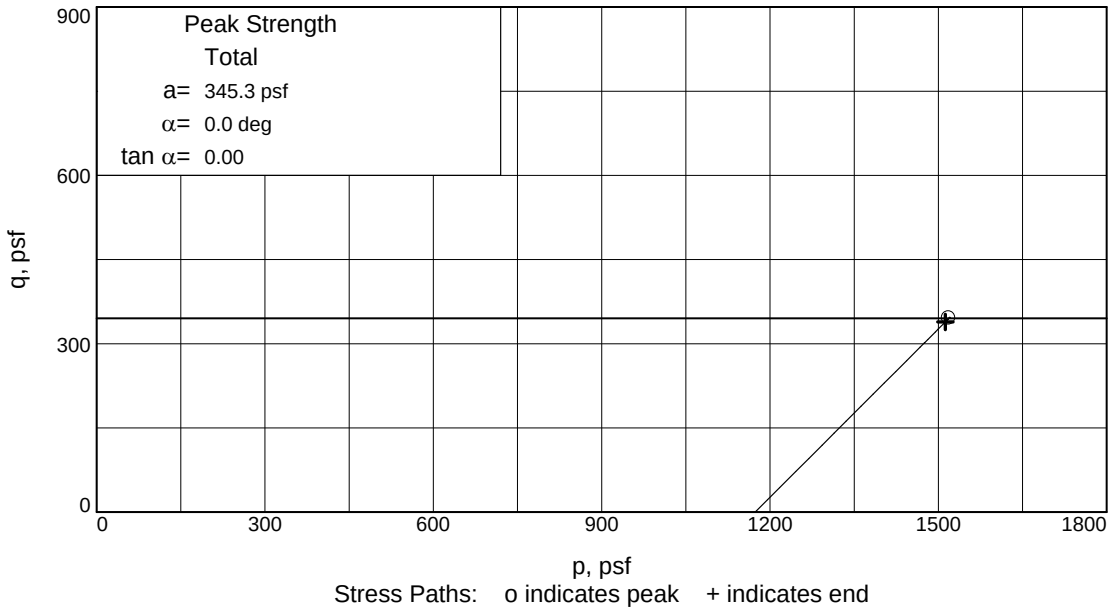
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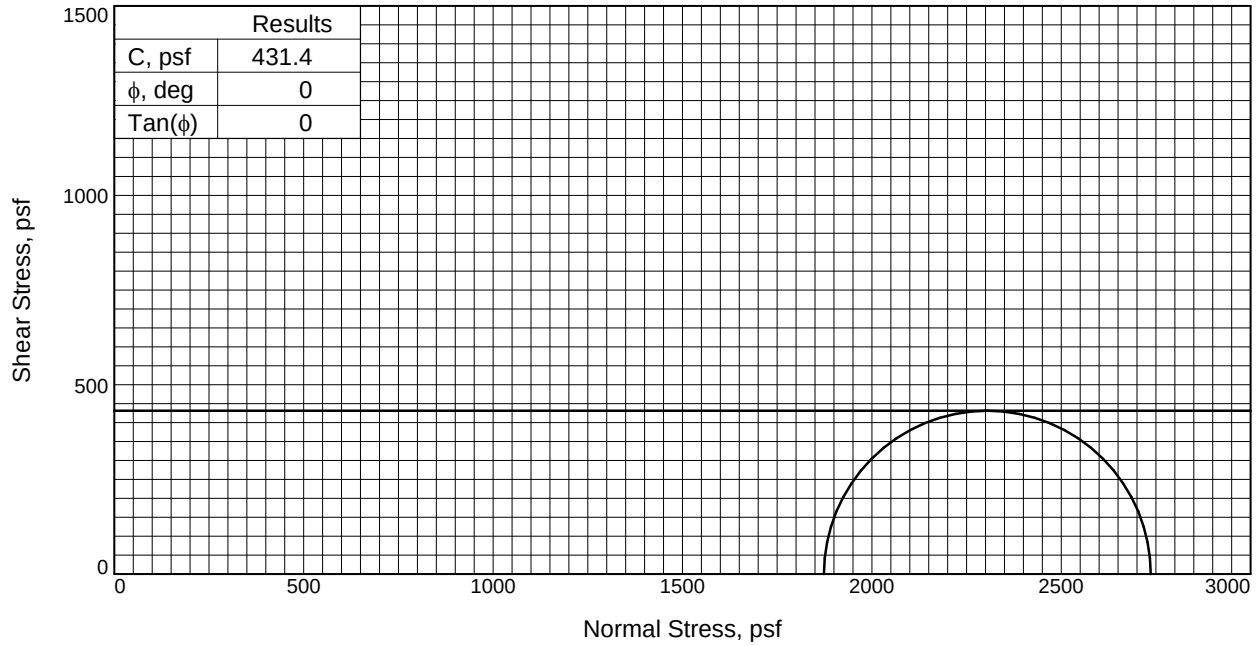
Client: ALDOT

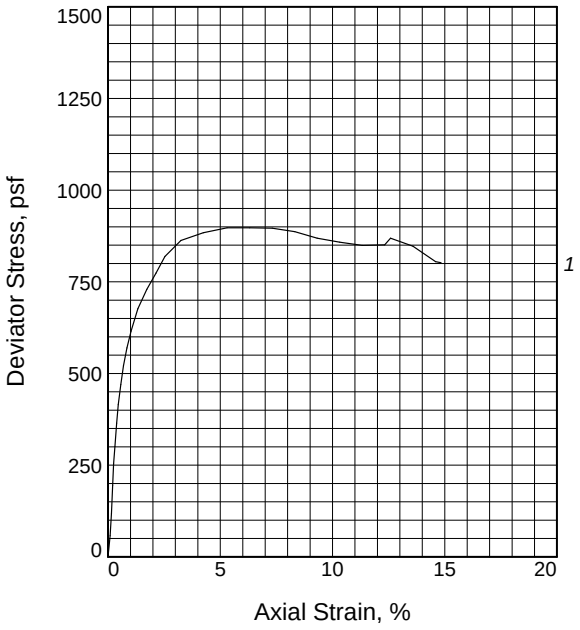
Project: Mobile River Bridge

Source of Sample: Lab #7817 **Depth:** 23.5'-25.5' **Sample Number:** BW-49 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	59.2
	Dry Density, pcf	67.5
	Saturation, %	109.7
	Void Ratio	1.4011
	Diameter, in.	2.765
	Height, in.	5.487
At Test	Water Content, %	53.7
	Dry Density, pcf	67.5
	Saturation, %	99.5
	Void Ratio	1.4011
	Diameter, in.	2.765
	Height, in.	5.487
Strain at peak, %		3.2
Back Pressure, psf		0.0
Cell Pressure, psf		1873.4
Fail. Stress, psf		862.7
Strain, %		3.2
Ult. Stress, psf		862.7
Strain, %		3.2
σ_1 Failure, psf		2736.2
σ_3 Failure, psf		1873.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(59))

Specific Gravity= 2.595

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

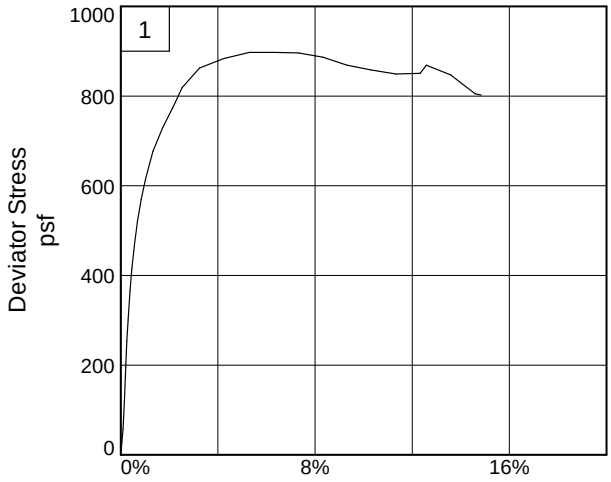
Project: Mobile River Bridge

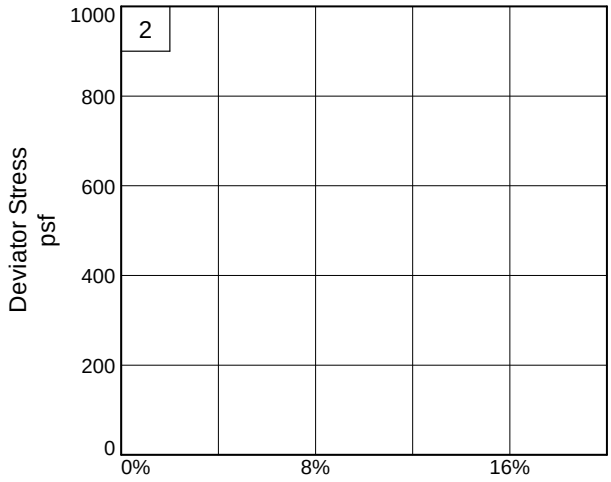
Source of Sample: Lab #7817 **Depth:** 38.5'-40.5'

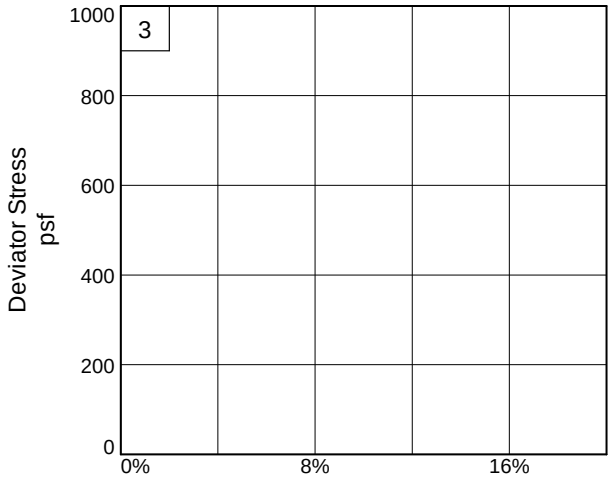
Sample Number: BW-49 T-2

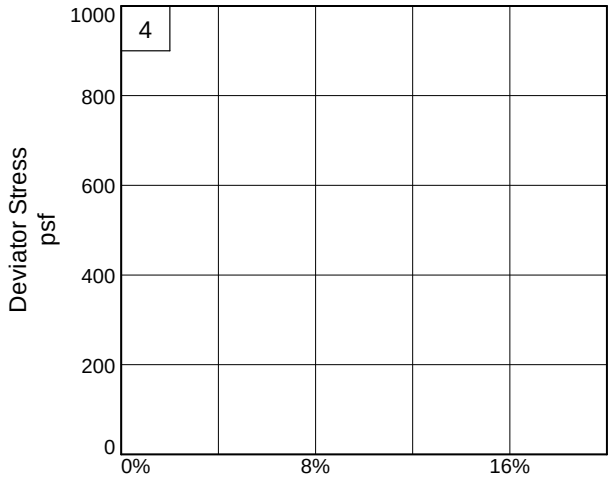
Proj. No.: 1511010228 **Date Sampled:**

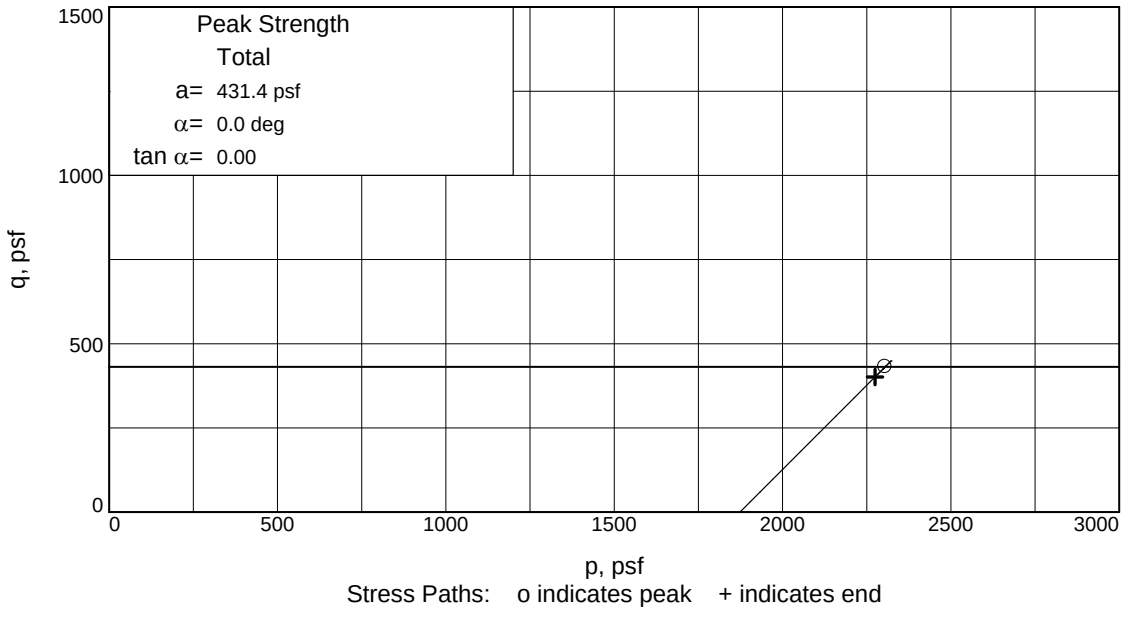
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Thompson Engineering
Mobile, Alabama





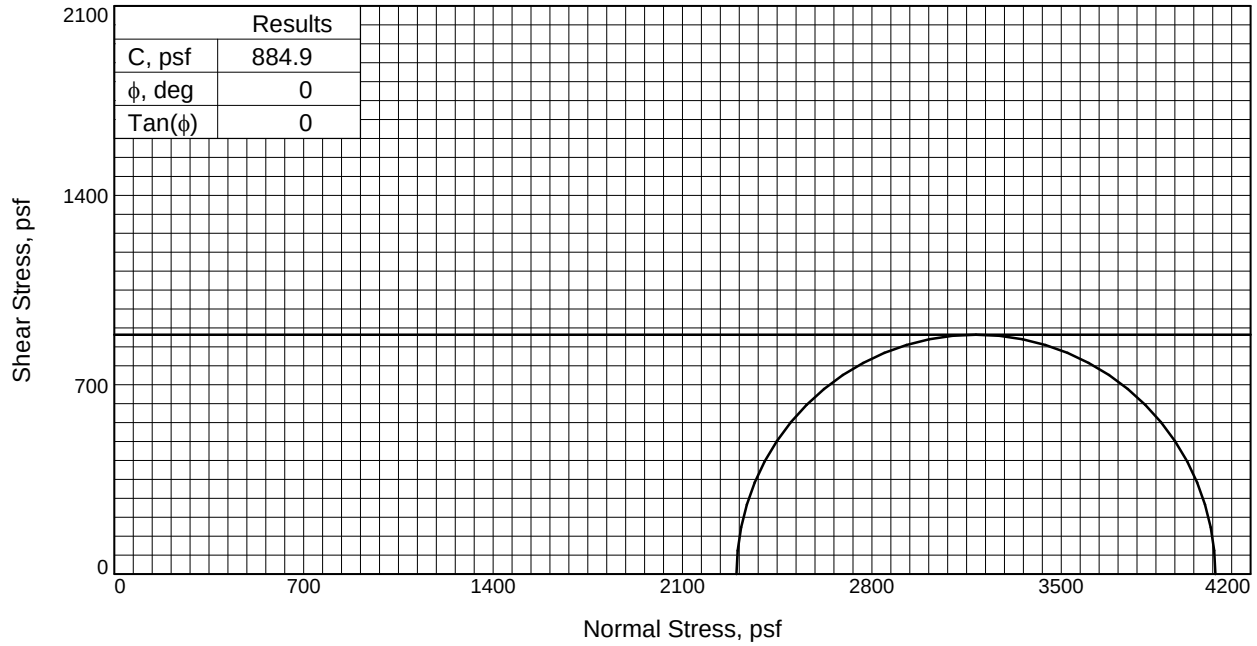


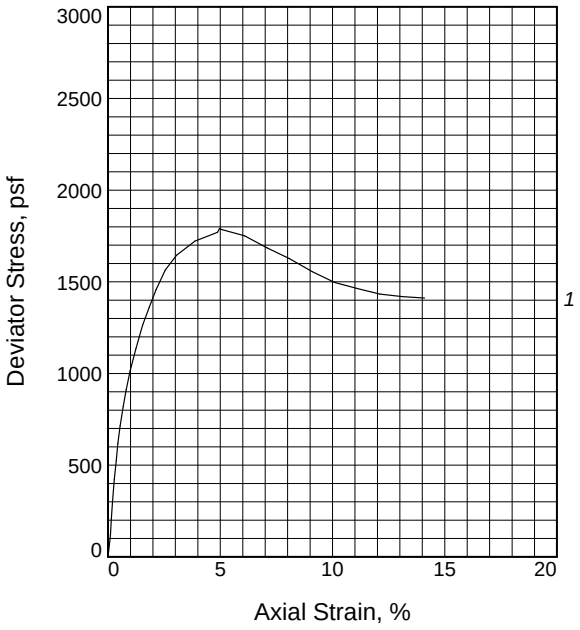




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 38.5'-40.5' **Sample Number:** BW-49 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	60.1
	Dry Density, pcf	64.1
	Saturation, %	102.3
	Void Ratio	1.5171
	Diameter, in.	2.821
	Height, in.	5.464
At Test	Water Content, %	59.6
	Dry Density, pcf	64.1
	Saturation, %	101.5
	Void Ratio	1.5171
	Diameter, in.	2.821
	Height, in.	5.464
Strain at peak, %		4.9
Back Pressure, psf		0.0
Cell Pressure, psf		2299.7
Fail. Stress, psf		1769.8
Strain, %		4.9
Ult. Stress, psf		1769.8
Strain, %		4.9
σ_1 Failure, psf		4069.5
σ_3 Failure, psf		2299.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(52))

Specific Gravity= 2.583

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

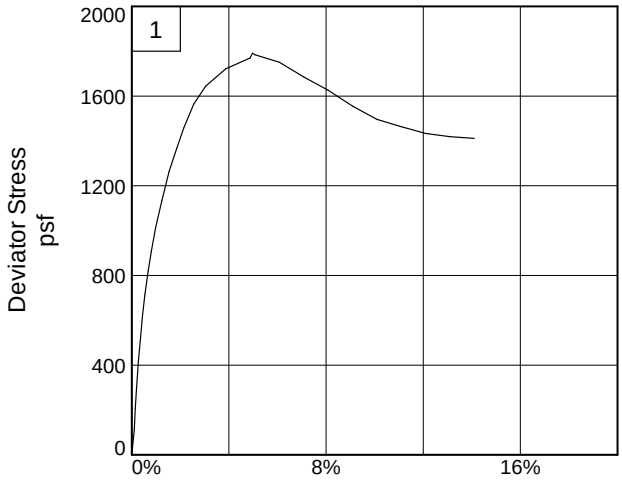
Project: Mobile River Bridge

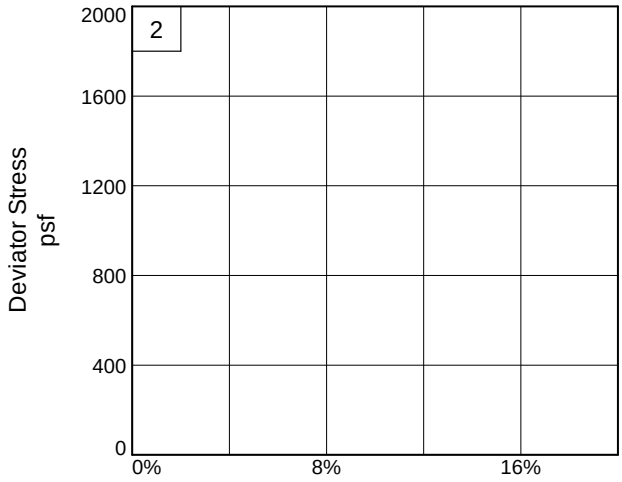
Source of Sample: Lab #7817 **Depth:** 48.5'-50.0'

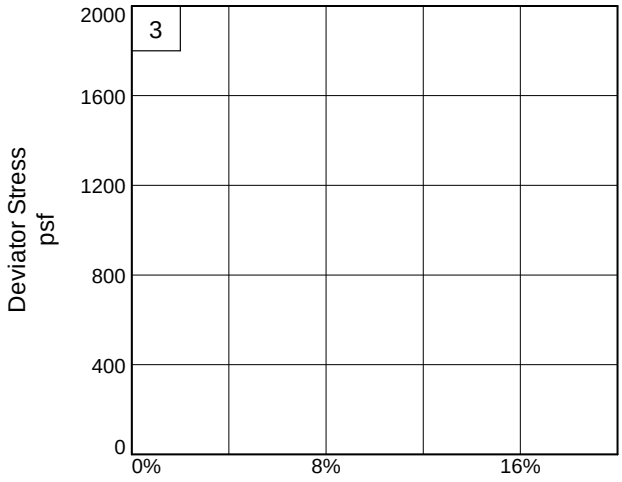
Sample Number: BW-49 T-3

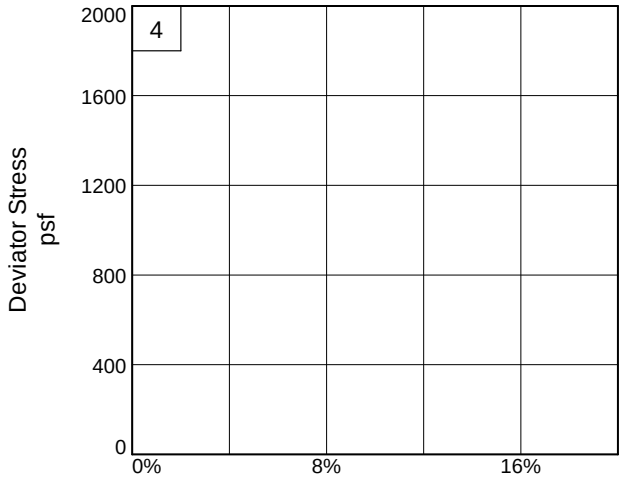
Proj. No.: 1511010228 **Date Sampled:**

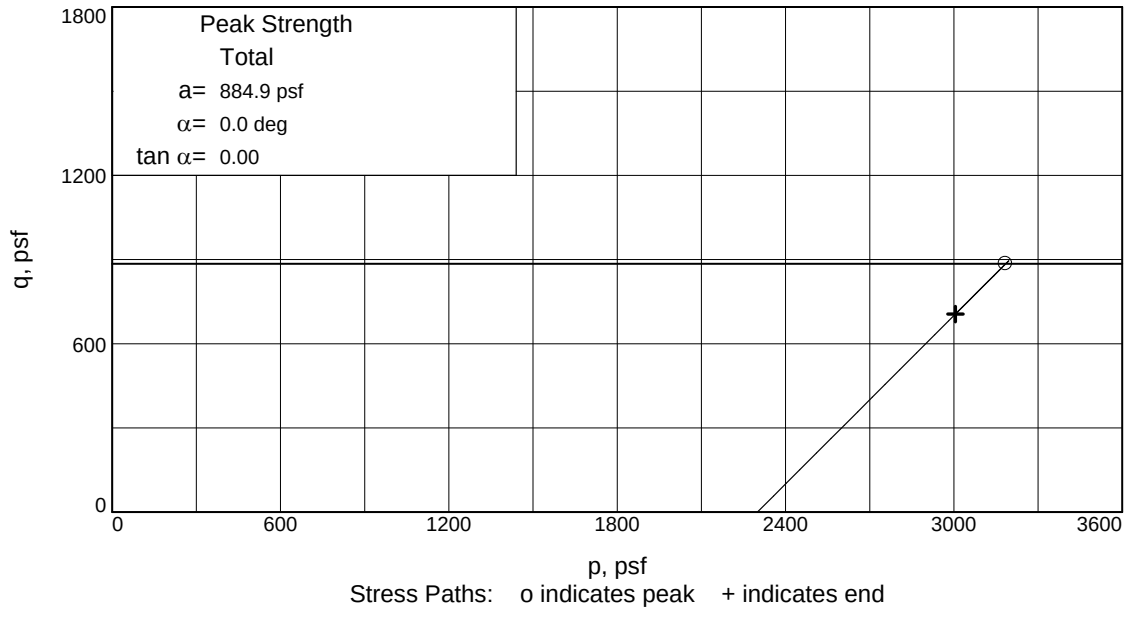
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Mobile, Alabama





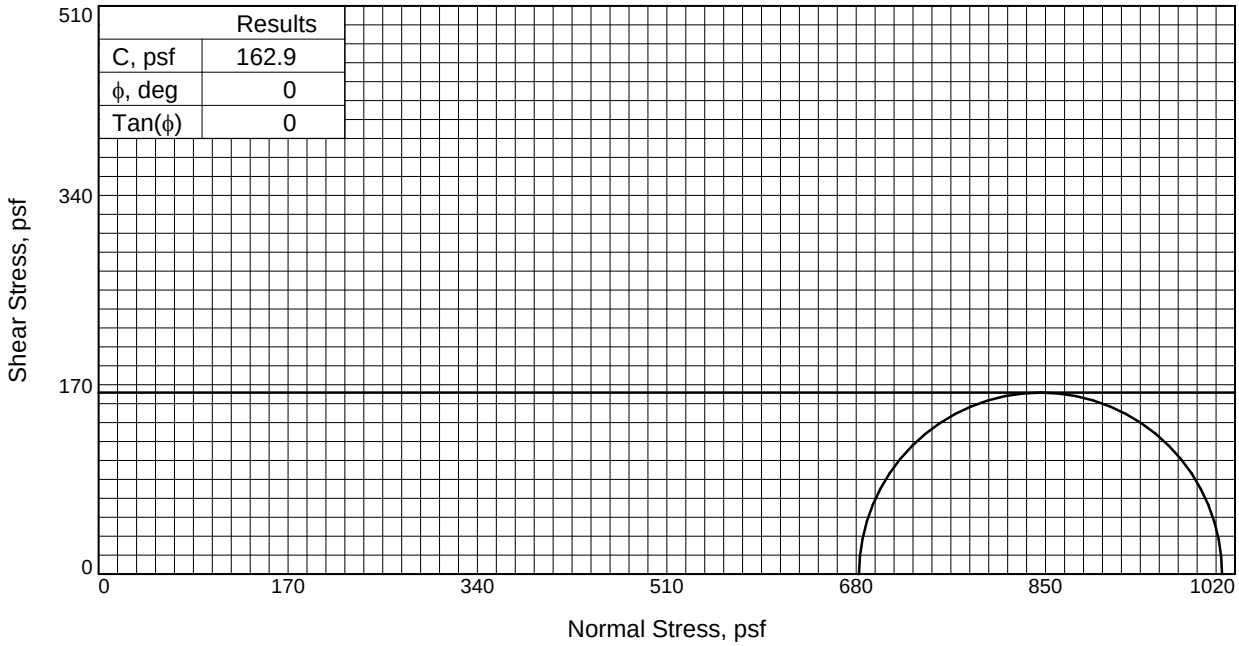


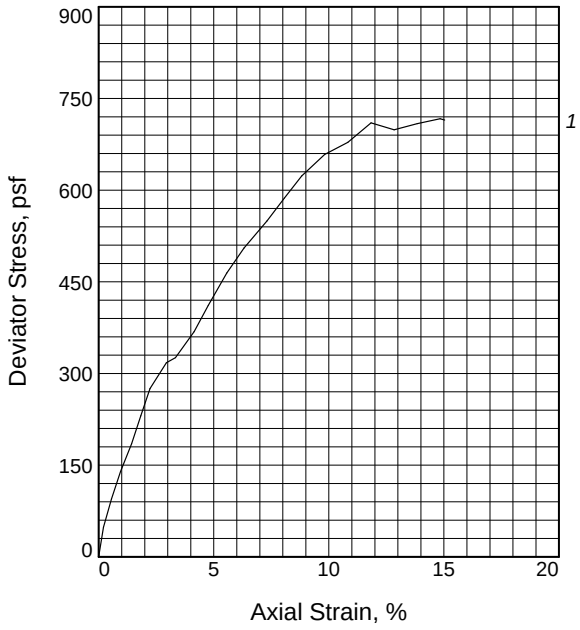




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 48.5'-50.0' **Sample Number:** BW-49 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	33.6
	Dry Density, pcf	90.2
	Saturation, %	106.4
	Void Ratio	0.8410
	Diameter, in.	2.808
	Height, in.	5.406
At Test	Water Content, %	35.2
	Dry Density, pcf	90.2
	Saturation, %	111.3
	Void Ratio	0.8410
	Diameter, in.	2.808
	Height, in.	5.406
Strain at peak, %		3.3
Back Pressure, psf		0.0
Cell Pressure, psf		682.6
Fail. Stress, psf		325.8
Strain, %		3.3
Ult. Stress, psf		325.8
Strain, %		3.3
σ_1 Failure, psf		1008.4
σ_3 Failure, psf		682.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT with SAND(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

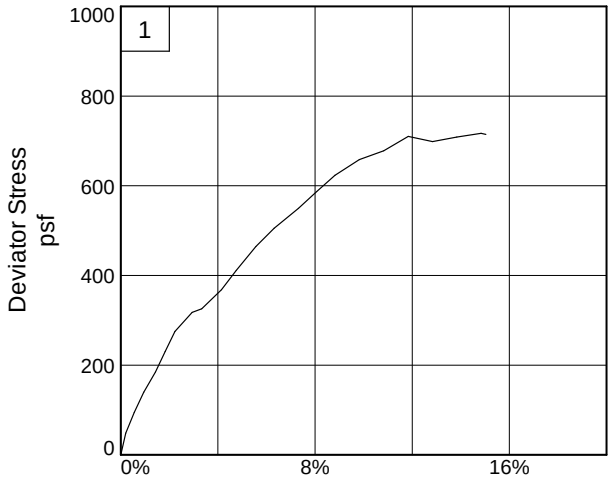
Project: Mobile River Bridge

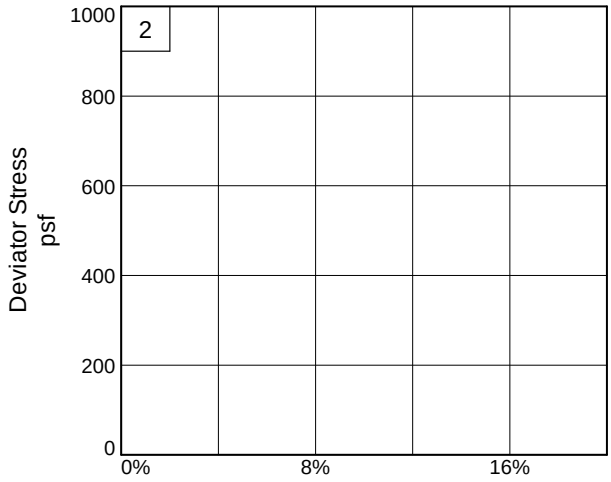
Source of Sample: Lab #7817 **Depth:** 13.5'-15.5'

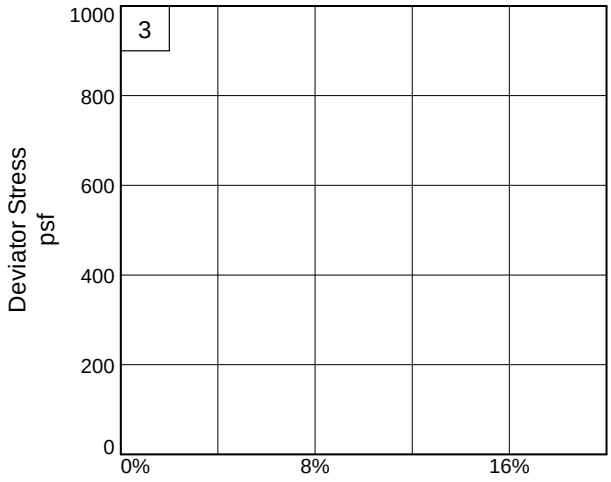
Sample Number: BW-50 T-1

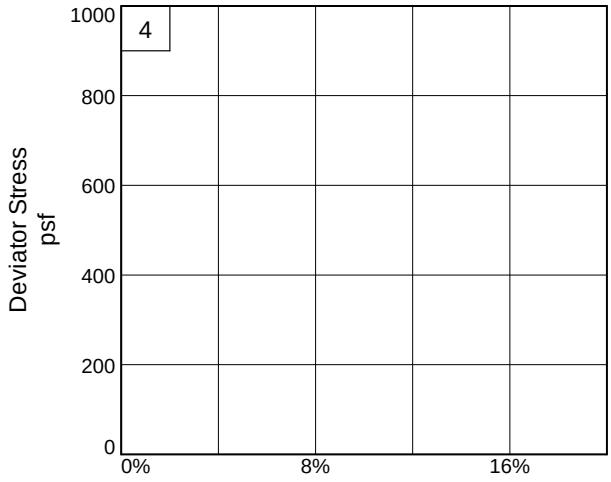
Proj. No.: 1511010228 **Date Sampled:**

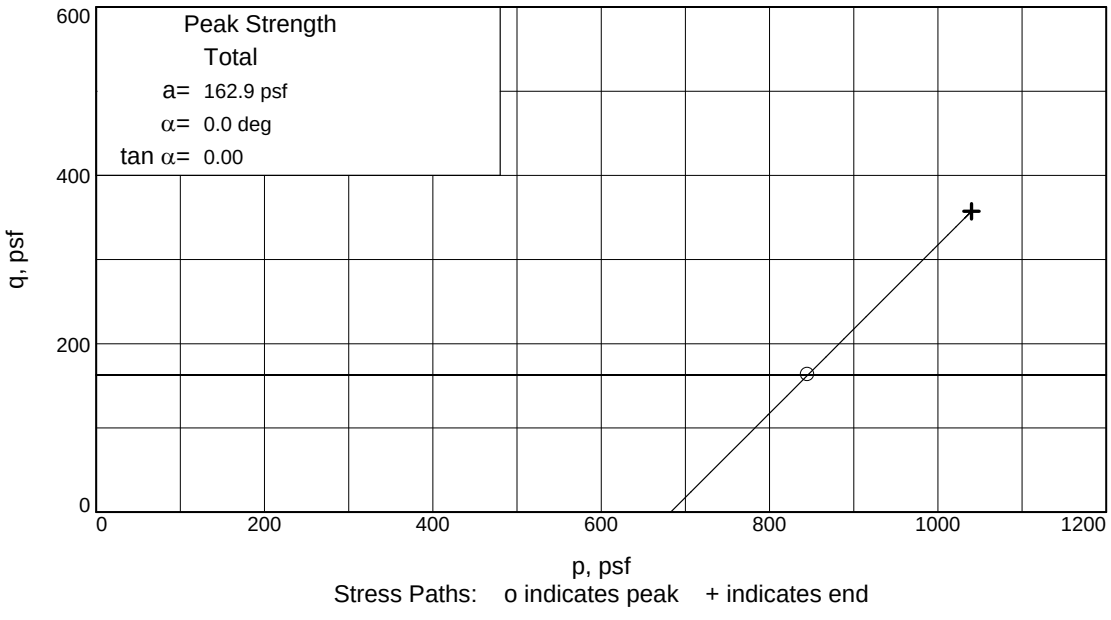
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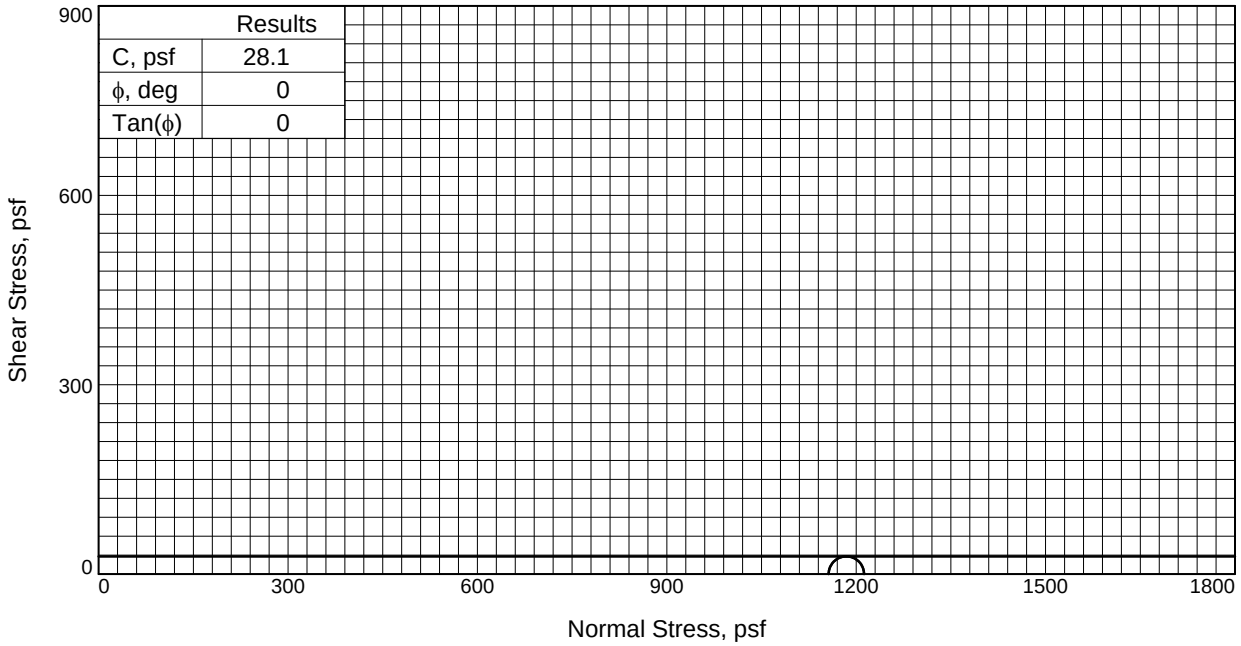


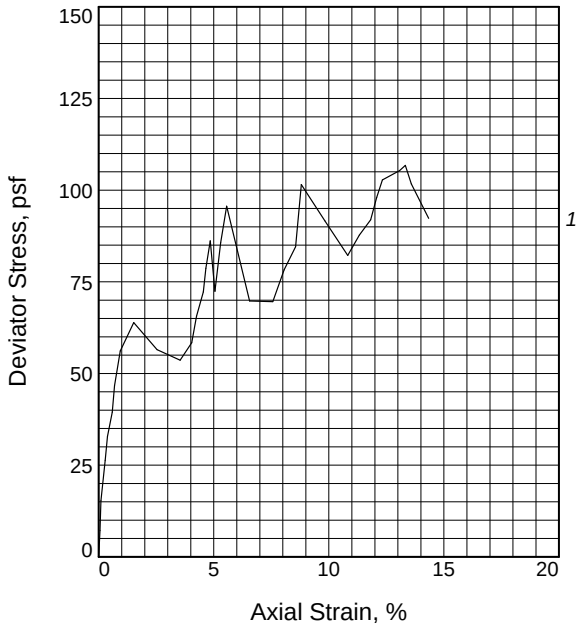


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 13.5'-15.5' **Sample Number:** BW-50 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	57.2
	Dry Density, pcf	68.2
	Saturation, %	105.9
	Void Ratio	1.4361
	Diameter, in.	2.823
	Height, in.	5.251
At Test	Water Content, %	57.5
	Dry Density, pcf	68.2
	Saturation, %	106.4
	Void Ratio	1.4361
	Diameter, in.	2.823
	Height, in.	5.251
Strain at peak, %		0.9
Back Pressure, psf		0.0
Cell Pressure, psf		1156.3
Fail. Stress, psf		56.1
Strain, %		0.9
Ult. Stress, psf		56.1
Strain, %		0.9
σ_1 Failure, psf		1212.4
σ_3 Failure, psf		1156.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(44))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

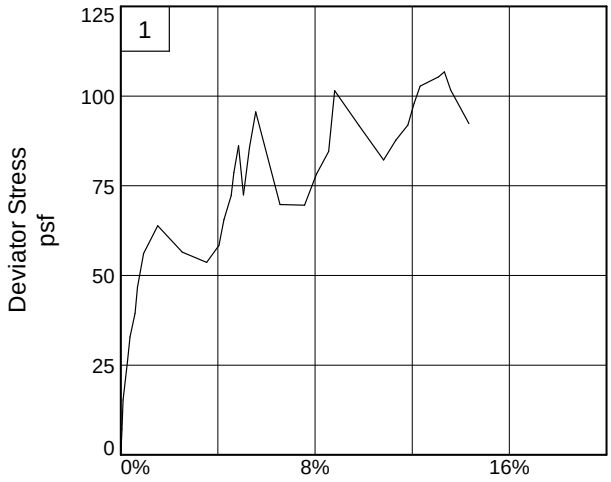
Project: Mobile River Bridge

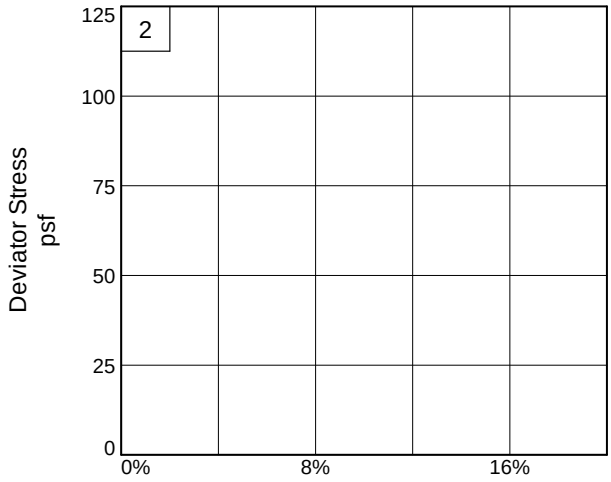
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5'

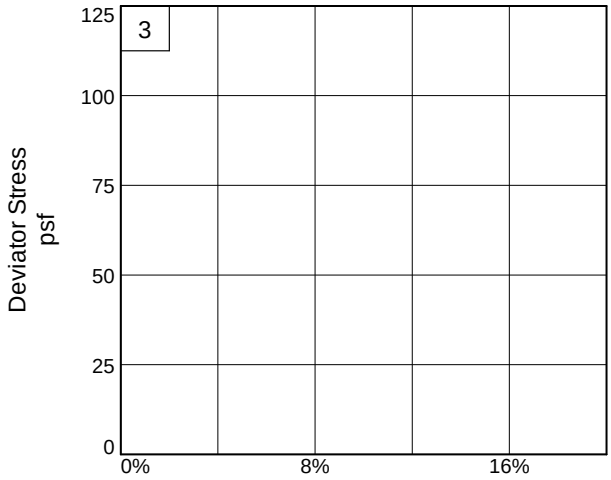
Sample Number: BW-50 T-2

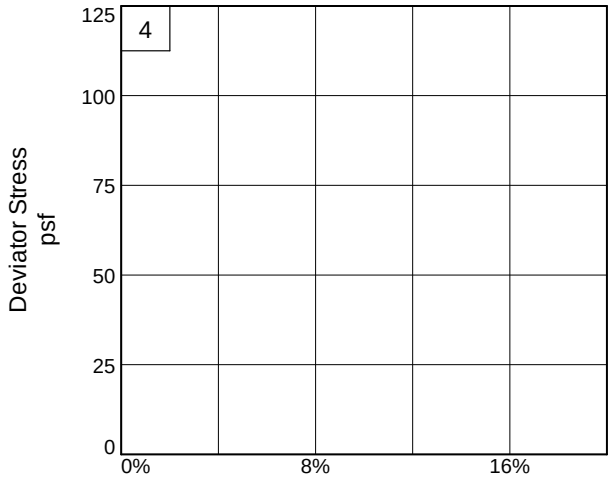
Proj. No.: 1511010228 **Date Sampled:**

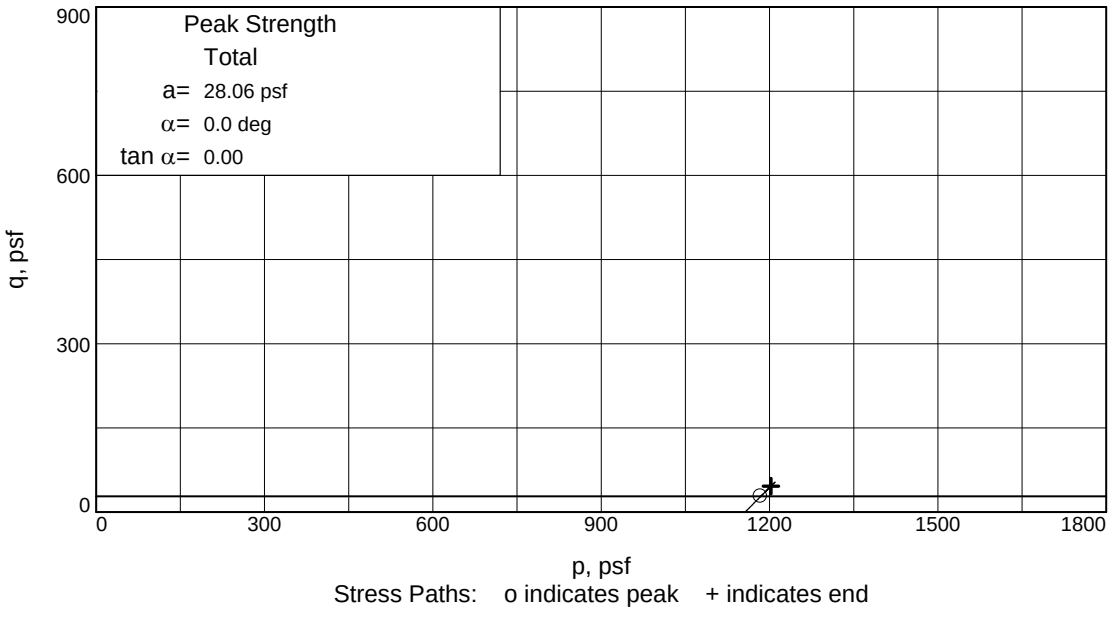
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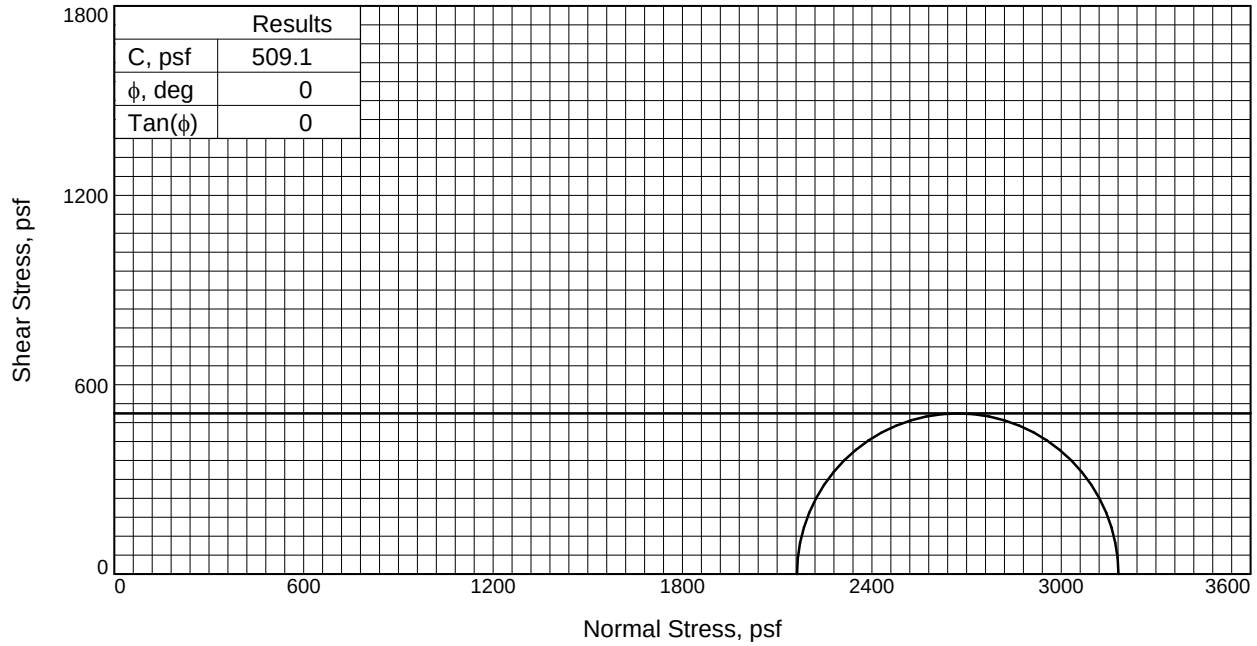


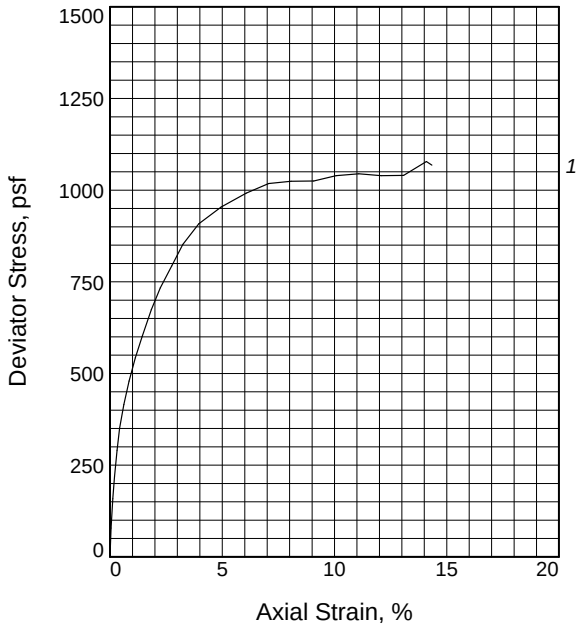




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5' **Sample Number:** BW-50 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.5
	Dry Density, pcf	83.1
	Saturation, %	102.6
	Void Ratio	0.9972
	Diameter, in.	2.816
	Height, in.	5.478
At Test	Water Content, %	38.9
	Dry Density, pcf	83.1
	Saturation, %	103.7
	Void Ratio	0.9972
	Diameter, in.	2.816
	Height, in.	5.478
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		2162.9
Fail. Stress, psf		1018.2
Strain, %		7.1
Ult. Stress, psf		1018.2
Strain, %		7.1
σ_1 Failure, psf		3181.1
σ_3 Failure, psf		2162.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(20))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

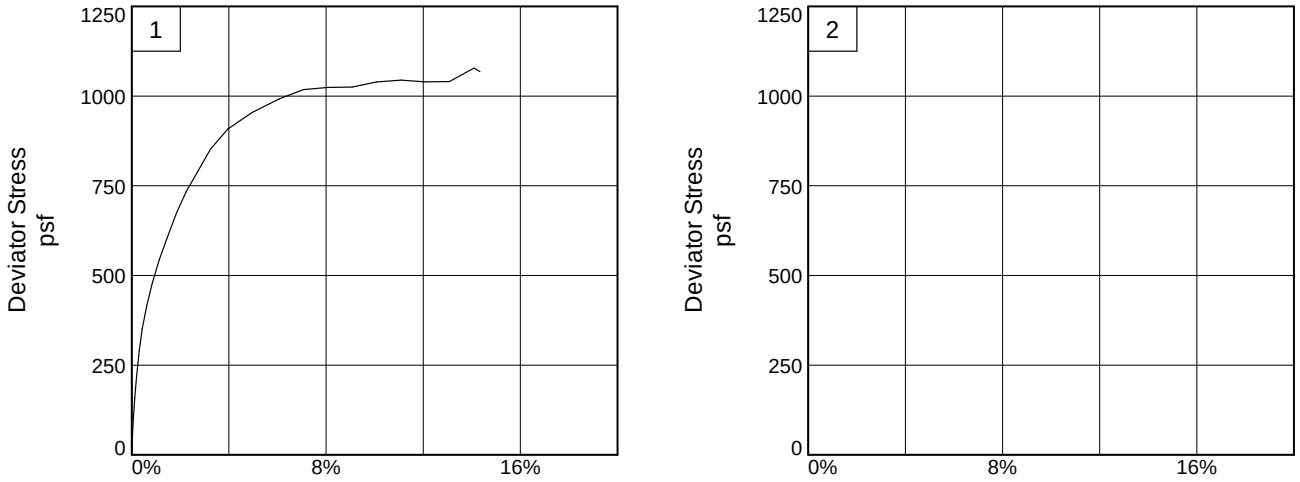
Project: Mobile River Bridge

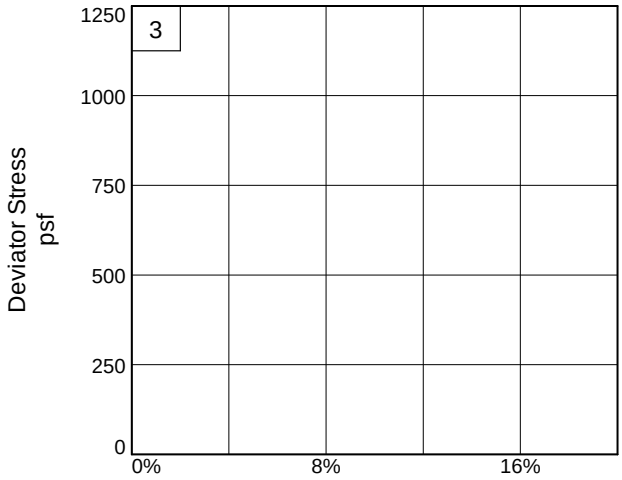
Source of Sample: Lab #7817 **Depth:** 43.5'-45.5'

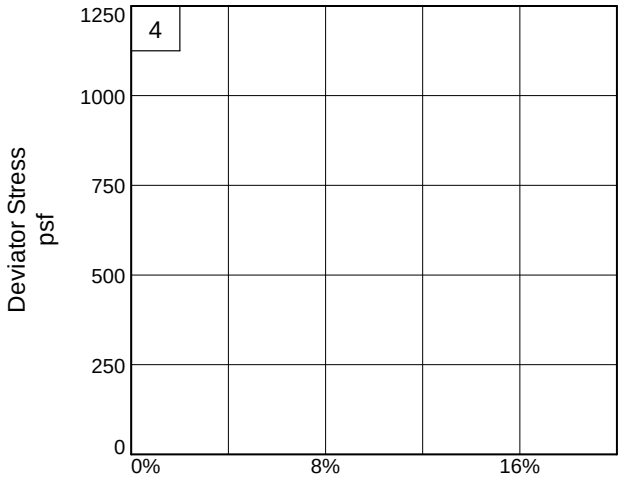
Sample Number: BW-50 T-4

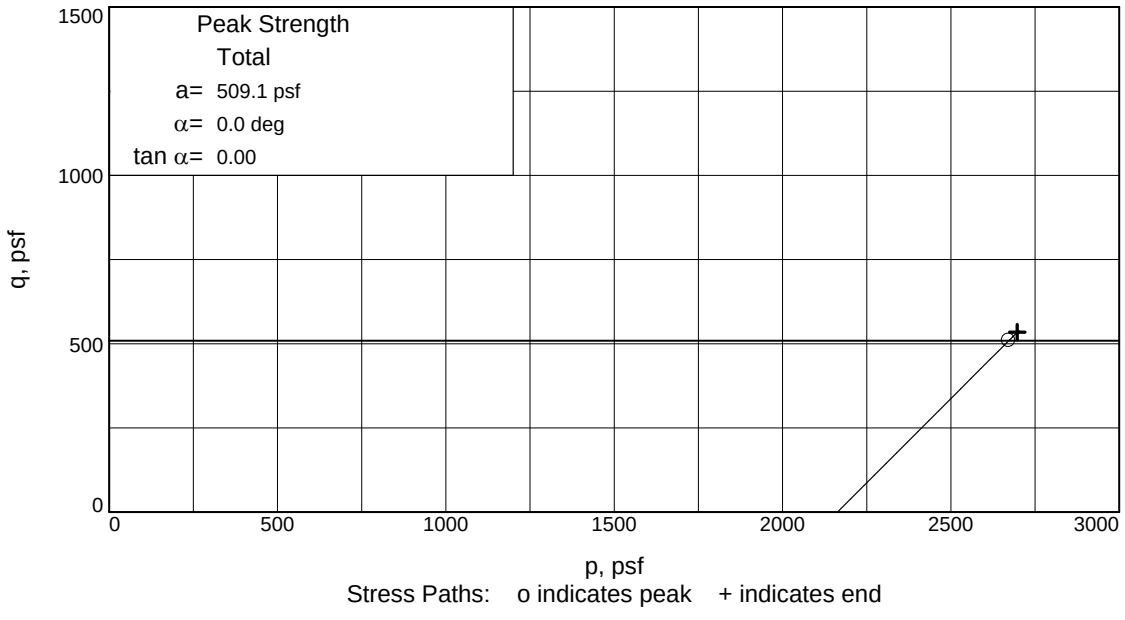
Proj. No.: 1511010228 **Date Sampled:**

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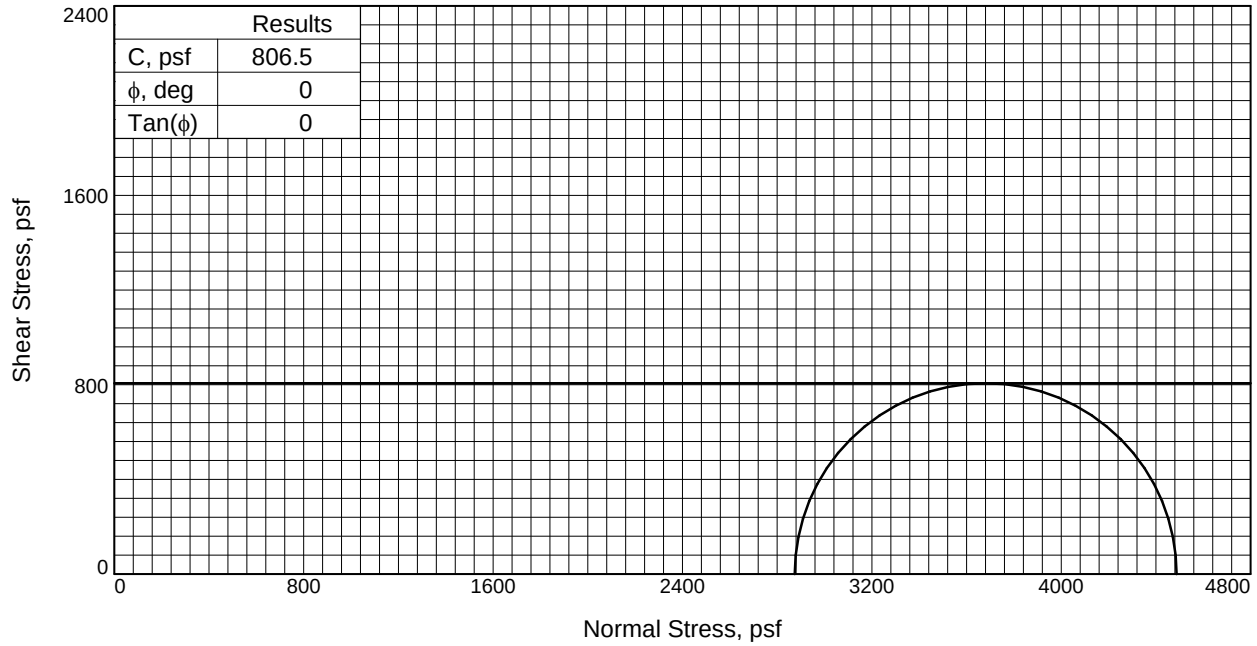
Client: ALDOT

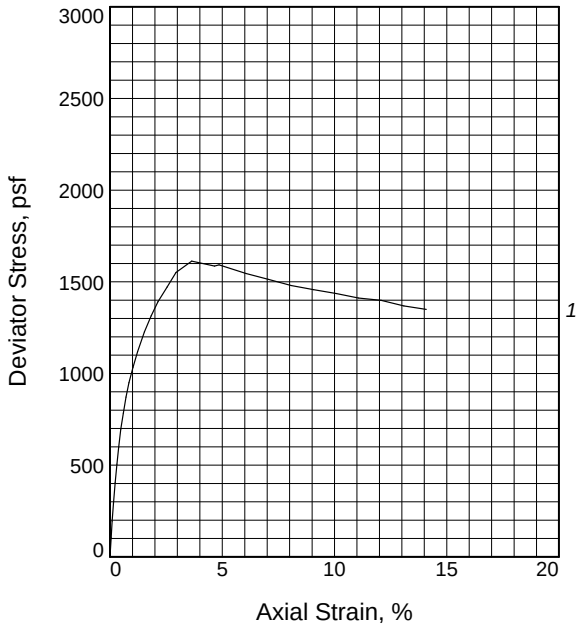
Project: Mobile River Bridge

Source of Sample: Lab #7817 **Depth:** 43.5'-45.5' **Sample Number:** BW-50 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	85.8
	Dry Density, pcf	50.4
	Saturation, %	99.5
	Void Ratio	2.2959
	Diameter, in.	2.835
	Height, in.	5.194
At Test	Water Content, %	81.5
	Dry Density, pcf	50.4
	Saturation, %	94.5
	Void Ratio	2.2959
	Diameter, in.	2.835
	Height, in.	5.194
Strain at peak, %		3.6
Back Pressure, psf		0.0
Cell Pressure, psf		2874.2
Fail. Stress, psf		1612.9
Strain, %		3.6
Ult. Stress, psf		1612.9
Strain, %		3.6
σ_1 Failure, psf		4487.2
σ_3 Failure, psf		2874.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(54))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

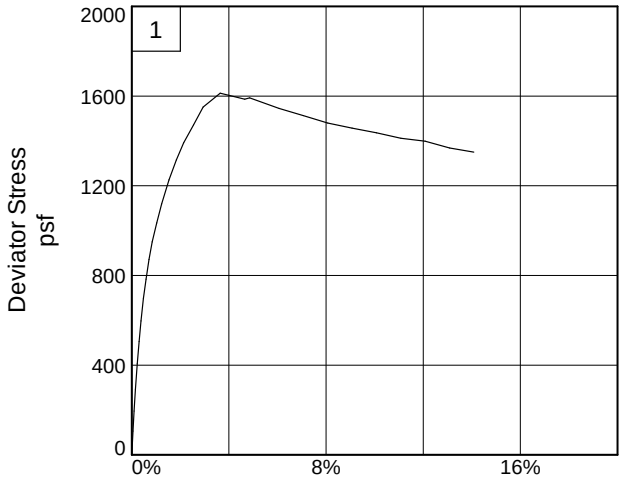
Project: Mobile River Bridge

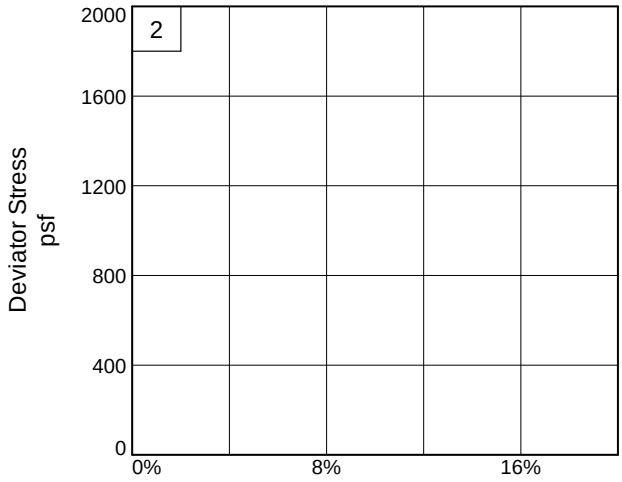
Source of Sample: Lab #7817 **Depth:** 53.5'-55.5'

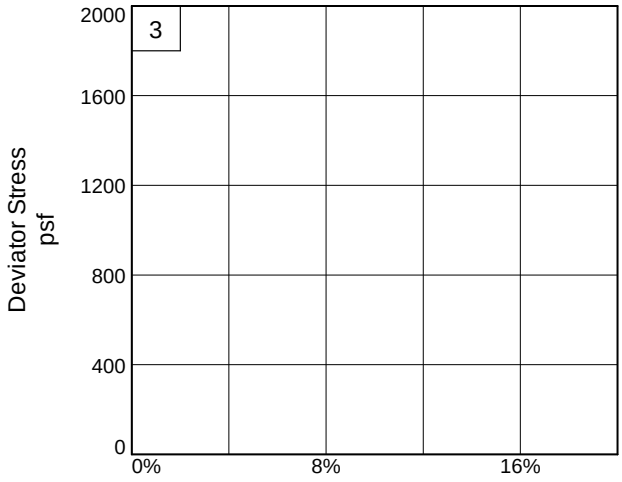
Sample Number: BW-50 T-5

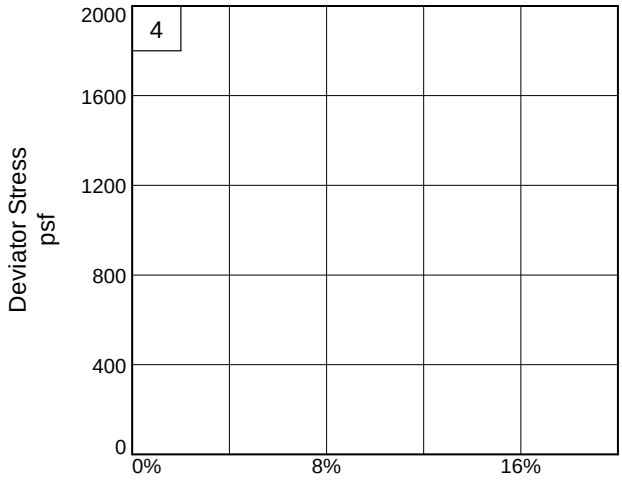
Proj. No.: 1511010228 **Date Sampled:**

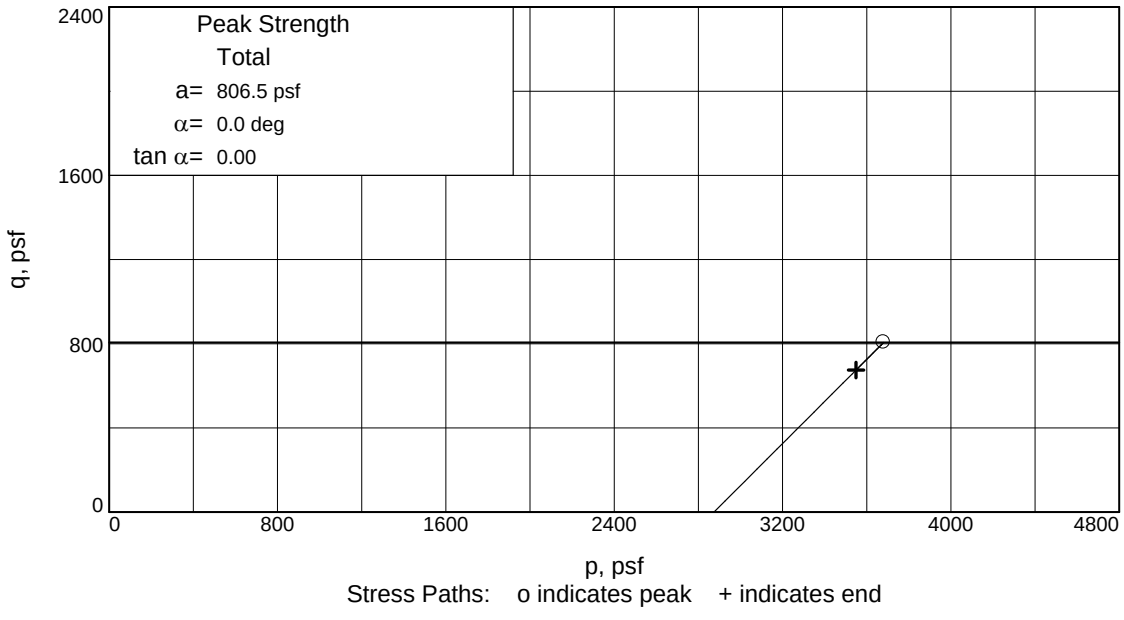
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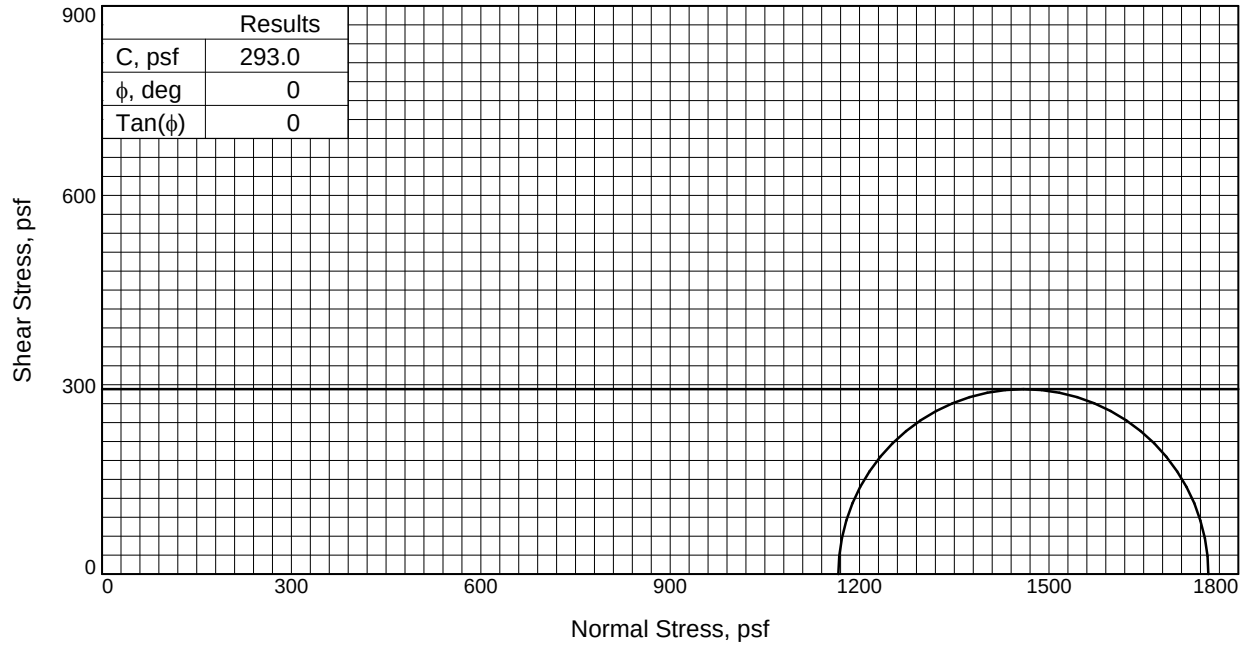


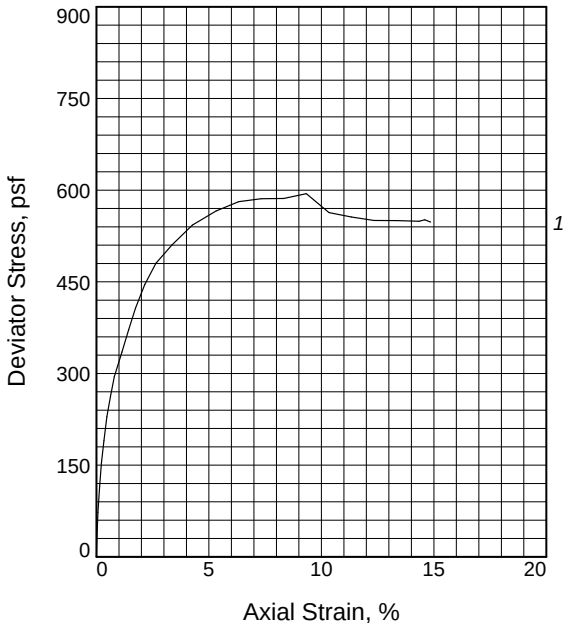




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 53.5'-55.5' **Sample Number:** BW-50 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	50.3
	Dry Density, pcf	72.2
	Saturation, %	103.1
	Void Ratio	1.2987
	Diameter, in.	2.792
	Height, in.	5.443
At Test	Water Content, %	52.1
	Dry Density, pcf	72.2
	Saturation, %	106.7
	Void Ratio	1.2987
	Diameter, in.	2.792
	Height, in.	5.443
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		1166.4
Fail. Stress, psf		586.1
Strain, %		7.3
Ult. Stress, psf		586.1
Strain, %		7.3
σ_1 Failure, psf		1752.5
σ_3 Failure, psf		1166.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(46))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

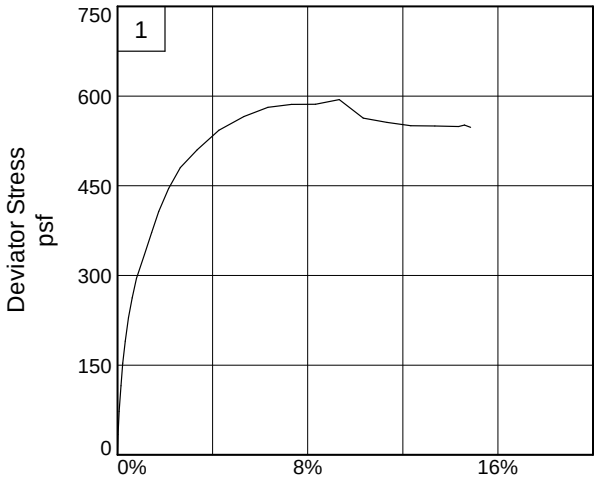
Project: Mobile River Bridge

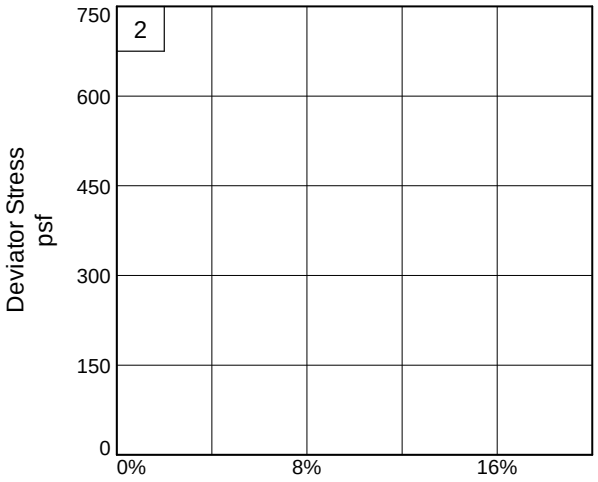
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5'

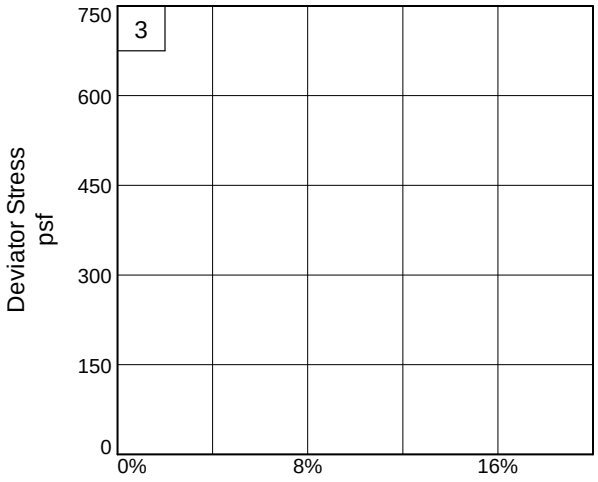
Sample Number: BW-51 T-1

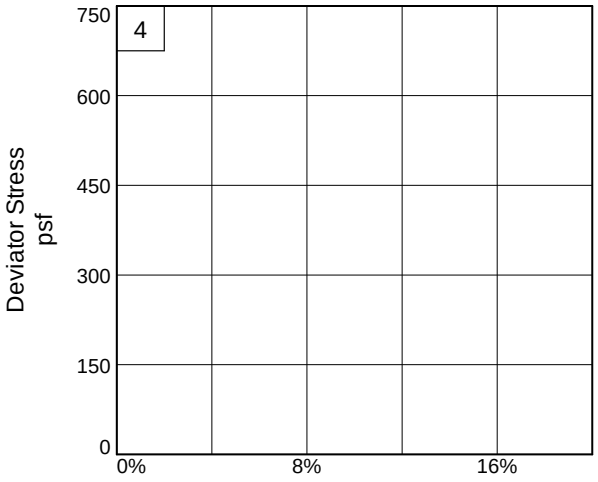
Proj. No.: 1511010228 **Date Sampled:**

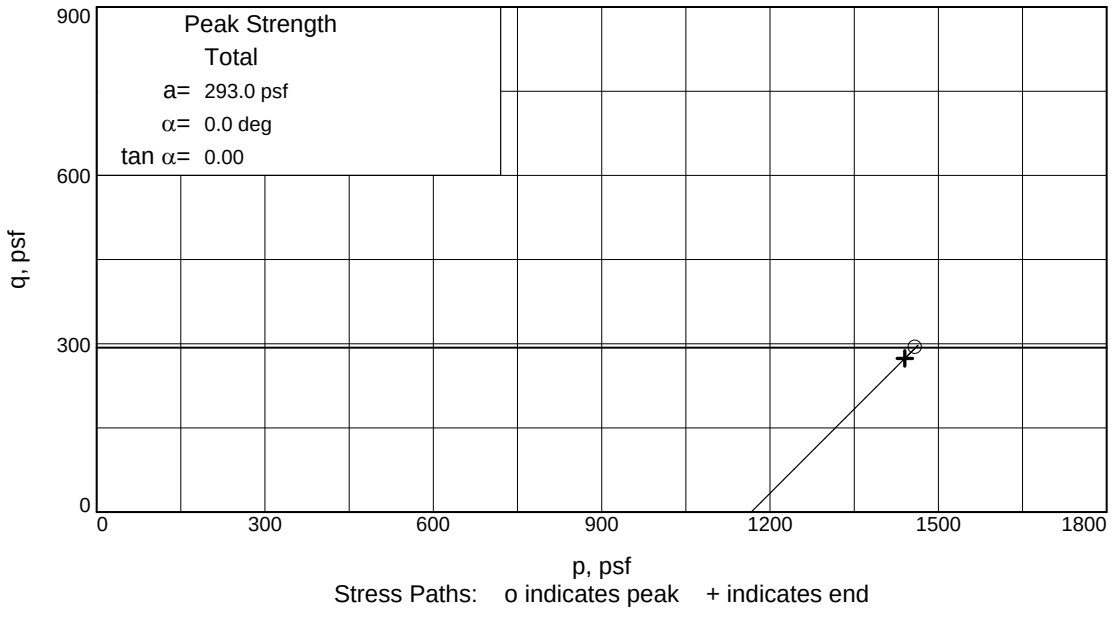
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Thompson Engineering
Mobile, Alabama





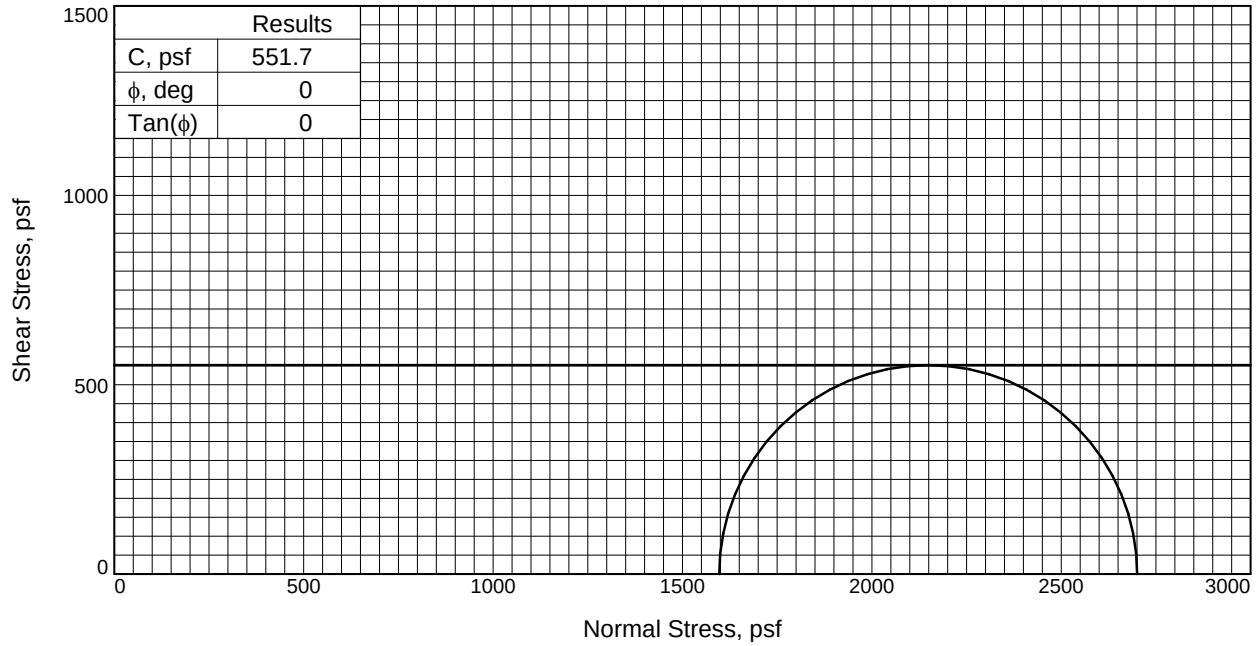


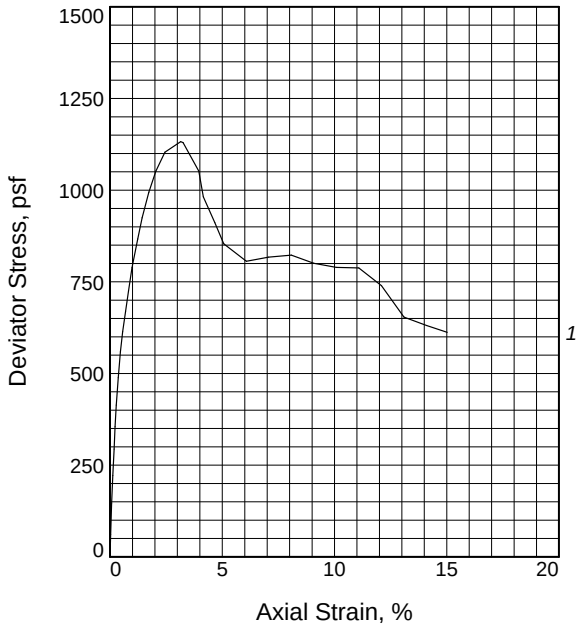




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5' **Sample Number:** BW-51 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	65.8
	Dry Density, pcf	61.1
	Saturation, %	101.8
	Void Ratio	1.7192
	Diameter, in.	2.840
	Height, in.	5.552
At Test	Water Content, %	67.7
	Dry Density, pcf	61.1
	Saturation, %	104.8
	Void Ratio	1.7192
	Diameter, in.	2.840
	Height, in.	5.552
Strain at peak, %		2.4
Back Pressure, psf		0.0
Cell Pressure, psf		1597.0
Fail. Stress, psf		1103.4
Strain, %		2.4
Ult. Stress, psf		1103.4
Strain, %		2.4
σ_1 Failure, psf		2700.3
σ_3 Failure, psf		1597.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(71))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

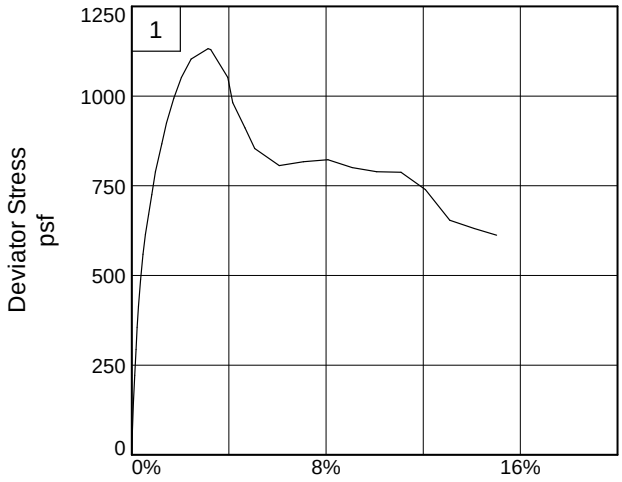
Project: Mobile River Bridge

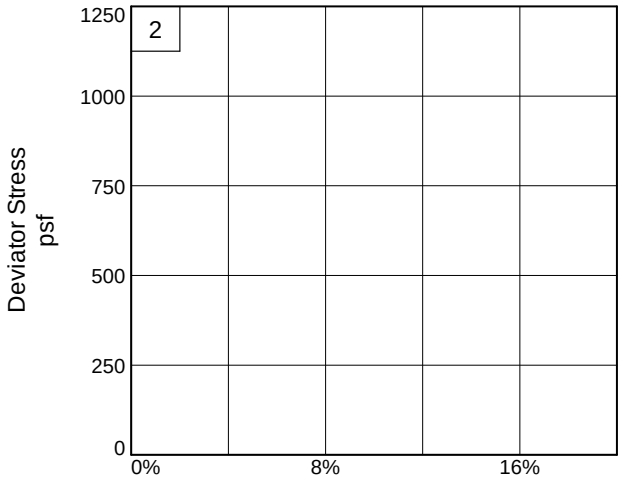
Source of Sample: Lab #7817 **Depth:** 33.5'-35.5'

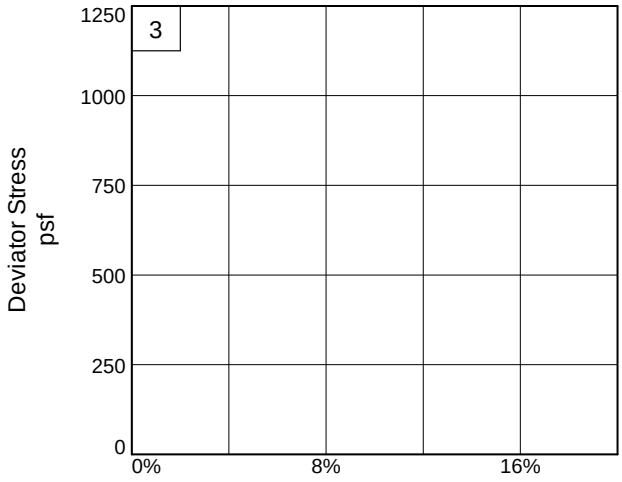
Sample Number: BW-51 T-2

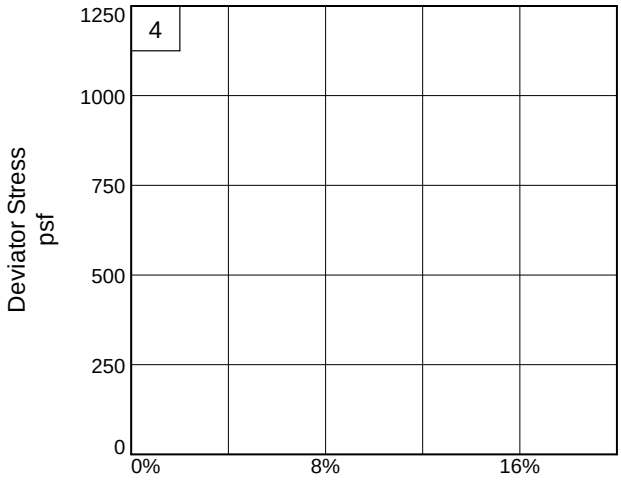
Proj. No.: 1511010228 **Date Sampled:**

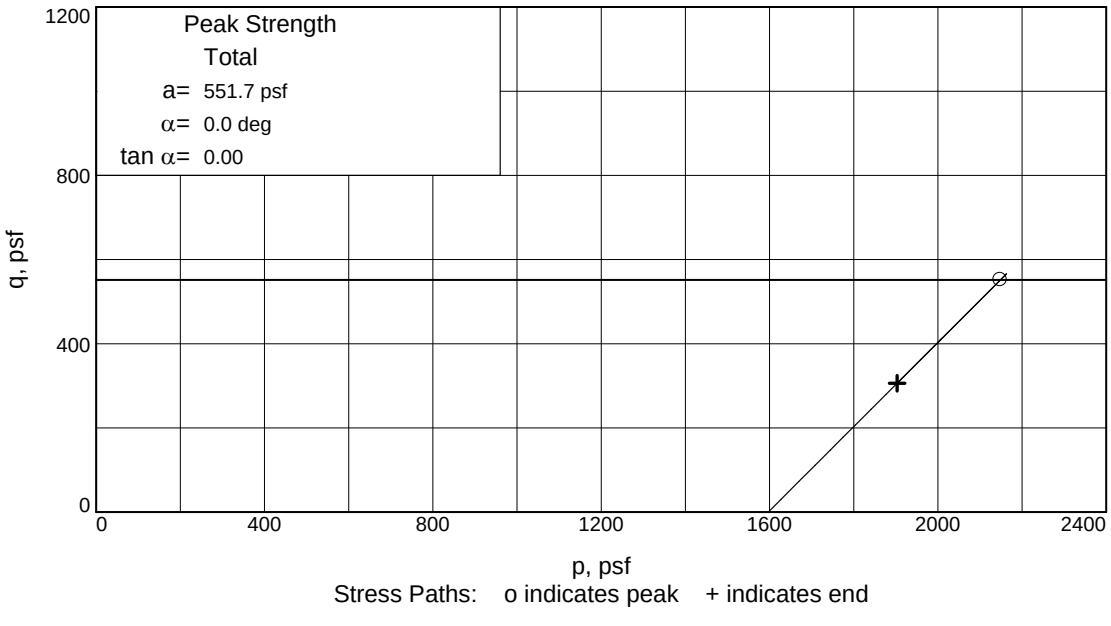
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Thompson Engineering
Mobile, Alabama





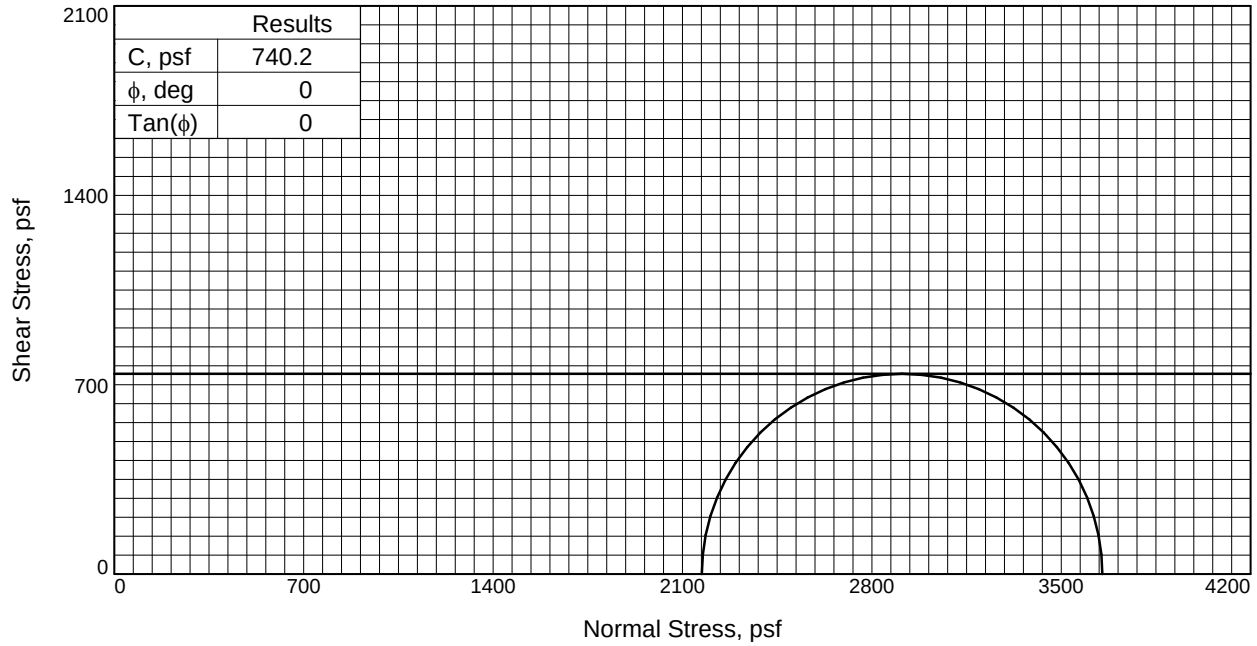


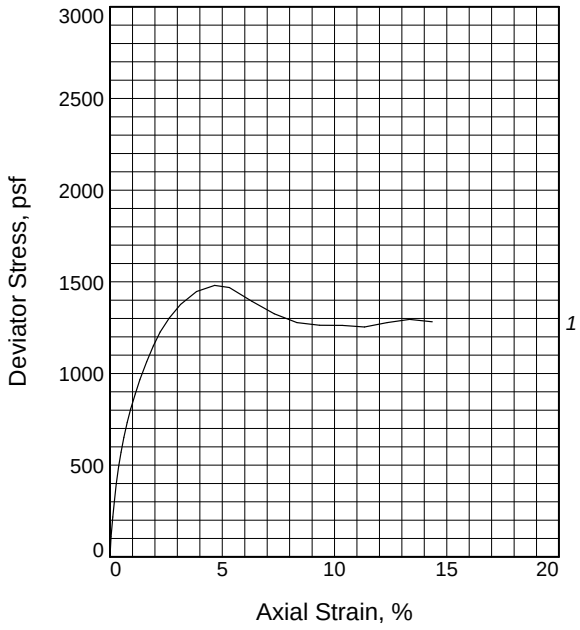




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 33.5'-35.5' **Sample Number:** BW-51 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.2
	Dry Density, pcf	64.9
	Saturation, %	99.3
	Void Ratio	1.5589
	Diameter, in.	2.814
	Height, in.	5.519
At Test	Water Content, %	61.1
	Dry Density, pcf	64.9
	Saturation, %	104.2
	Void Ratio	1.5589
	Diameter, in.	2.814
	Height, in.	5.519
Strain at peak, %		4.7
Back Pressure, psf		0.0
Cell Pressure, psf		2171.5
Fail. Stress, psf		1480.4
Strain, %		4.7
Ult. Stress, psf		1480.4
Strain, %		4.7
σ_1 Failure, psf		3651.9
σ_3 Failure, psf		2171.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(32))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

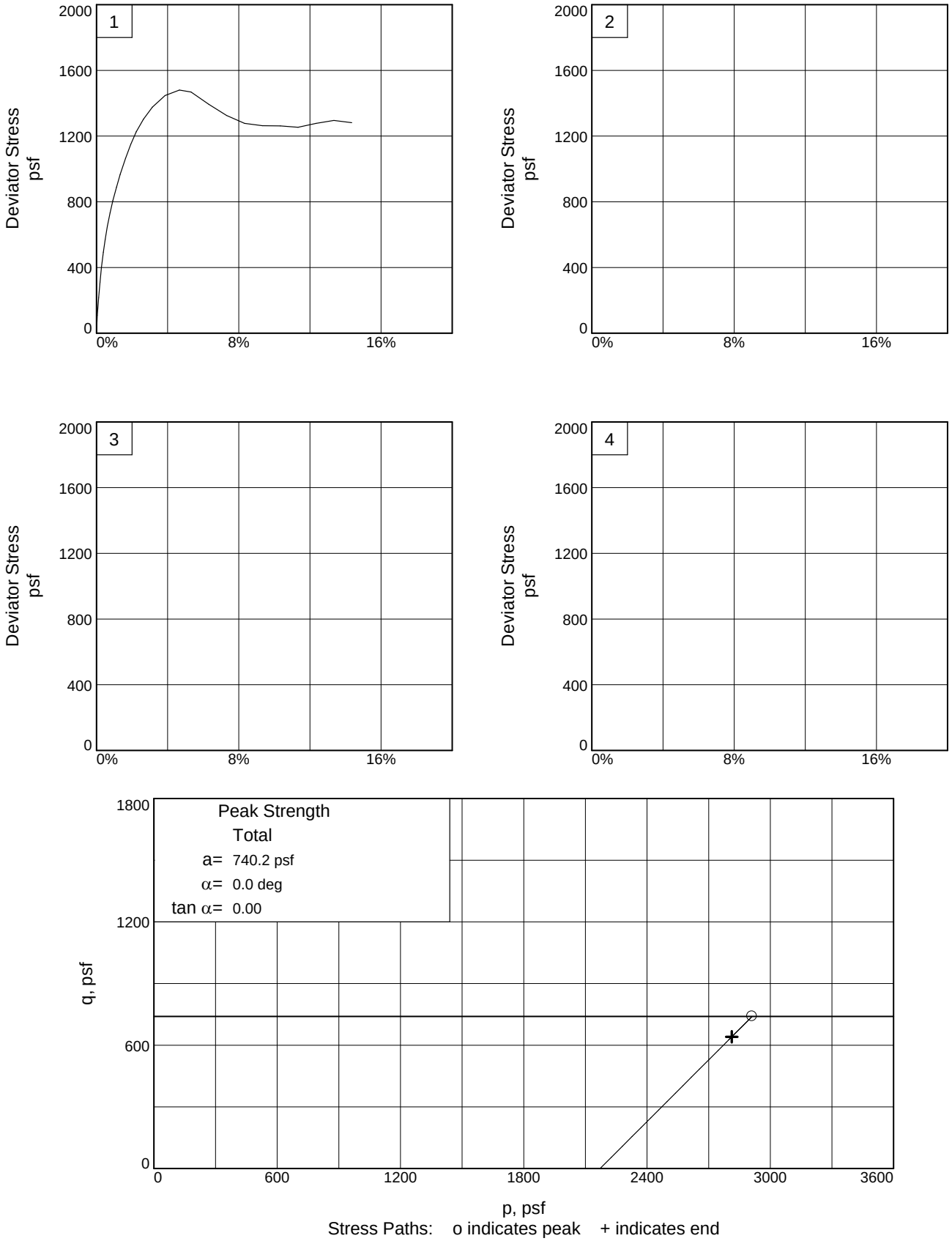
Project: Mobile River Bridge

Source of Sample: Lab #7817 **Depth:** 43.5'-45.5'

Sample Number: BW-51 T-3

Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



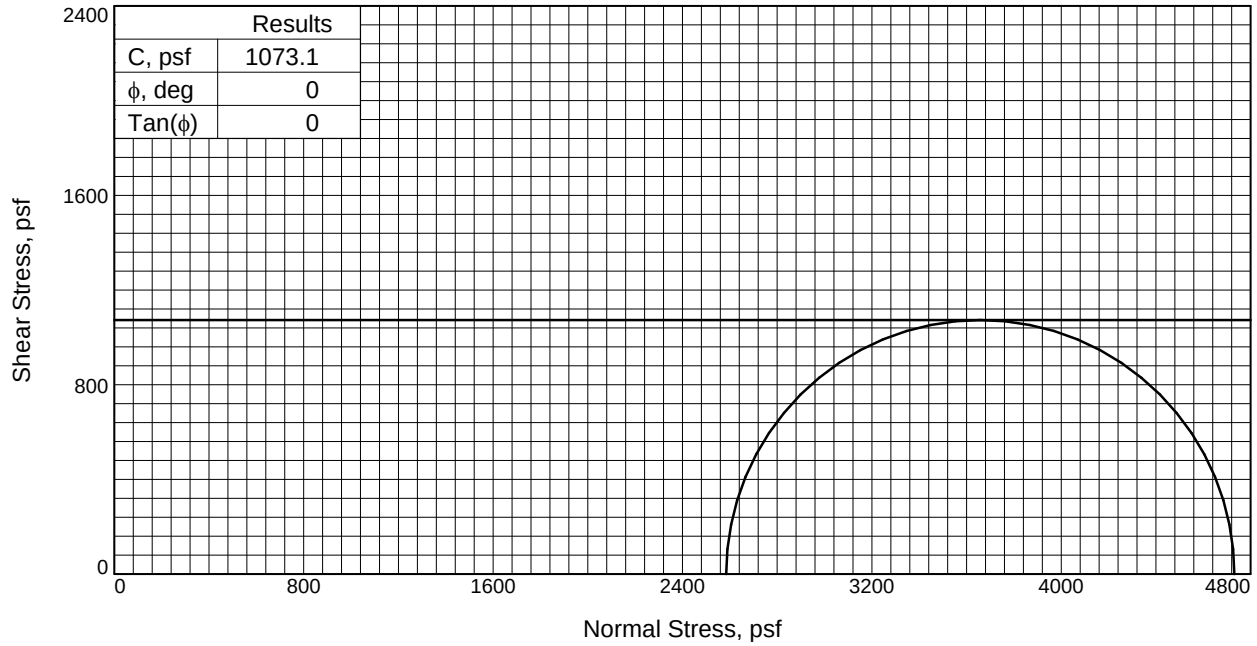
Client: ALDOT

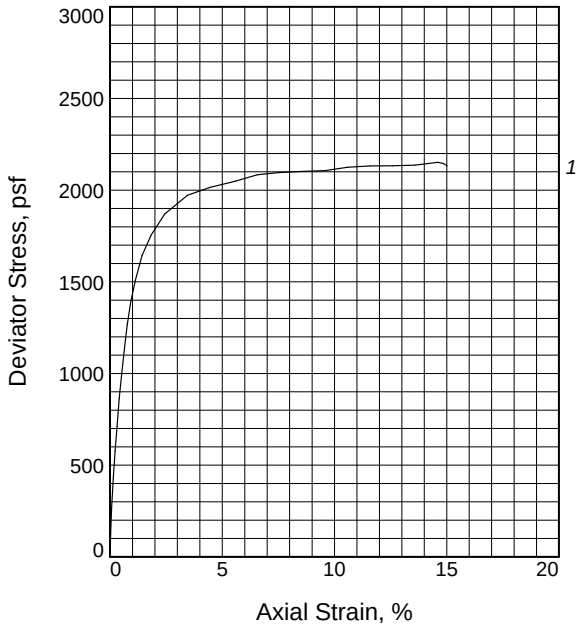
Project: Mobile River Bridge

Source of Sample: Lab #7817 **Depth:** 43.5'-45.5' **Sample Number:** BW-51 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	30.4
	Dry Density, pcf	93.0
	Saturation, %	102.9
	Void Ratio	0.7848
	Diameter, in.	2.846
	Height, in.	5.499
At Test	Water Content, %	30.5
	Dry Density, pcf	93.0
	Saturation, %	103.5
	Void Ratio	0.7848
	Diameter, in.	2.846
	Height, in.	5.499
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2584.8
Fail. Stress, psf		2146.3
Strain, %		14.8
Ult. Stress, psf		2146.3
Strain, %		14.8
σ_1 Failure, psf		4731.1
σ_3 Failure, psf		2584.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(39))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

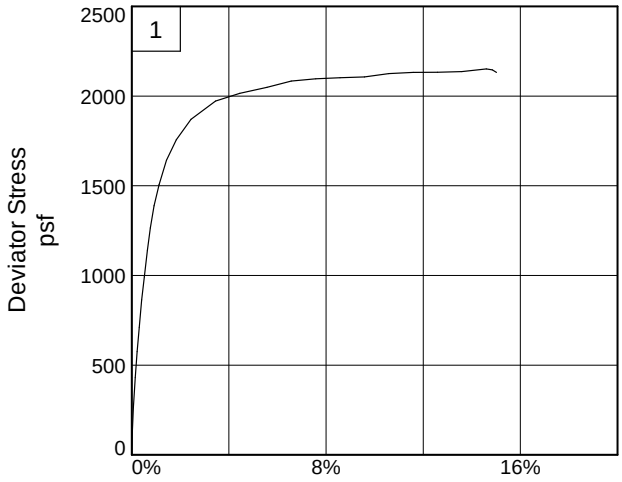
Project: Mobile River Bridge

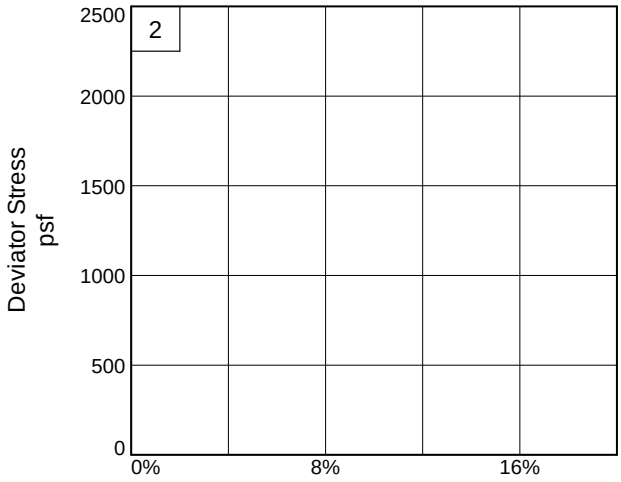
Source of Sample: Lab #7817 **Depth:** 53.5'-55.5'

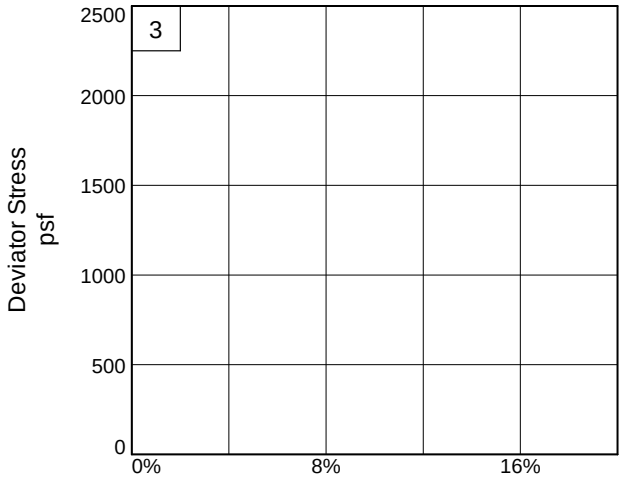
Sample Number: BW-51 T-4

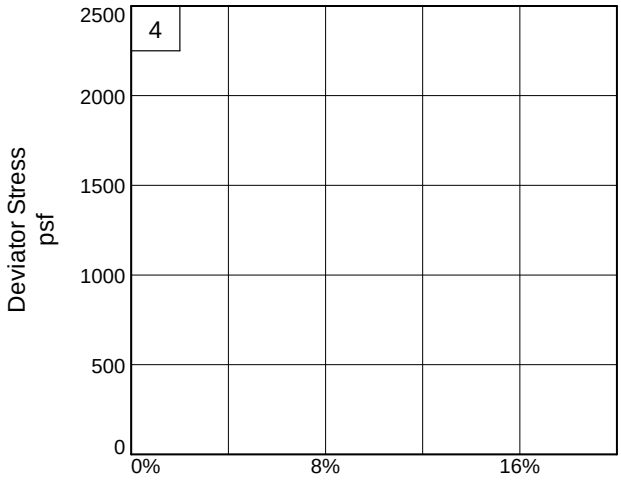
Proj. No.: 1511010228 **Date Sampled:**

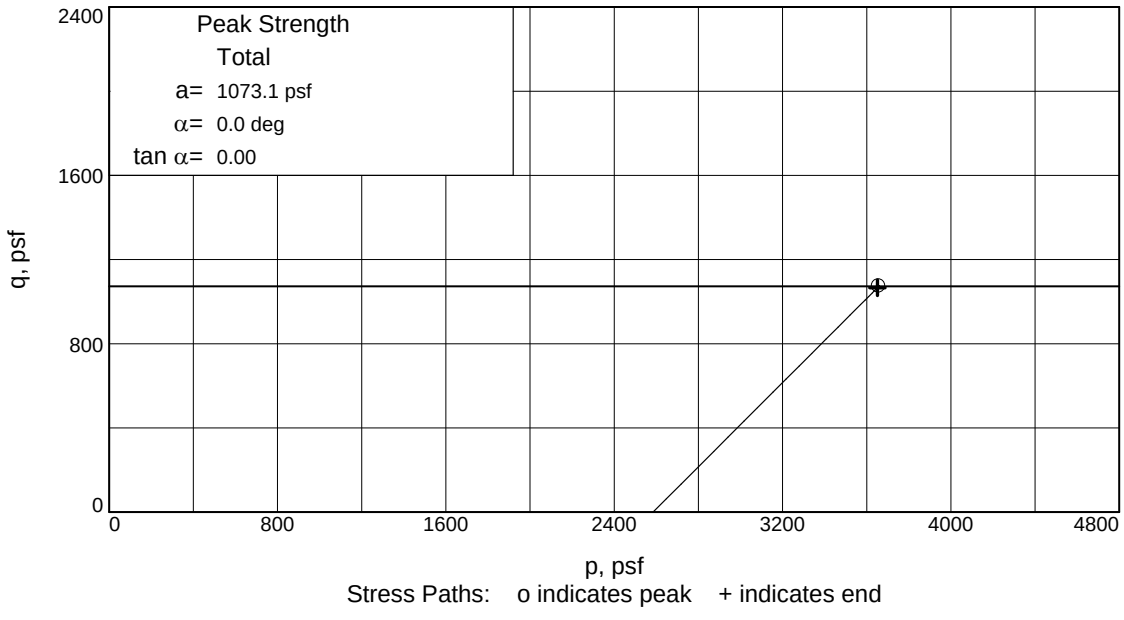
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

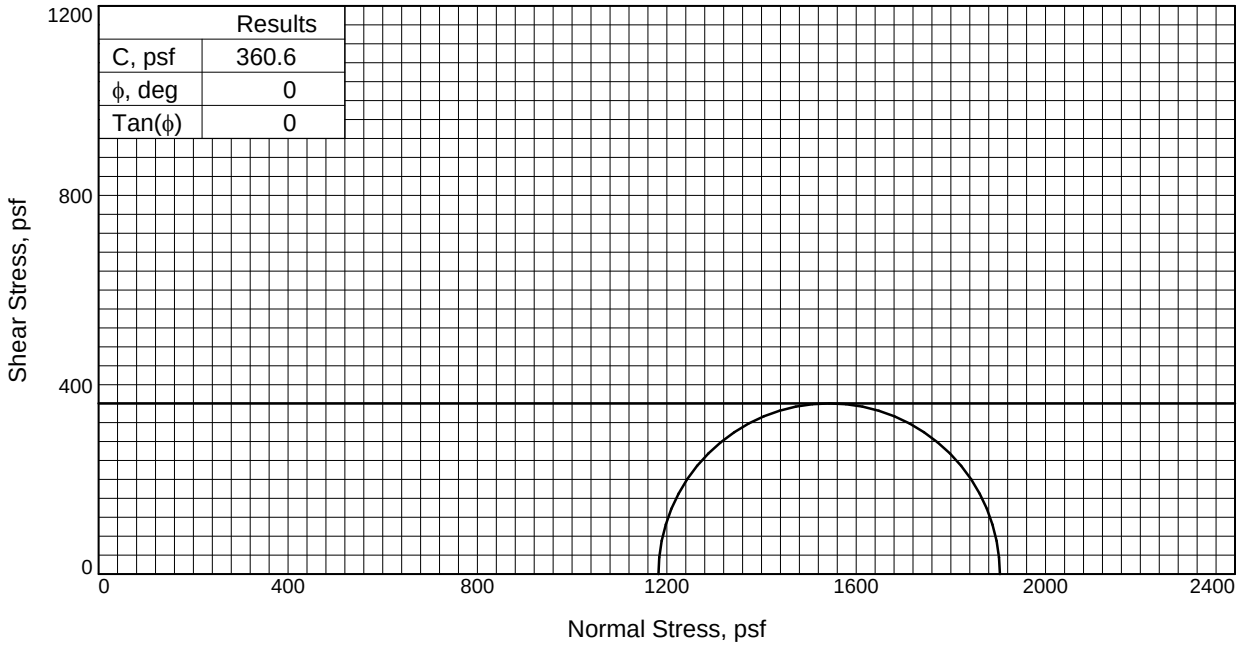
Client: ALDOT

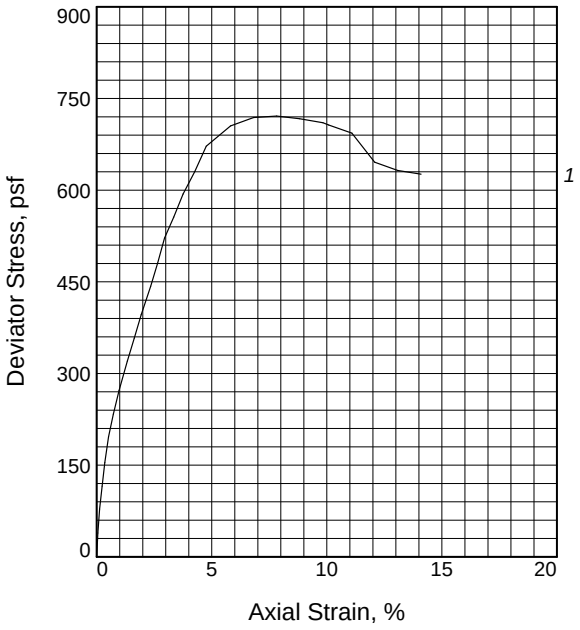
Project: Mobile River Bridge

Source of Sample: Lab #7817 **Depth:** 53.5'-55.5' **Sample Number:** BW-51 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	62.1
	Dry Density, pcf	65.5
	Saturation, %	107.5
	Void Ratio	1.5369
	Diameter, in.	2.797
	Height, in.	5.459
At Test	Water Content, %	58.1
	Dry Density, pcf	65.5
	Saturation, %	100.6
	Void Ratio	1.5369
	Diameter, in.	2.797
	Height, in.	5.459
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		1182.2
Fail. Stress, psf		721.2
Strain, %		7.8
Ult. Stress, psf		721.2
Strain, %		7.8
σ_1 Failure, psf		1903.4
σ_3 Failure, psf		1182.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(63))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

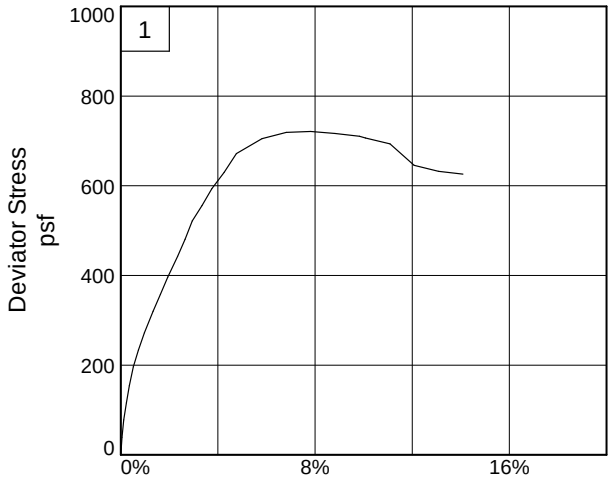
Project: Mobile River Bridge

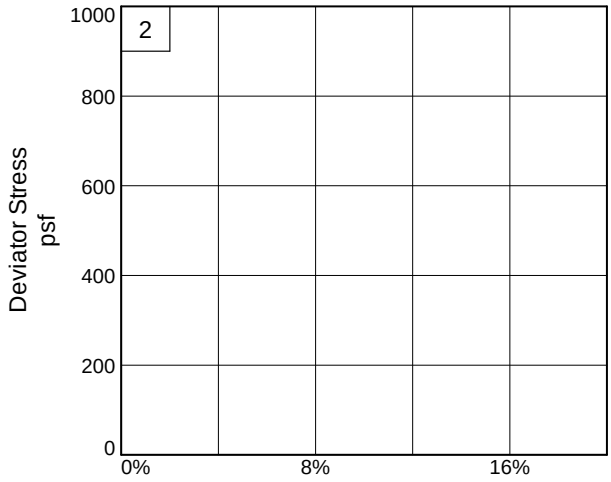
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5'

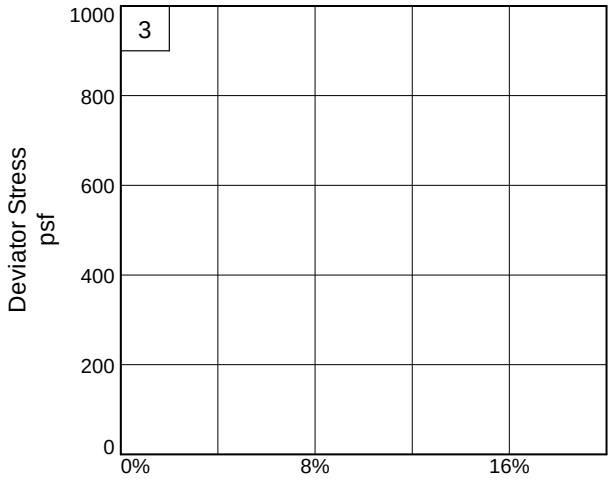
Sample Number: BW-52 T-1

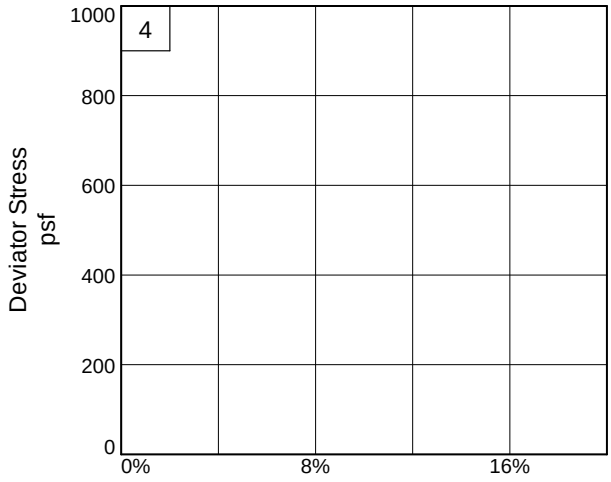
Proj. No.: 1511010228 **Date Sampled:**

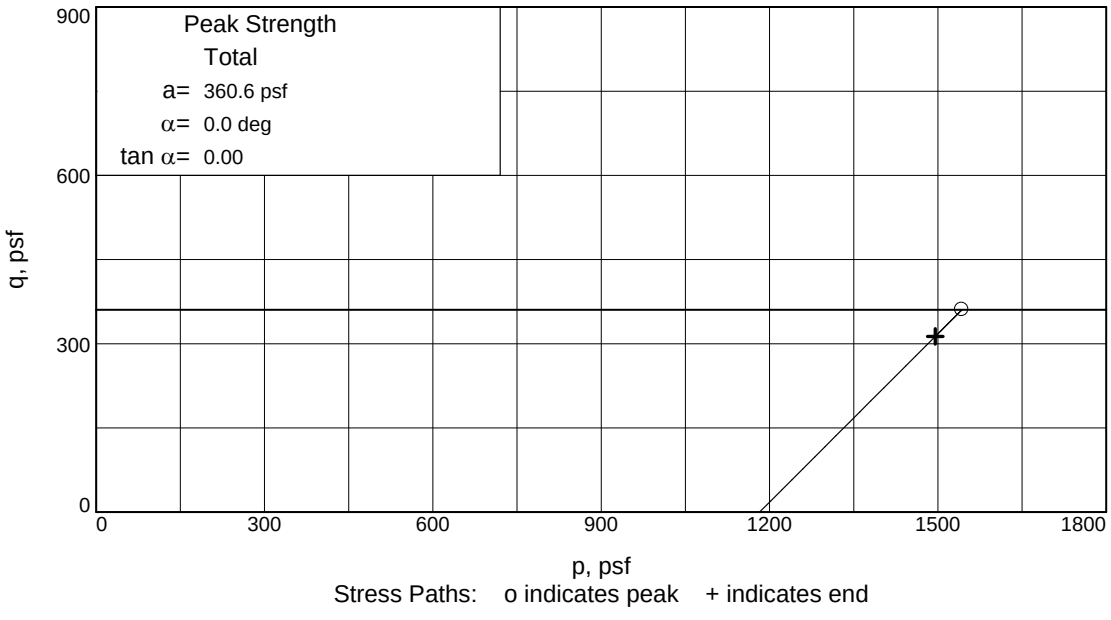
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Mobile, Alabama





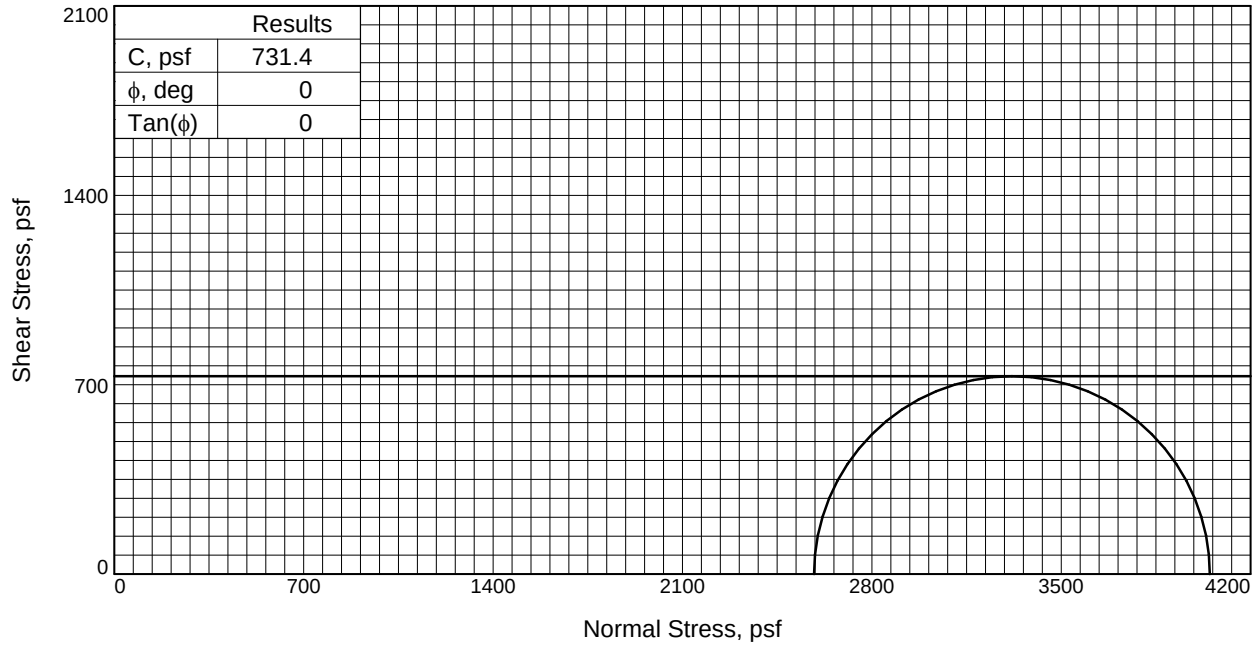


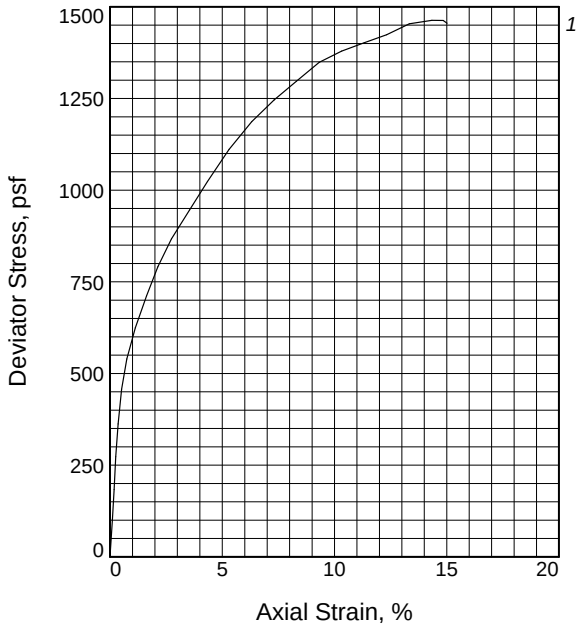




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 23.5'-25.5' **Sample Number:** BW-52 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	31.3
	Dry Density, pcf	91.5
	Saturation, %	102.1
	Void Ratio	0.8144
	Diameter, in.	2.835
	Height, in.	5.575
At Test	Water Content, %	31.3
	Dry Density, pcf	91.5
	Saturation, %	102.3
	Void Ratio	0.8144
	Diameter, in.	2.835
	Height, in.	5.575
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2586.2
Fail. Stress, psf		1462.8
Strain, %		14.8
Ult. Stress, psf		1462.8
Strain, %		14.8
σ_1 Failure, psf		4049.1
σ_3 Failure, psf		2586.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(28))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

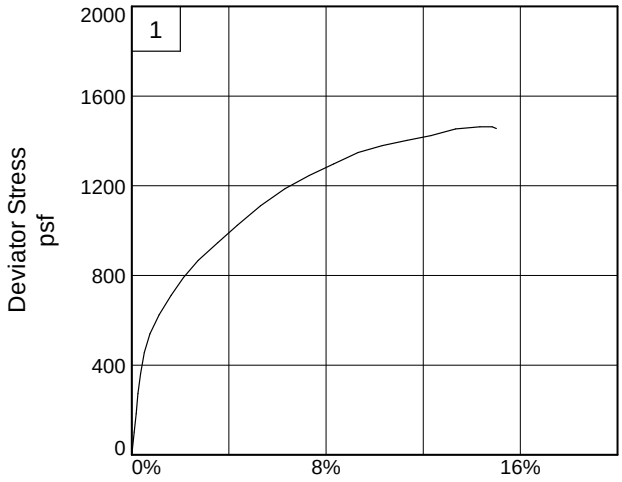
Project: Mobile River Bridge

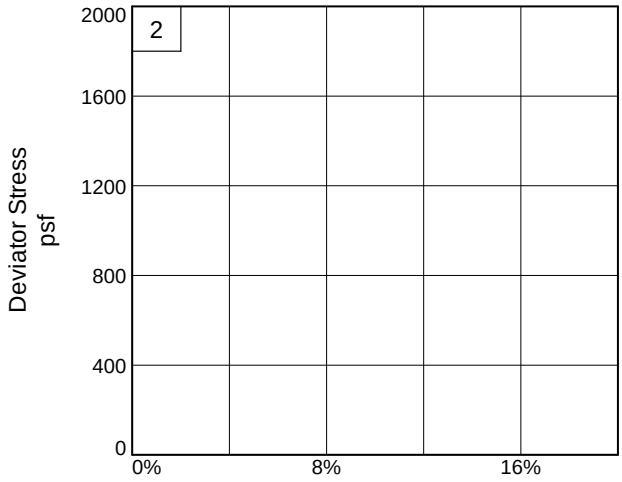
Source of Sample: Lab #7817 **Depth:** 53.5'-55.5'

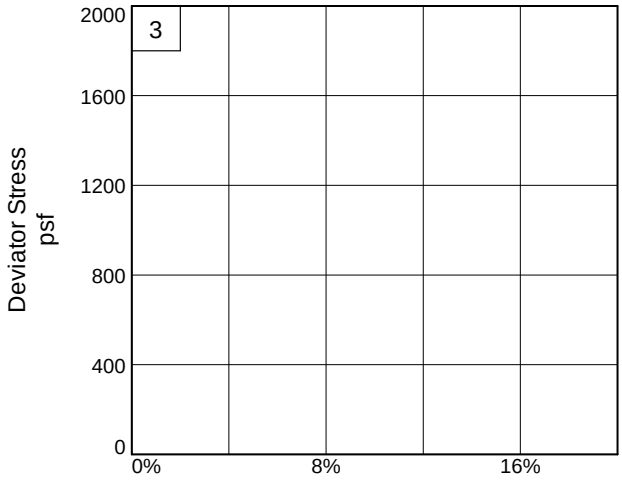
Sample Number: BW-52 T-4

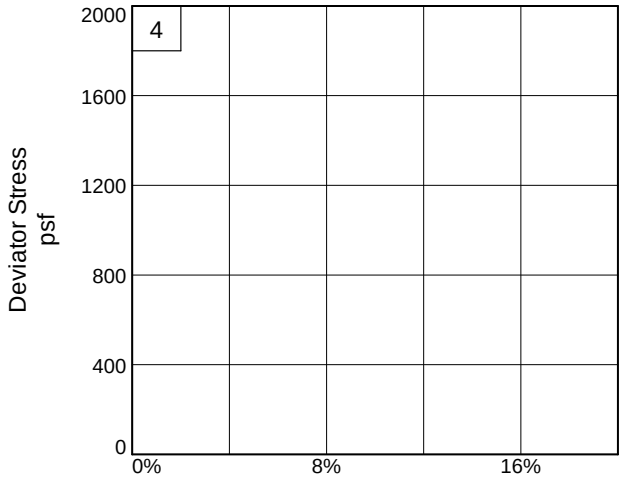
Proj. No.: 1511010228 **Date Sampled:**

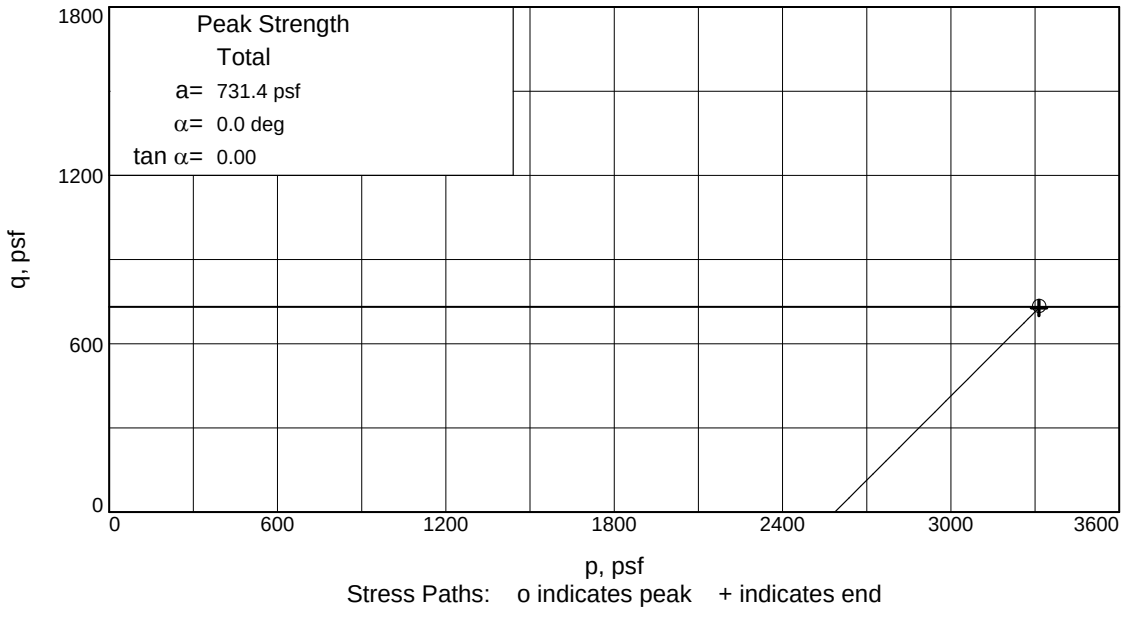
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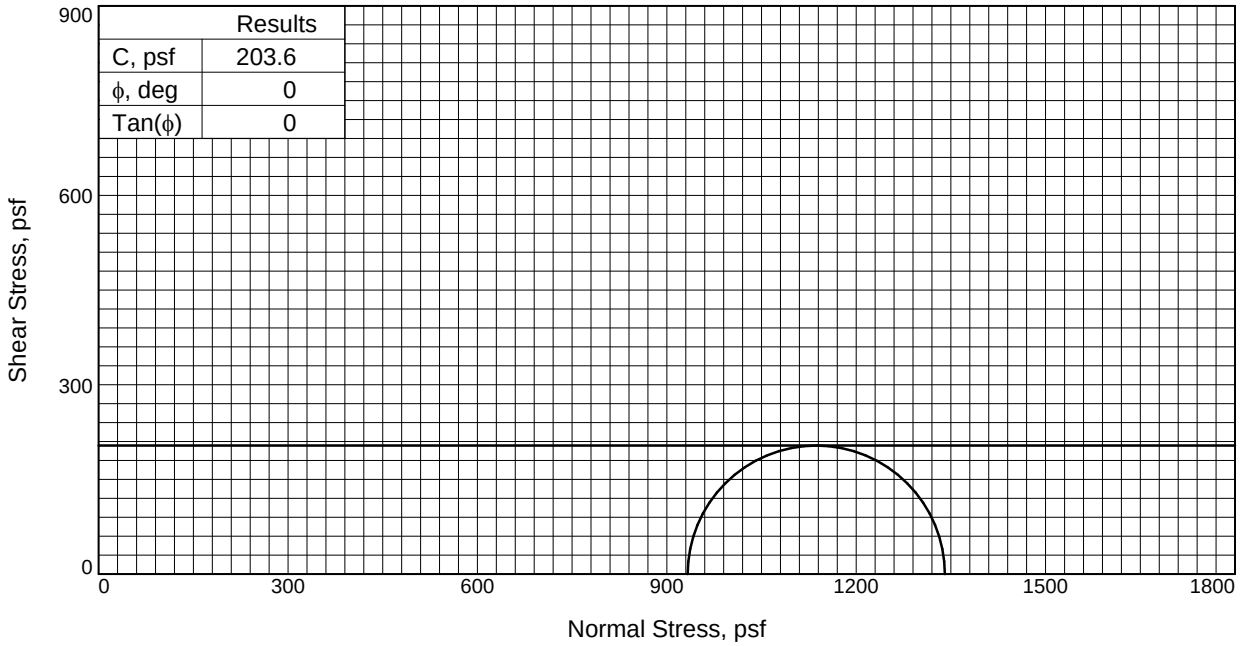


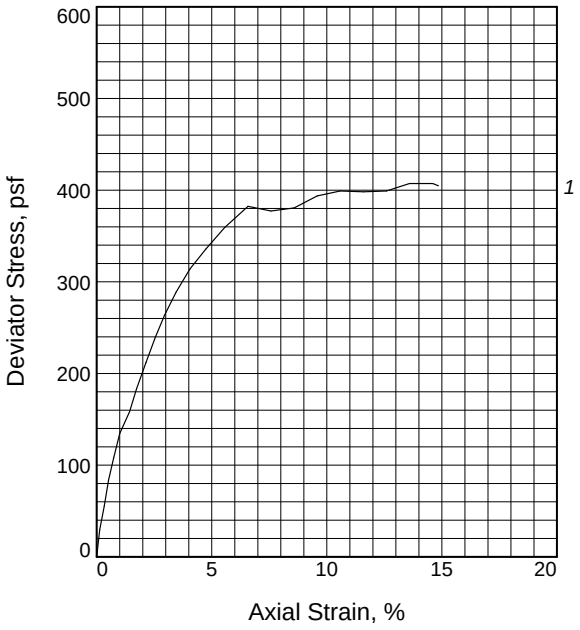


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7817 **Depth:** 53.5'-55.5' **Sample Number:** BW-52 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	42.0
	Dry Density, pcf	81.3
	Saturation, %	107.1
	Void Ratio	1.0425
	Diameter, in.	2.831
	Height, in.	5.427
At Test	Water Content, %	41.2
	Dry Density, pcf	81.3
	Saturation, %	105.1
	Void Ratio	1.0425
	Diameter, in.	2.831
	Height, in.	5.427
Strain at peak, %		13.6
Back Pressure, psf		0.0
Cell Pressure, psf		933.1
Fail. Stress, psf		407.3
Strain, %		13.6
Ult. Stress, psf		407.3
Strain, %		13.6
σ_1 Failure, psf		1340.4
σ_3 Failure, psf		933.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(20))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

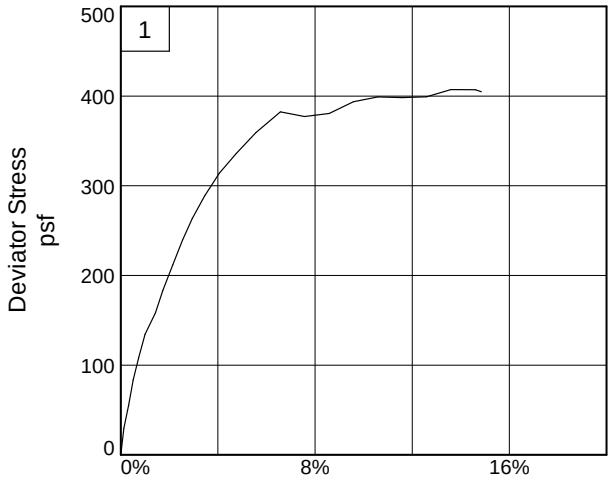
Project: Mobile River Bridge

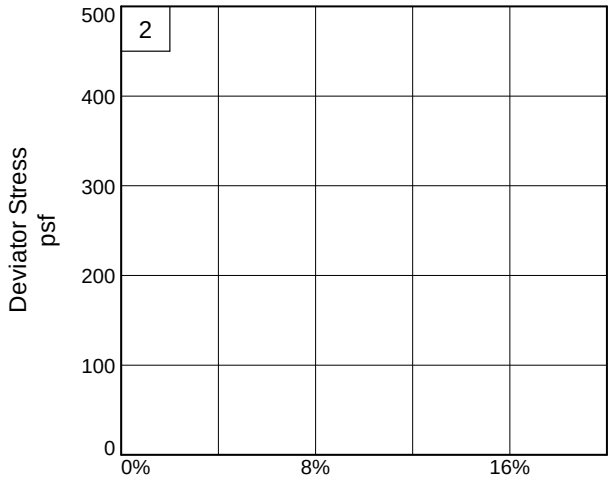
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5'

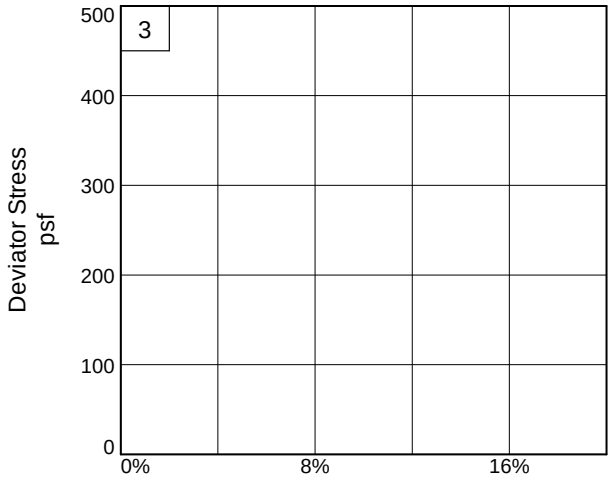
Sample Number: BW-58 T-1

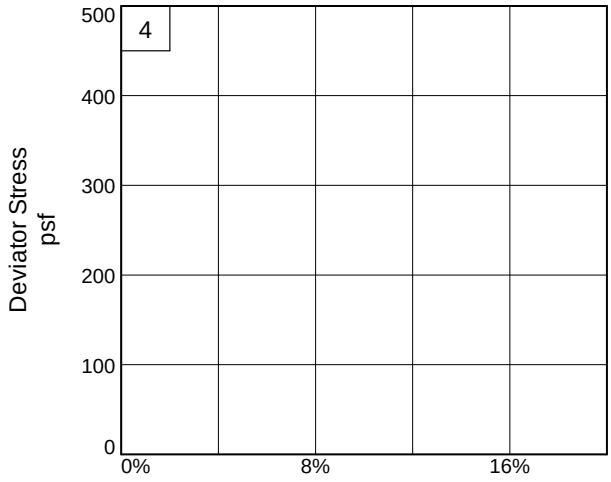
Proj. No.: 1511010228 **Date Sampled:**

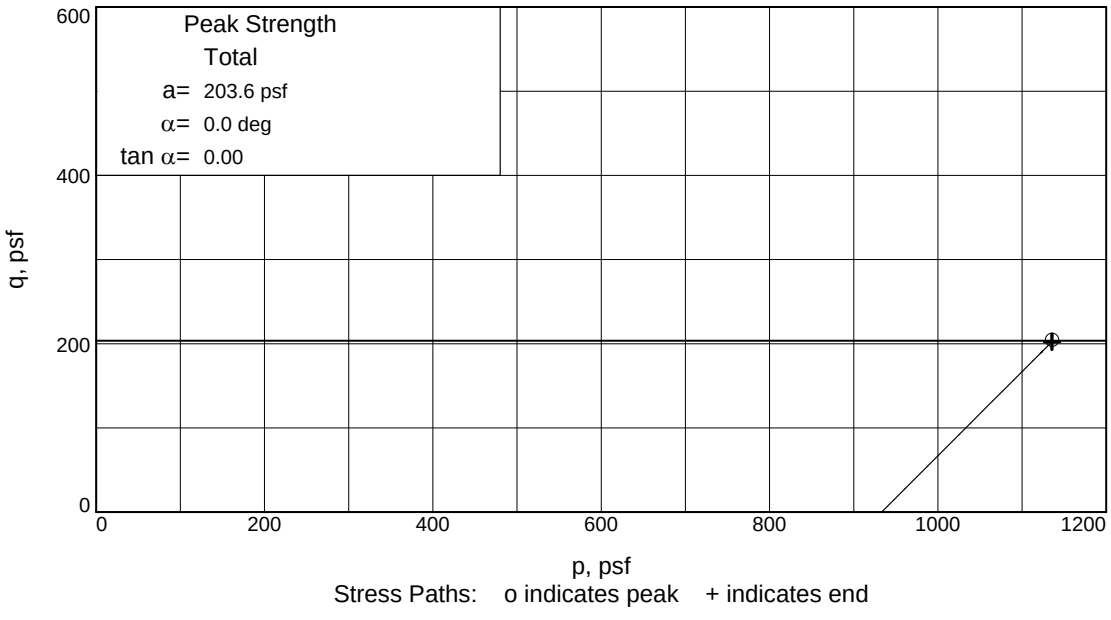
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Thompson Engineering
Mobile, Alabama





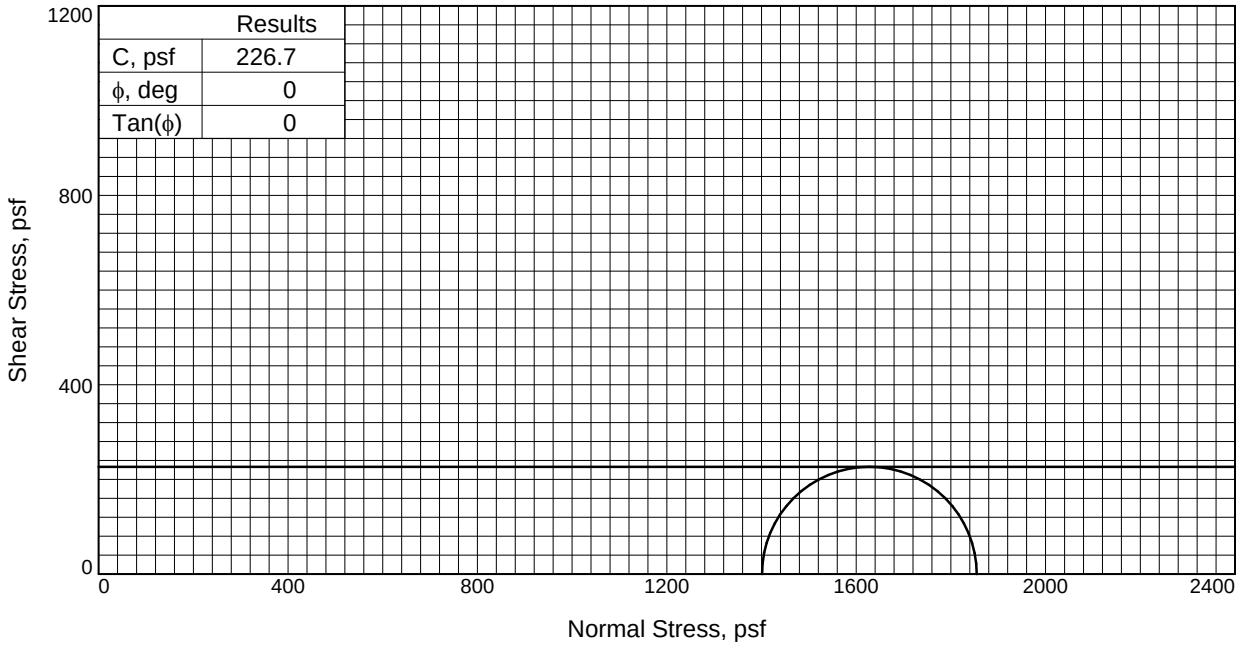


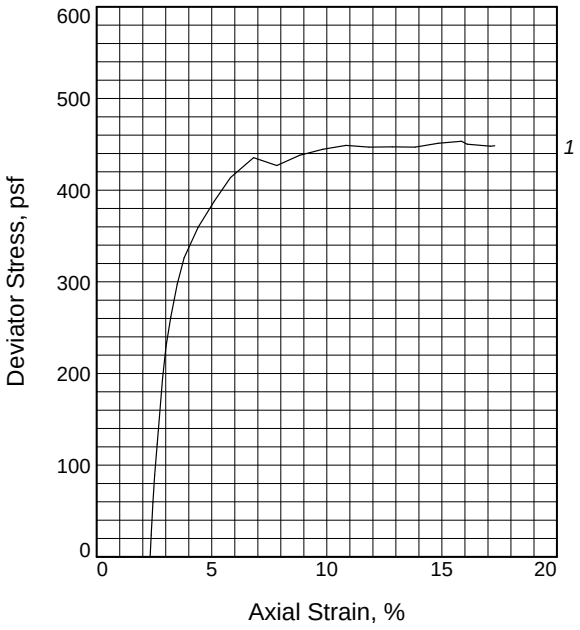




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5' **Sample Number:** BW-58 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	54.4
	Dry Density, pcf	67.6
	Saturation, %	99.2
	Void Ratio	1.4572
	Diameter, in.	2.763
	Height, in.	5.485
At Test	Water Content, %	51.2
	Dry Density, pcf	67.6
	Saturation, %	93.5
	Void Ratio	1.4572
	Diameter, in.	2.763
	Height, in.	5.485
Strain at peak, %		15.9
Back Pressure, psf		0.0
Cell Pressure, psf		1401.1
Fail. Stress, psf		453.3
Strain, %		15.9
Ult. Stress, psf		453.3
Strain, %		15.9
σ_1 Failure, psf		1854.4
σ_3 Failure, psf		1401.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(65))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

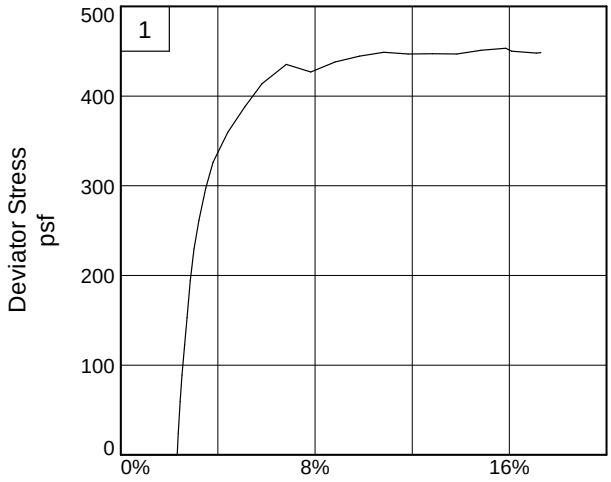
Project: Mobile River Bridge

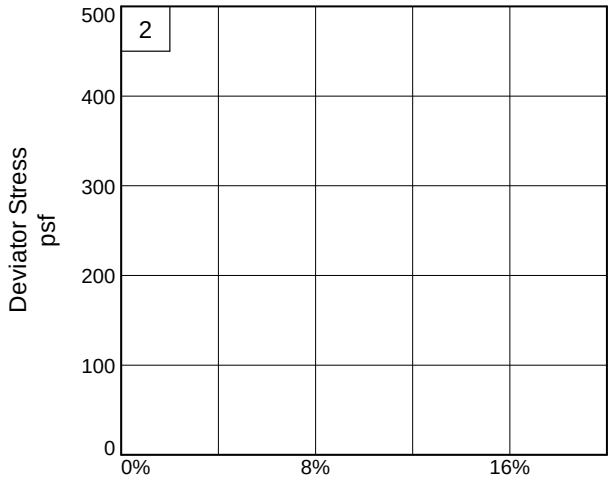
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5'

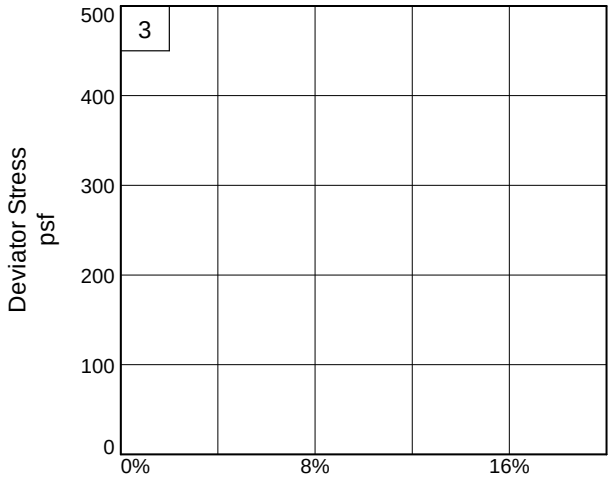
Sample Number: BW-58 T-2

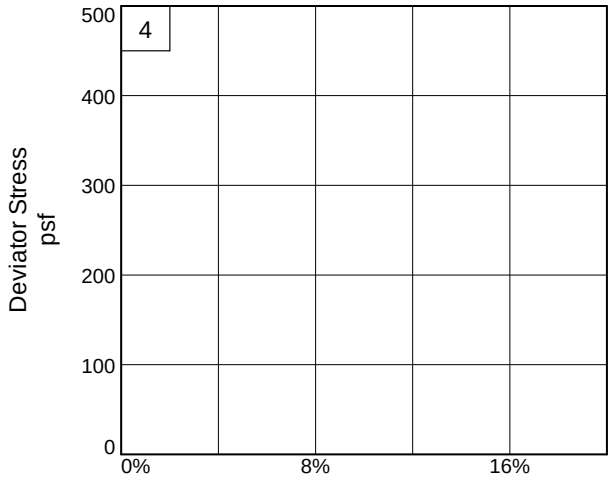
Proj. No.: 1511010228 **Date Sampled:**

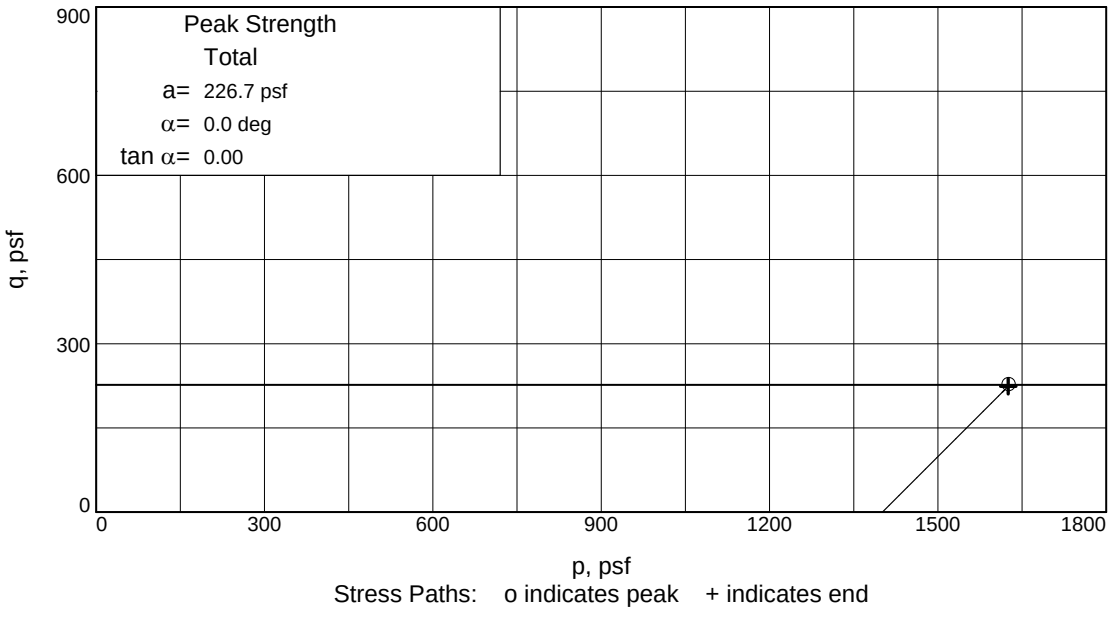
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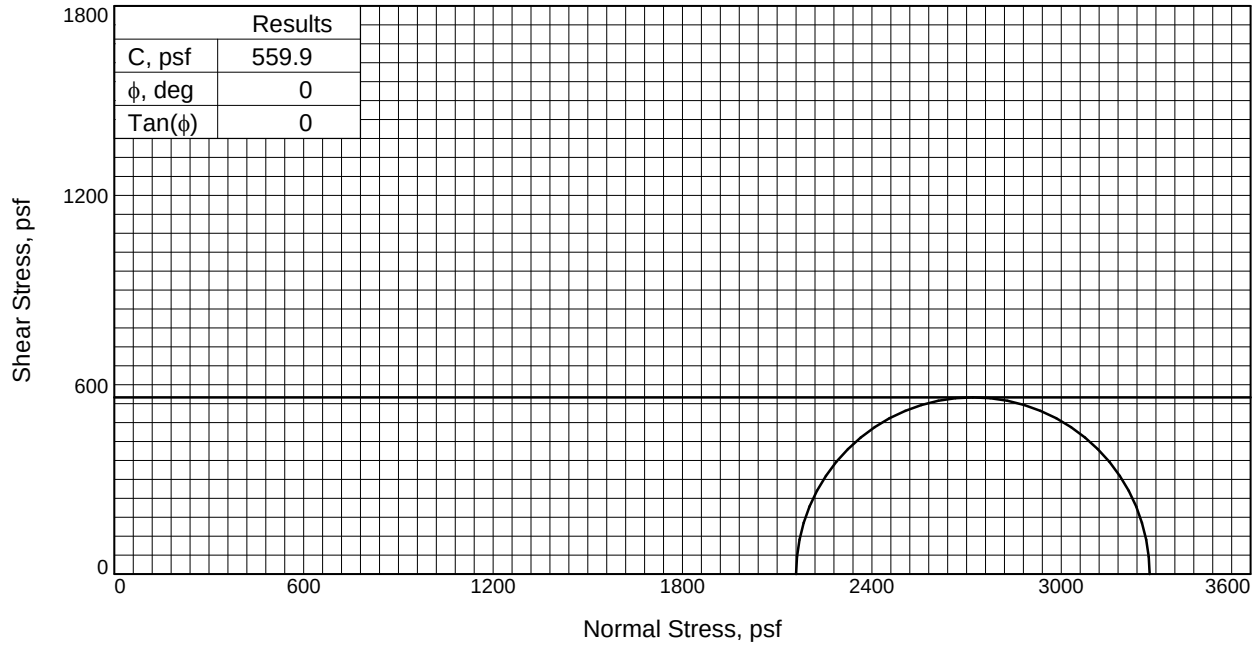


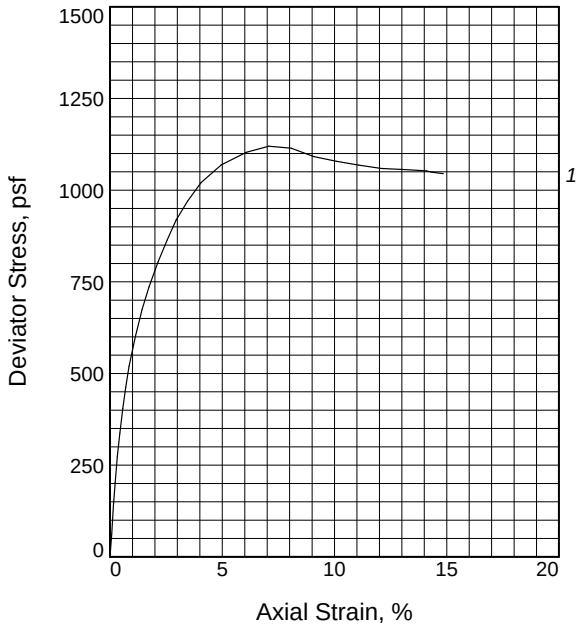




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5' **Sample Number:** BW-58 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	79.4
	Dry Density, pcf	52.2
	Saturation, %	96.9
	Void Ratio	2.1800
	Diameter, in.	2.759
	Height, in.	5.550
At Test	Water Content, %	69.2
	Dry Density, pcf	52.2
	Saturation, %	84.4
	Void Ratio	2.1800
	Diameter, in.	2.759
	Height, in.	5.550
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		2160.0
Fail. Stress, psf		1119.9
Strain, %		7.1
Ult. Stress, psf		1119.9
Strain, %		7.1
σ_1 Failure, psf		3279.9
σ_3 Failure, psf		2160.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-5(96))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

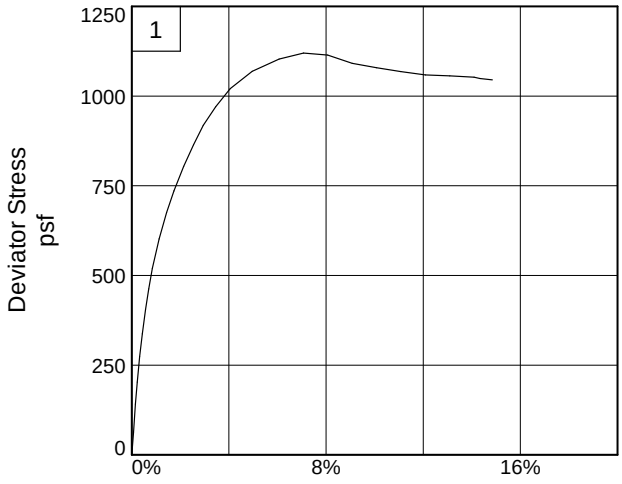
Project: Mobile River Bridge

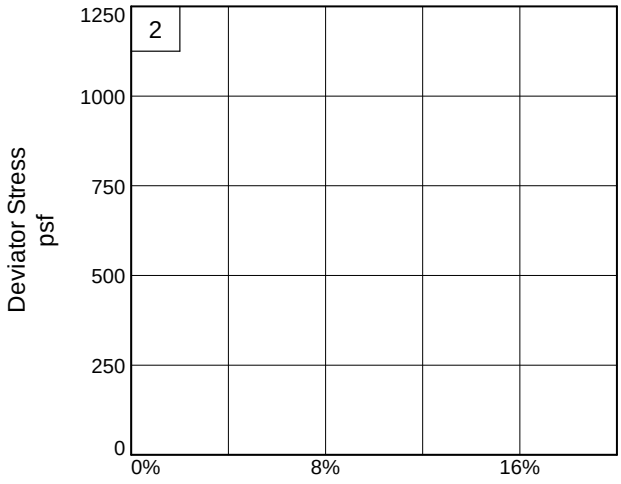
Source of Sample: Lab #7800 **Depth:** 43.5'-45.5'

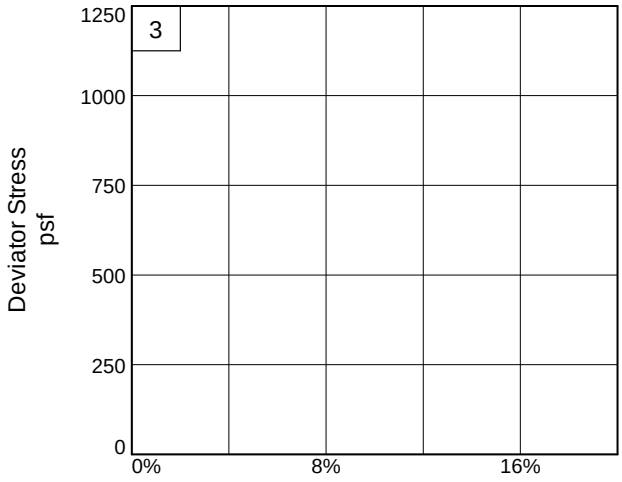
Sample Number: BW-58 T-3

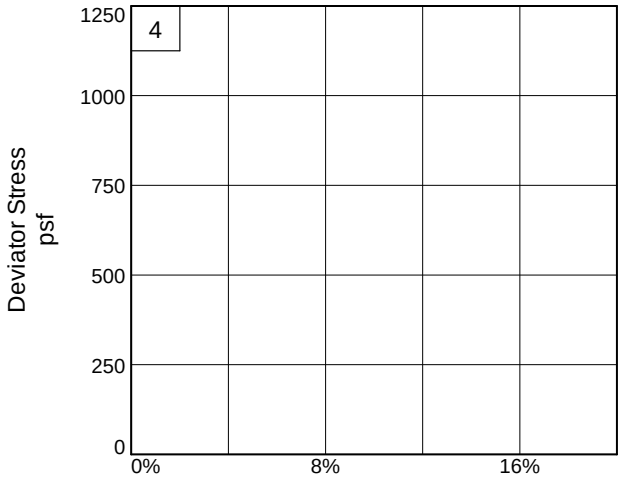
Proj. No.: 1511010228 **Date Sampled:**

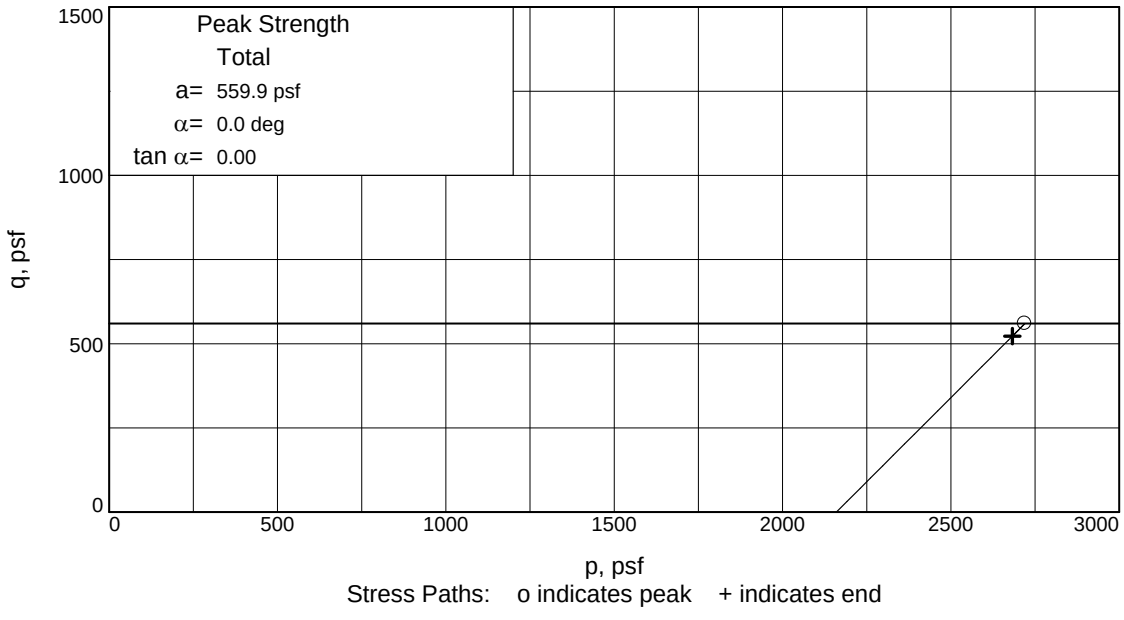
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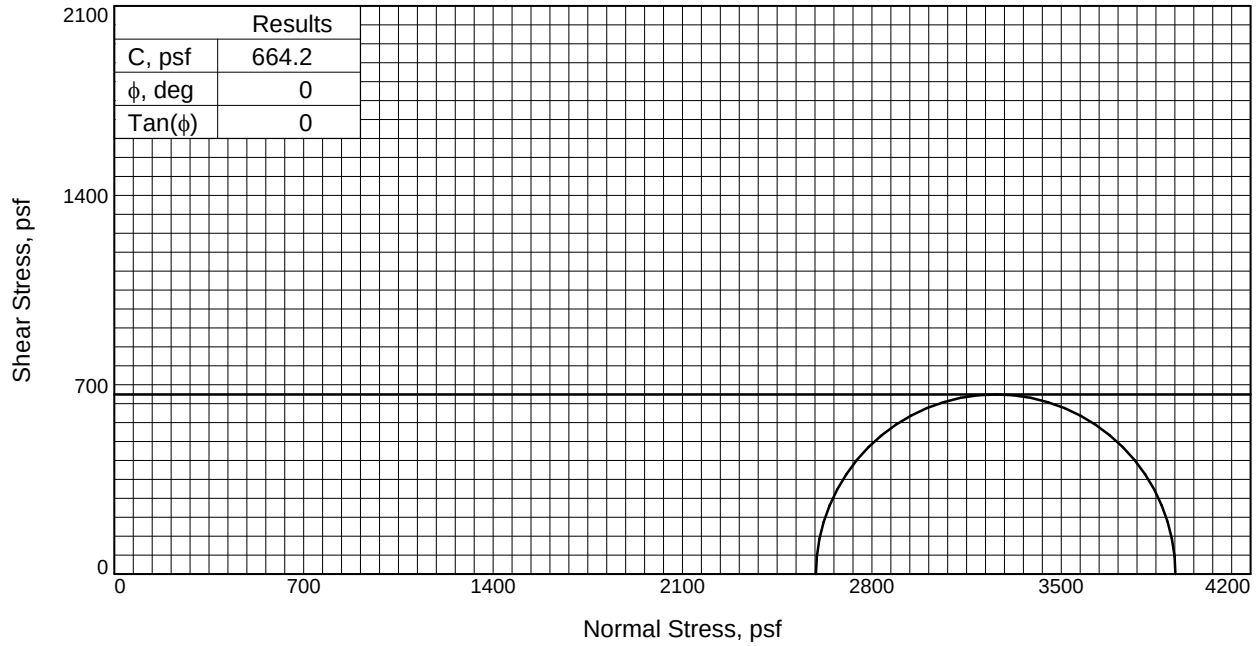


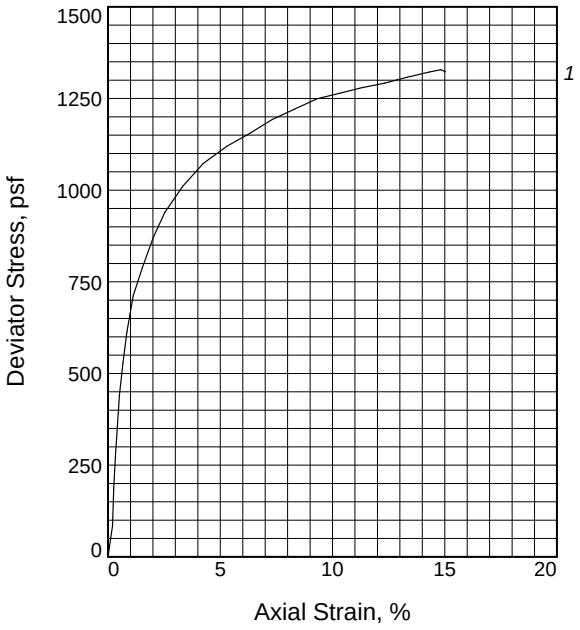




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 43.5'-45.5' **Sample Number:** BW-58 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	39.2
	Dry Density, pcf	87.6
	Saturation, %	116.8
	Void Ratio	0.8910
	Diameter, in.	2.815
	Height, in.	5.548
At Test	Water Content, %	31.0
	Dry Density, pcf	87.6
	Saturation, %	92.3
	Void Ratio	0.8910
	Diameter, in.	2.815
	Height, in.	5.548
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2593.4
Fail. Stress, psf		1328.4
Strain, %		14.8
Ult. Stress, psf		1328.4
Strain, %		14.8
σ_1 Failure, psf		3921.9
σ_3 Failure, psf		2593.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(32))

Specific Gravity= 2.652

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

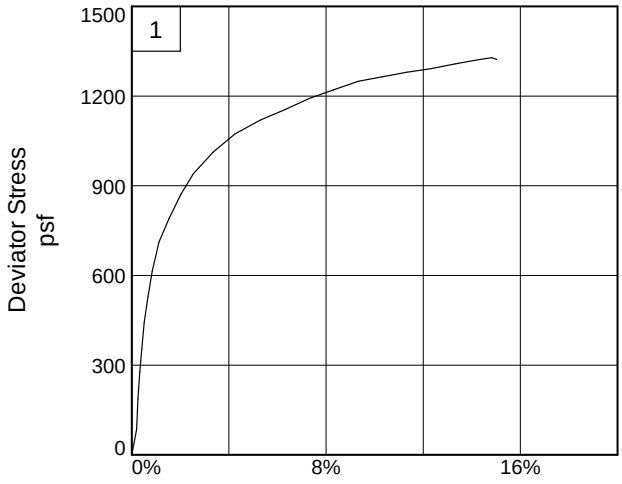
Project: Mobile River Bridge

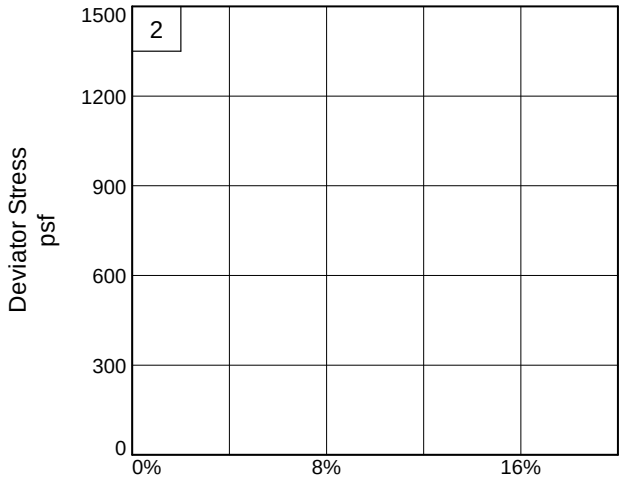
Source of Sample: Lab #7800 **Depth:** 53.5'-55.5'

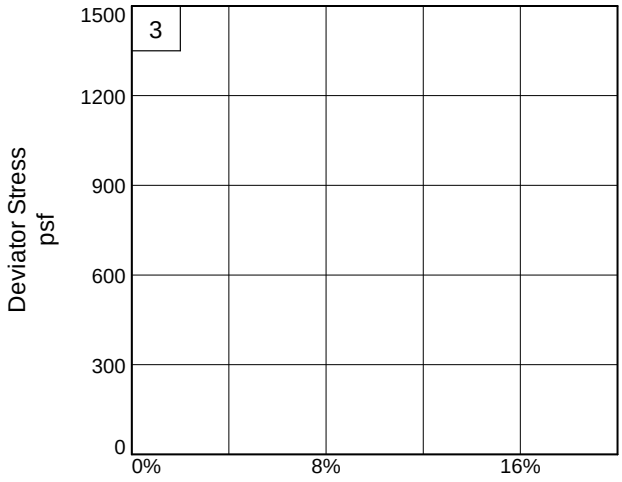
Sample Number: BW-58 T-4

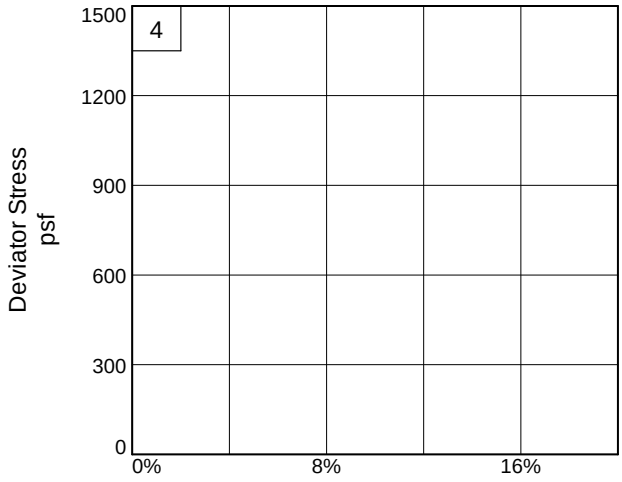
Proj. No.: 1511010228 **Date Sampled:**

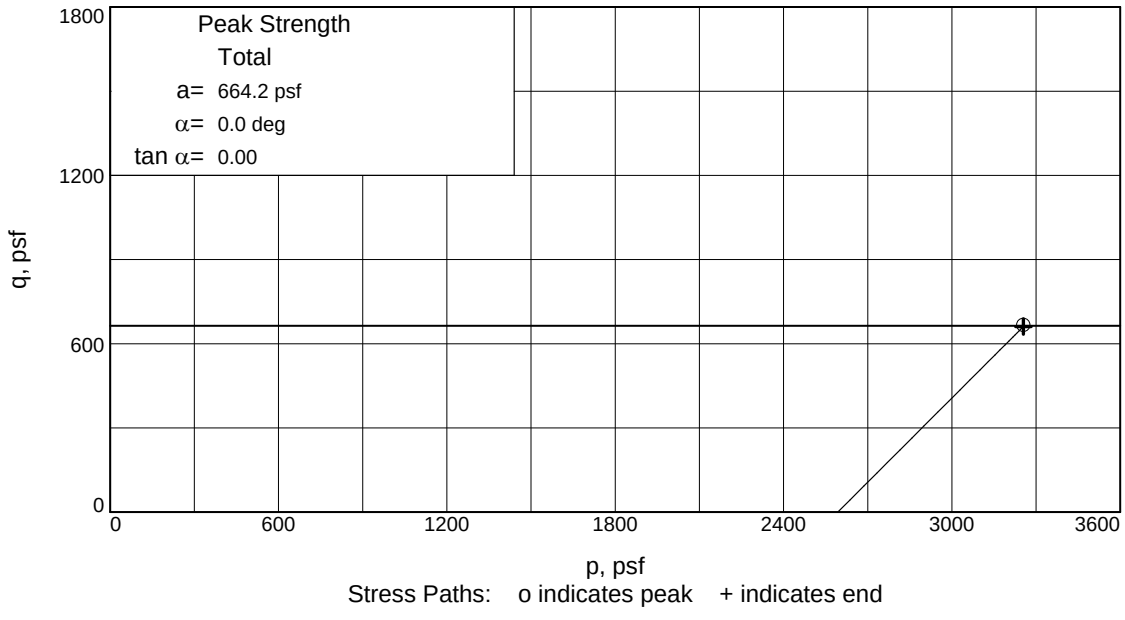
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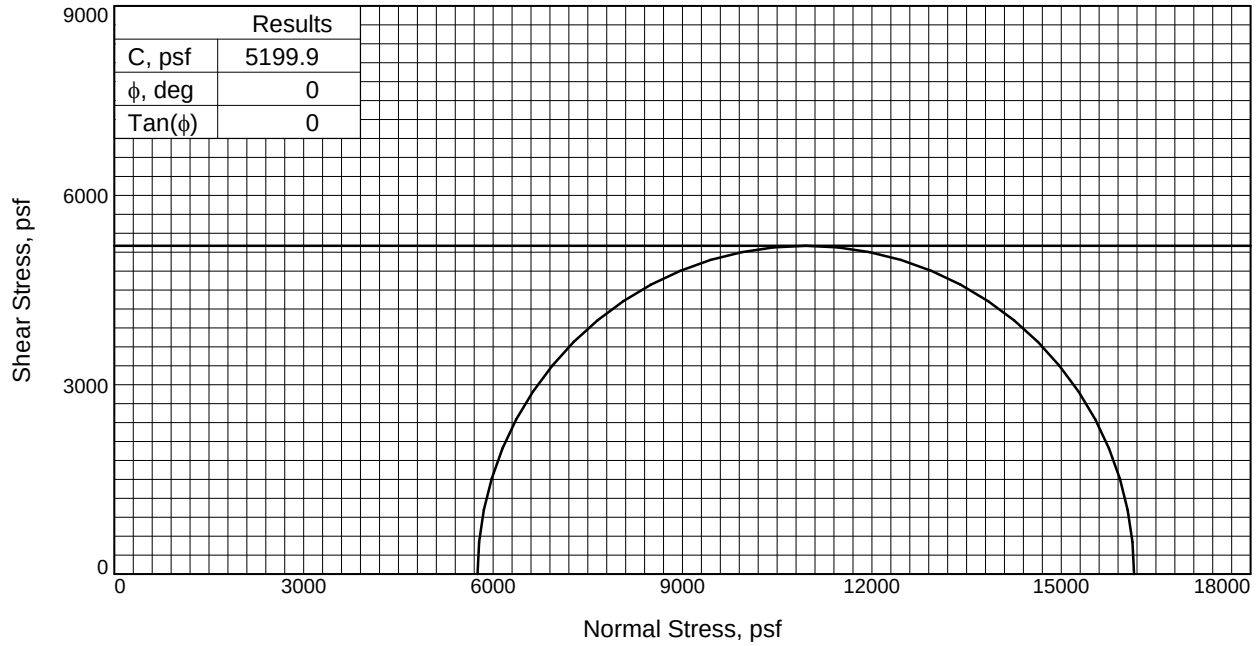


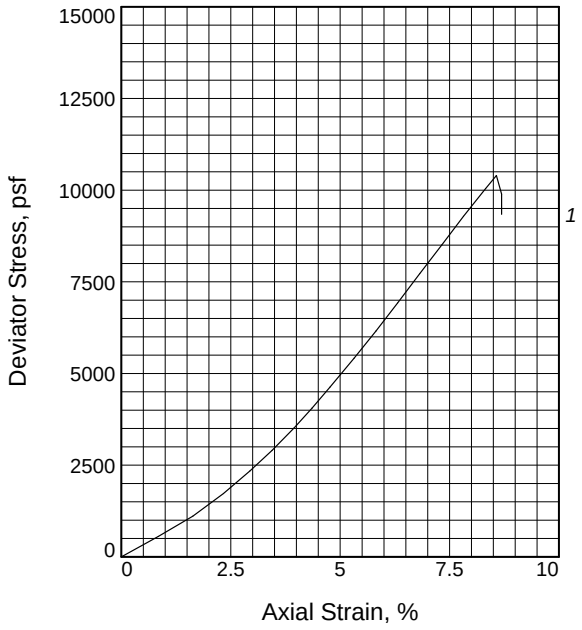




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 53.5'-55.5' **Sample Number:** BW-58 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	20.5
	Dry Density, pcf	111.0
	Saturation, %	112.3
	Void Ratio	0.4805
	Diameter, in.	2.820
	Height, in.	5.498
At Test	Water Content, %	19.5
	Dry Density, pcf	111.0
	Saturation, %	107.0
	Void Ratio	0.4805
	Diameter, in.	2.820
	Height, in.	5.498
Strain at peak, %		8.6
Back Pressure, psf		0.0
Cell Pressure, psf		5752.8
Fail. Stress, psf		10399.8
Strain, %		8.6
Ult. Stress, psf		10399.8
Strain, %		8.6
σ_1 Failure, psf		16152.6
σ_3 Failure, psf		5752.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY SILT(ML A-4(0))

Specific Gravity= 2.632

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

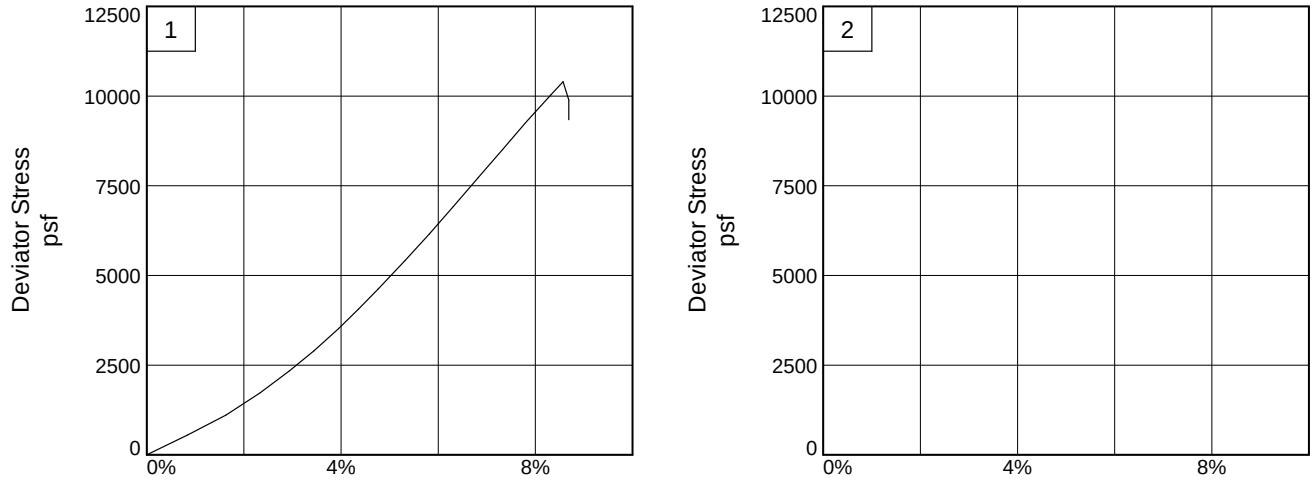
Project: Mobile River Bridge

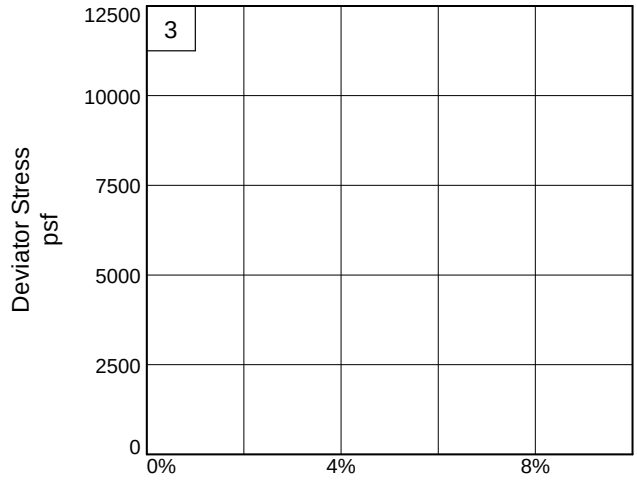
Source of Sample: Lab #7800 **Depth:** 118.5'-120.5'

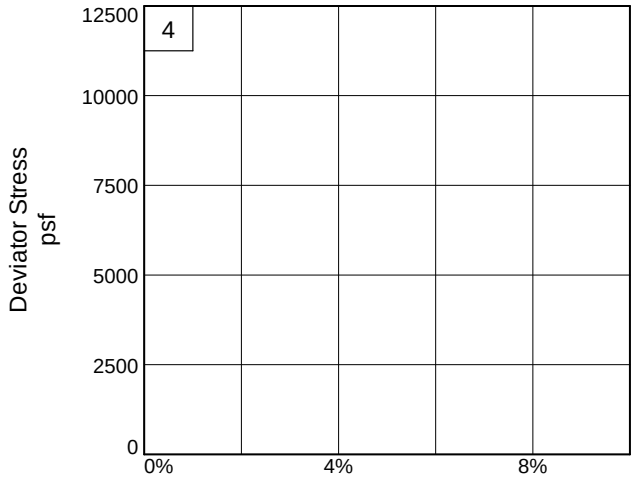
Sample Number: BW-58 T-6

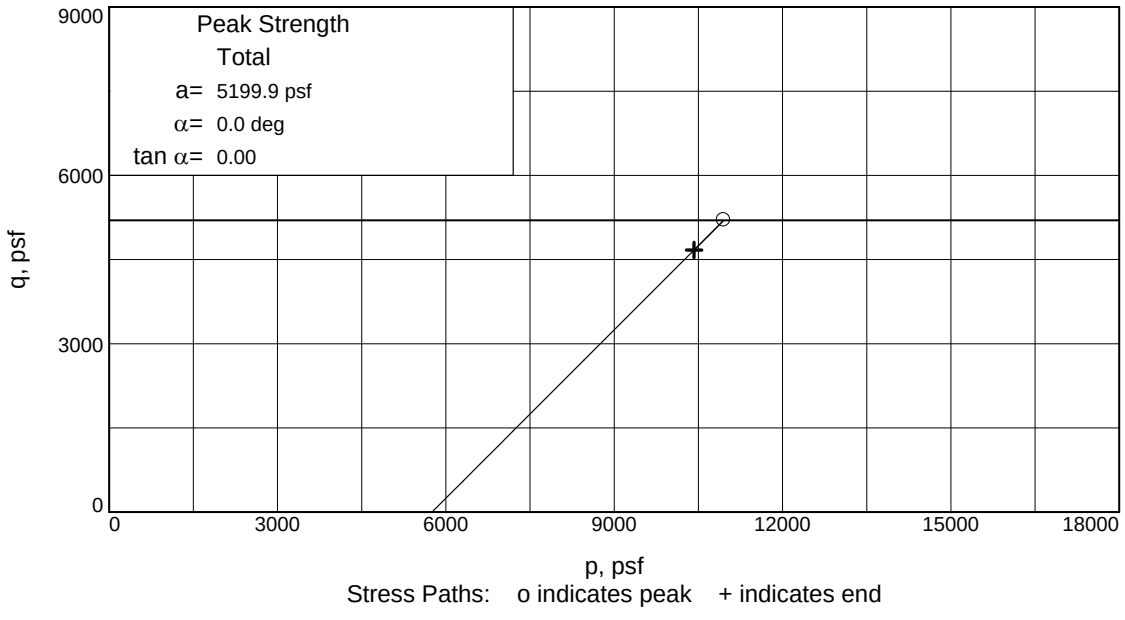
Proj. No.: 1511010228 **Date Sampled:**

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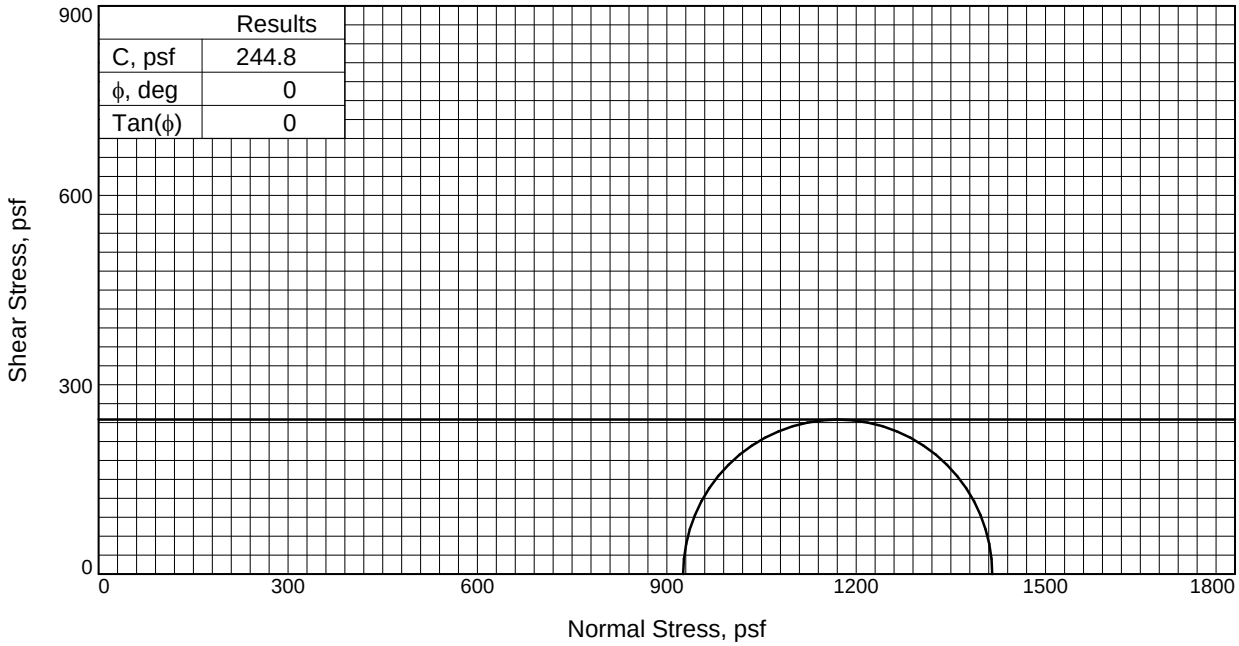


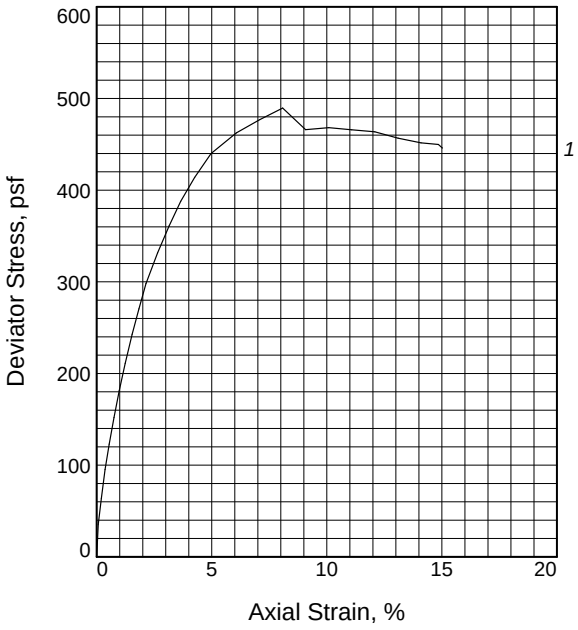




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 118.5'-120.5' **Sample Number:** BW-58 T-6
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	47.8
	Dry Density, pcf	77.5
	Saturation, %	111.4
	Void Ratio	1.1416
	Diameter, in.	2.775
	Height, in.	5.499
At Test	Water Content, %	46.7
	Dry Density, pcf	77.5
	Saturation, %	108.9
	Void Ratio	1.1416
	Diameter, in.	2.775
	Height, in.	5.499
Strain at peak, %		8.1
Back Pressure, psf		0.0
Cell Pressure, psf		925.9
Fail. Stress, psf		489.6
Strain, %		8.1
Ult. Stress, psf		489.6
Strain, %		8.1
σ_1 Failure, psf		1415.5
σ_3 Failure, psf		925.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(34))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

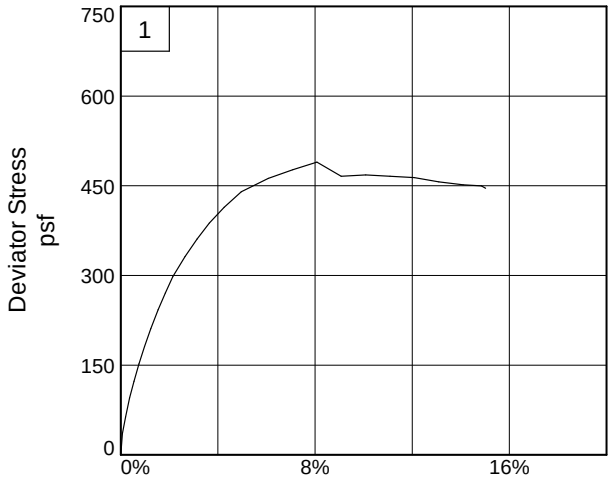
Project: Mobile River Bridge

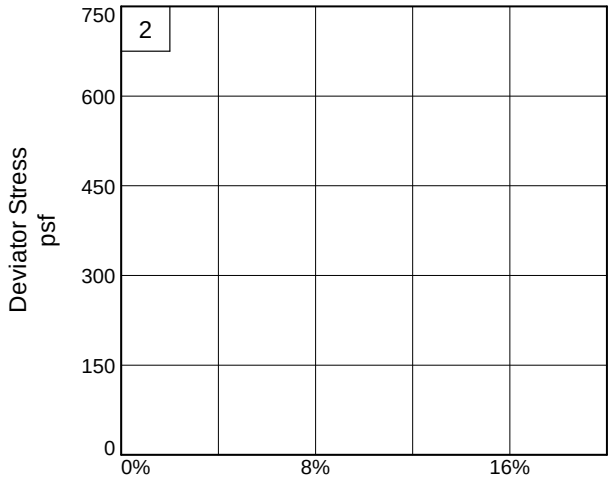
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5'

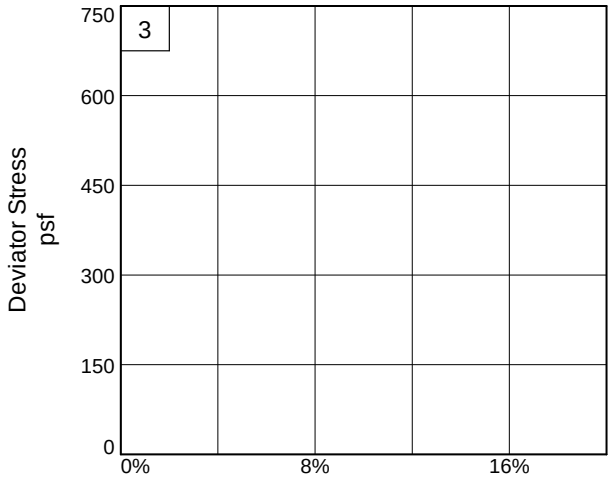
Sample Number: BW-59 T-1

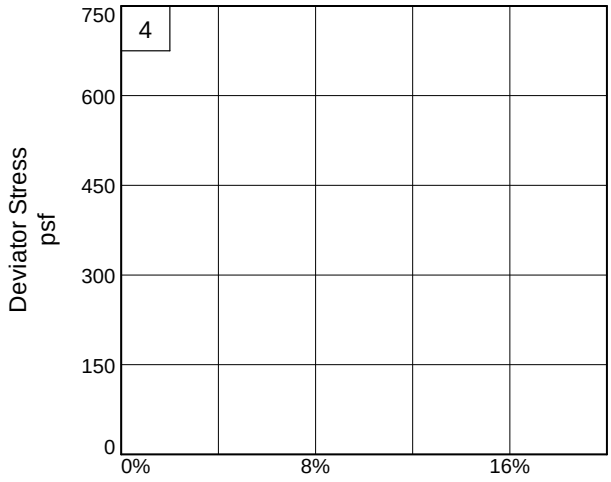
Proj. No.: 1511010228 **Date Sampled:**

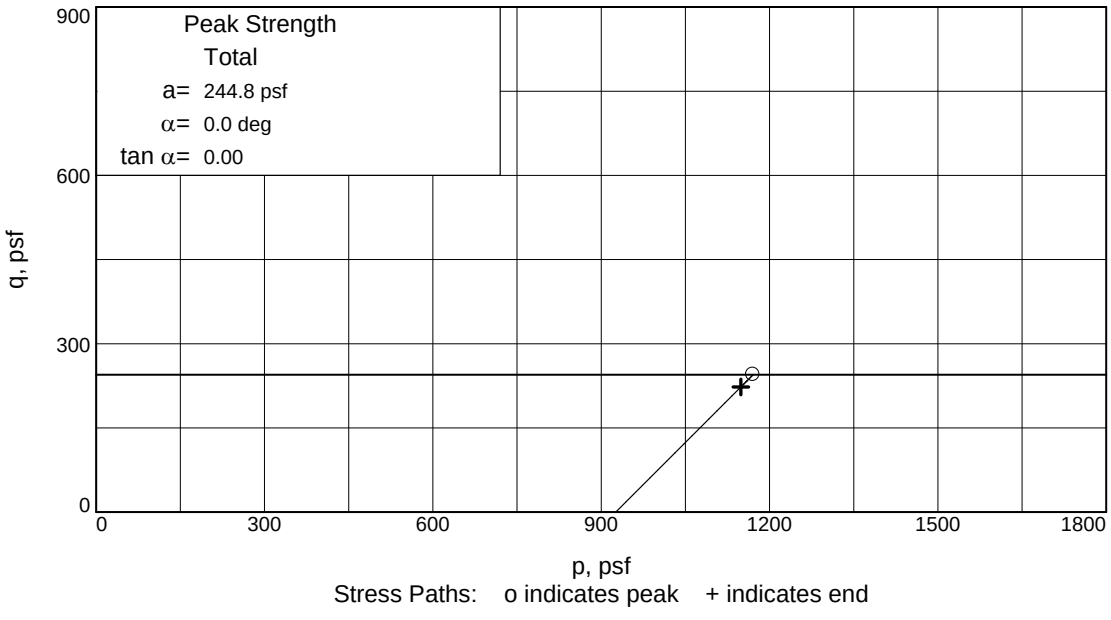
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Mobile, Alabama





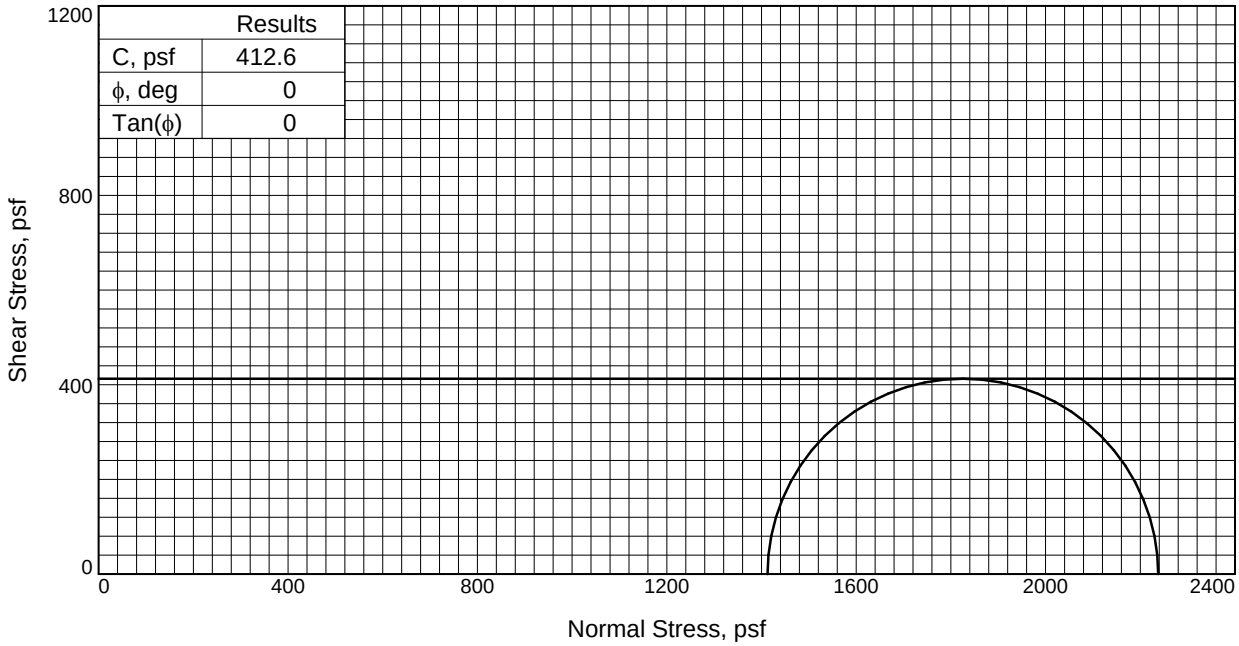


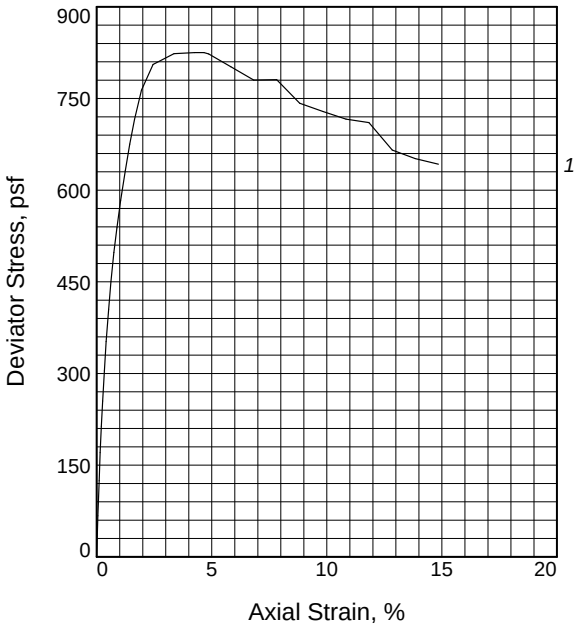




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5' **Sample Number:** BW-59 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	69.0
	Dry Density, pcf	61.1
	Saturation, %	106.8
	Void Ratio	1.7192
	Diameter, in.	2.798
	Height, in.	5.603
At Test	Water Content, %	63.2
	Dry Density, pcf	61.1
	Saturation, %	97.7
	Void Ratio	1.7192
	Diameter, in.	2.798
	Height, in.	5.603
Strain at peak, %		4.3
Back Pressure, psf		0.0
Cell Pressure, psf		1412.6
Fail. Stress, psf		825.2
Strain, %		4.3
Ult. Stress, psf		825.2
Strain, %		4.3
σ_1 Failure, psf		2237.8
σ_3 Failure, psf		1412.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(65))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

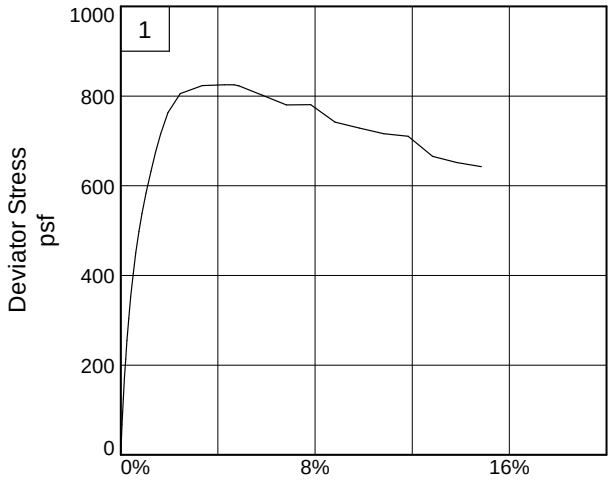
Project: Mobile River Bridge

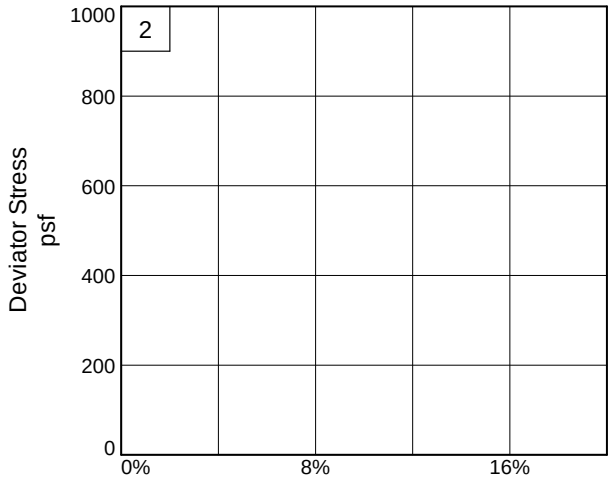
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5'

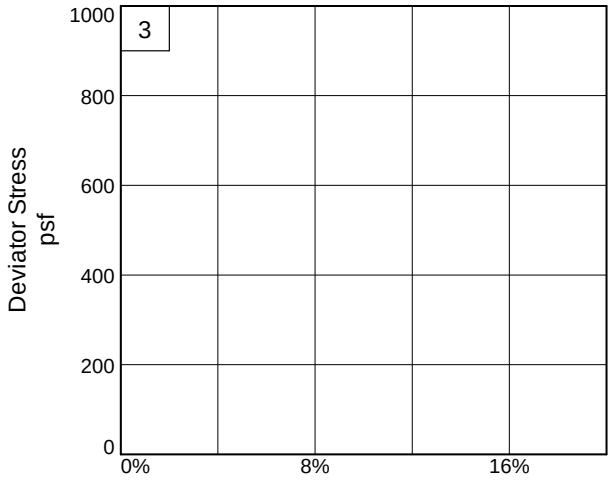
Sample Number: BW-59 T-2

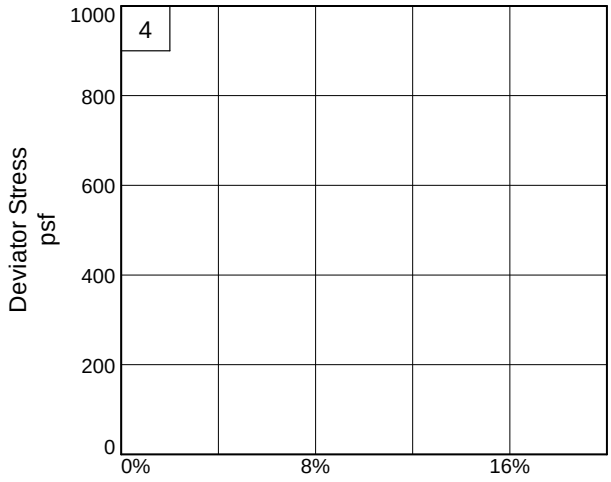
Proj. No.: 1511010228 **Date Sampled:**

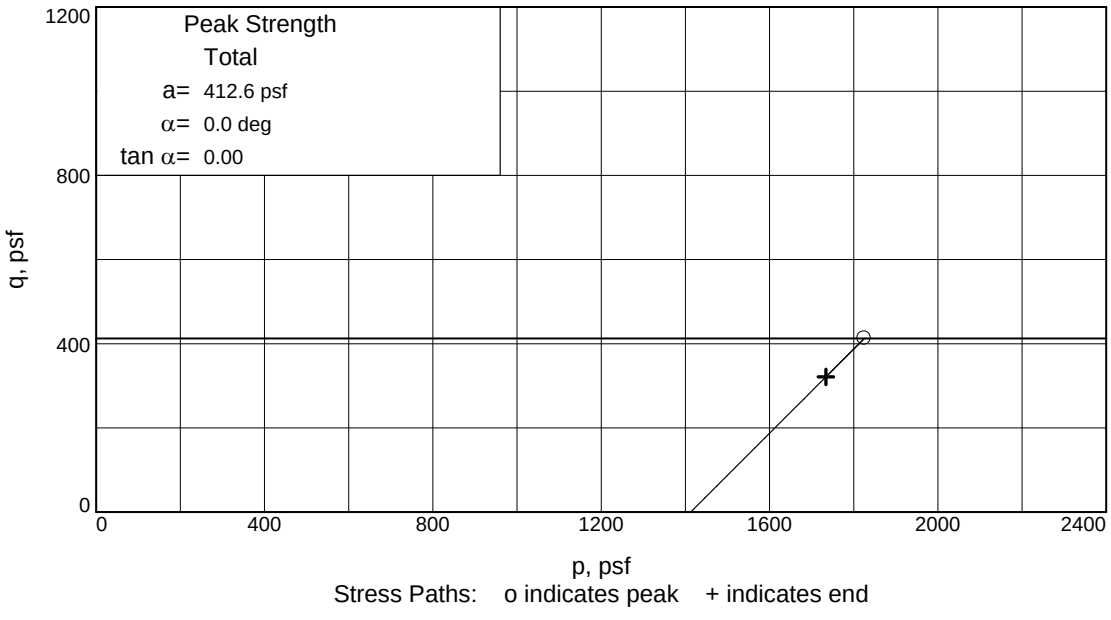
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Thompson Engineering
Mobile, Alabama





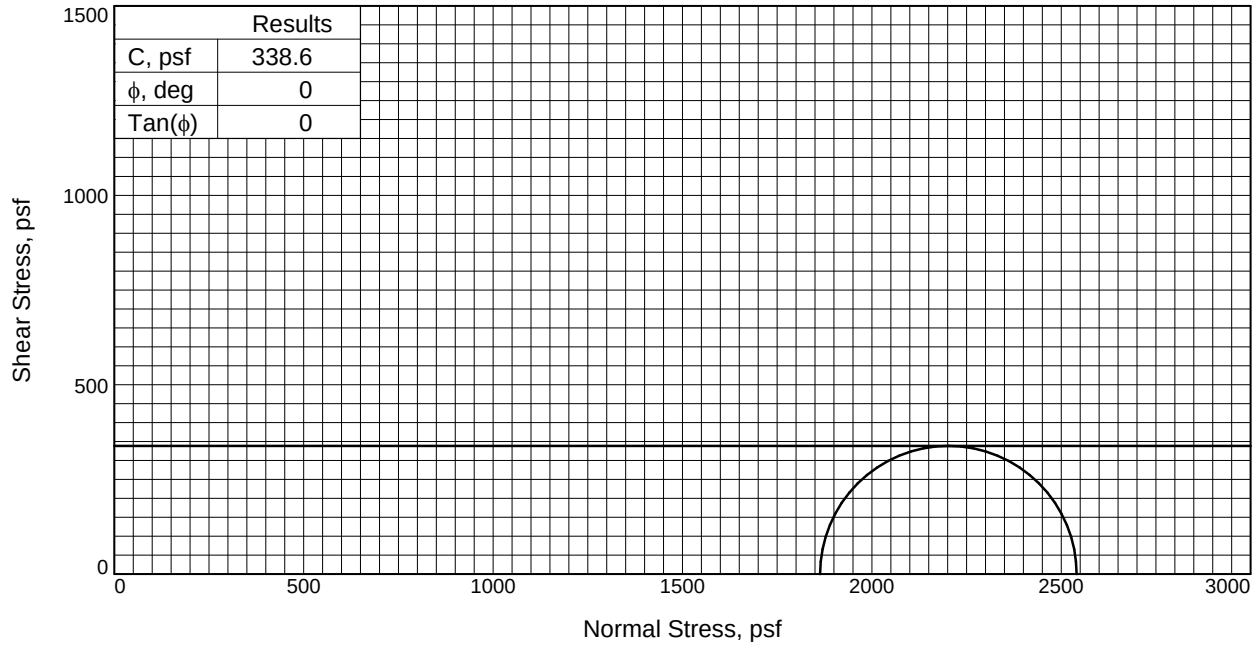


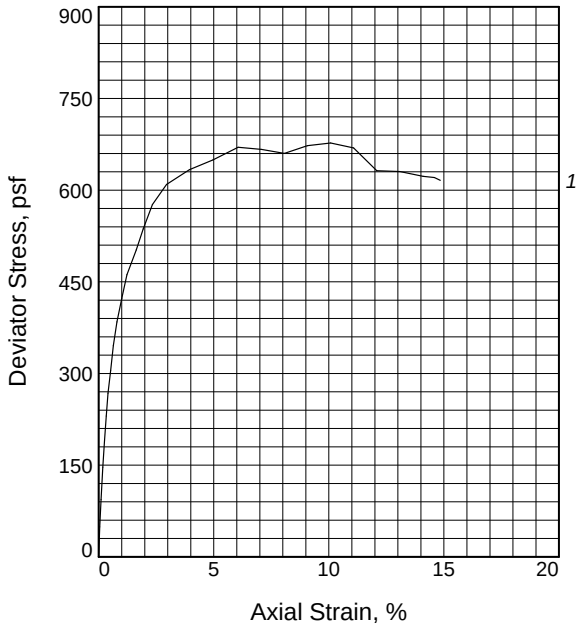




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5' **Sample Number:** BW-59 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.1
	Dry Density, pcf	65.6
	Saturation, %	100.9
	Void Ratio	1.5316
	Diameter, in.	2.784
	Height, in.	5.469
At Test	Water Content, %	63.8
	Dry Density, pcf	65.6
	Saturation, %	110.9
	Void Ratio	1.5316
	Diameter, in.	2.784
	Height, in.	5.469
Strain at peak, %		10.1
Back Pressure, psf		0.0
Cell Pressure, psf		1863.4
Fail. Stress, psf		677.2
Strain, %		10.1
Ult. Stress, psf		677.2
Strain, %		10.1
σ_1 Failure, psf		2540.5
σ_3 Failure, psf		1863.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(55))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

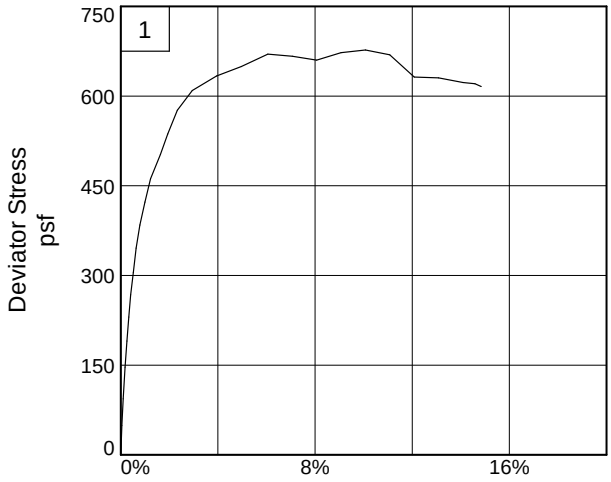
Project: Mobile River Bridge

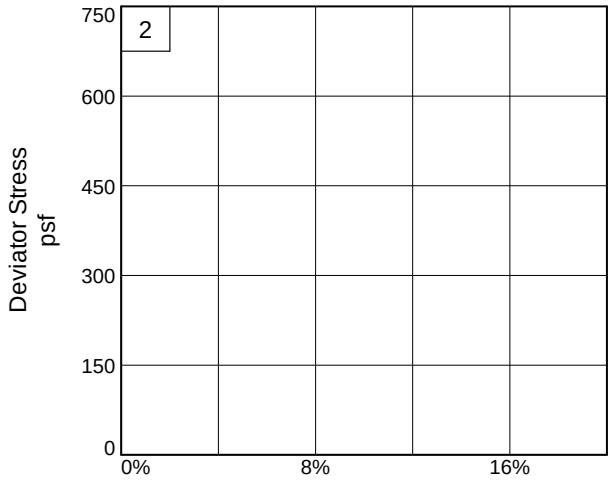
Source of Sample: Lab #7800 **Depth:** 38.5'-40.5'

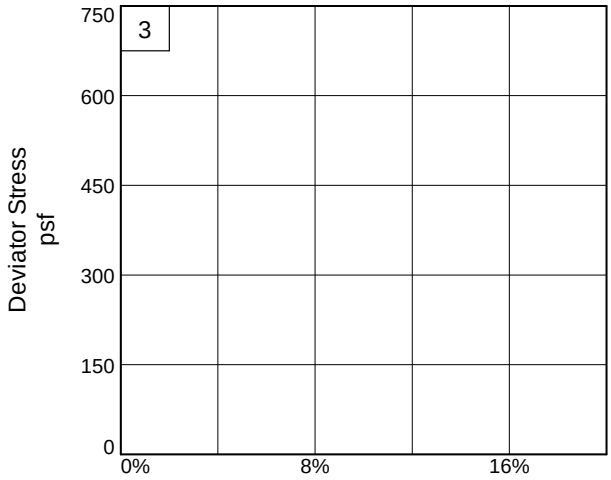
Sample Number: BW-59 T-3

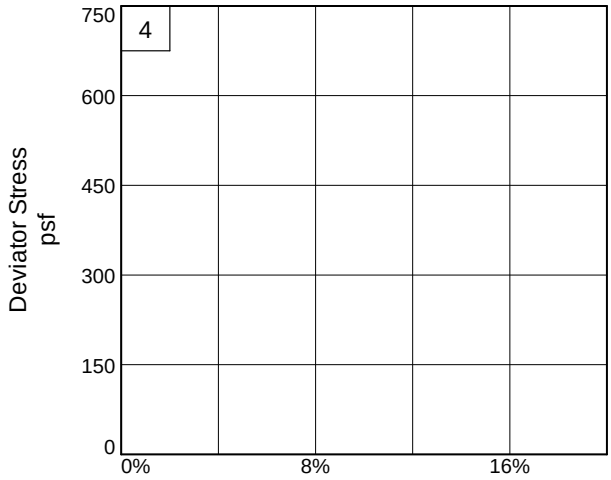
Proj. No.: 1511010228 **Date Sampled:**

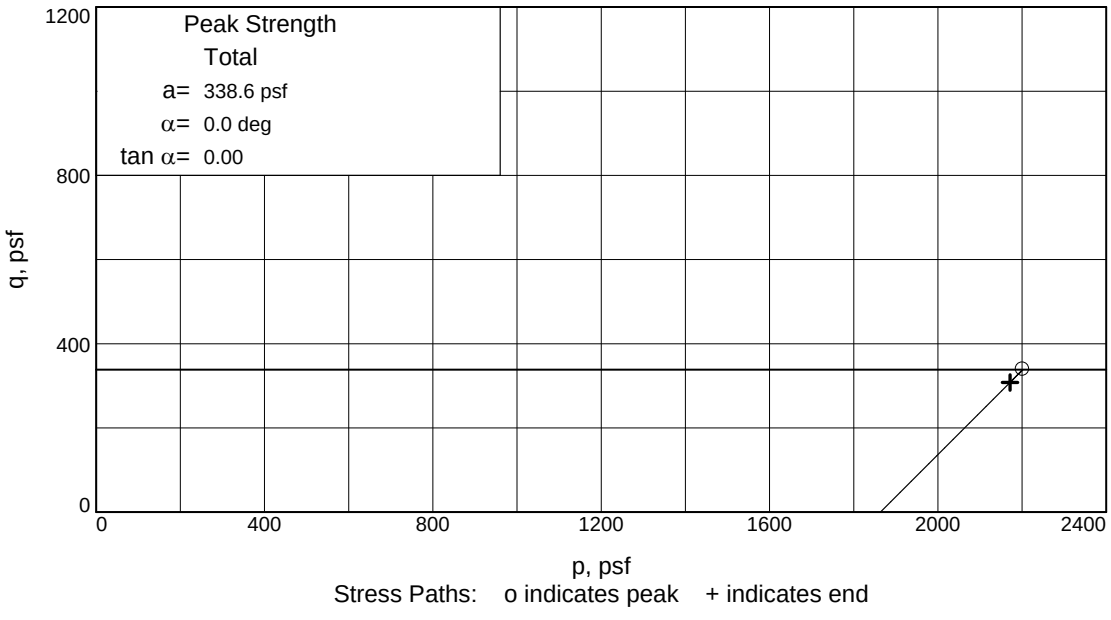
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Thompson Engineering
Mobile, Alabama





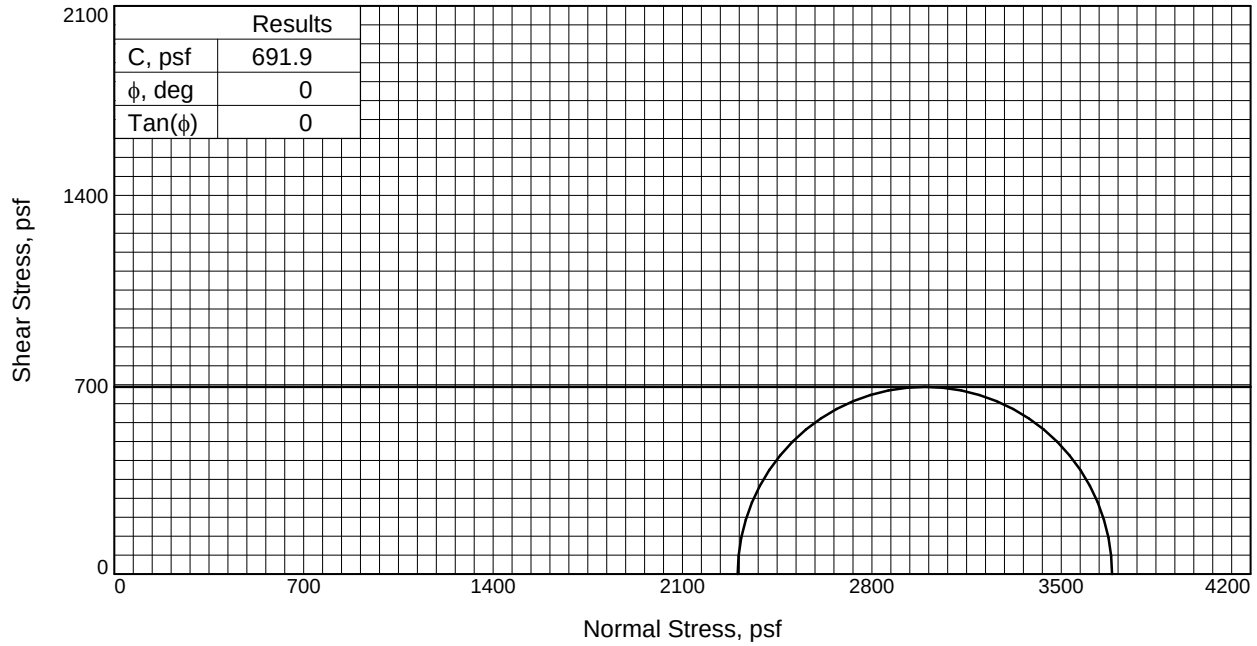


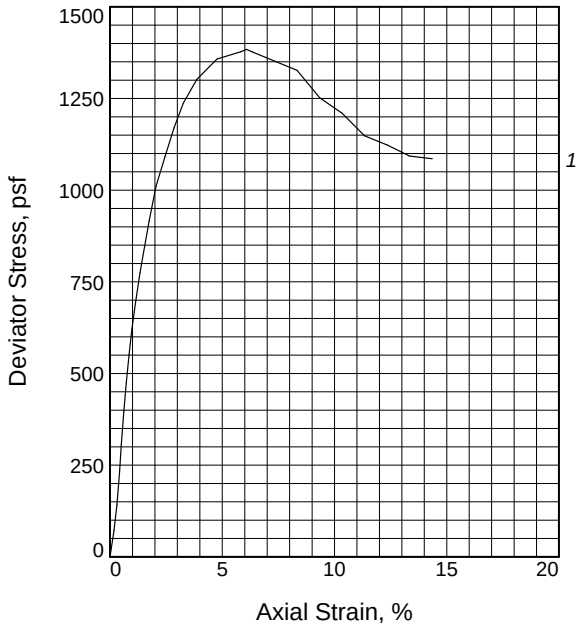




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 38.5'-40.5' **Sample Number:** BW-59 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	121.7
	Dry Density, pcf	37.6
	Saturation, %	94.7
	Void Ratio	3.4184
	Diameter, in.	2.811
	Height, in.	5.733
At Test	Water Content, %	127.9
	Dry Density, pcf	37.6
	Saturation, %	99.5
	Void Ratio	3.4184
	Diameter, in.	2.811
	Height, in.	5.733
Strain at peak, %		6.1
Back Pressure, psf		0.0
Cell Pressure, psf		2304.0
Fail. Stress, psf		1383.7
Strain, %		6.1
Ult. Stress, psf		1383.7
Strain, %		6.1
σ_1 Failure, psf		3687.7
σ_3 Failure, psf		2304.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: ELASTIC SILT with SAND(MH A-7-5(83))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

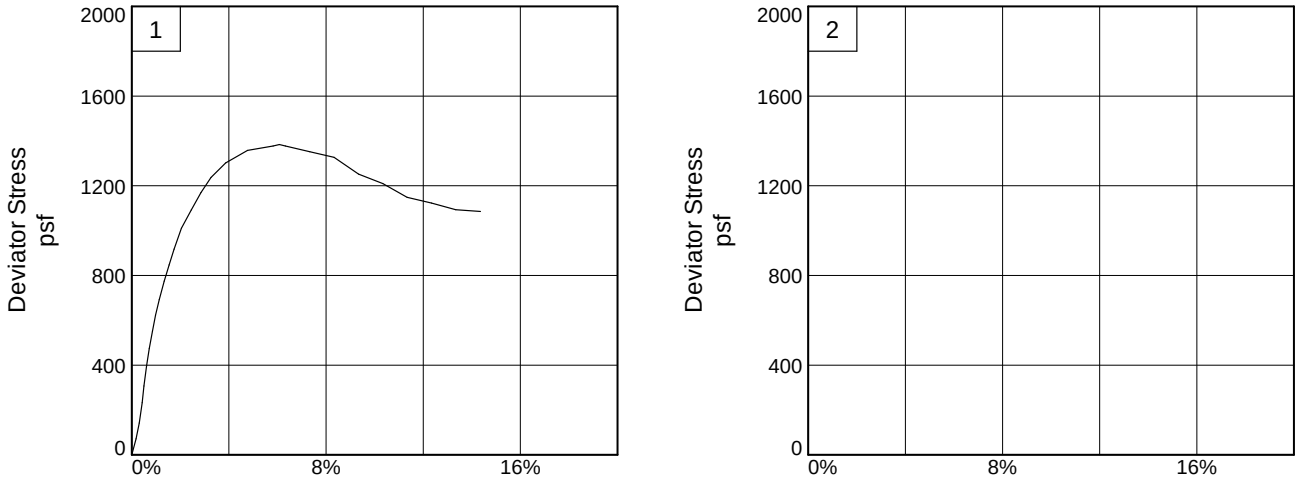
Project: Mobile River Bridge

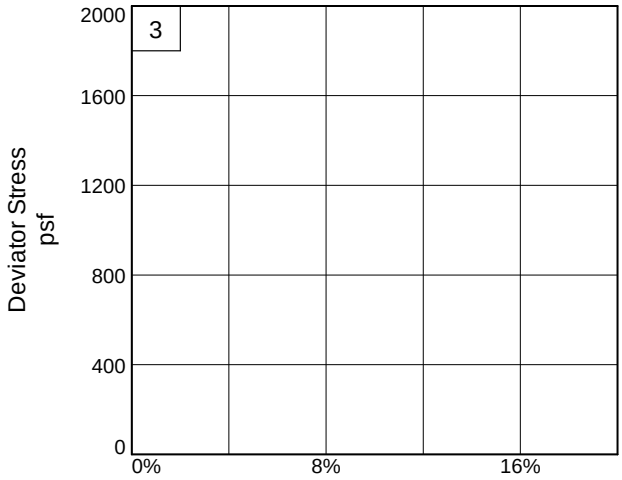
Source of Sample: Lab #7800 **Depth:** 48.5'-50.5'

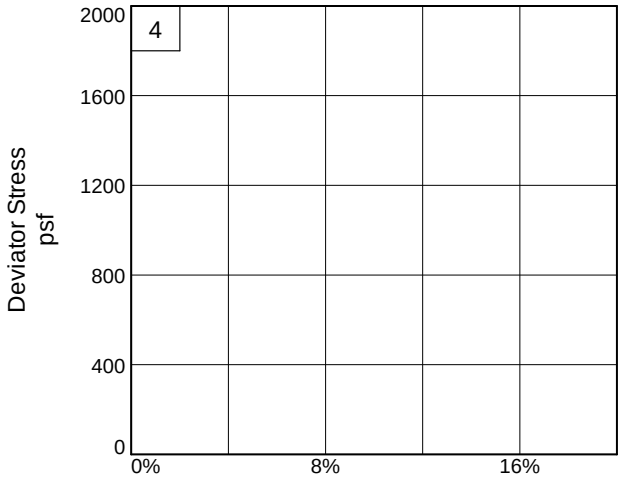
Sample Number: BW-59 T-4

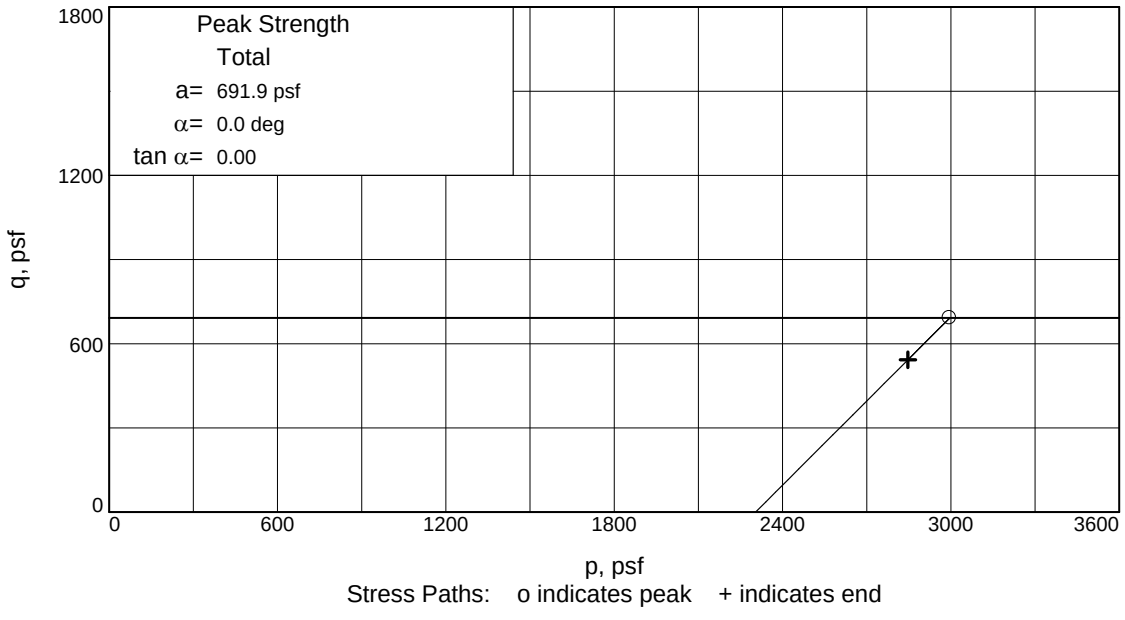
Proj. No.: 1511010228 **Date Sampled:**

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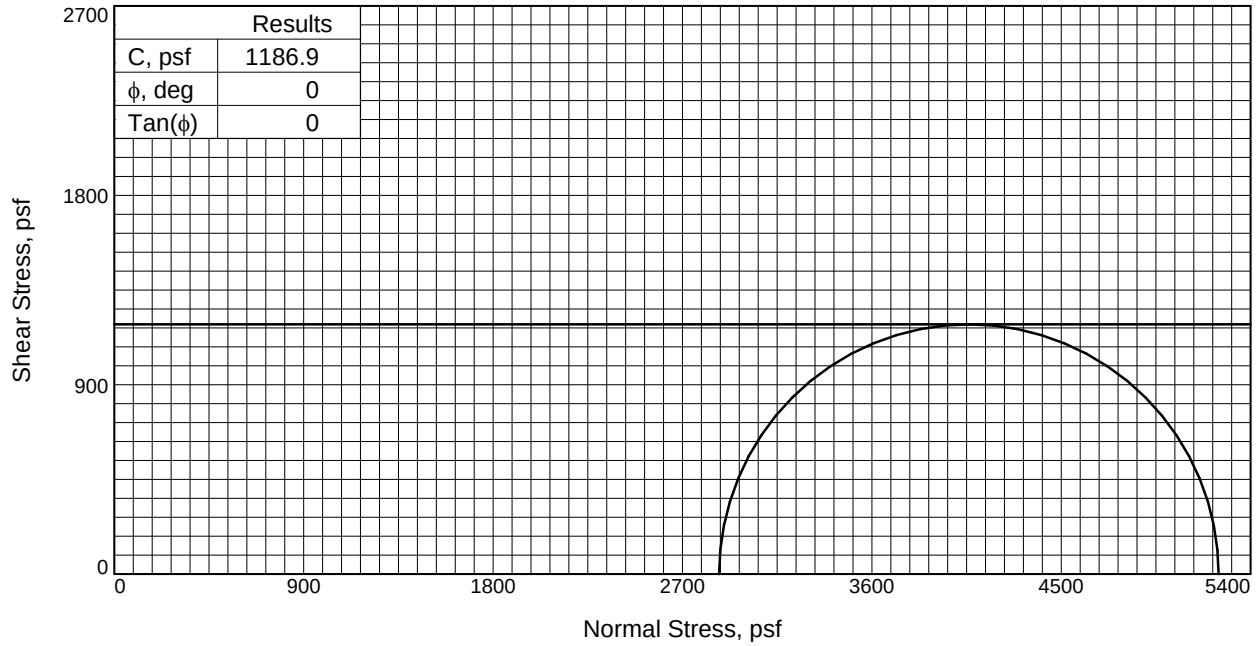


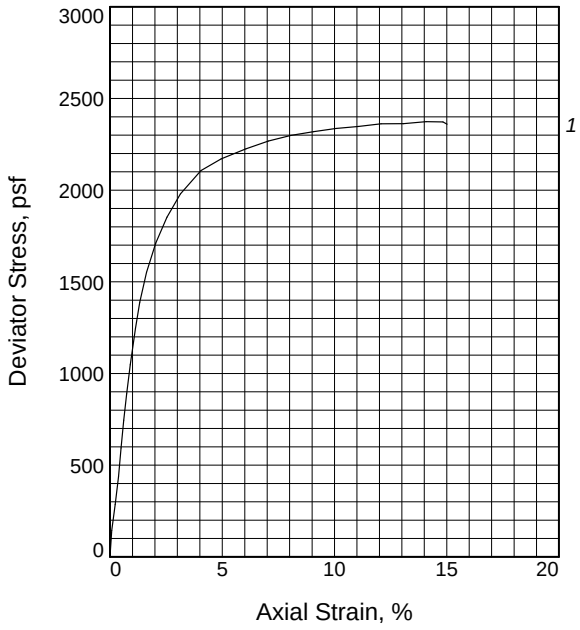




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 48.5'-50.5' **Sample Number:** BW-59 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	34.0
	Dry Density, pcf	89.4
	Saturation, %	105.4
	Void Ratio	0.8576
	Diameter, in.	2.852
	Height, in.	5.571
At Test	Water Content, %	33.7
	Dry Density, pcf	89.4
	Saturation, %	104.5
	Void Ratio	0.8576
	Diameter, in.	2.852
	Height, in.	5.571
Strain at peak, %		14.1
Back Pressure, psf		0.0
Cell Pressure, psf		2874.2
Fail. Stress, psf		2373.8
Strain, %		14.1
Ult. Stress, psf		2373.8
Strain, %		14.1
σ_1 Failure, psf		5248.0
σ_3 Failure, psf		2874.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(44))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

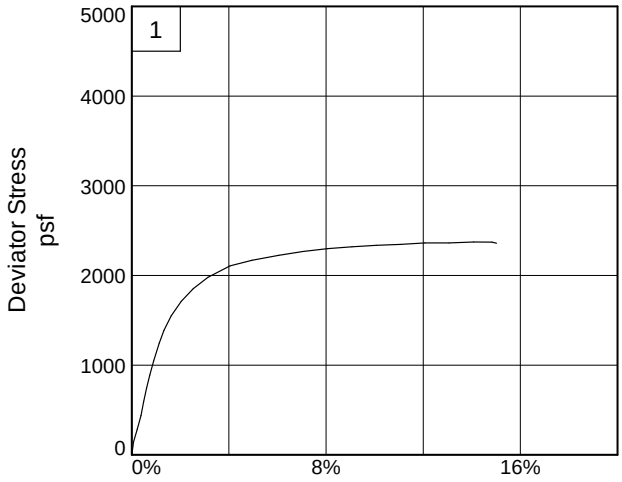
Project: Mobile River Bridge

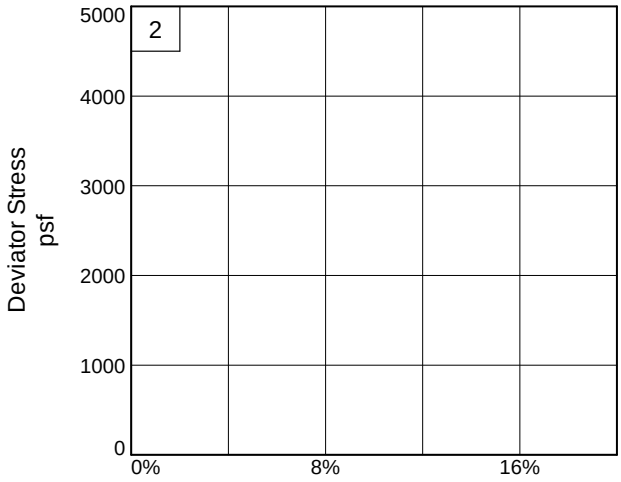
Source of Sample: Lab #7800 **Depth:** 58.5'-60.5'

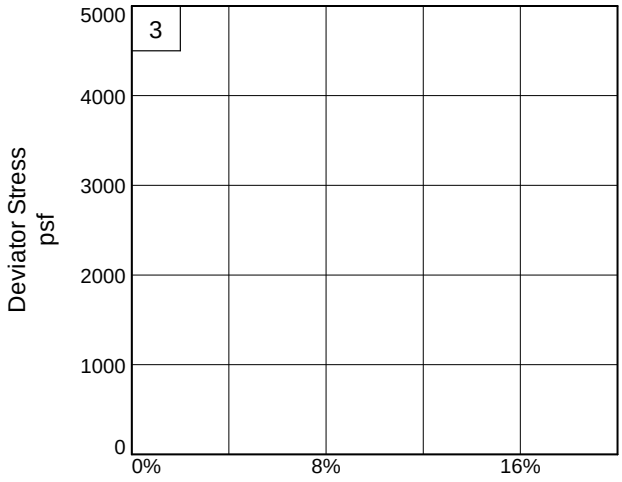
Sample Number: BW-59 T-5

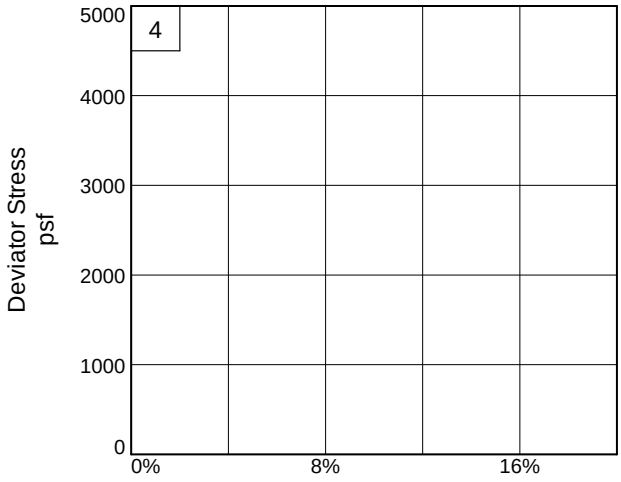
Proj. No.: 1511010228 **Date Sampled:**

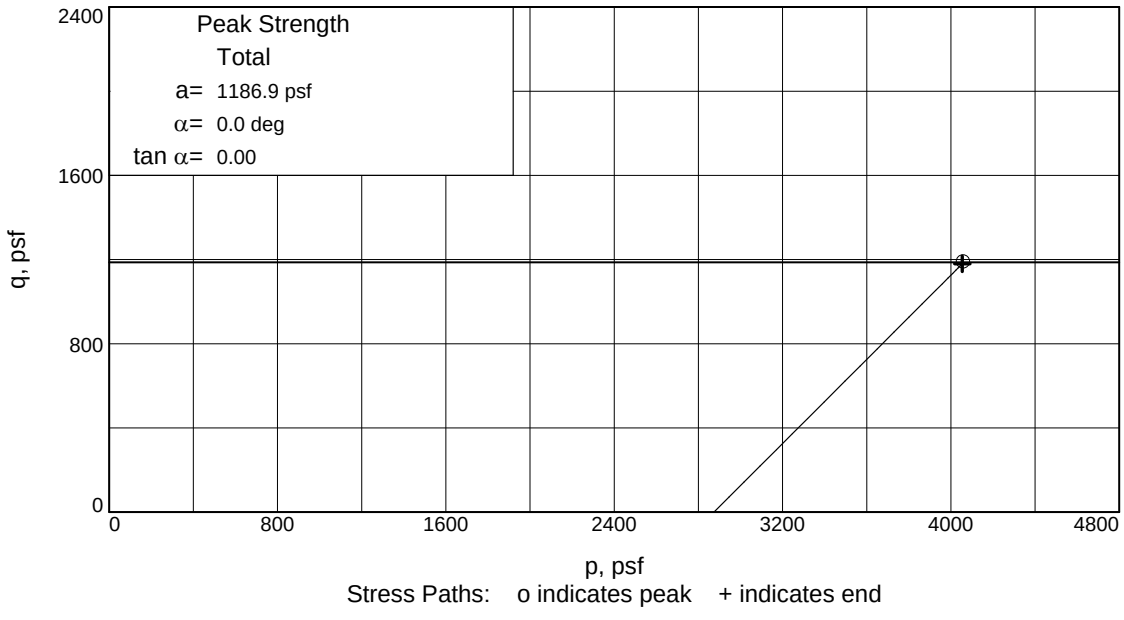
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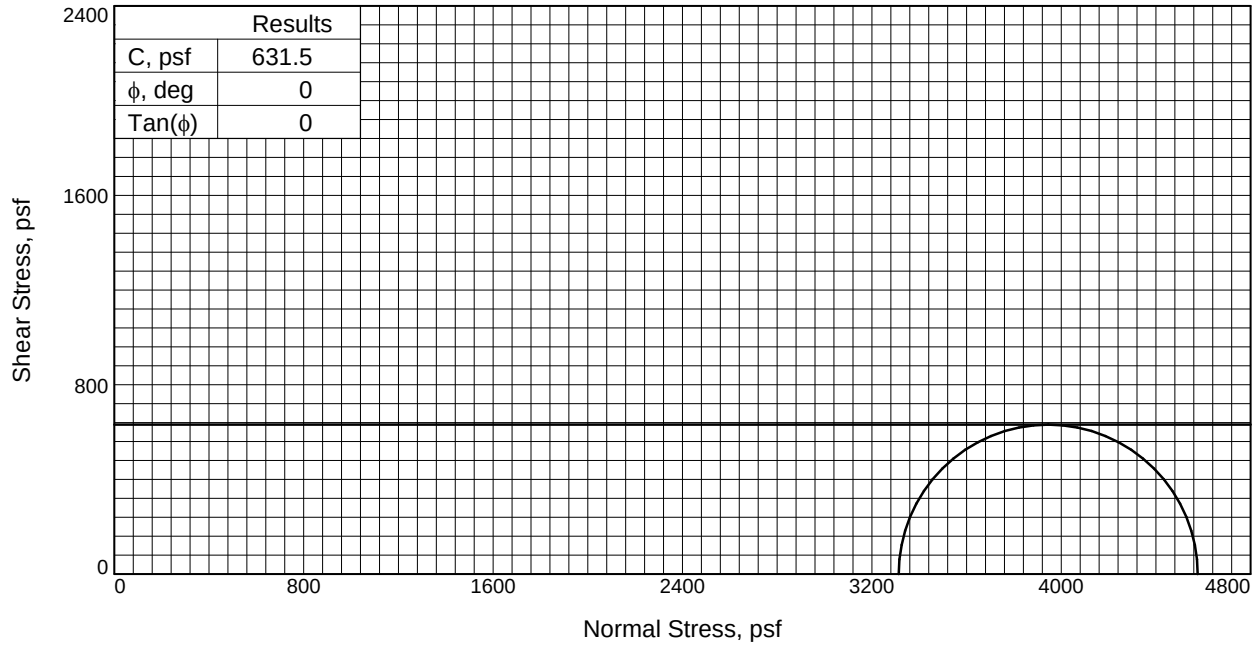


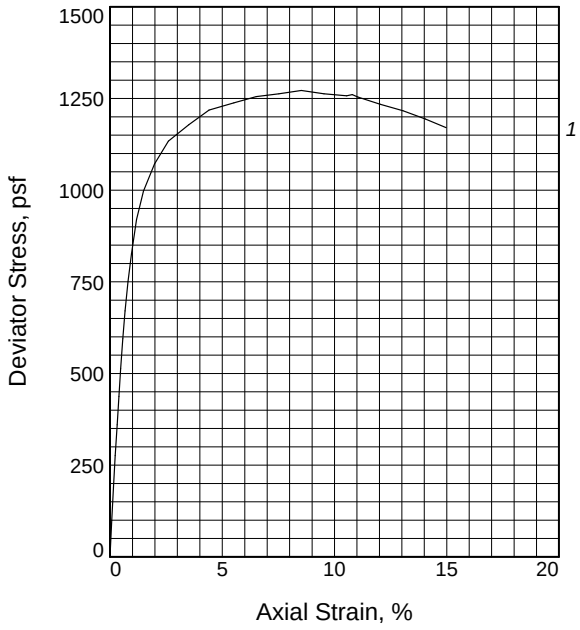




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 58.5'-60.5' **Sample Number:** BW-59 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.6
	Dry Density, pcf	84.0
	Saturation, %	105.2
	Void Ratio	0.9776
	Diameter, in.	2.829
	Height, in.	5.684
At Test	Water Content, %	40.0
	Dry Density, pcf	84.0
	Saturation, %	108.8
	Void Ratio	0.9776
	Diameter, in.	2.829
	Height, in.	5.684
Strain at peak, %		9.5
Back Pressure, psf		0.0
Cell Pressure, psf		3313.4
Fail. Stress, psf		1262.9
Strain, %		9.5
Ult. Stress, psf		1262.9
Strain, %		9.5
σ_1 Failure, psf		4576.4
σ_3 Failure, psf		3313.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(41))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

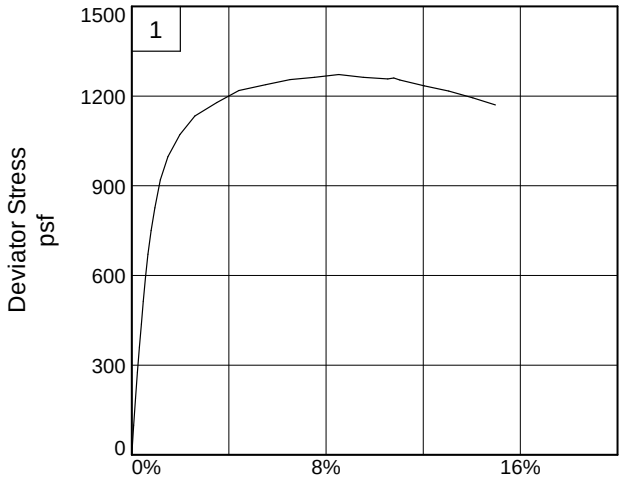
Project: Mobile River Bridge

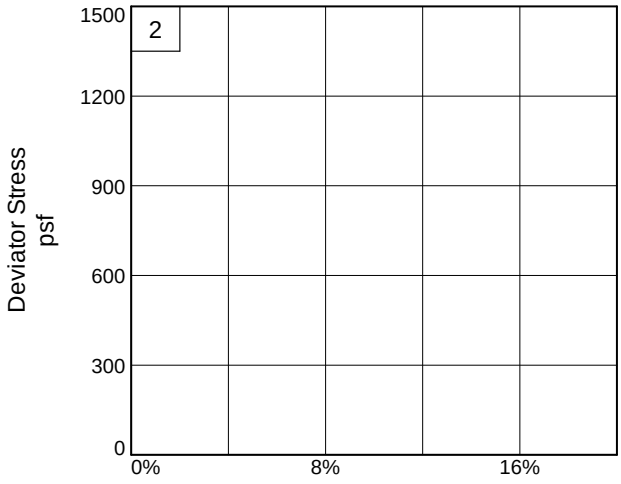
Source of Sample: Lab #7800 **Depth:** 68.5'-70.5'

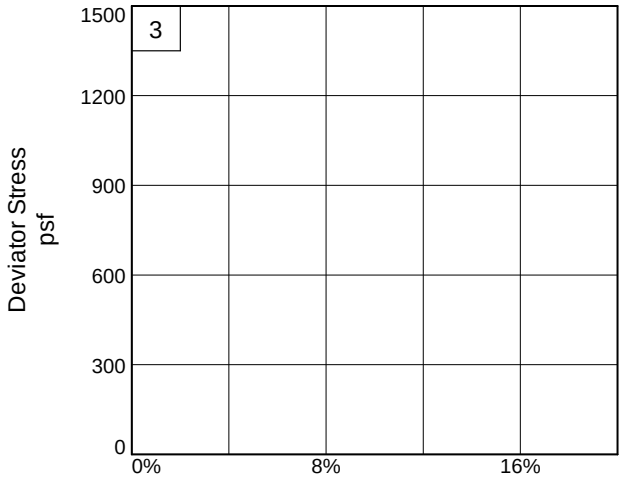
Sample Number: BW-59 T-6

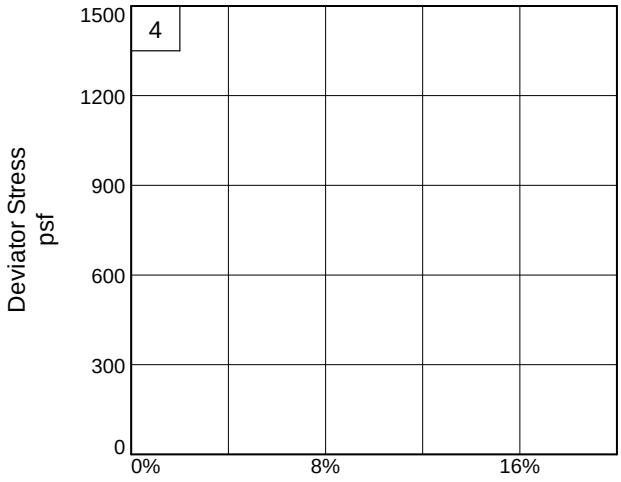
Proj. No.: 1511010228 **Date Sampled:**

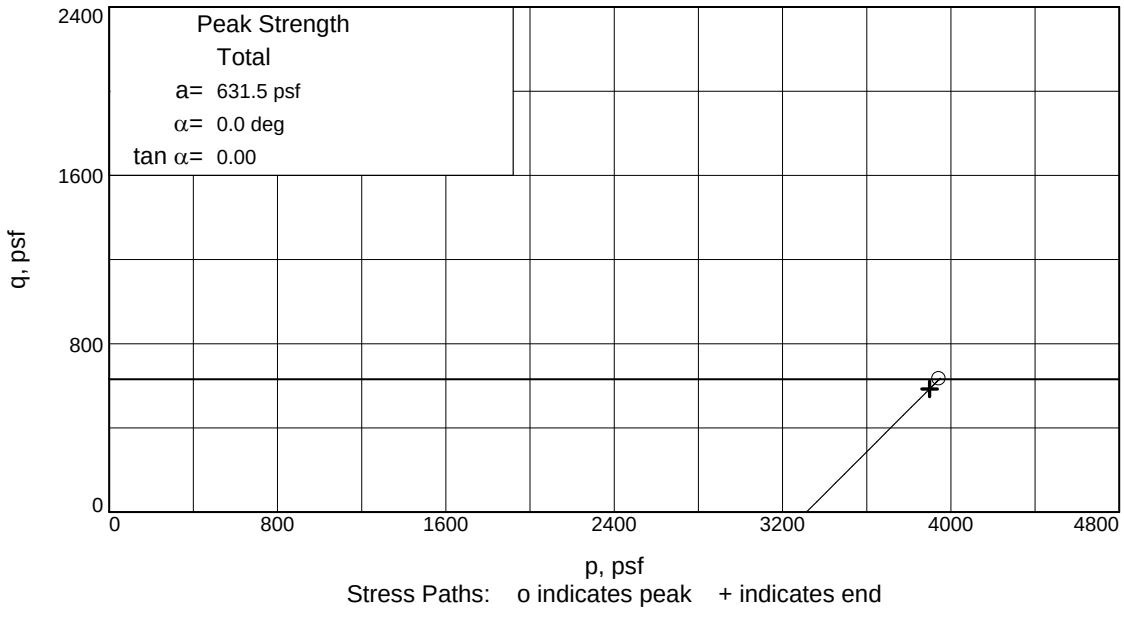
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Thompson Engineering
Mobile, Alabama





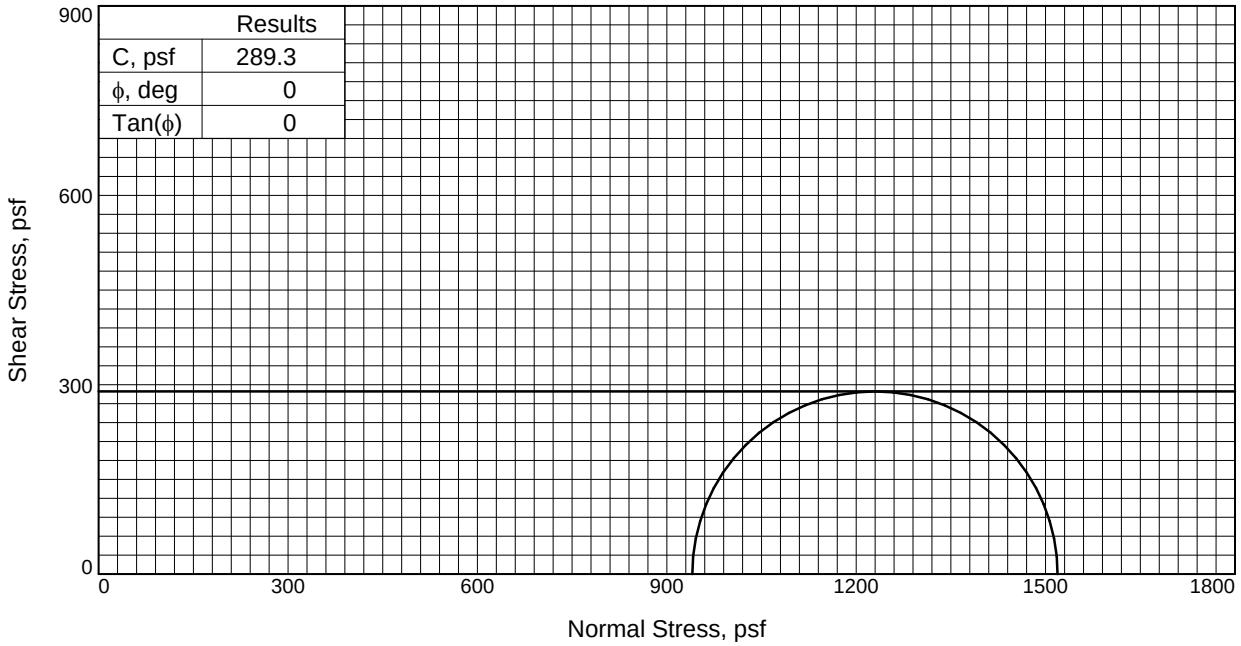


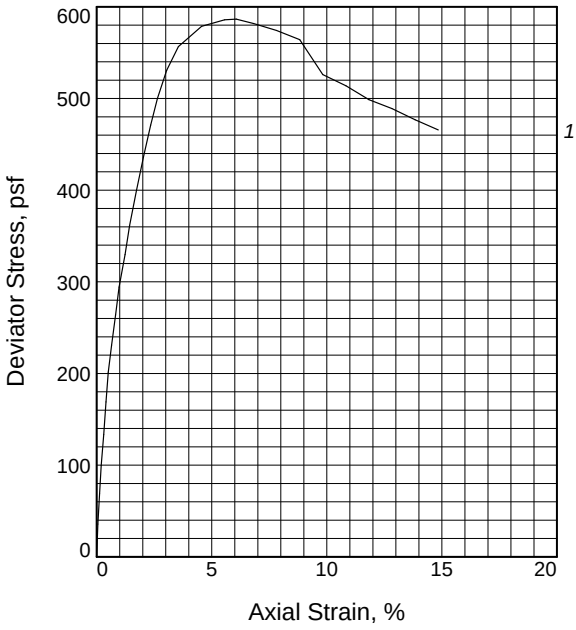




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 68.5'-70.5' **Sample Number:** BW-59 T-6
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	56.1
	Dry Density, pcf	69.1
	Saturation, %	106.3
	Void Ratio	1.4039
	Diameter, in.	2.783
	Height, in.	5.298
At Test	Water Content, %	56.0
	Dry Density, pcf	69.1
	Saturation, %	106.1
	Void Ratio	1.4039
	Diameter, in.	2.783
	Height, in.	5.298
Strain at peak, %		4.6
Back Pressure, psf		0.0
Cell Pressure, psf		940.3
Fail. Stress, psf		578.7
Strain, %		4.6
Ult. Stress, psf		578.7
Strain, %		4.6
σ_1 Failure, psf		1519.0
σ_3 Failure, psf		940.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(42))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

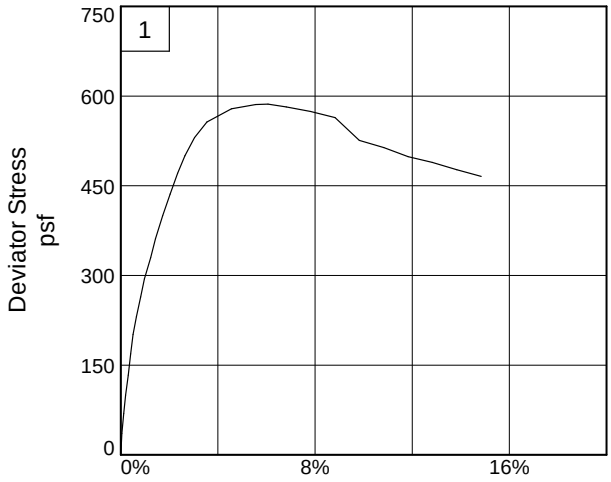
Project: Mobile River Bridge

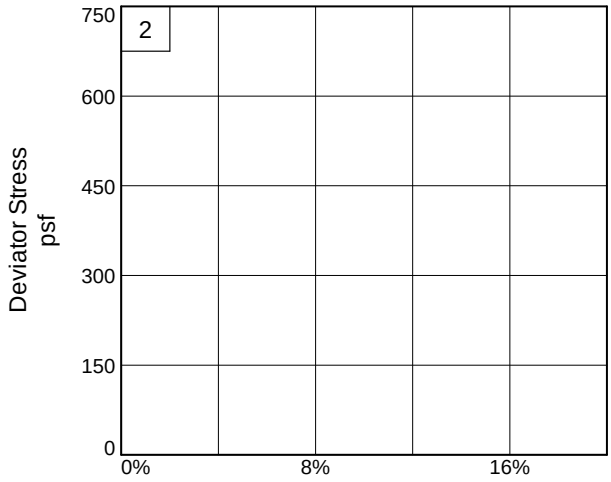
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5'

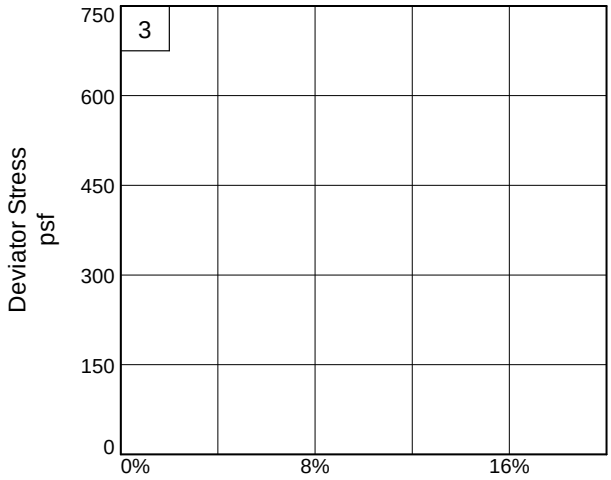
Sample Number: BW-60 T-1

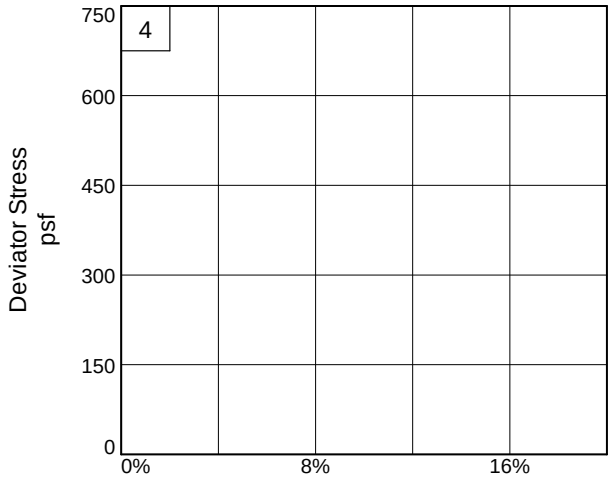
Proj. No.: 1511010228 **Date Sampled:**

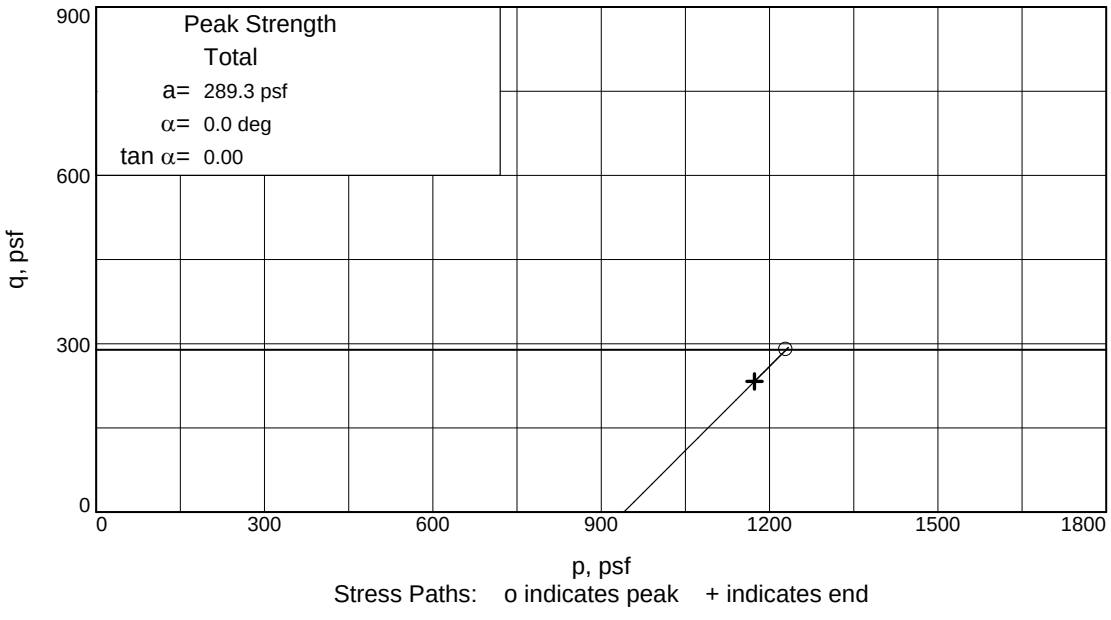
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Thompson Engineering
Mobile, Alabama





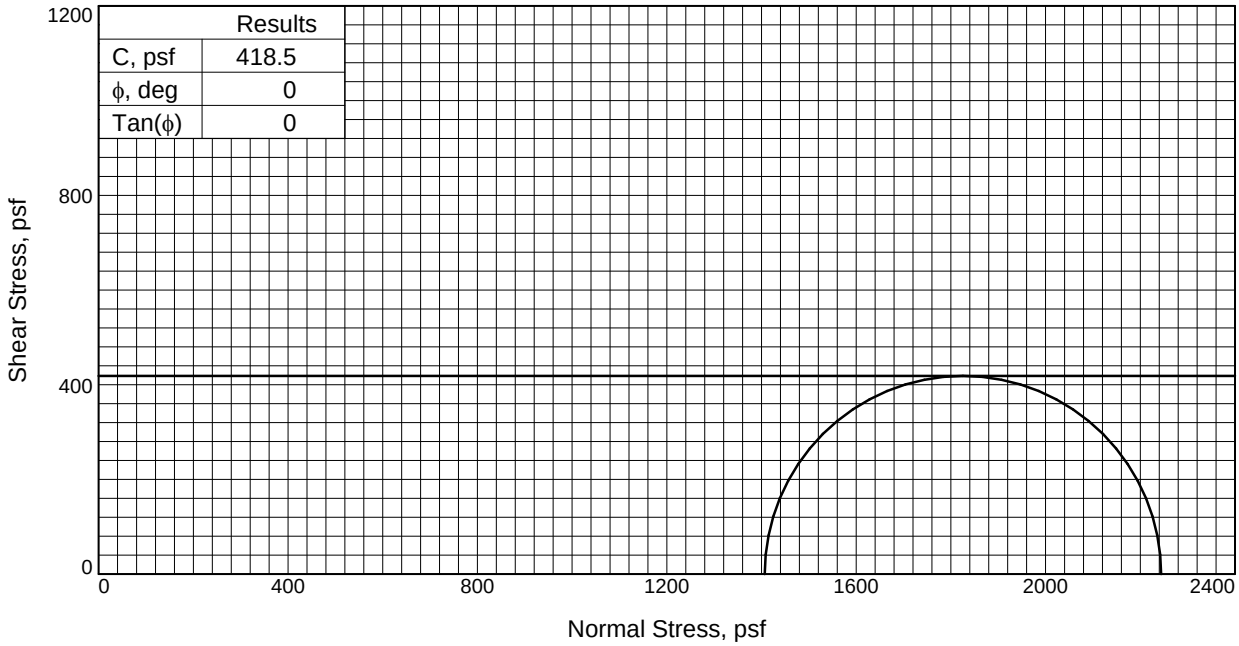


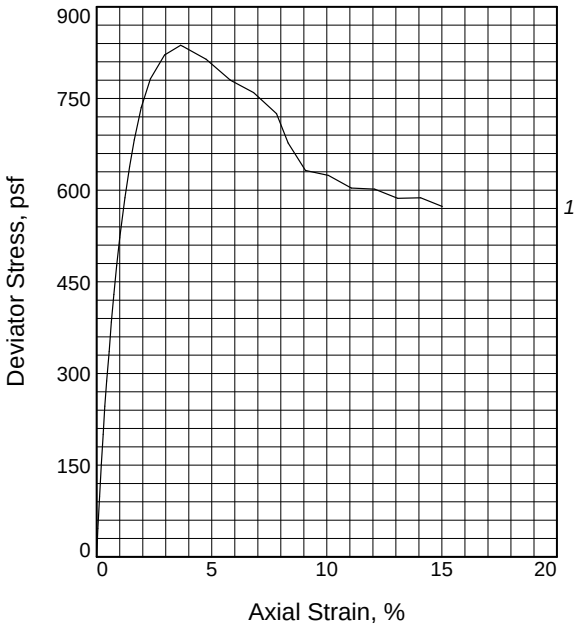




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 18.5'-20.5' **Sample Number:** BW-60 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	66.0
	Dry Density, pcf	61.3
	Saturation, %	102.8
	Void Ratio	1.7085
	Diameter, in.	2.805
	Height, in.	5.429
At Test	Water Content, %	68.4
	Dry Density, pcf	61.3
	Saturation, %	106.4
	Void Ratio	1.7085
	Diameter, in.	2.805
	Height, in.	5.429
Strain at peak, %		3.6
Back Pressure, psf		0.0
Cell Pressure, psf		1406.9
Fail. Stress, psf		837.1
Strain, %		3.6
Ult. Stress, psf		837.1
Strain, %		3.6
σ_1 Failure, psf		2243.9
σ_3 Failure, psf		1406.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(68))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

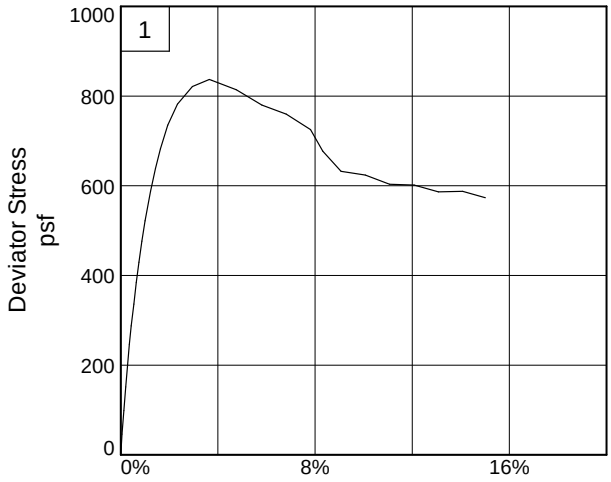
Project: Mobile River Bridge

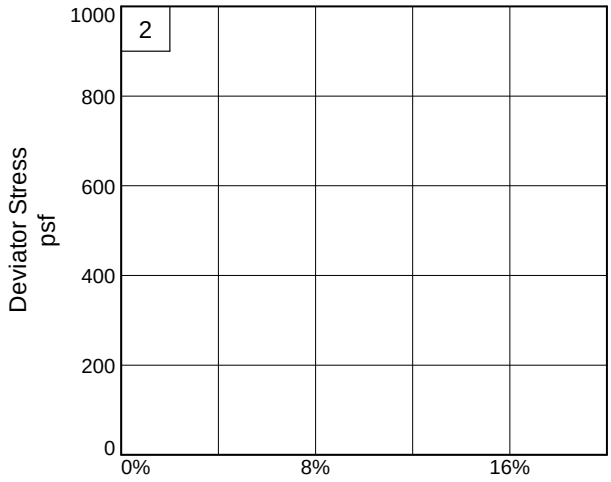
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5'

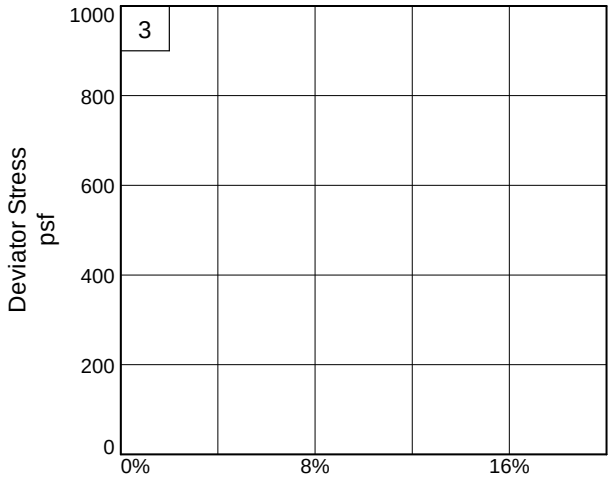
Sample Number: BW-60 T-2

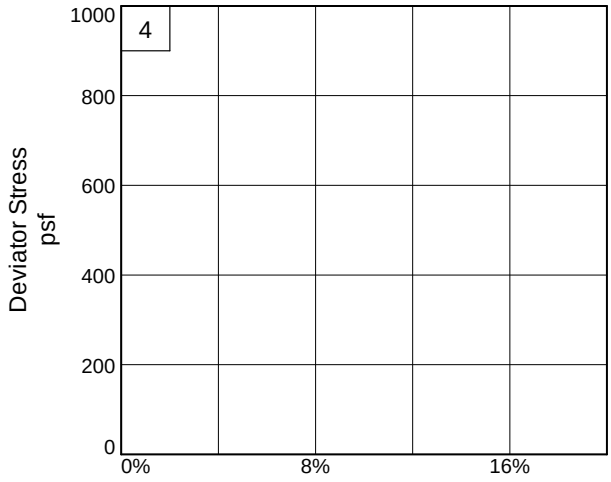
Proj. No.: 1511010228 **Date Sampled:**

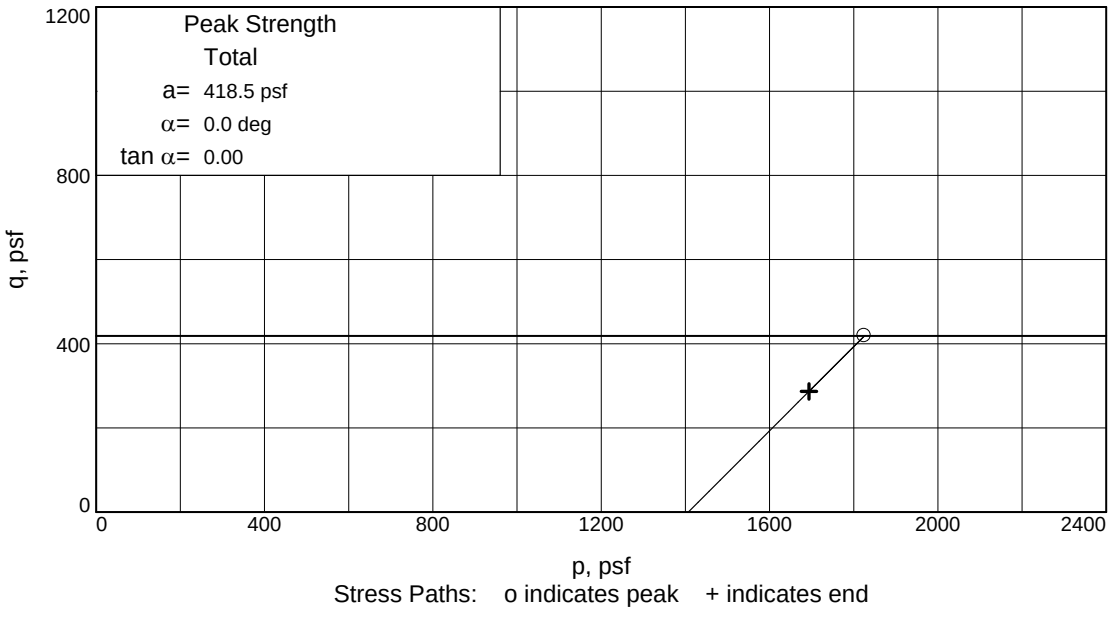
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Mobile, Alabama





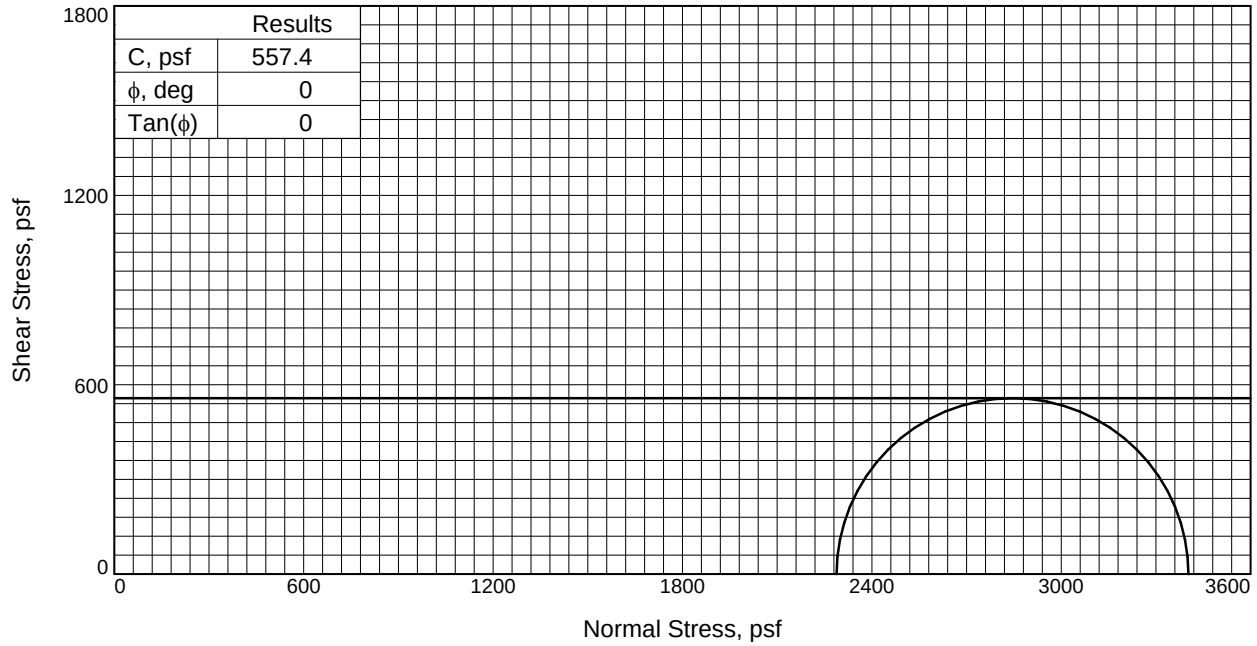


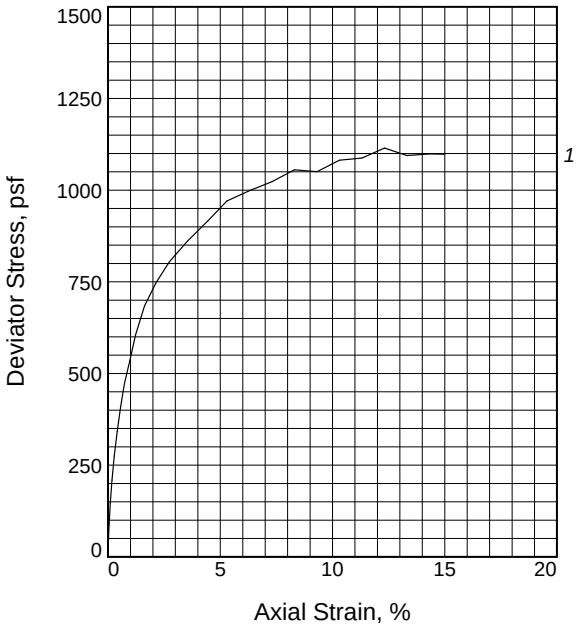




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 28.5'-30.5' **Sample Number:** BW-60 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	31.7
	Dry Density, pcf	91.9
	Saturation, %	104.4
	Void Ratio	0.8078
	Diameter, in.	2.836
	Height, in.	5.540
At Test	Water Content, %	30.7
	Dry Density, pcf	91.9
	Saturation, %	101.0
	Void Ratio	0.8078
	Diameter, in.	2.836
	Height, in.	5.540
Strain at peak, %		12.3
Back Pressure, psf		0.0
Cell Pressure, psf		2288.2
Fail. Stress, psf		1114.8
Strain, %		12.3
Ult. Stress, psf		1114.8
Strain, %		12.3
σ_1 Failure, psf		3402.9
σ_3 Failure, psf		2288.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(23))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

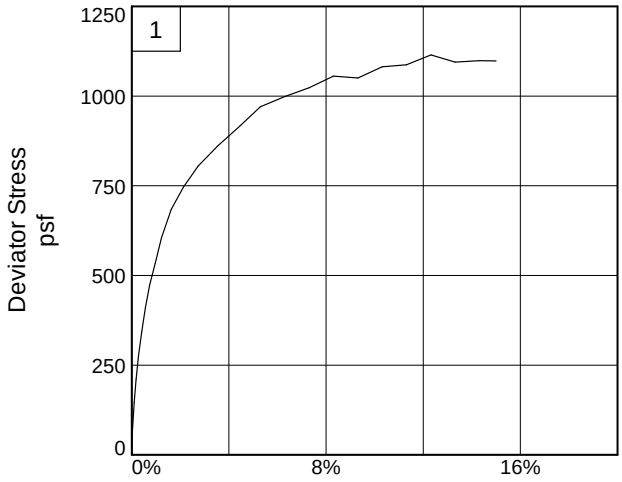
Project: Mobile River Bridge

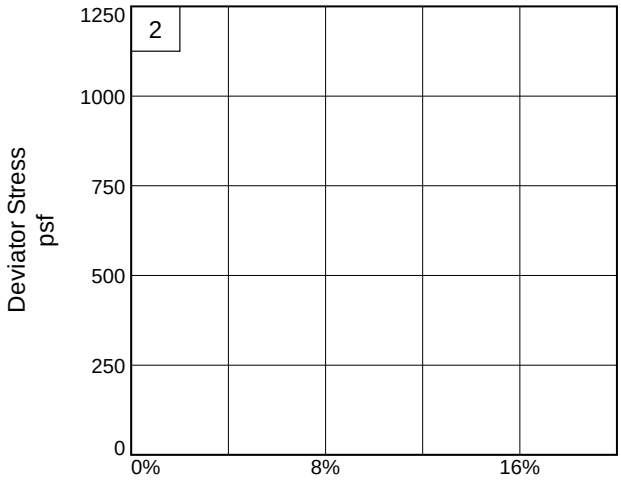
Source of Sample: Lab #7800 **Depth:** 48.5'-50.5'

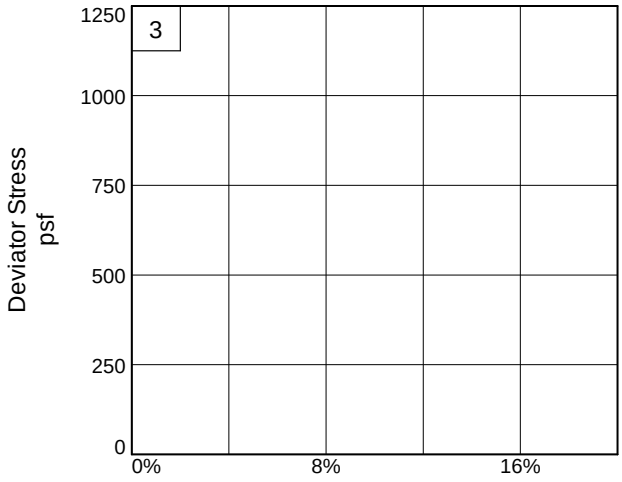
Sample Number: BW-60 T-4

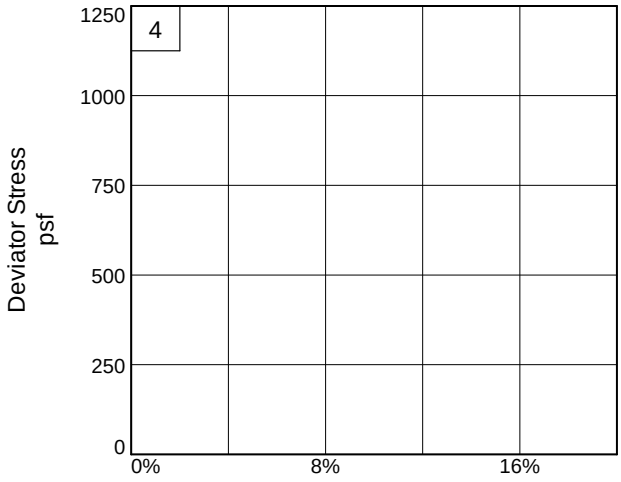
Proj. No.: 1511010228 **Date Sampled:**

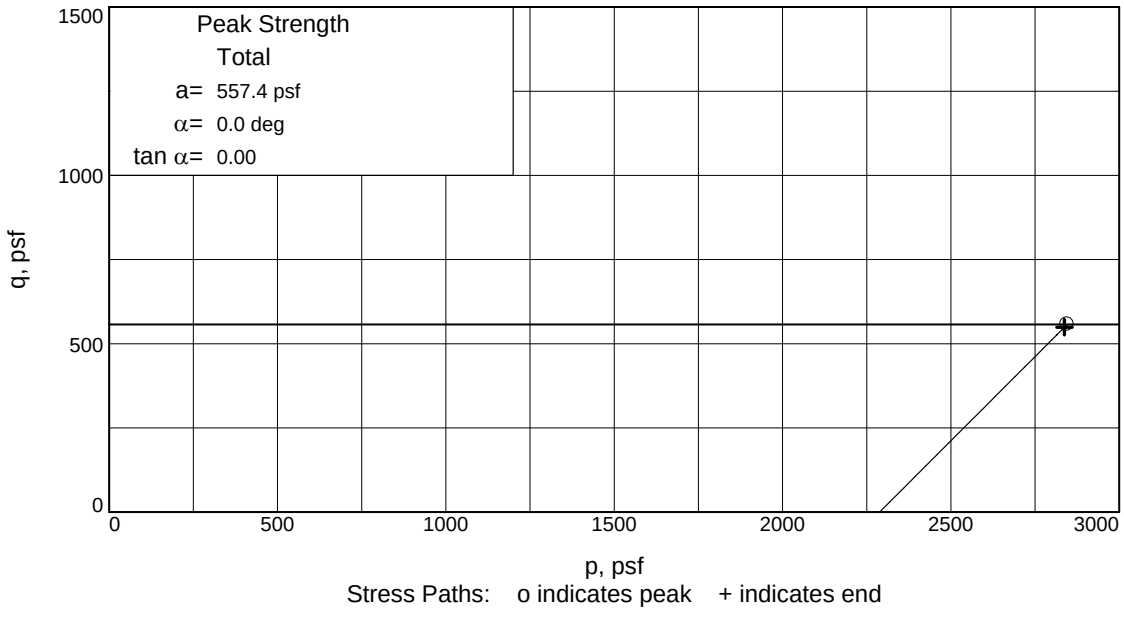
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Mobile, Alabama





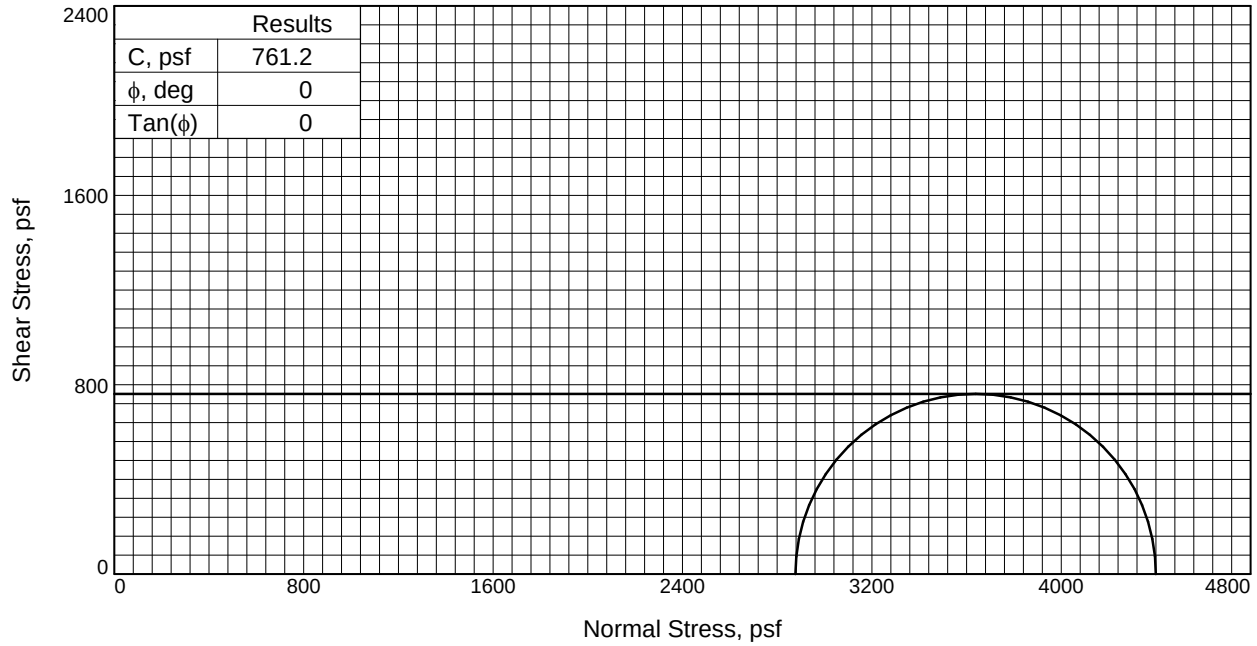


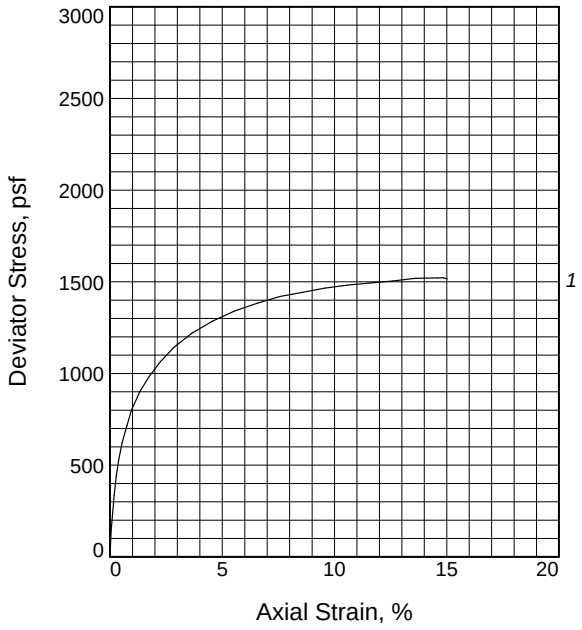




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7800 **Depth:** 48.5'-50.5' **Sample Number:** BW-60 T-4
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	38.8
	Dry Density, pcf	85.4
	Saturation, %	109.3
	Void Ratio	0.9442
	Diameter, in.	2.826
	Height, in.	5.563
At Test	Water Content, %	32.0
	Dry Density, pcf	85.4
	Saturation, %	90.2
	Void Ratio	0.9442
	Diameter, in.	2.826
	Height, in.	5.563
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2877.1
Fail. Stress, psf		1522.3
Strain, %		14.8
Ult. Stress, psf		1522.3
Strain, %		14.8
σ_1 Failure, psf		4399.4
σ_3 Failure, psf		2877.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(73))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

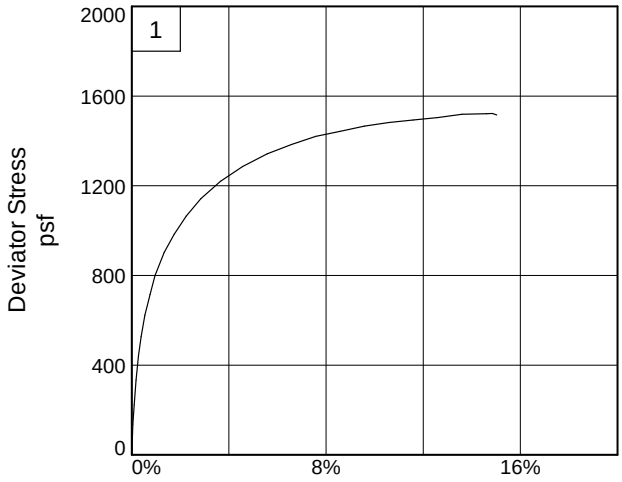
Project: Mobile River Bridge

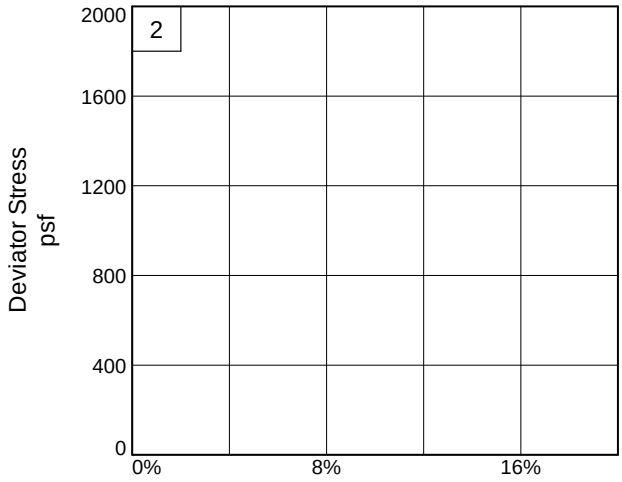
Source of Sample: Lab #7800 **Depth:** 58.5'-60.5'

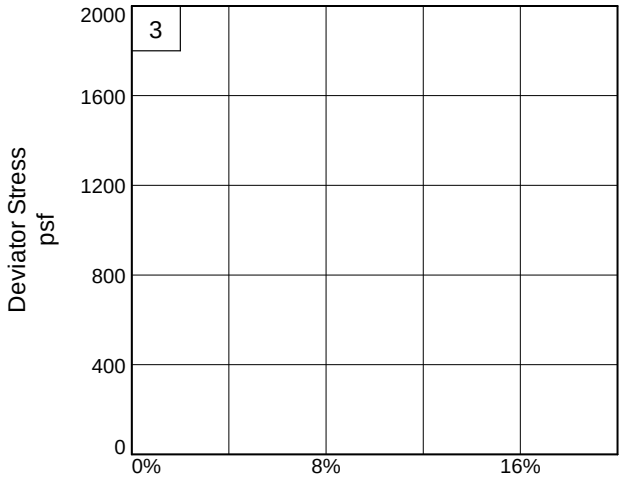
Sample Number: BW-61 T-4

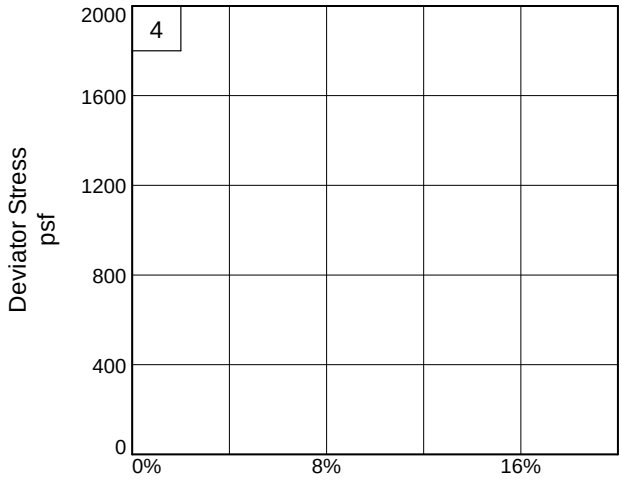
Proj. No.: 1511010228 **Date Sampled:**

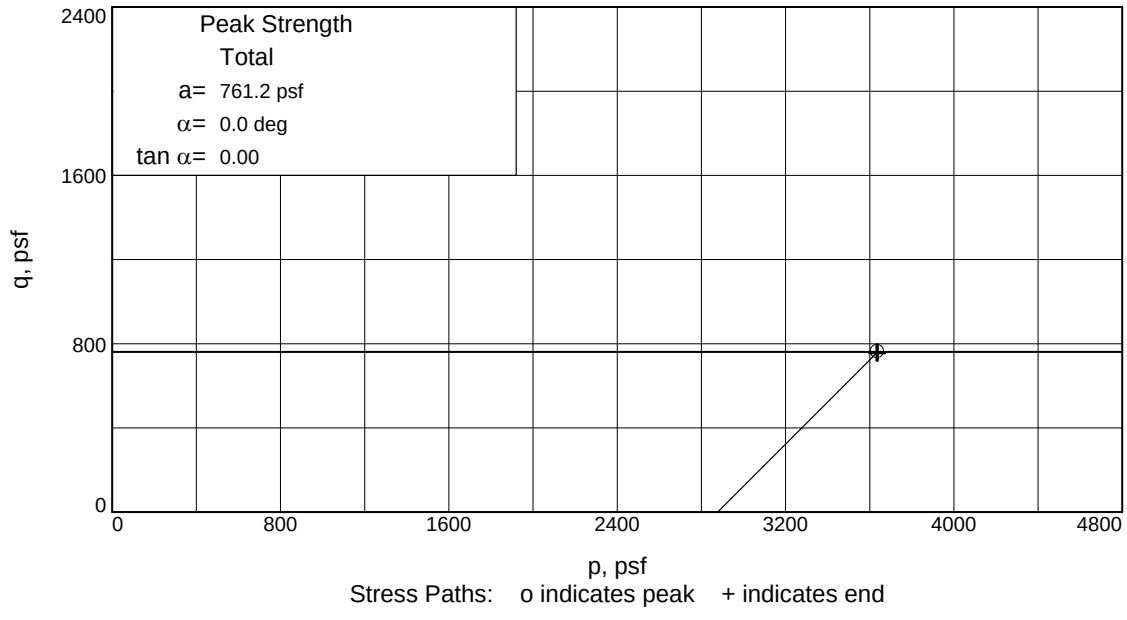
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

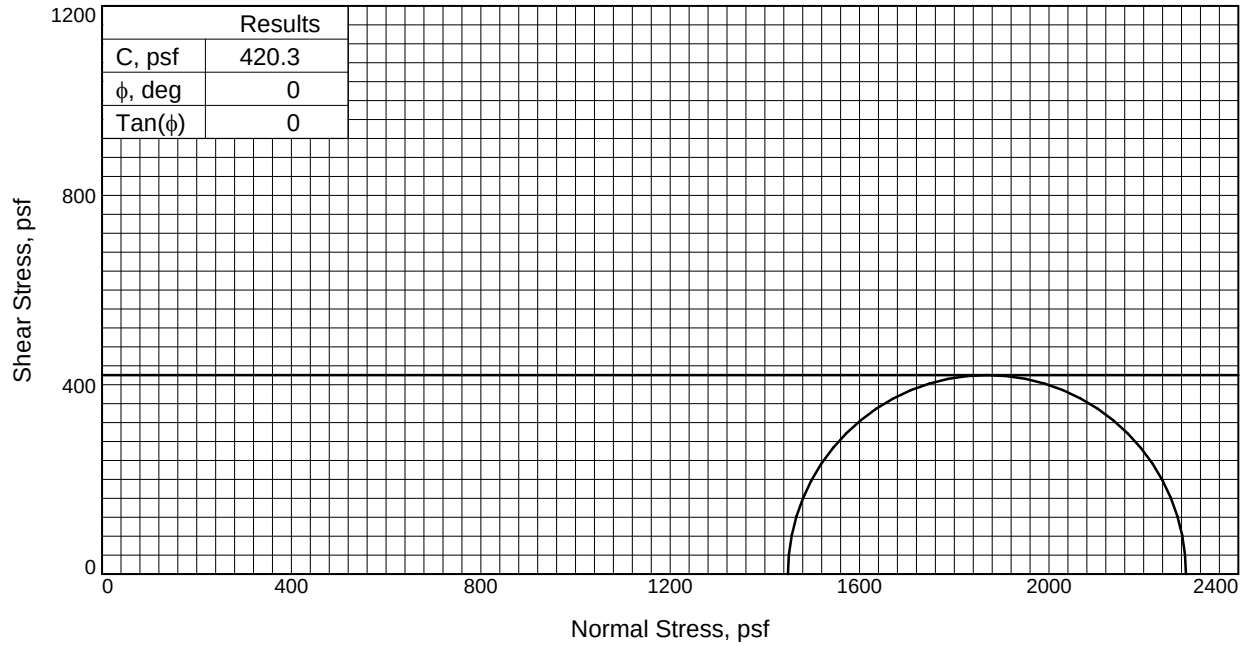
Client: ALDOT

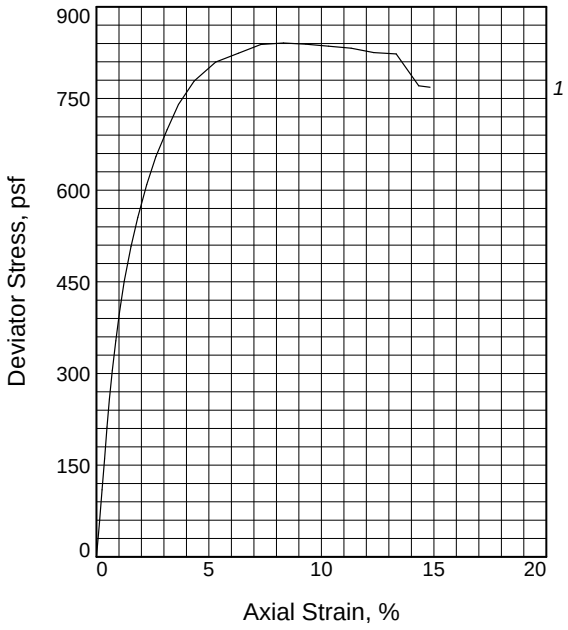
Project: Mobile River Bridge

Source of Sample: Lab #7800 **Depth:** 58.5'-60.5' **Sample Number:** BW-61 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	60.5
	Dry Density, pcf	66.7
	Saturation, %	108.0
	Void Ratio	1.4907
	Diameter, in.	2.783
	Height, in.	5.671
At Test	Water Content, %	58.1
	Dry Density, pcf	66.7
	Saturation, %	103.6
	Void Ratio	1.4907
	Diameter, in.	2.783
	Height, in.	5.671
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		1448.6
Fail. Stress, psf		840.7
Strain, %		8.3
Ult. Stress, psf		840.7
Strain, %		8.3
σ_1 Failure, psf		2289.3
σ_3 Failure, psf		1448.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(68))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

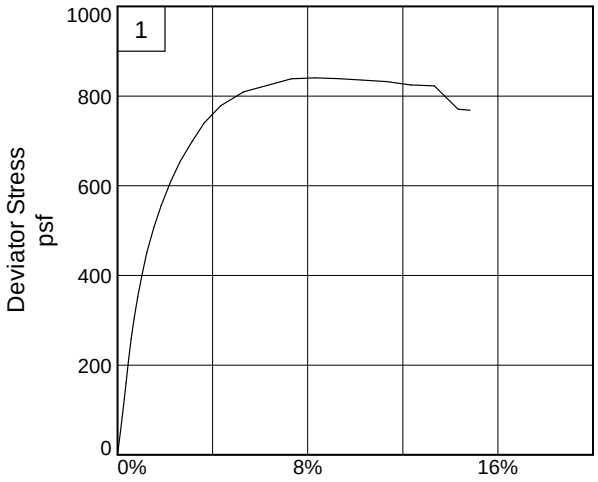
Project: Mobile River Bridge

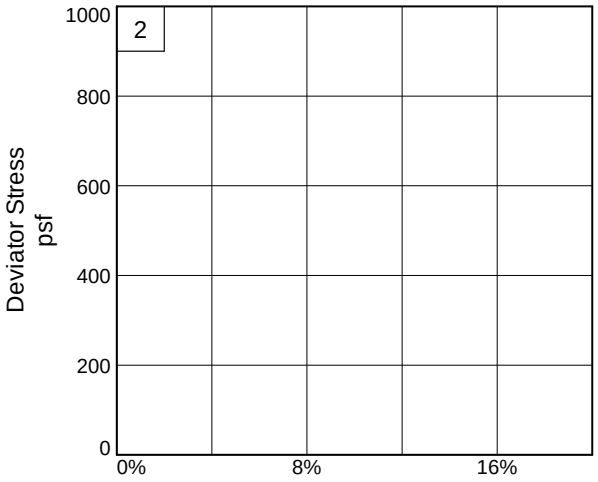
Source of Sample: Lab #7772 **Depth:** 28.5'-30.5'

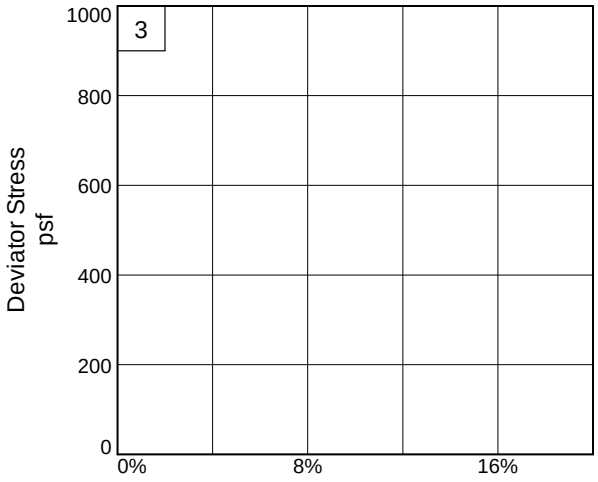
Sample Number: BW-62 T-1

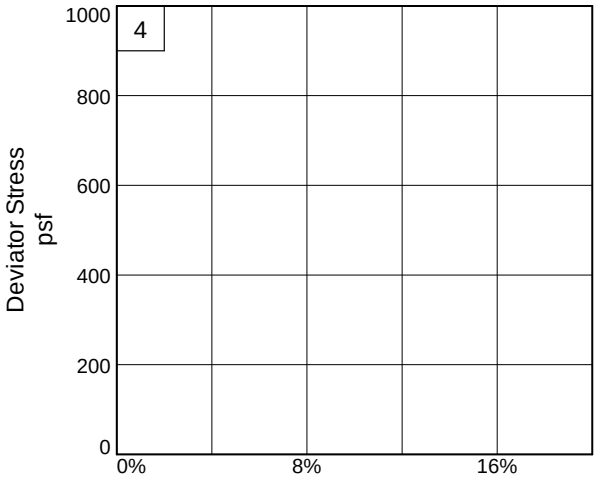
Proj. No.: 1511010228 **Date Sampled:**

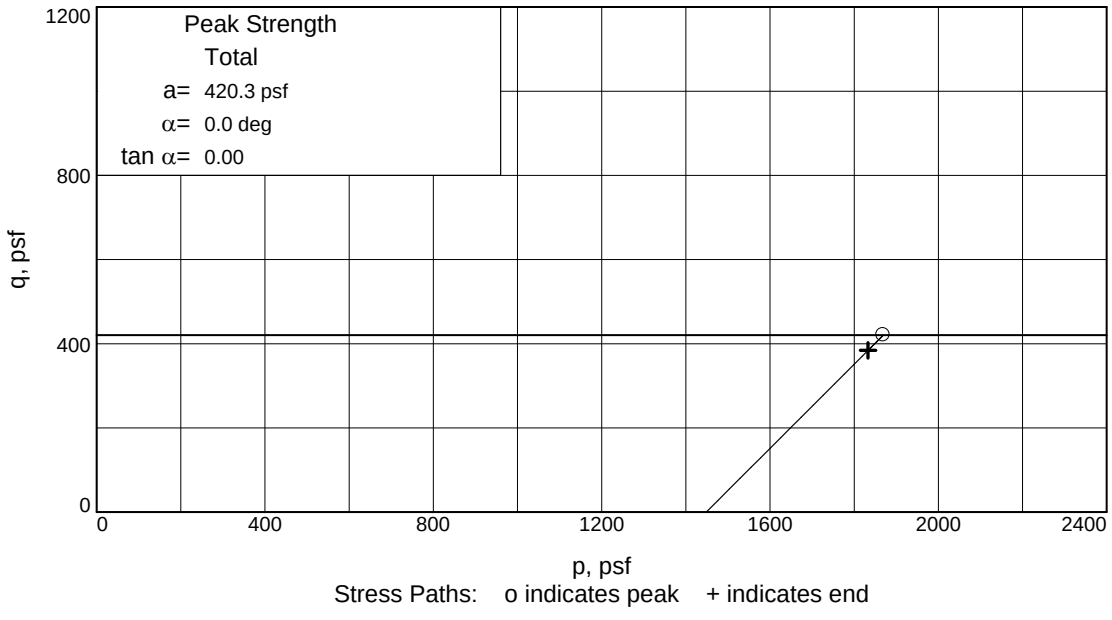
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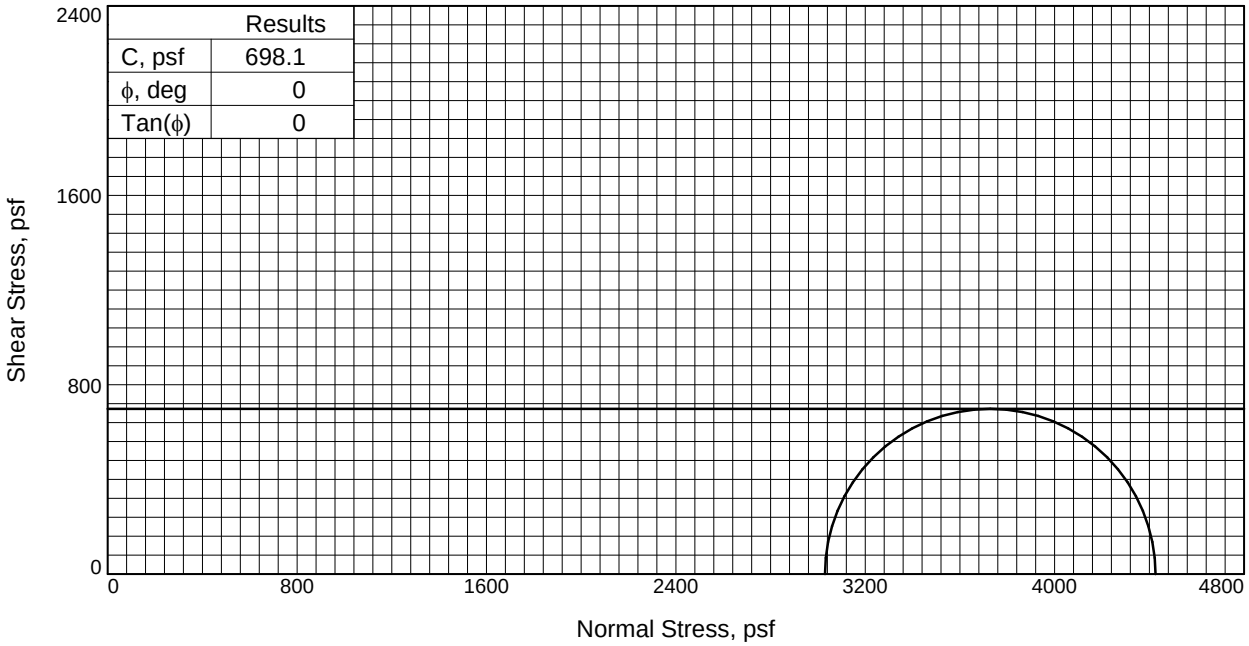


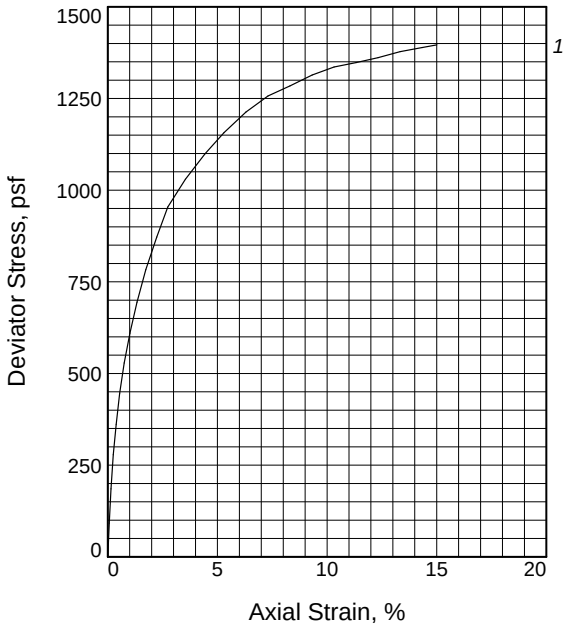




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 28.5'-30.5' **Sample Number:** BW-62 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	32.3
	Dry Density, pcf	93.7
	Saturation, %	111.4
	Void Ratio	0.7718
	Diameter, in.	2.776
	Height, in.	5.655
At Test	Water Content, %	31.1
	Dry Density, pcf	93.7
	Saturation, %	107.3
	Void Ratio	0.7718
	Diameter, in.	2.776
	Height, in.	5.655
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		3029.8
Fail. Stress, psf		1396.2
Strain, %		15.0
Ult. Stress, psf		1396.2
Strain, %		15.0
σ_1 Failure, psf		4425.9
σ_3 Failure, psf		3029.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(31))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

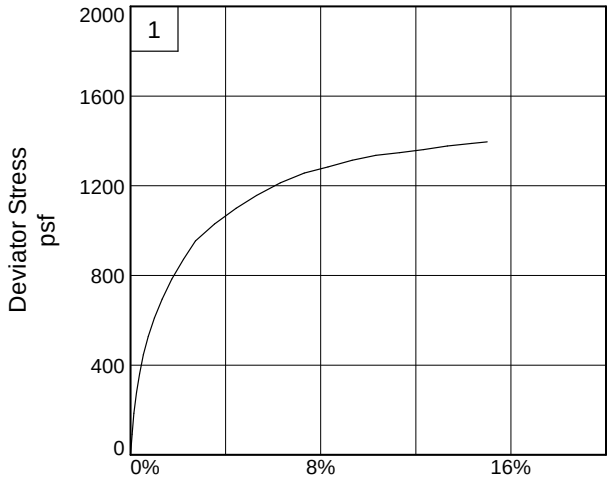
Project: Mobile River Bridge

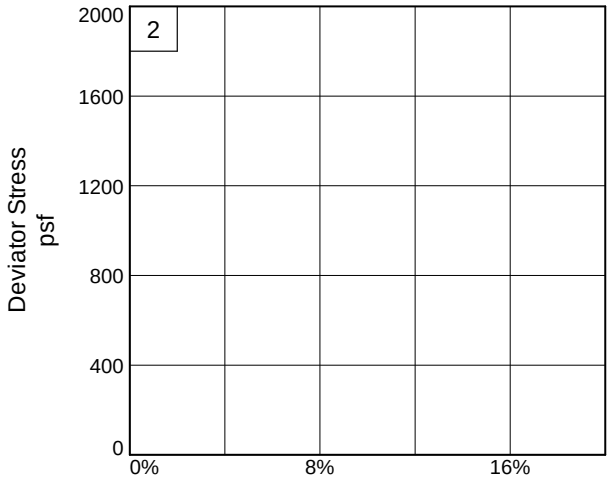
Source of Sample: Lab #7772 **Depth:** 58.5'-60.5'

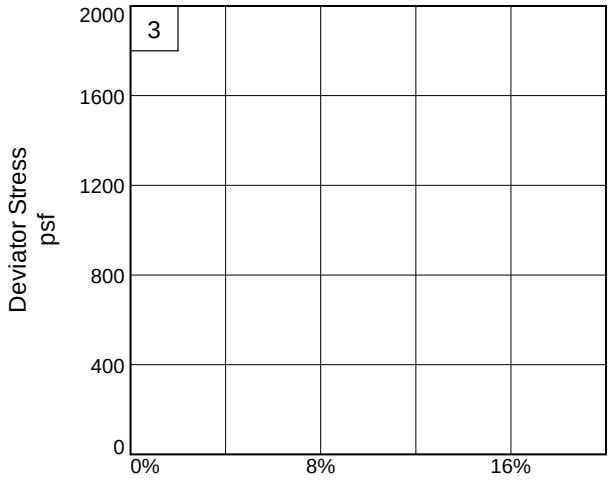
Sample Number: BW-62 T-3

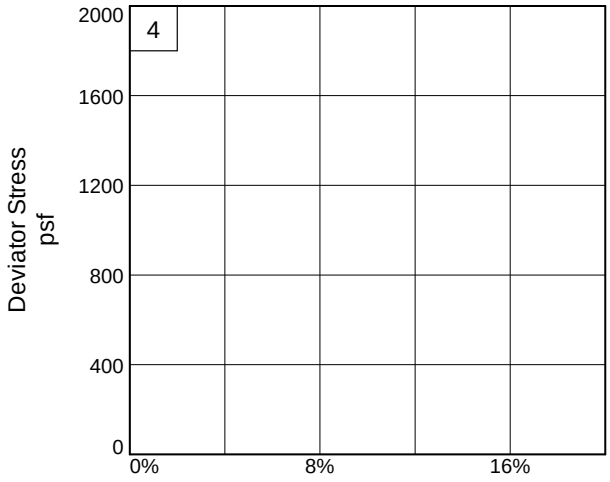
Proj. No.: 1511010228 **Date Sampled:**

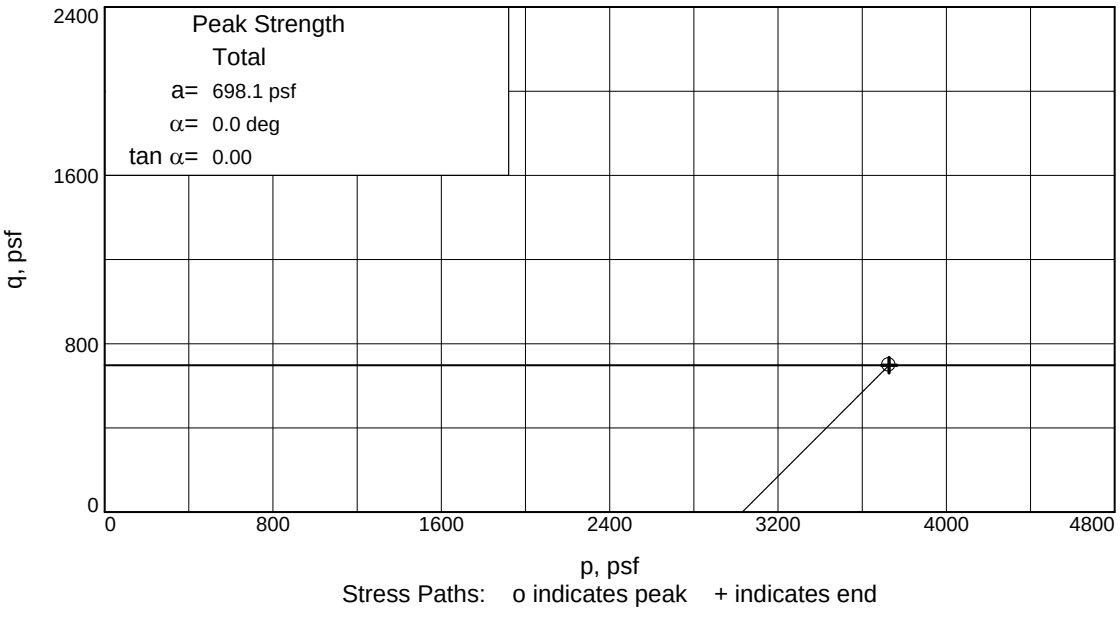
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Mobile, Alabama





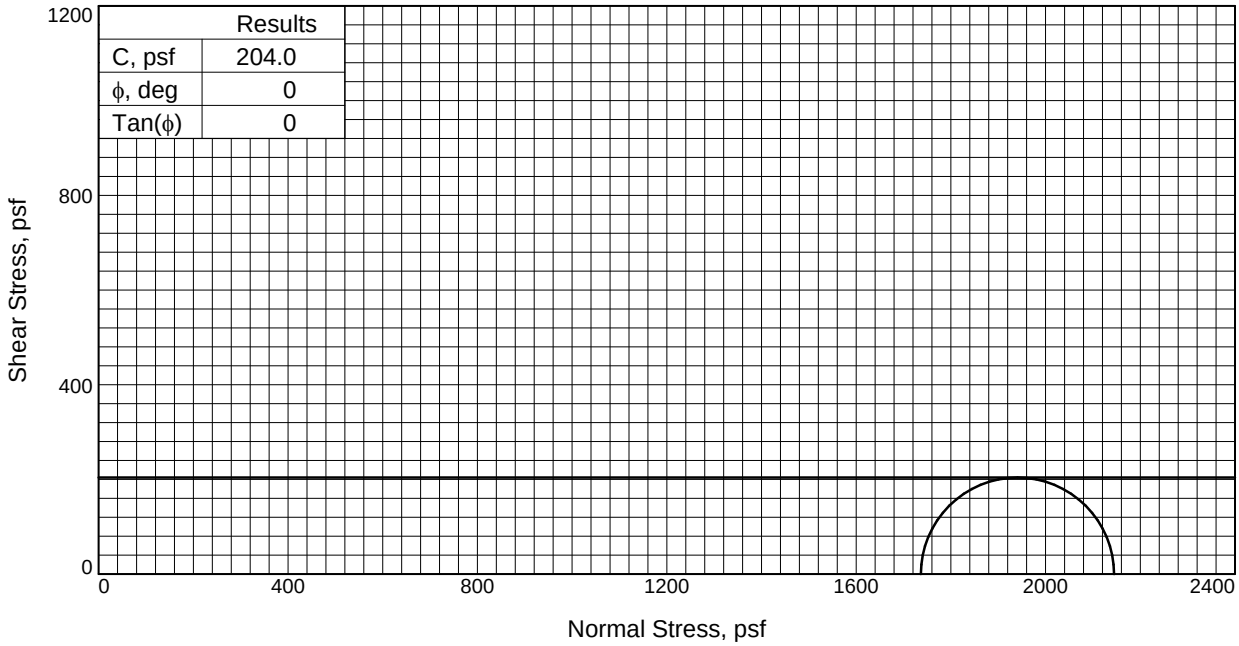


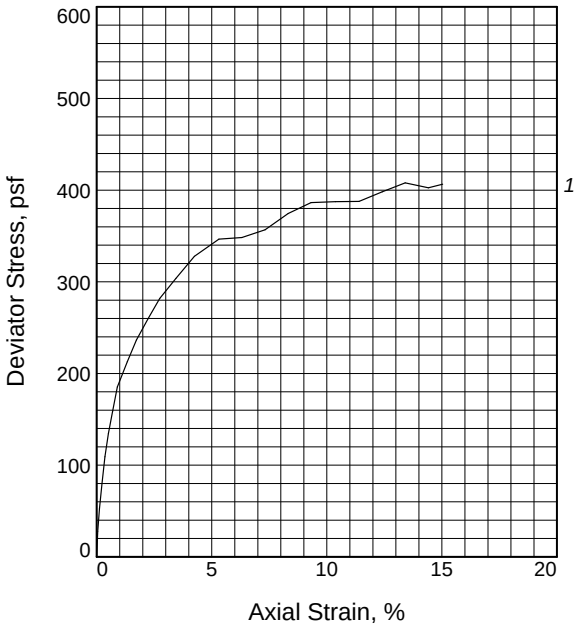




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 58.5'-60.5' **Sample Number:** BW-62 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	65.6
	Dry Density, pcf	61.5
	Saturation, %	102.7
	Void Ratio	1.6983
	Diameter, in.	2.742
	Height, in.	5.549
At Test	Water Content, %	68.1
	Dry Density, pcf	61.5
	Saturation, %	106.7
	Void Ratio	1.6983
	Diameter, in.	2.742
	Height, in.	5.549
Strain at peak, %		13.4
Back Pressure, psf		0.0
Cell Pressure, psf		1736.6
Fail. Stress, psf		407.9
Strain, %		13.4
Ult. Stress, psf		407.9
Strain, %		13.4
σ_1 Failure, psf		2144.6
σ_3 Failure, psf		1736.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(72))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

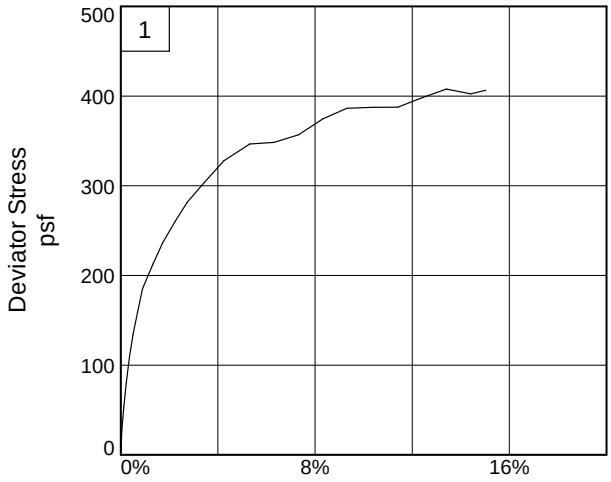
Project: Mobile River Bridge

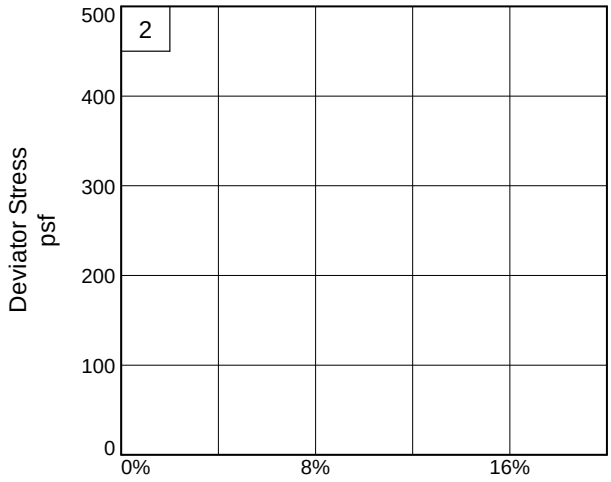
Source of Sample: Lab #7772 **Depth:** 33.5'-35.5'

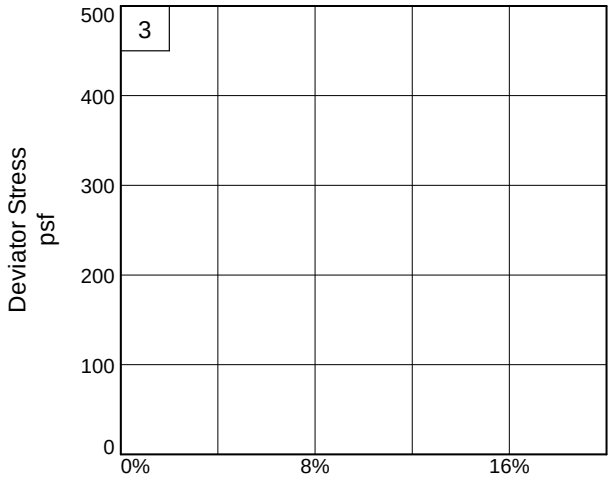
Sample Number: BW-63 T-2

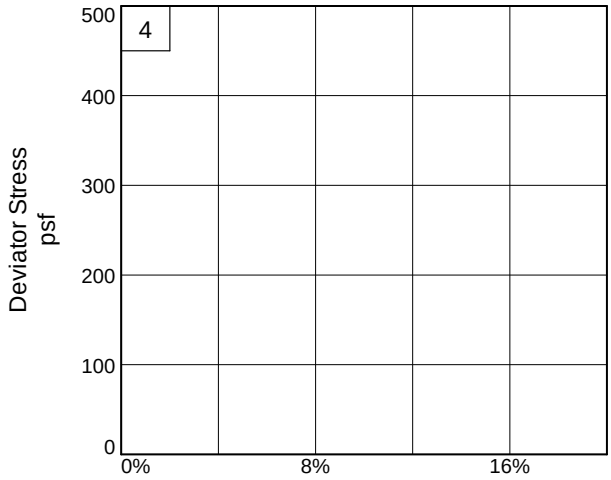
Proj. No.: 1511010228 **Date Sampled:**

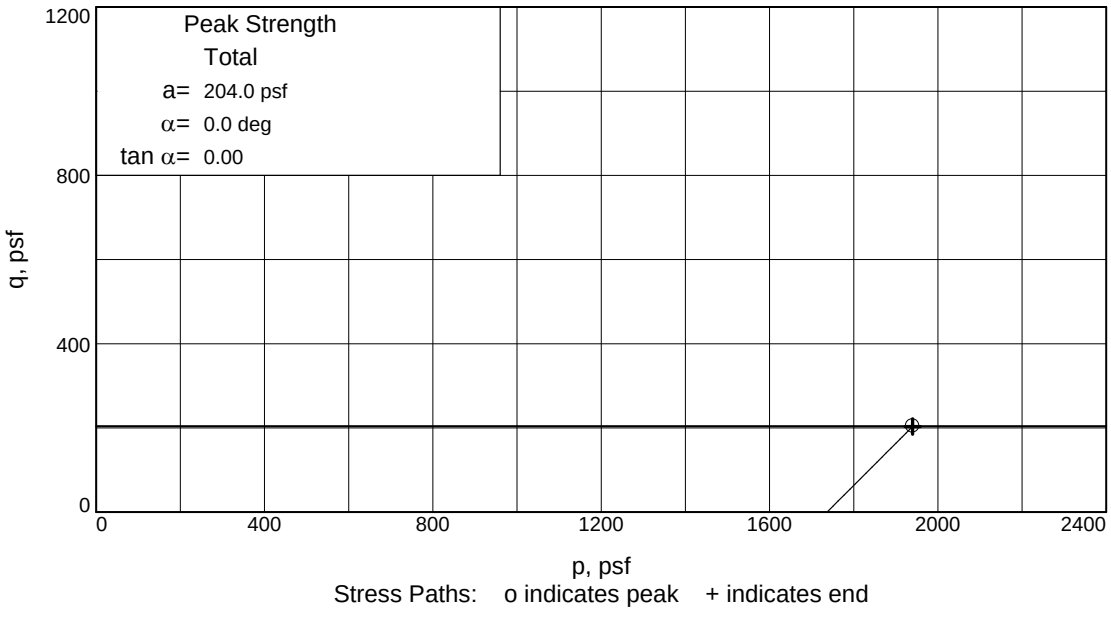
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Thompson Engineering
Mobile, Alabama





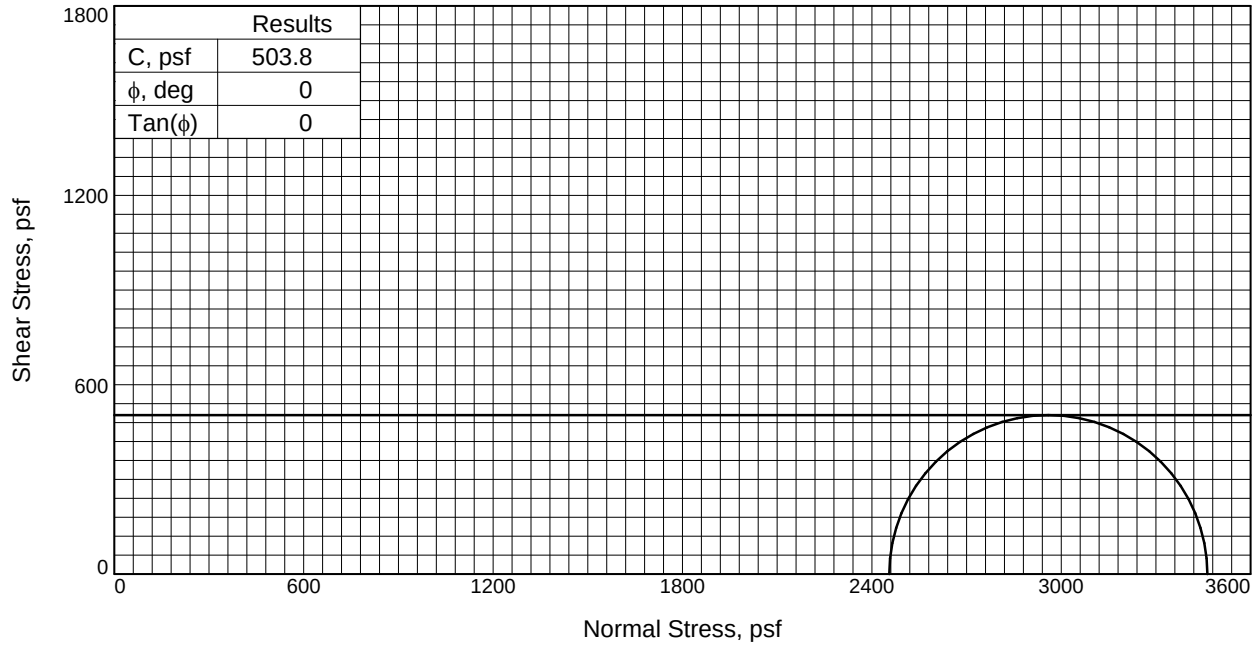


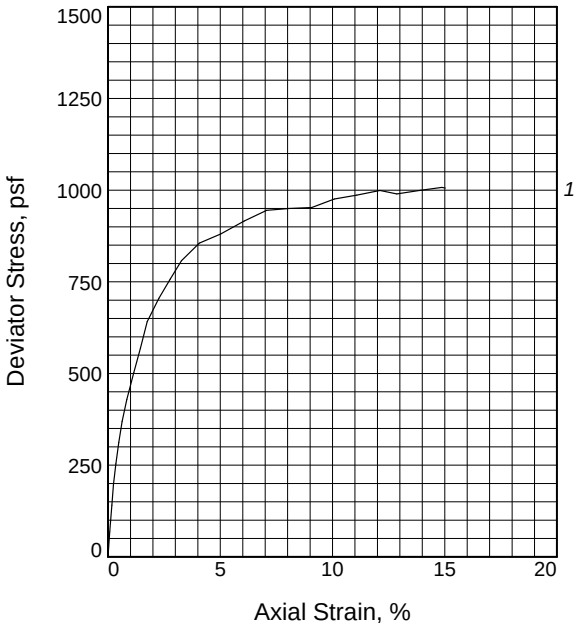




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 33.5'-35.5' **Sample Number:** BW-63 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	55.8
	Dry Density, pcf	67.6
	Saturation, %	102.0
	Void Ratio	1.4548
	Diameter, in.	2.773
	Height, in.	5.594
At Test	Water Content, %	53.7
	Dry Density, pcf	67.6
	Saturation, %	98.3
	Void Ratio	1.4548
	Diameter, in.	2.773
	Height, in.	5.594
Strain at peak, %		14.9
Back Pressure, psf		0.0
Cell Pressure, psf		2455.2
Fail. Stress, psf		1007.6
Strain, %		14.9
Ult. Stress, psf		1007.6
Strain, %		14.9
σ_1 Failure, psf		3462.8
σ_3 Failure, psf		2455.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description:

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

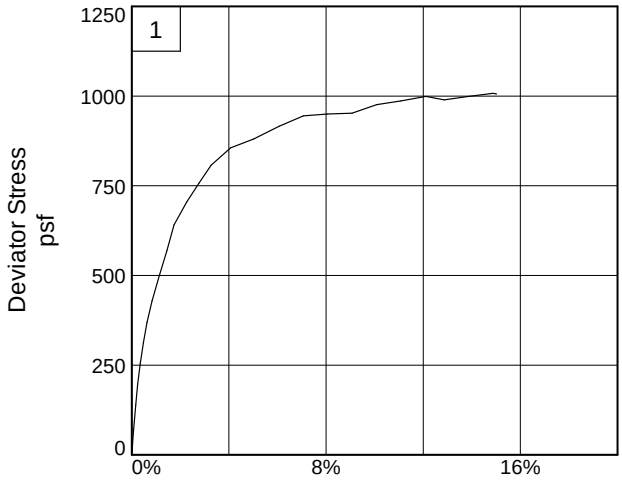
Project: Mobile River Bridge

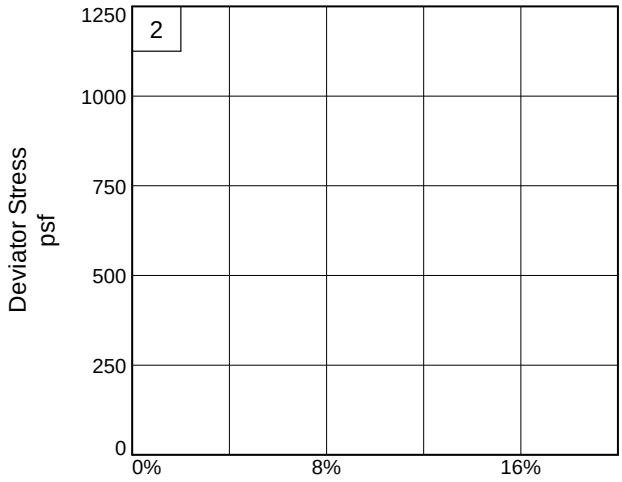
Source of Sample: Lab #7772 **Depth:** 48.5'-50.5'

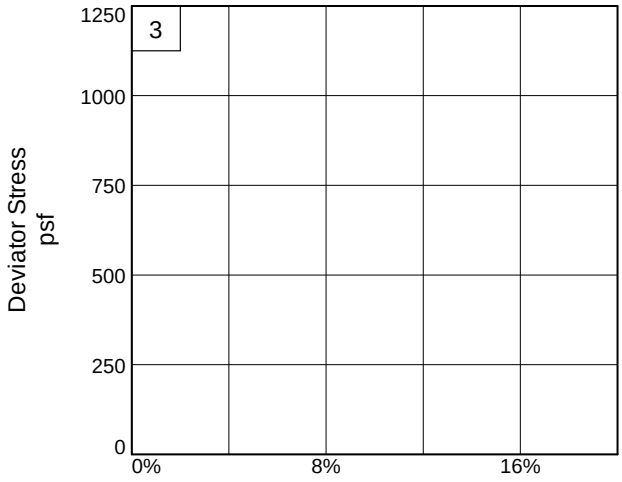
Sample Number: BW-63 T-4

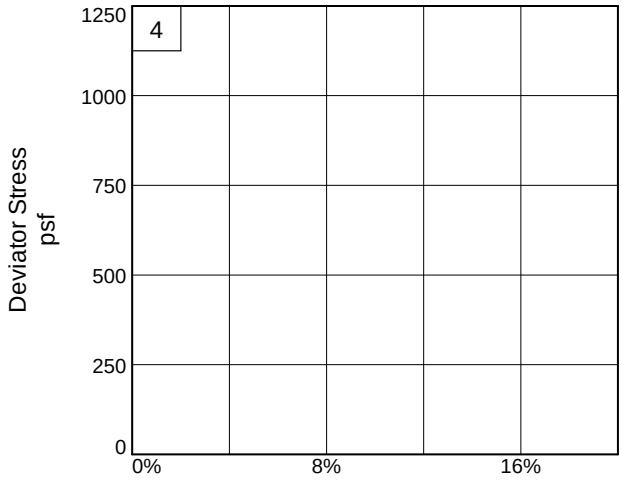
Proj. No.: 1511010228 **Date Sampled:**

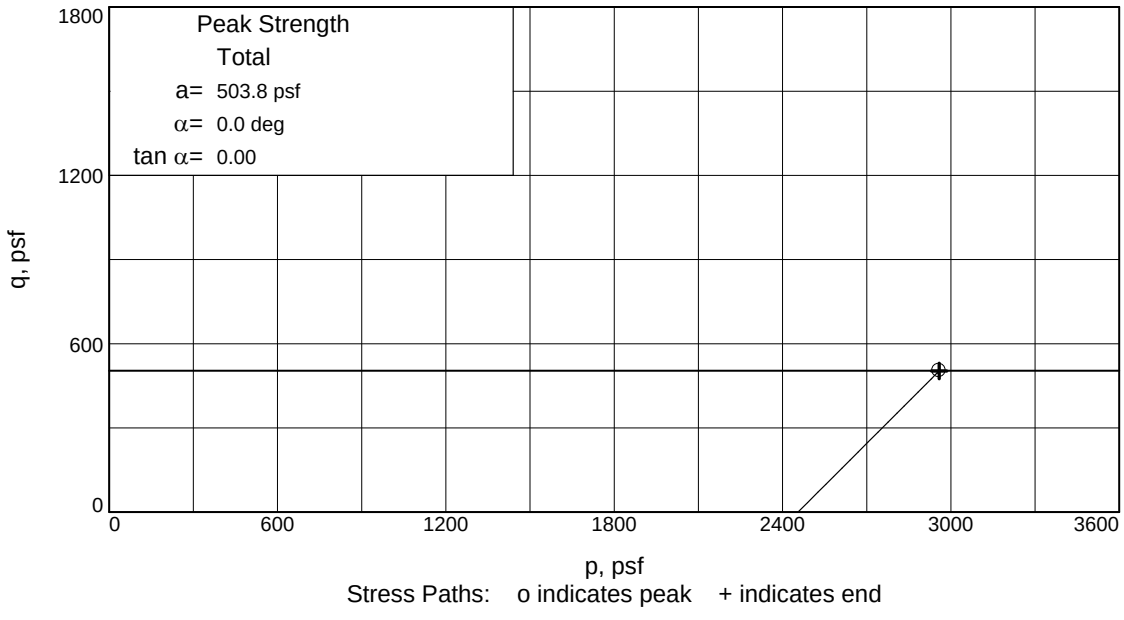
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Mobile, Alabama





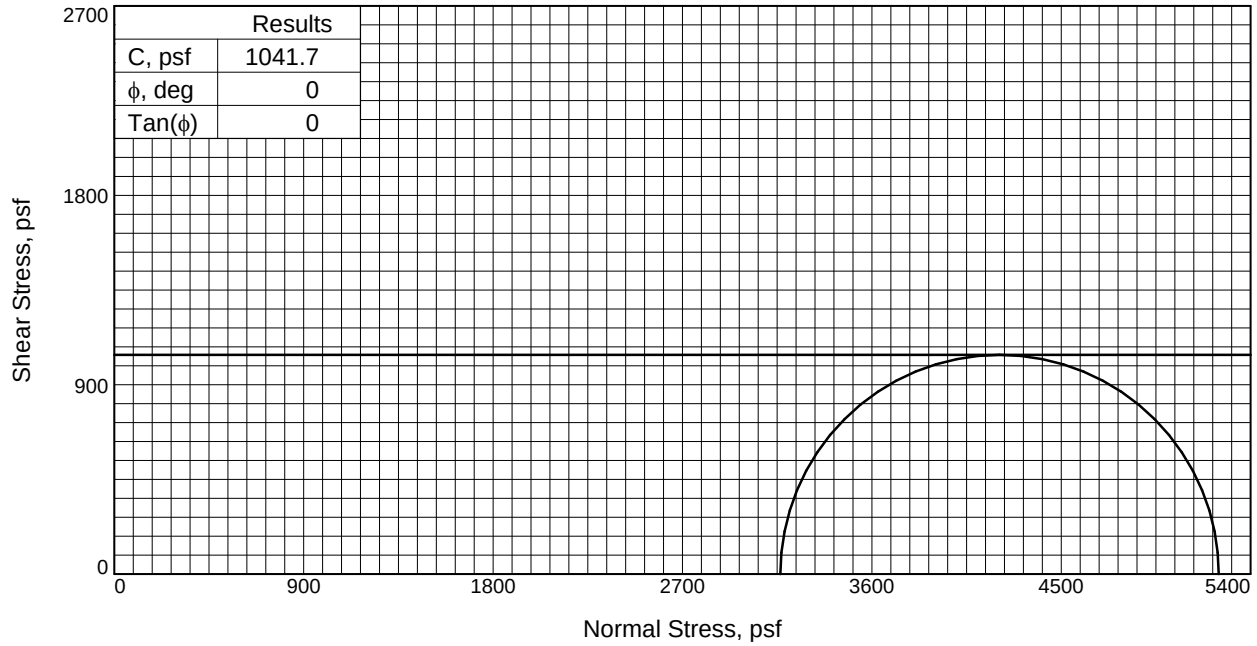


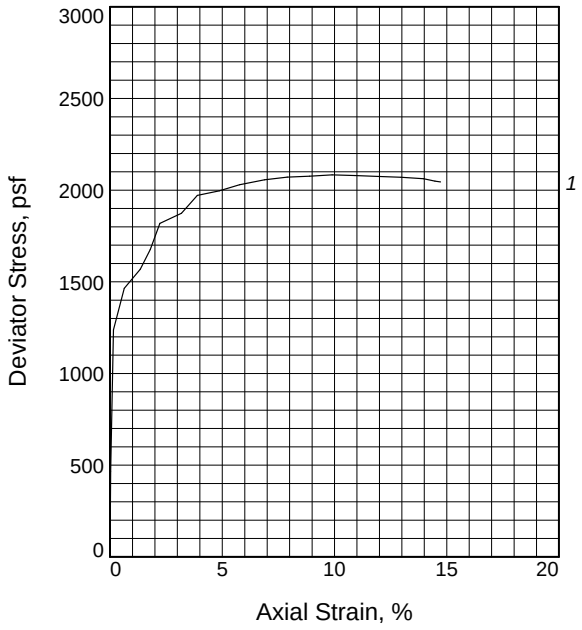




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 48.5'-50.5' **Sample Number:** BW-63 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	35.2
	Dry Density, pcf	87.8
	Saturation, %	104.8
	Void Ratio	0.8921
	Diameter, in.	2.824
	Height, in.	5.603
At Test	Water Content, %	34.4
	Dry Density, pcf	87.8
	Saturation, %	102.7
	Void Ratio	0.8921
	Diameter, in.	2.824
	Height, in.	5.603
Strain at peak, %		9.9
Back Pressure, psf		0.0
Cell Pressure, psf		3165.1
Fail. Stress, psf		2083.4
Strain, %		9.9
Ult. Stress, psf		2083.4
Strain, %		9.9
σ_1 Failure, psf		5248.6
σ_3 Failure, psf		3165.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(46))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

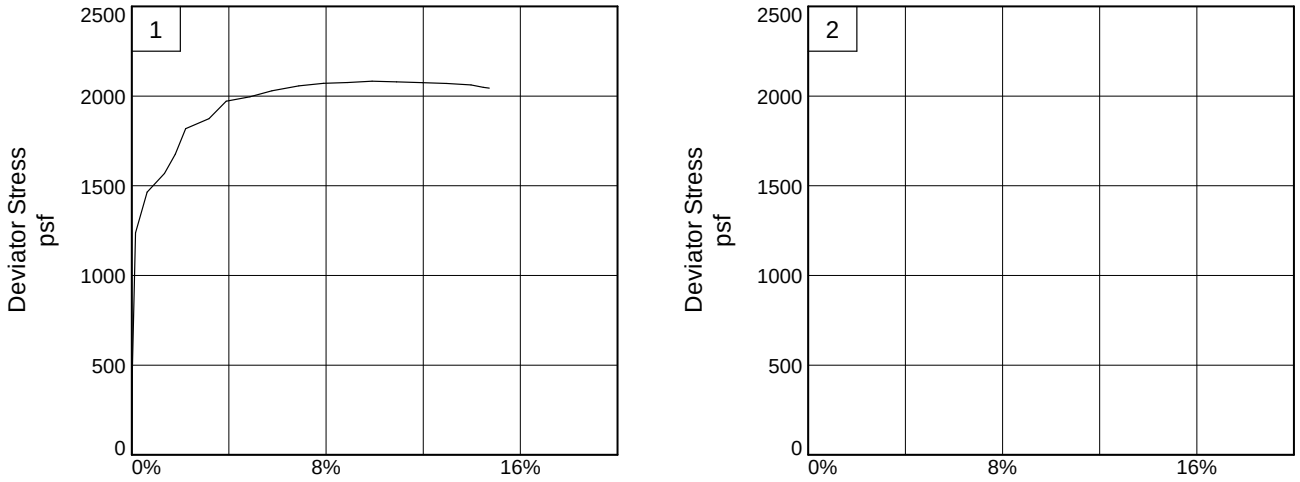
Project: Mobile River Bridge

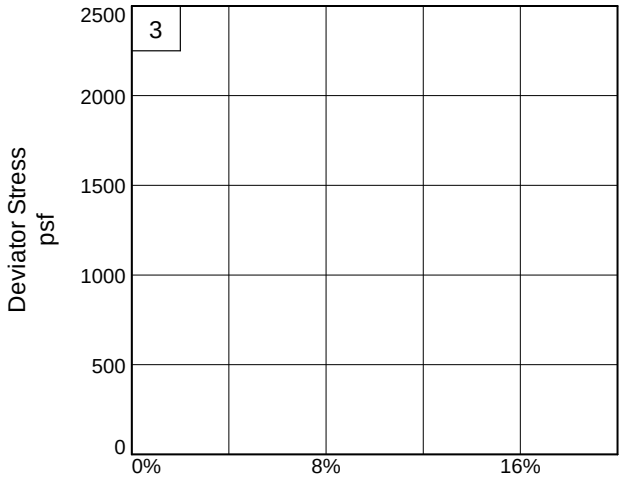
Source of Sample: Lab #7772 **Depth:** 63.5'-65.5'

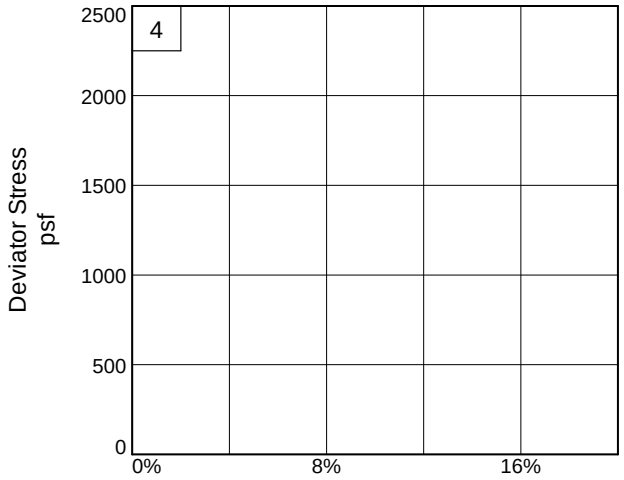
Sample Number: BW-63 T-5

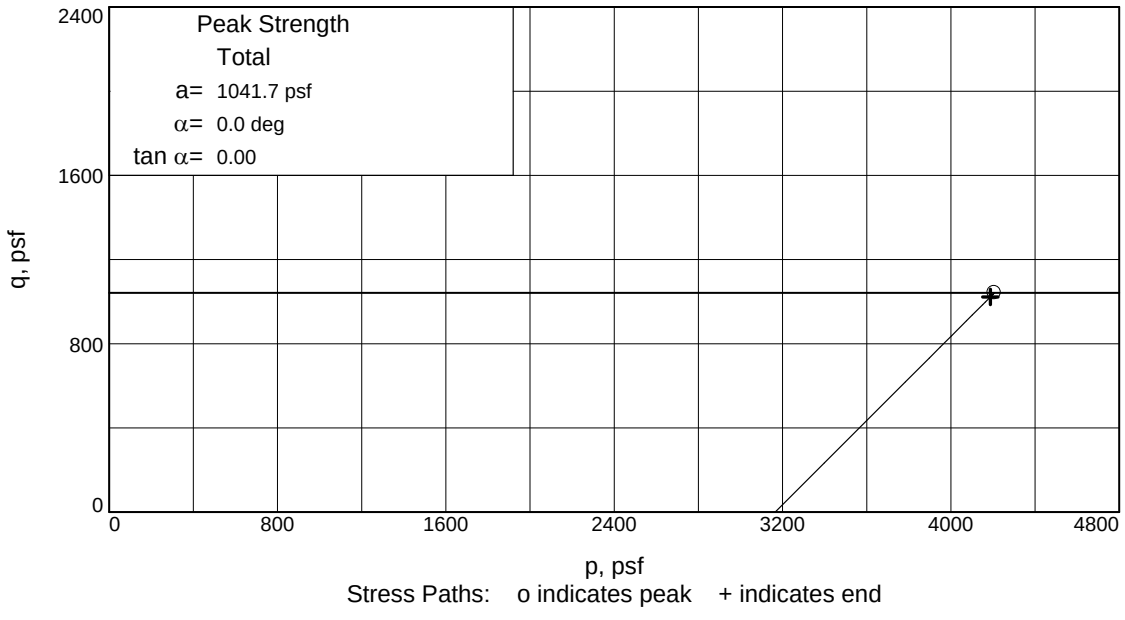
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



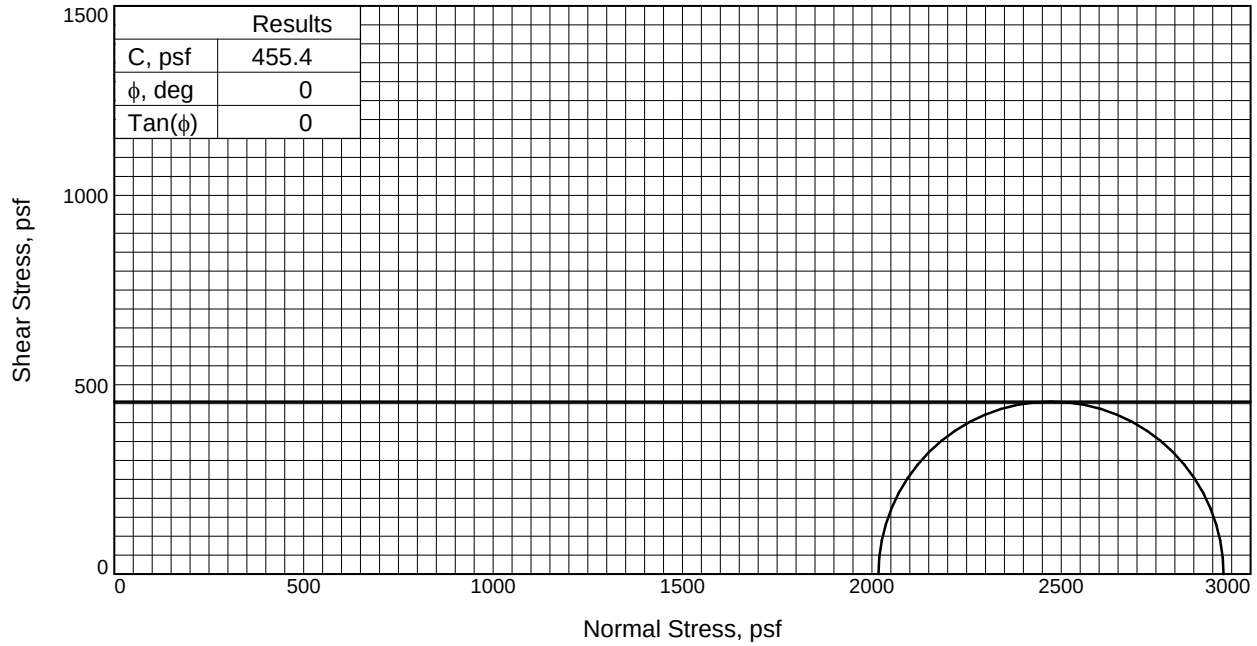


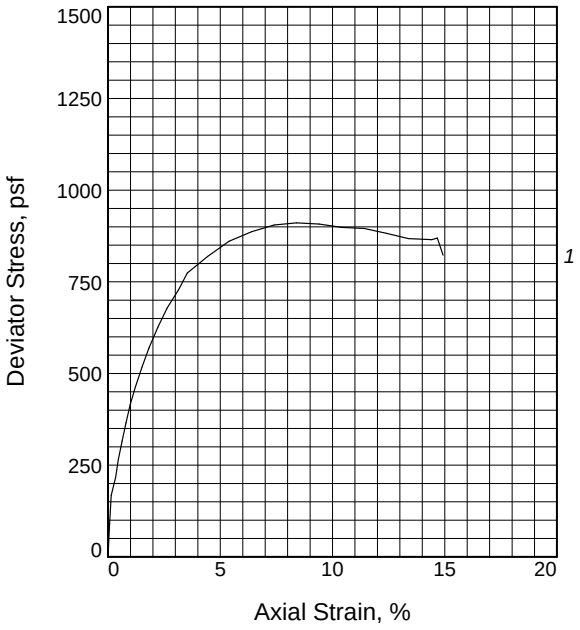




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 63.5'-65.5' **Sample Number:** BW-63 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	39.7
	Dry Density, pcf	82.6
	Saturation, %	104.7
	Void Ratio	1.0098
	Diameter, in.	2.793
	Height, in.	5.455
At Test	Water Content, %	41.0
	Dry Density, pcf	82.6
	Saturation, %	107.9
	Void Ratio	1.0098
	Diameter, in.	2.793
	Height, in.	5.455
Strain at peak, %		8.4
Back Pressure, psf		0.0
Cell Pressure, psf		2017.4
Fail. Stress, psf		910.9
Strain, %		8.4
Ult. Stress, psf		910.9
Strain, %		8.4
σ_1 Failure, psf		2928.3
σ_3 Failure, psf		2017.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(33))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

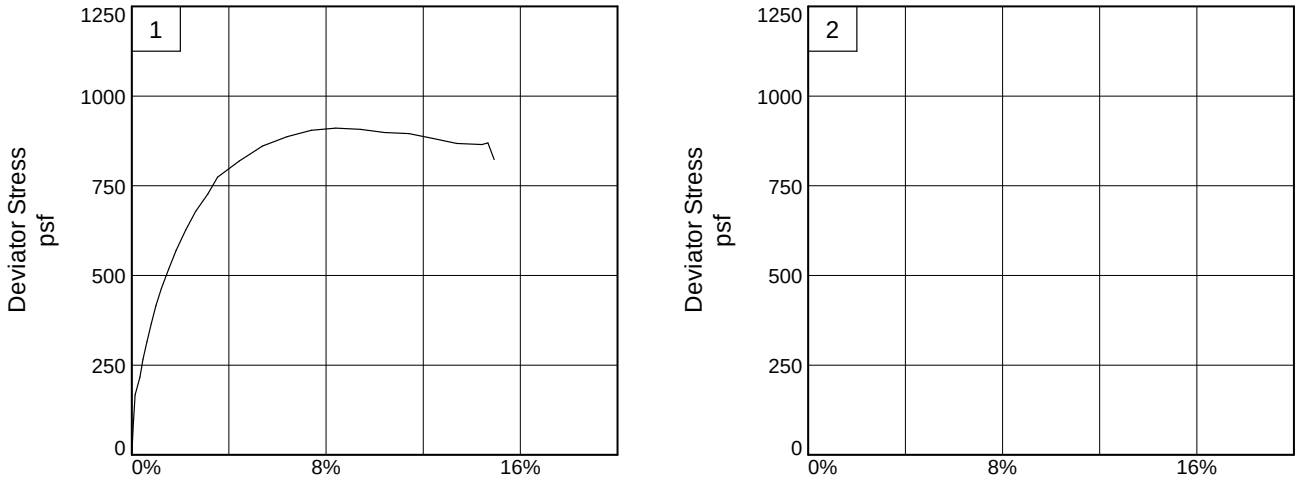
Project: Mobile River Bridge

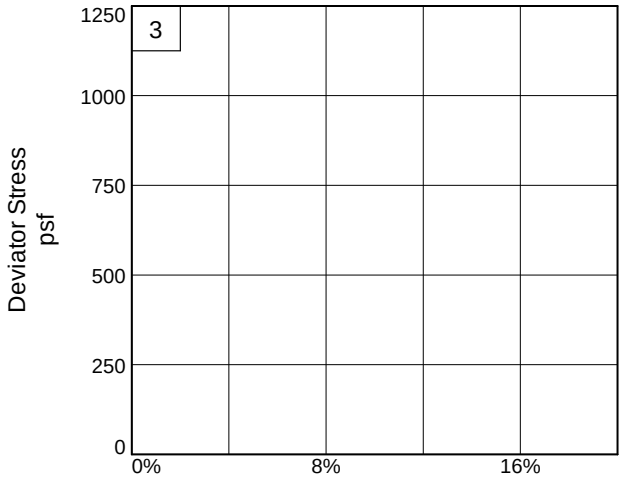
Source of Sample: Lab #7772 **Depth:** 38.5'-40.5'

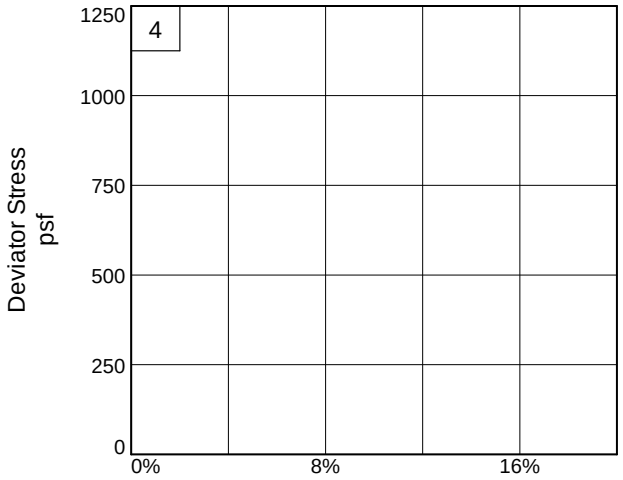
Sample Number: BW-64 T-3

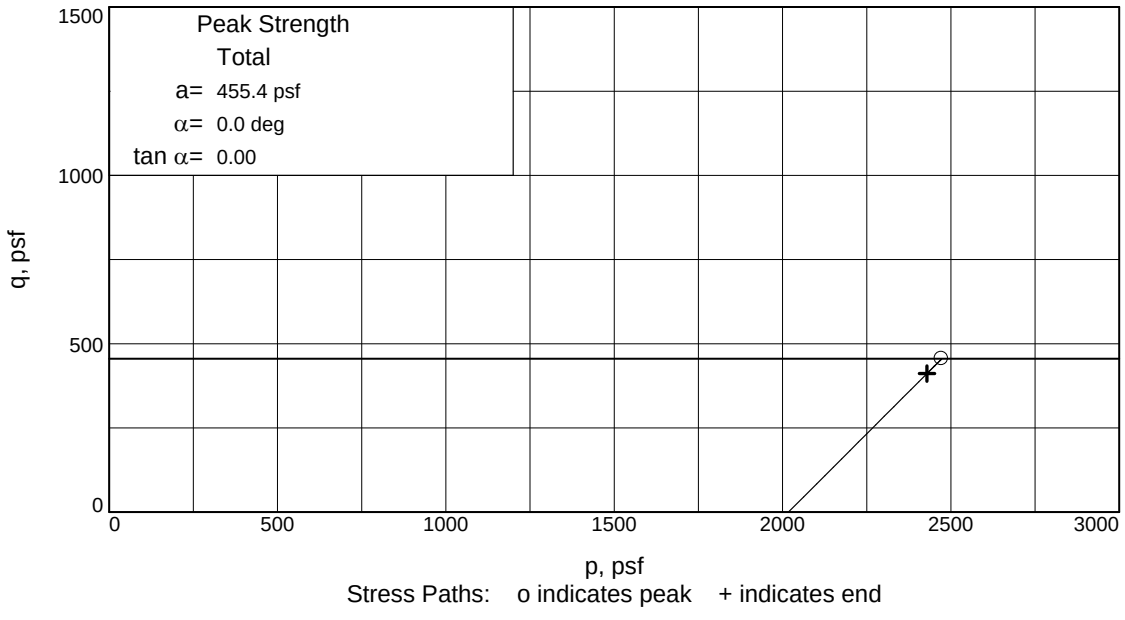
Proj. No.: 1511010228 **Date Sampled:**

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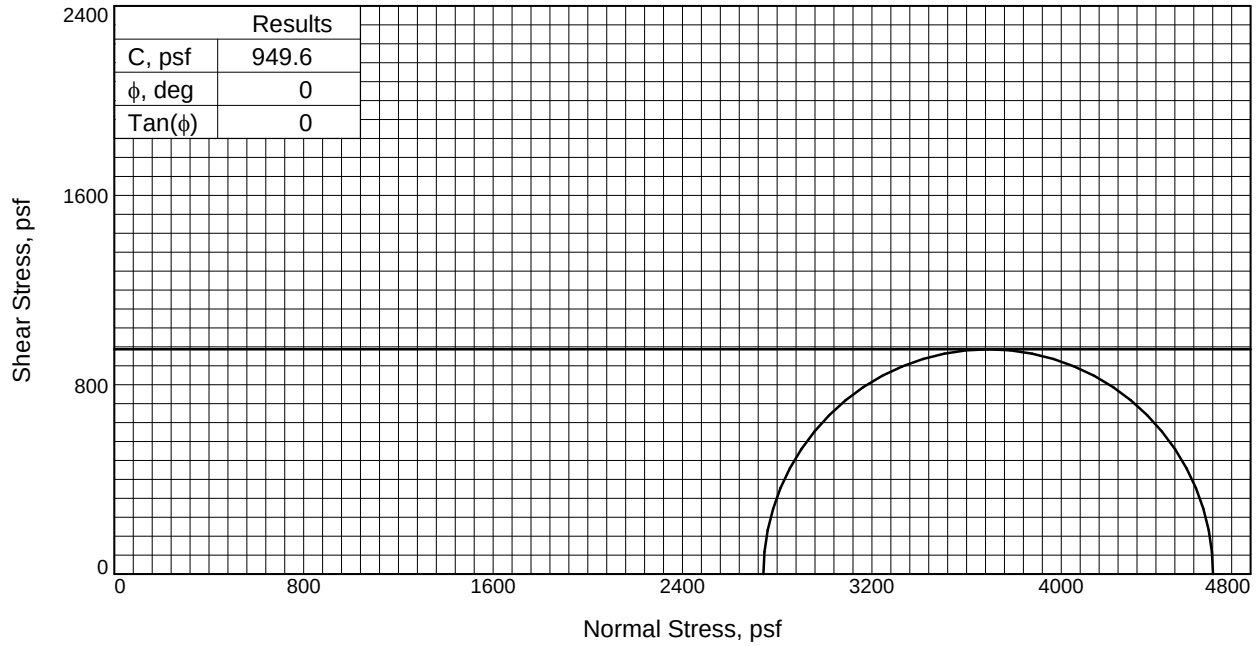


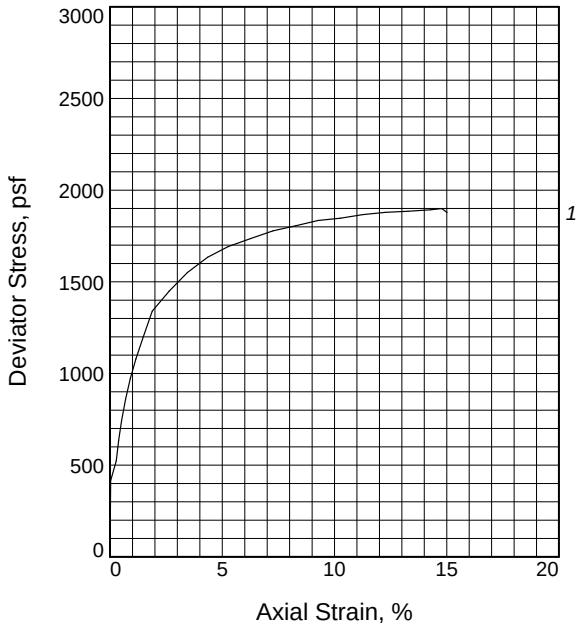




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 38.5'-40.5' **Sample Number:** BW-64 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	30.8
	Dry Density, pcf	94.0
	Saturation, %	106.8
	Void Ratio	0.7663
	Diameter, in.	2.809
	Height, in.	5.568
At Test	Water Content, %	30.4
	Dry Density, pcf	94.0
	Saturation, %	105.4
	Void Ratio	0.7663
	Diameter, in.	2.809
	Height, in.	5.568
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2741.8
Fail. Stress, psf		1899.3
Strain, %		14.8
Ult. Stress, psf		1899.3
Strain, %		14.8
σ_1 Failure, psf		4641.1
σ_3 Failure, psf		2741.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(27))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

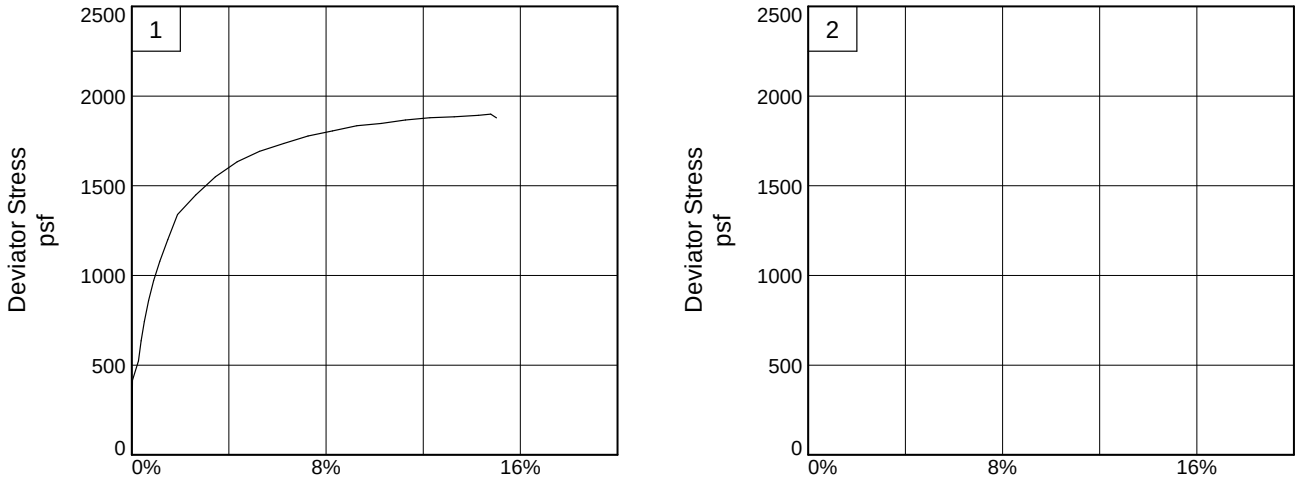
Project: Mobile River Bridge

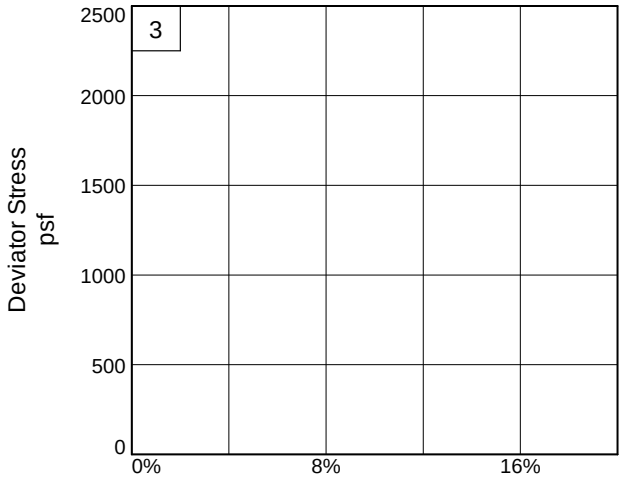
Source of Sample: Lab #7772 **Depth:** 53.5'-55.5'

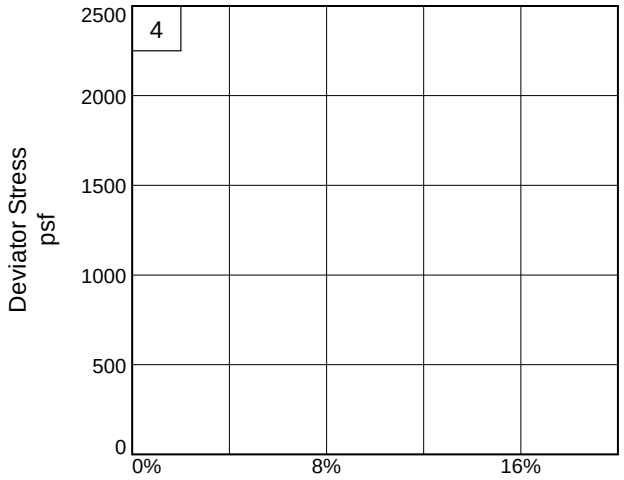
Sample Number: BW-64 T-4

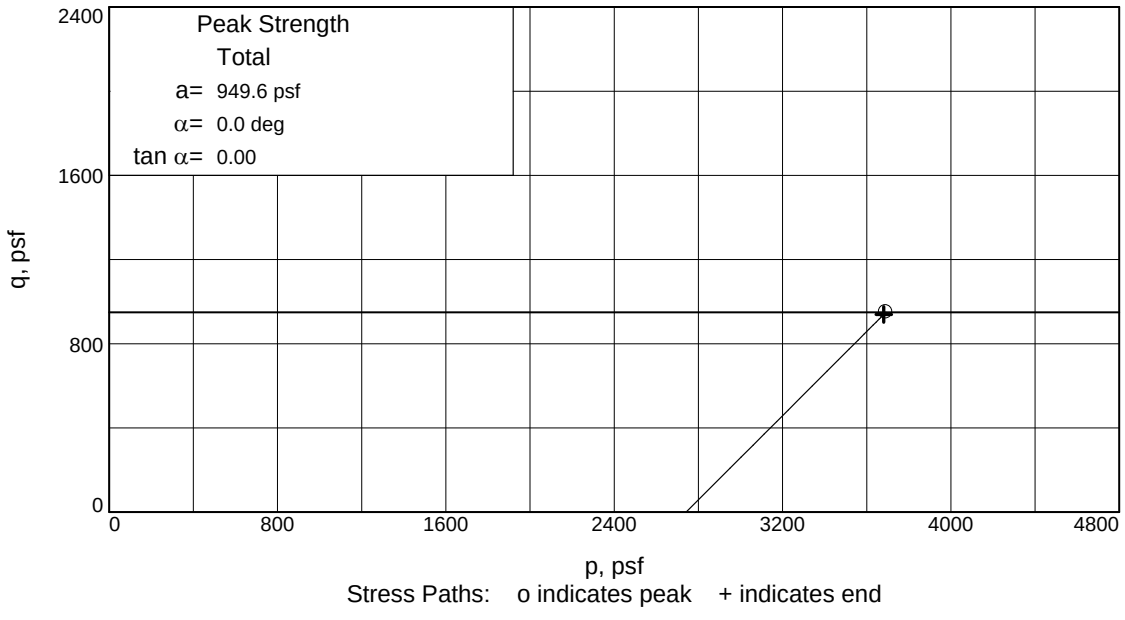
Proj. No.: 1511010228 **Date Sampled:**

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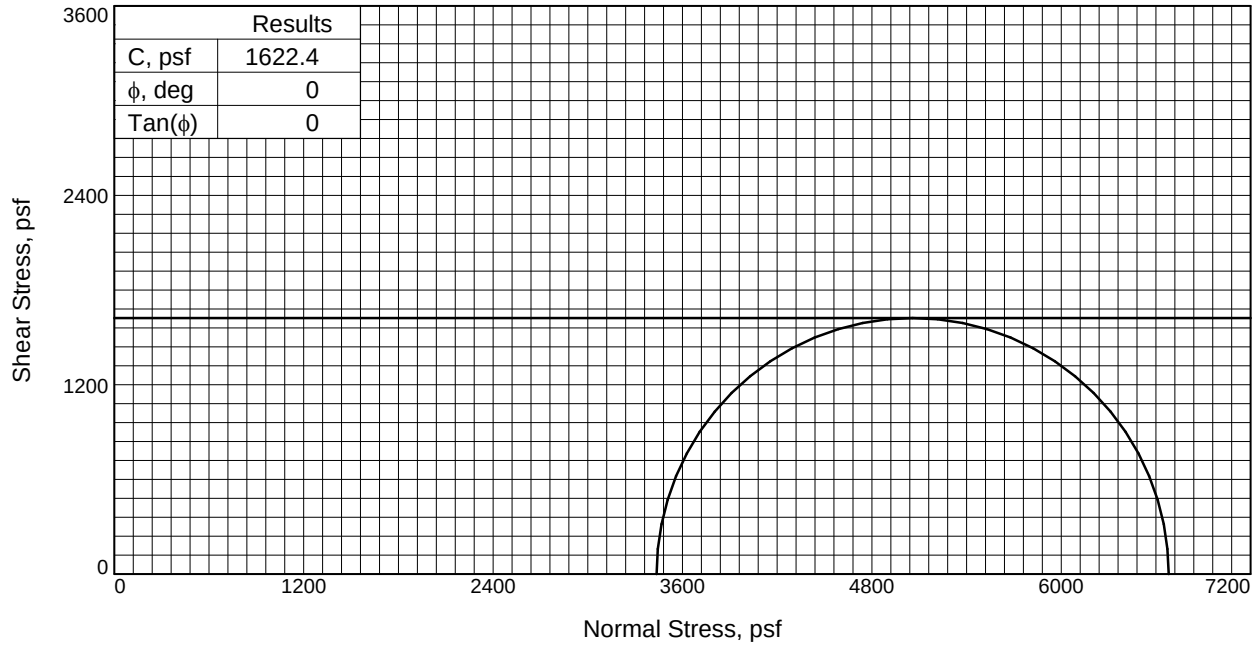


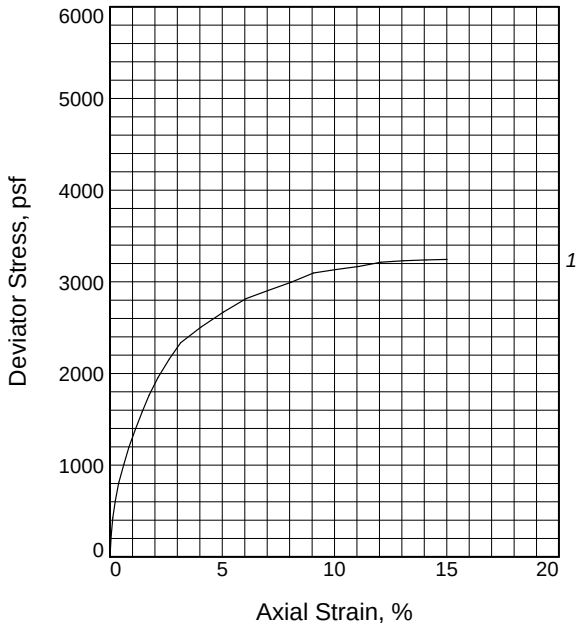




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 53.5'-55.5' **Sample Number:** BW-64 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	30.6
	Dry Density, pcf	94.3
	Saturation, %	107.1
	Void Ratio	0.7605
	Diameter, in.	2.819
	Height, in.	5.525
At Test	Water Content, %	29.2
	Dry Density, pcf	94.3
	Saturation, %	102.2
	Void Ratio	0.7605
	Diameter, in.	2.819
	Height, in.	5.525
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		3435.8
Fail. Stress, psf		3244.8
Strain, %		15.0
Ult. Stress, psf		3244.8
Strain, %		15.0
σ_1 Failure, psf		6680.6
σ_3 Failure, psf		3435.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(35))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

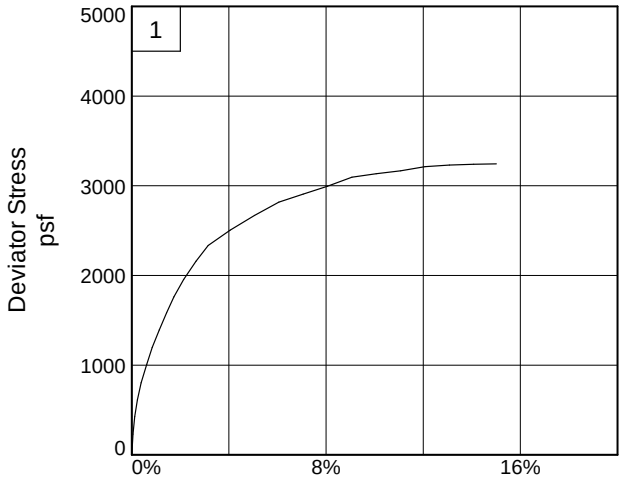
Project: Mobile River Bridge

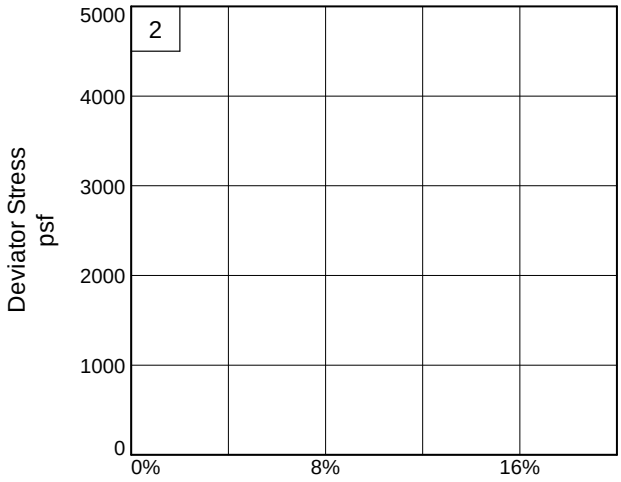
Source of Sample: Lab #7772 **Depth:** 68.5'-70.5'

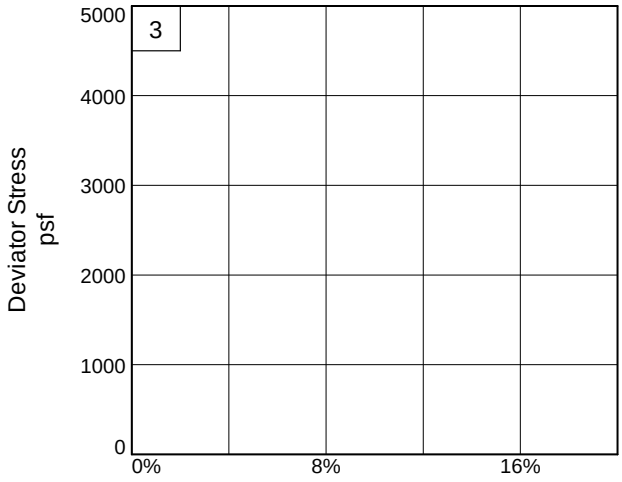
Sample Number: BW-64 T-5

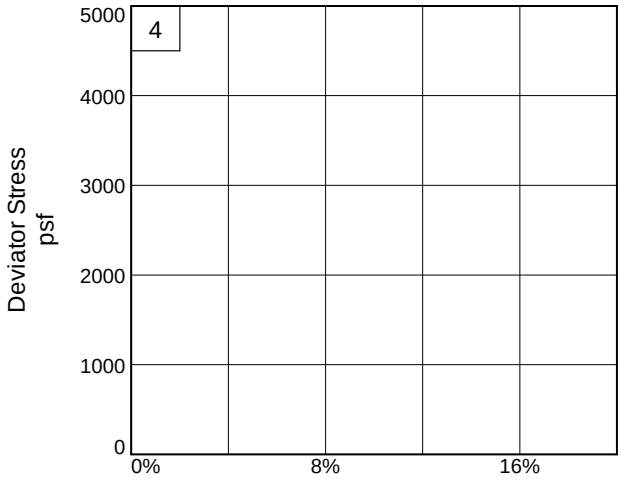
Proj. No.: 1511010228 **Date Sampled:**

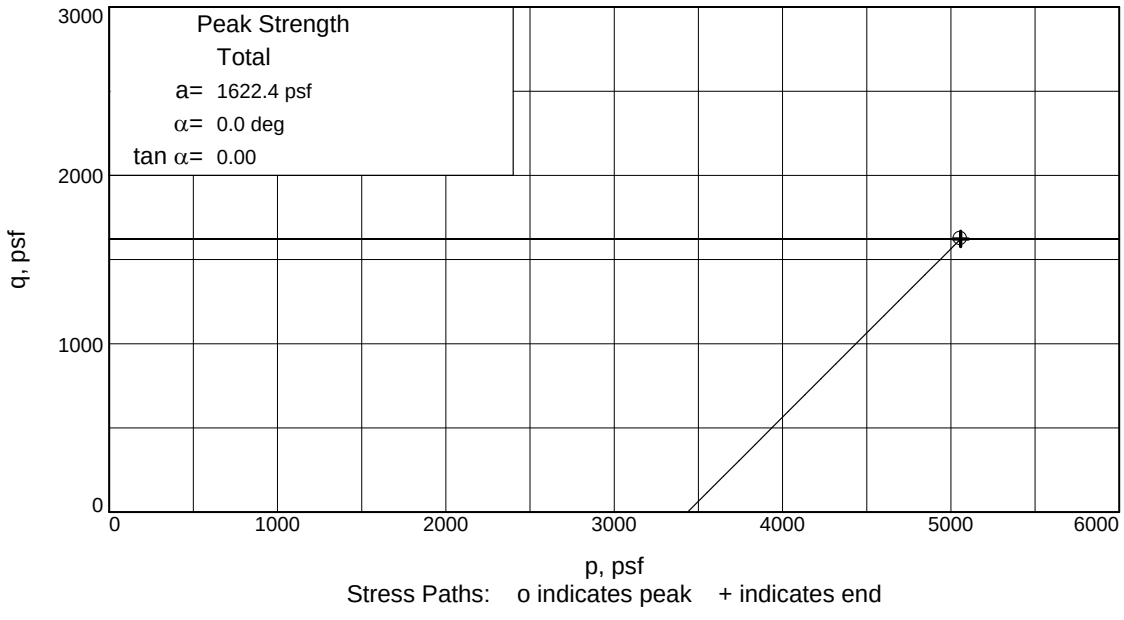
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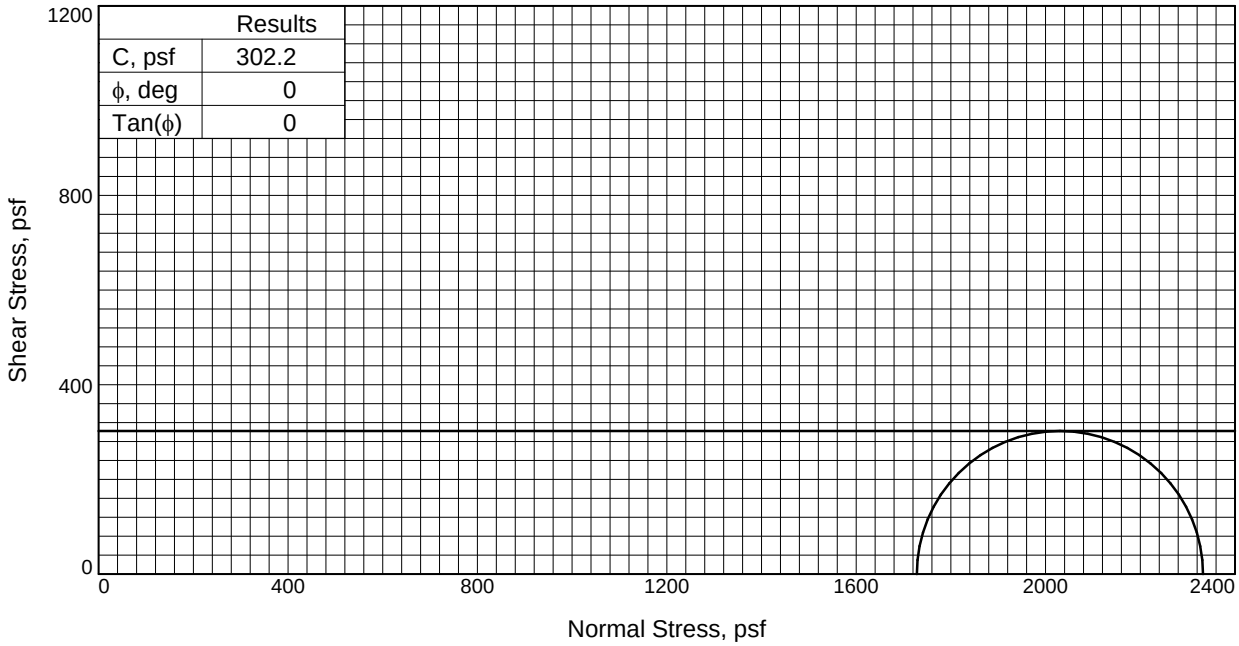


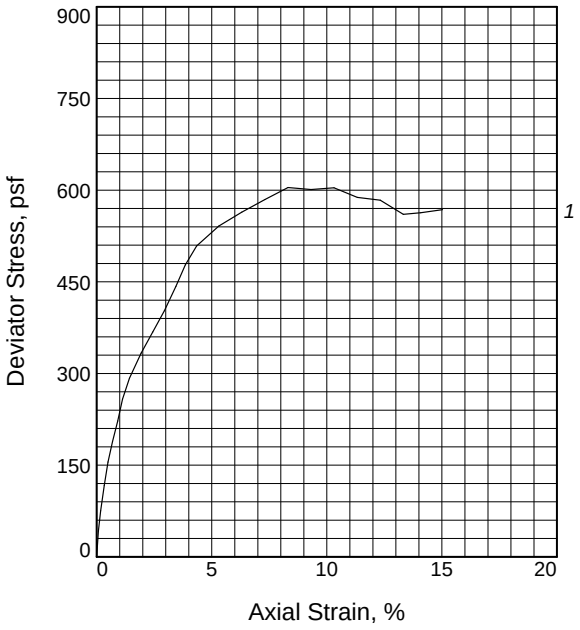




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 68.5'-70.5' **Sample Number:** BW-64 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	49.1
	Dry Density, pcf	73.5
	Saturation, %	103.6
	Void Ratio	1.2600
	Diameter, in.	2.805
	Height, in.	5.611
At Test	Water Content, %	53.9
	Dry Density, pcf	73.5
	Saturation, %	113.8
	Void Ratio	1.2600
	Diameter, in.	2.805
	Height, in.	5.611
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		1728.0
Fail. Stress, psf		604.4
Strain, %		8.3
Ult. Stress, psf		604.4
Strain, %		8.3
σ_1 Failure, psf		2332.4
σ_3 Failure, psf		1728.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(47))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

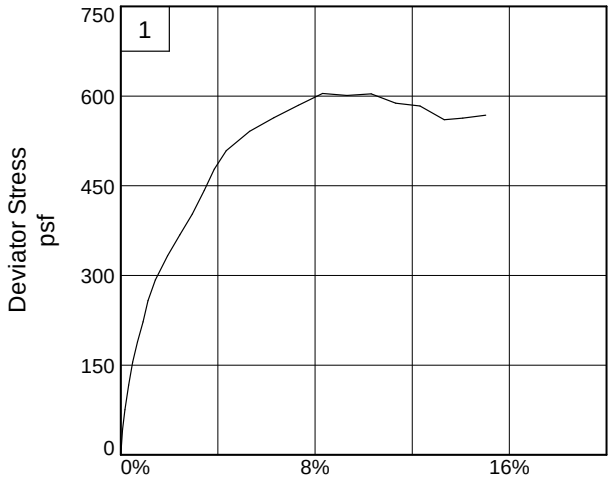
Project: Mobile River Bridge

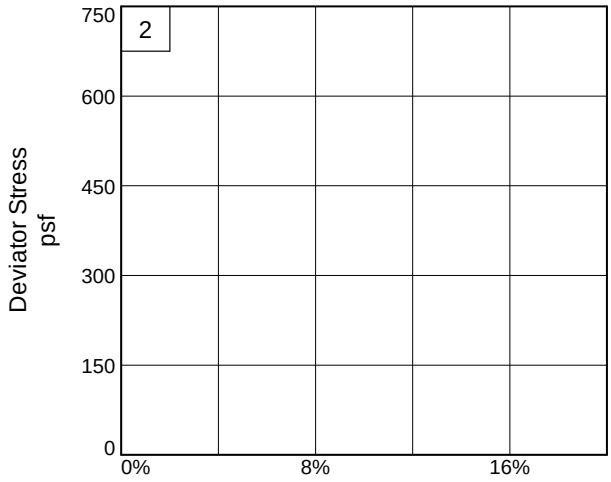
Source of Sample: Lab #7772 **Depth:** 23.5'-25.5'

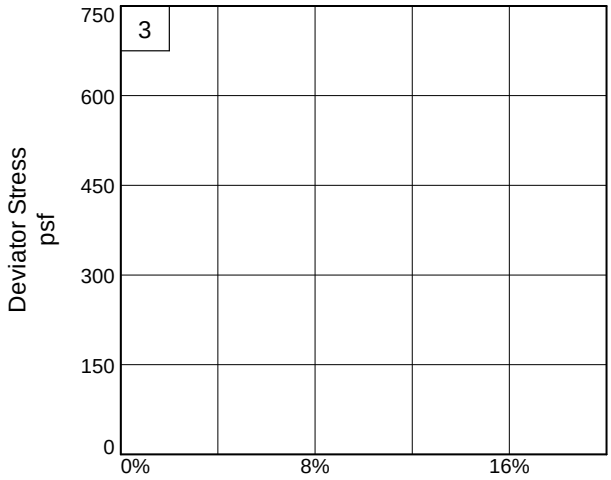
Sample Number: BW-67 T-1

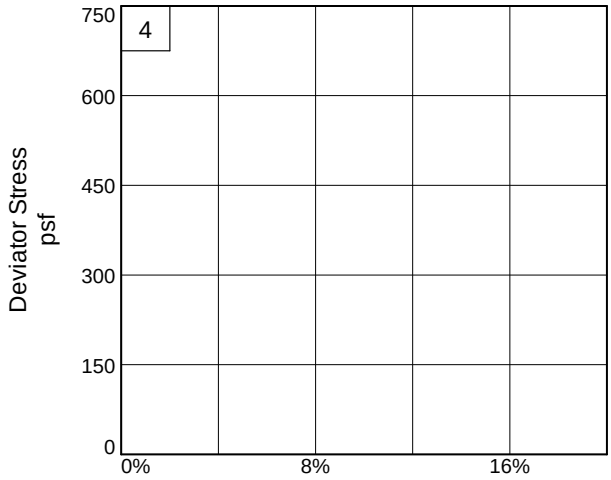
Proj. No.: 1511010228 **Date Sampled:**

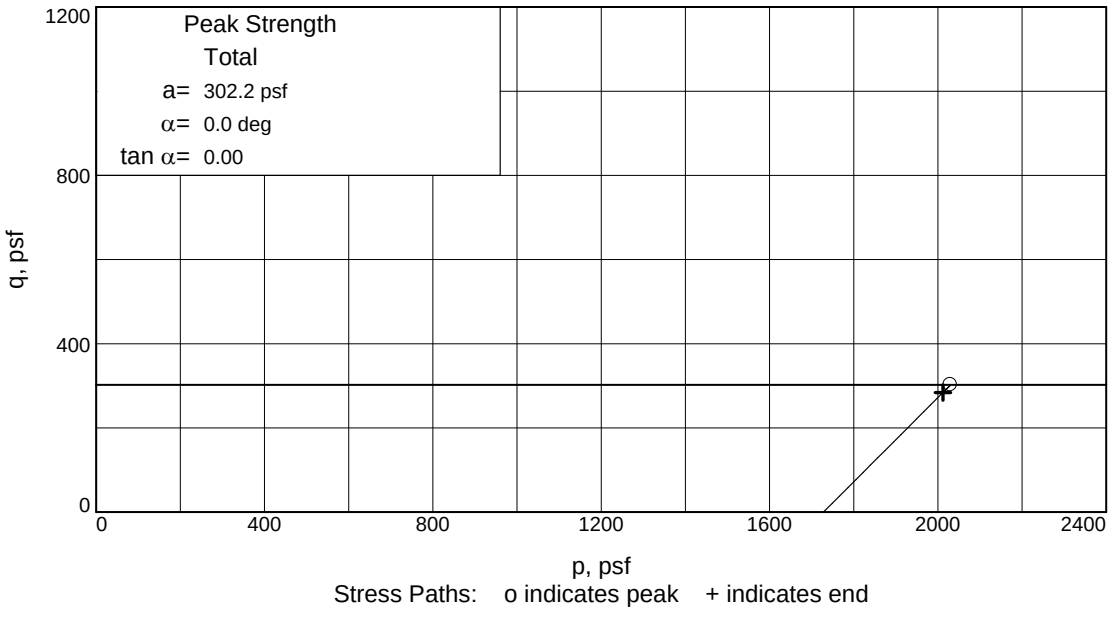
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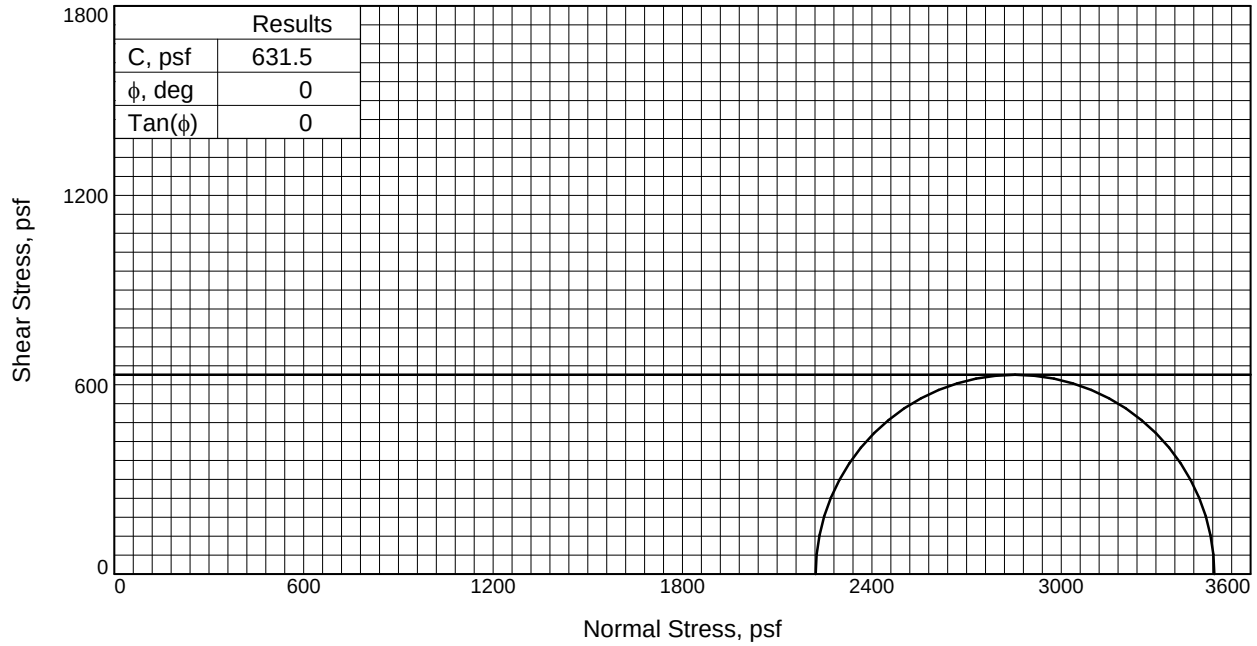


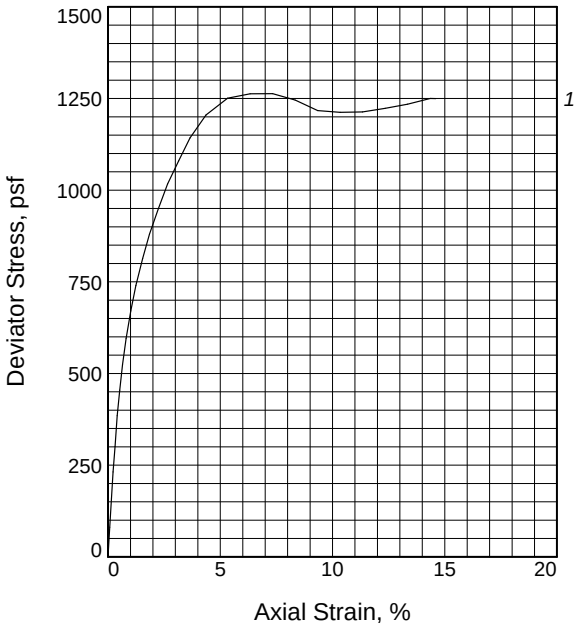




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 23.5'-25.5' **Sample Number:** BW-67 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	104.1
	Dry Density, pcf	42.8
	Saturation, %	96.0
	Void Ratio	2.8843
	Diameter, in.	2.784
	Height, in.	5.637
At Test	Water Content, %	93.4
	Dry Density, pcf	42.8
	Saturation, %	86.2
	Void Ratio	2.8843
	Diameter, in.	2.784
	Height, in.	5.637
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		2221.9
Fail. Stress, psf		1263.0
Strain, %		7.3
Ult. Stress, psf		1263.0
Strain, %		7.3
σ_1 Failure, psf		3485.0
σ_3 Failure, psf		2221.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: ELASTIC SILT(MH A-7-5(49))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

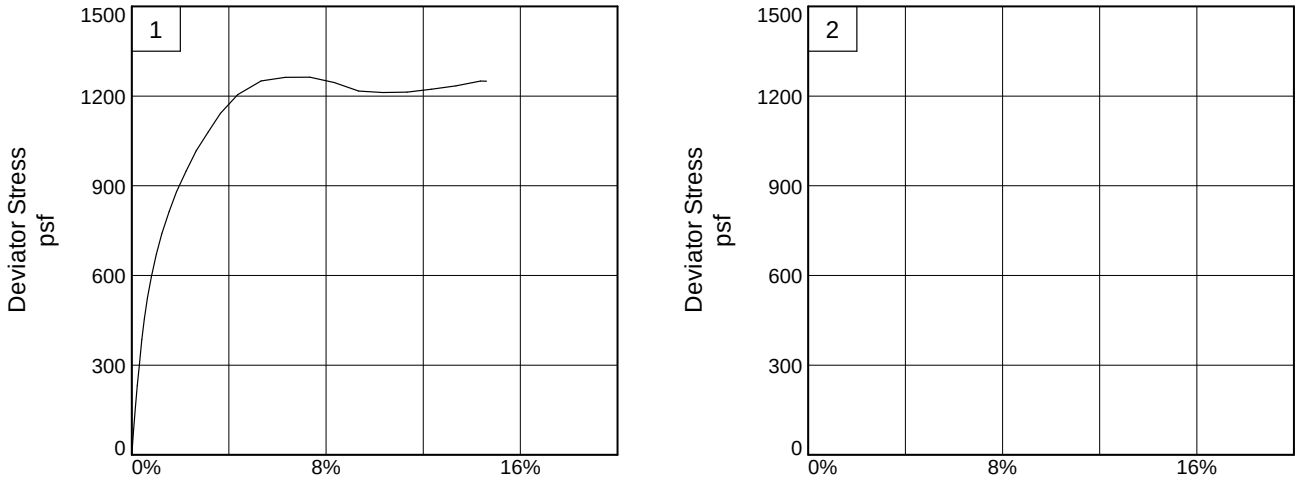
Project: Mobile River Bridge

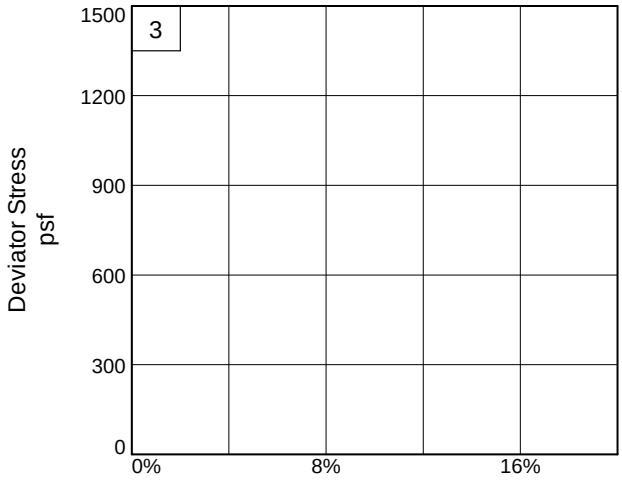
Source of Sample: Lab #7772 **Depth:** 43.5'-45.5'

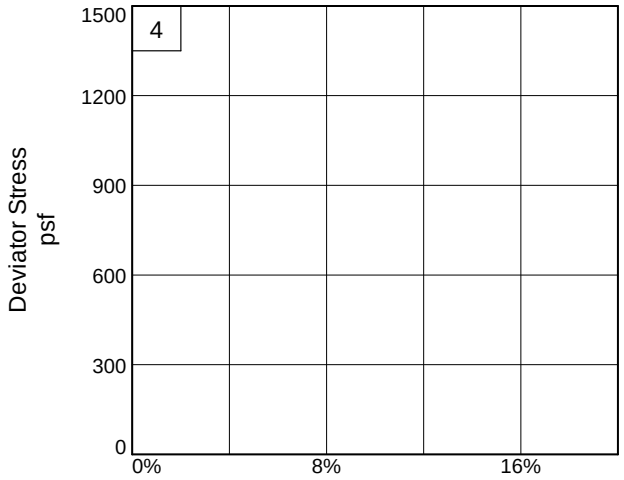
Sample Number: BW-67 T-3

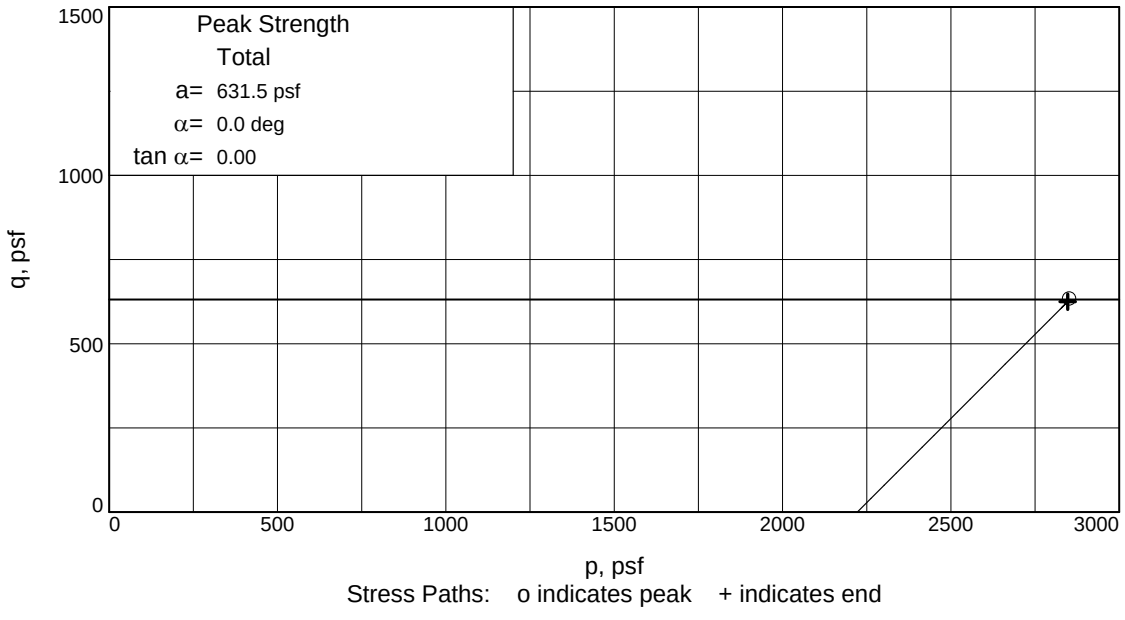
Proj. No.: 1511010228 **Date Sampled:**

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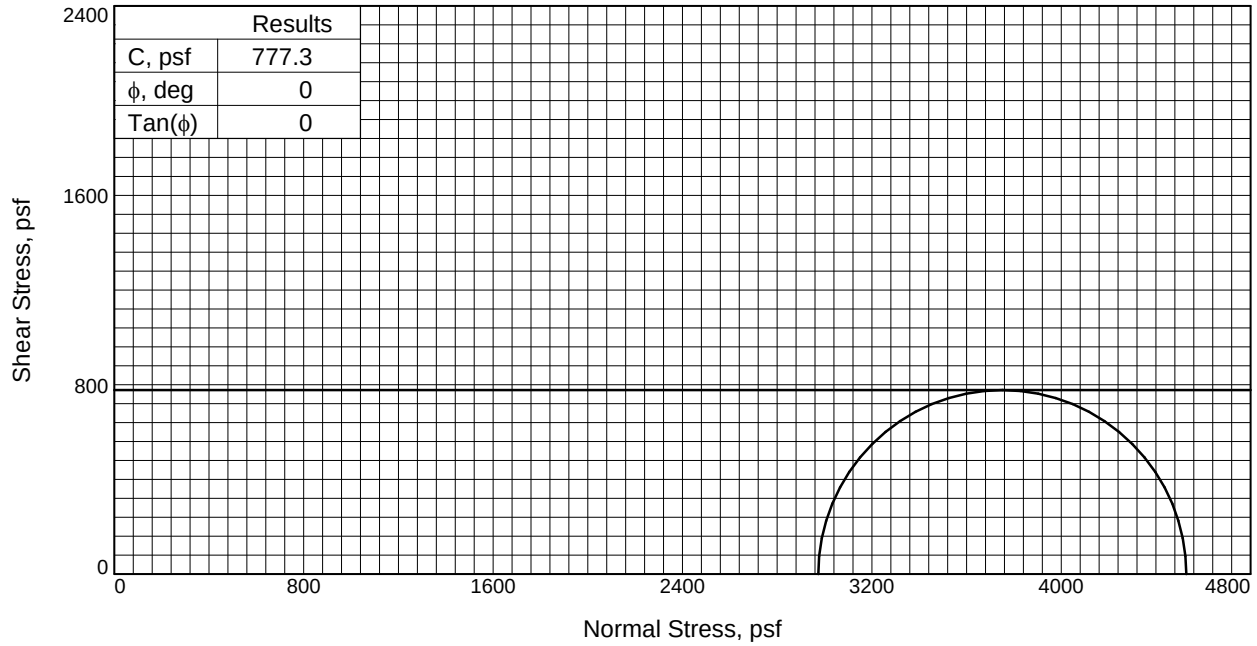


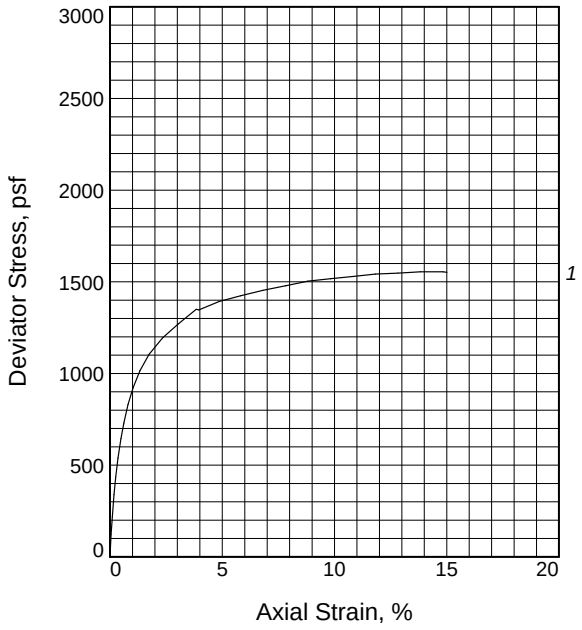




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 43.5'-45.5' **Sample Number:** BW-67 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	34.6
	Dry Density, pcf	89.4
	Saturation, %	107.2
	Void Ratio	0.8573
	Diameter, in.	2.814
	Height, in.	5.545
At Test	Water Content, %	29.2
	Dry Density, pcf	89.4
	Saturation, %	90.5
	Void Ratio	0.8573
	Diameter, in.	2.814
	Height, in.	5.545
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		2973.6
Fail. Stress, psf		1554.5
Strain, %		14.8
Ult. Stress, psf		1554.5
Strain, %		14.8
σ_1 Failure, psf		4528.1
σ_3 Failure, psf		2973.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(42))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

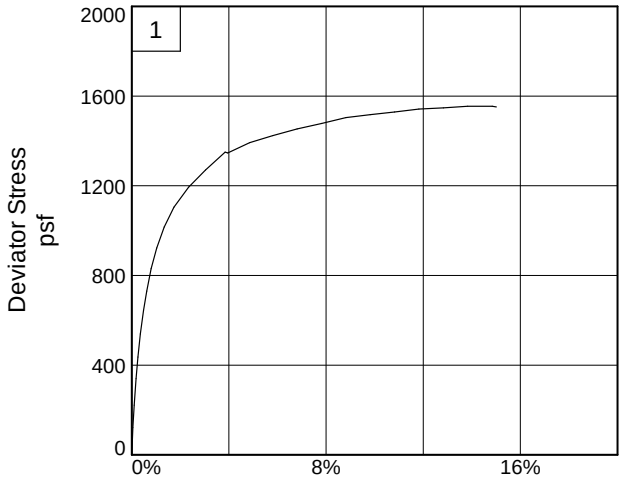
Project: Mobile River Bridge

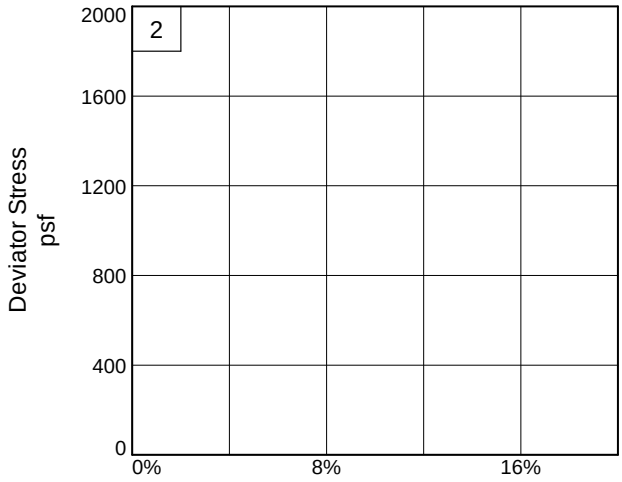
Source of Sample: Lab #7772 **Depth:** 58.5'-60.5'

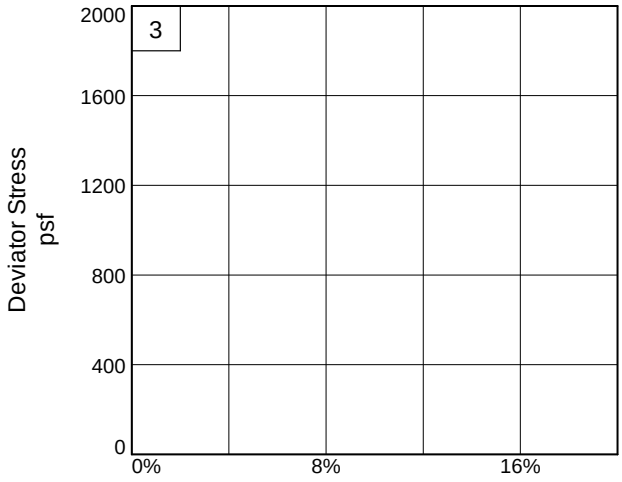
Sample Number: BW-67 T-4

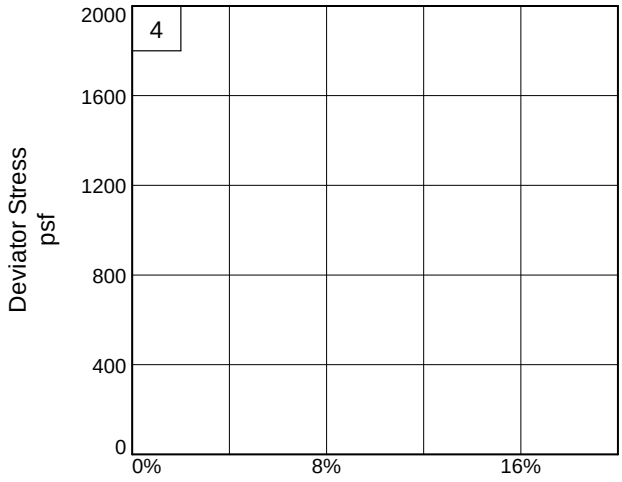
Proj. No.: 1511010228 **Date Sampled:**

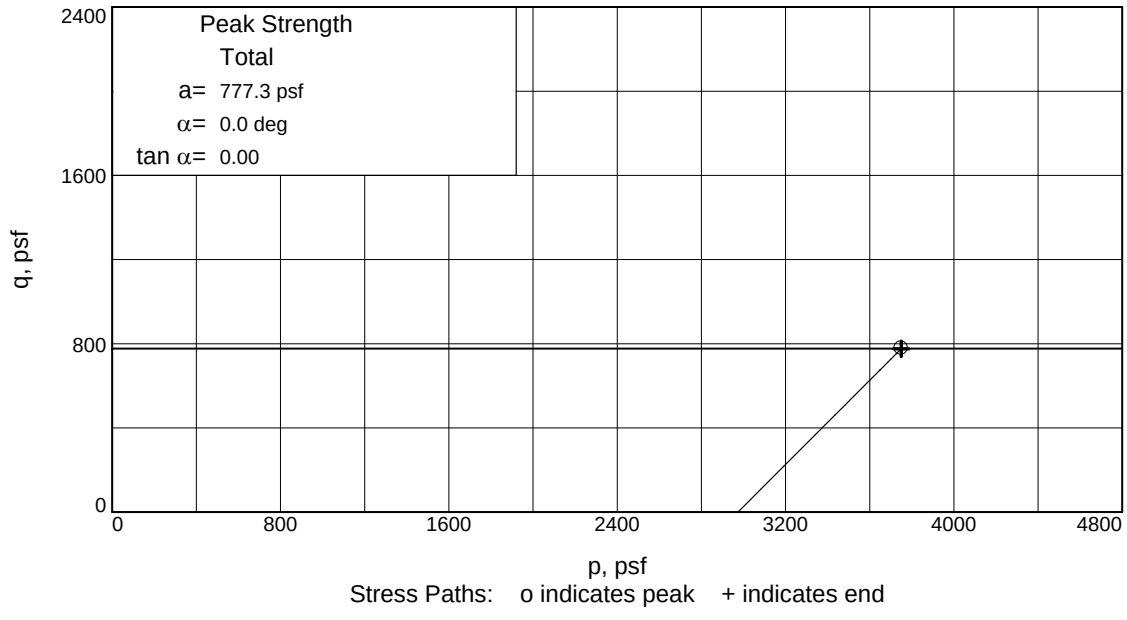
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Stress Paths: o indicates peak + indicates end

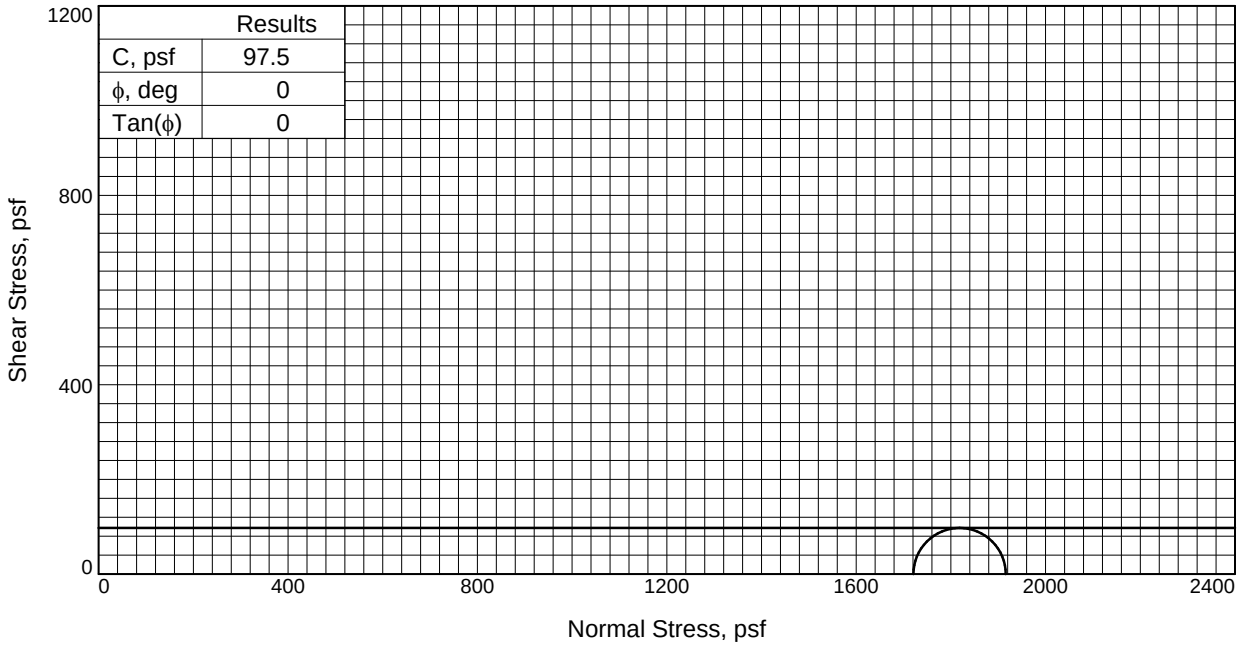
Client: ALDOT

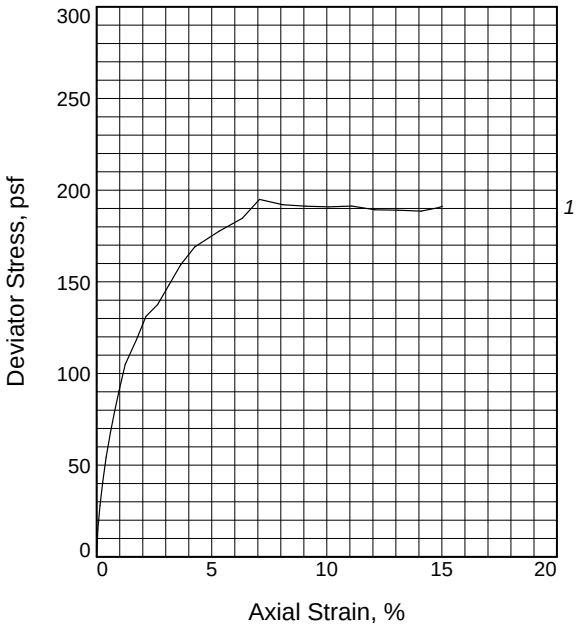
Project: Mobile River Bridge

Source of Sample: Lab #7772 **Depth:** 58.5'-60.5' **Sample Number:** BW-67 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	55.5
	Dry Density, pcf	67.7
	Saturation, %	101.6
	Void Ratio	1.4538
	Diameter, in.	2.758
	Height, in.	5.483
At Test	Water Content, %	50.2
	Dry Density, pcf	67.7
	Saturation, %	91.9
	Void Ratio	1.4538
	Diameter, in.	2.758
	Height, in.	5.483
Strain at peak, %		7.1
Back Pressure, psf		0.0
Cell Pressure, psf		1720.8
Fail. Stress, psf		195.0
Strain, %		7.1
Ult. Stress, psf		195.0
Strain, %		7.1
σ_1 Failure, psf		1915.8
σ_3 Failure, psf		1720.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(52))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

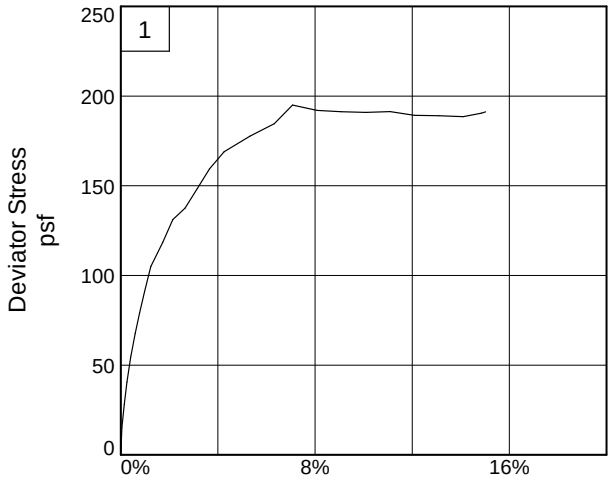
Project: Mobile River Bridge

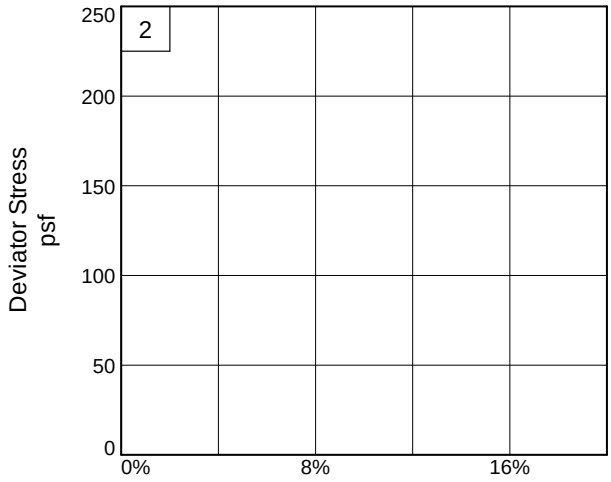
Source of Sample: Lab #7772 **Depth:** 33.5'-35.5'

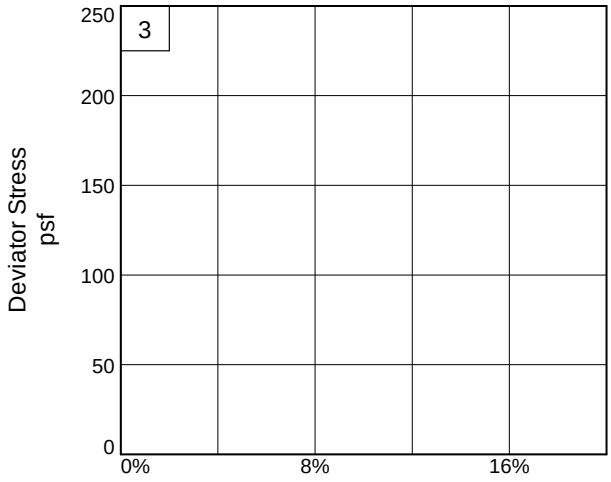
Sample Number: BW-78 T-2

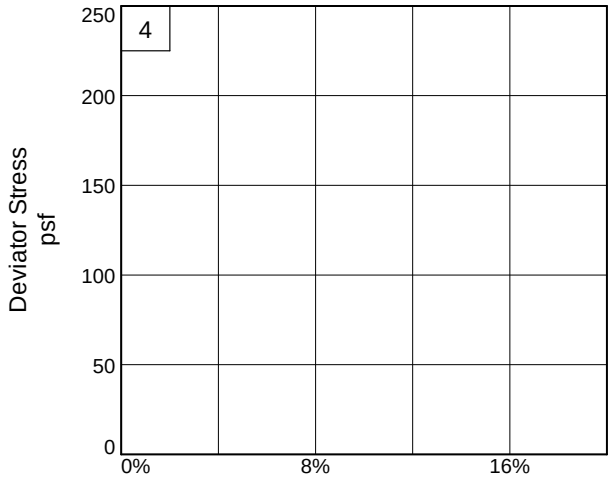
Proj. No.: 1511010228 **Date Sampled:**

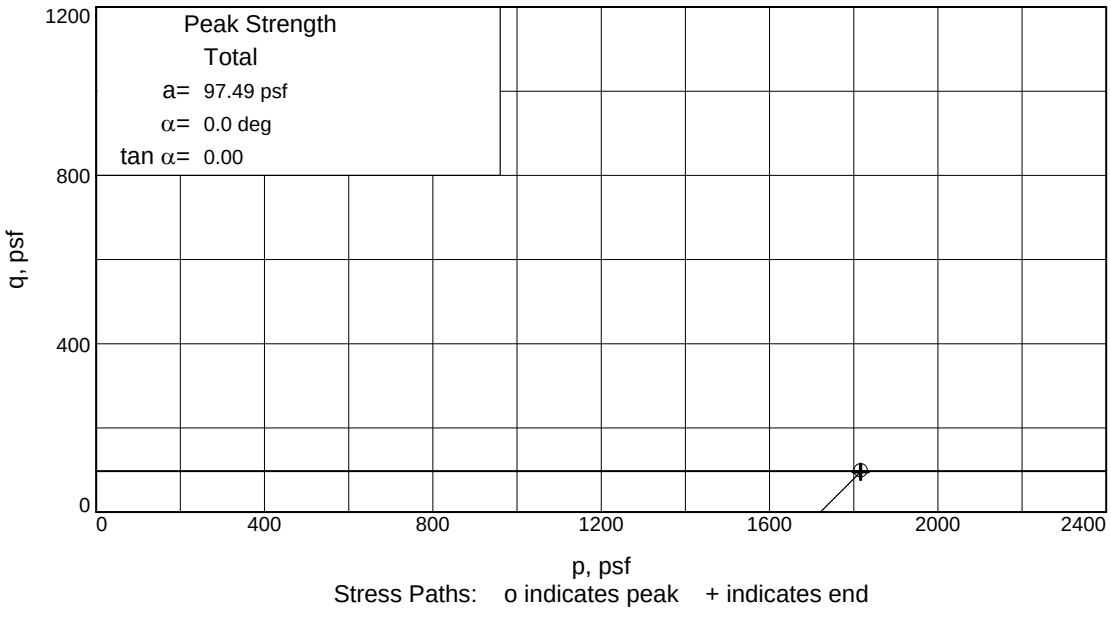
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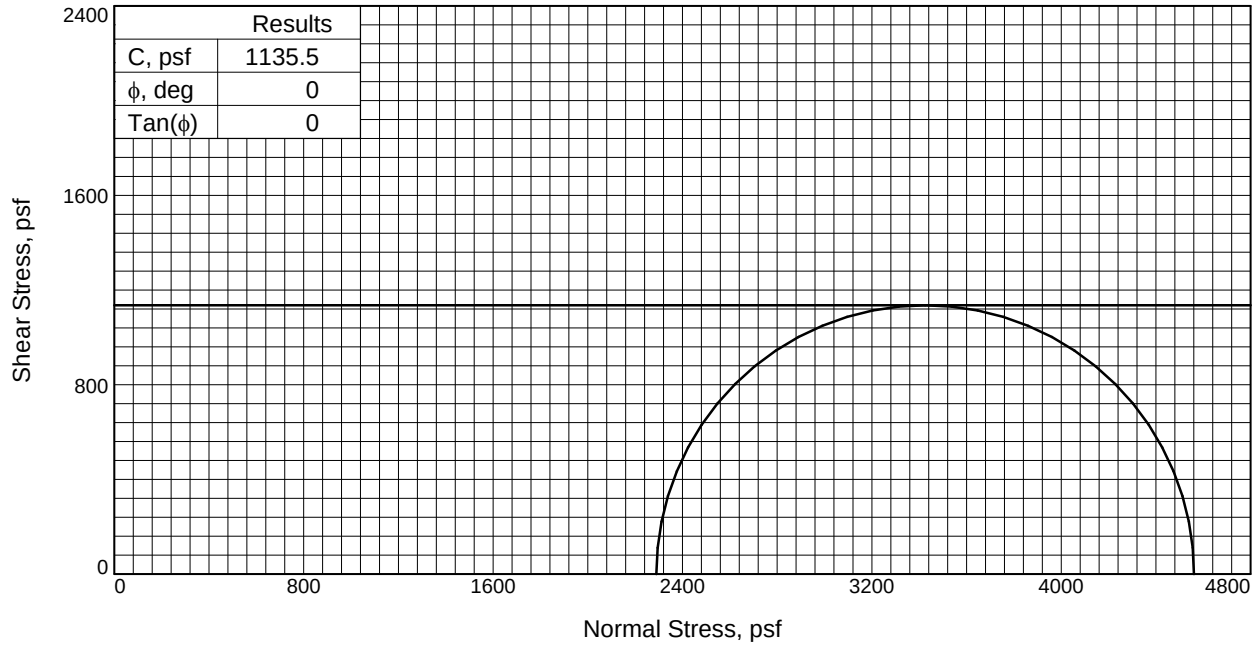


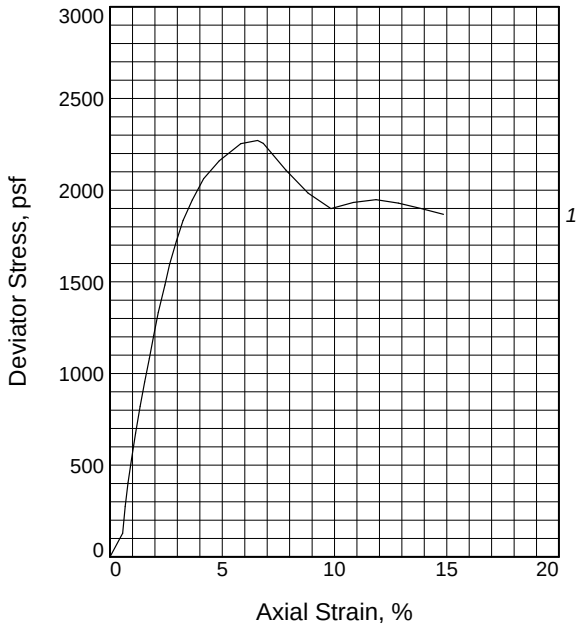




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 33.5'-35.5' **Sample Number:** BW-78 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	136.6
	Dry Density, pcf	35.5
	Saturation, %	98.7
	Void Ratio	3.6837
	Diameter, in.	2.825
	Height, in.	5.490
At Test	Water Content, %	93.2
	Dry Density, pcf	35.5
	Saturation, %	67.3
	Void Ratio	3.6837
	Diameter, in.	2.825
	Height, in.	5.490
Strain at peak, %		6.6
Back Pressure, psf		0.0
Cell Pressure, psf		2289.6
Fail. Stress, psf		2271.1
Strain, %		6.6
Ult. Stress, psf		2271.1
Strain, %		6.6
σ_1 Failure, psf		4560.7
σ_3 Failure, psf		2289.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY SILT(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Internal Conical

Figure _____

Client: ALDOT

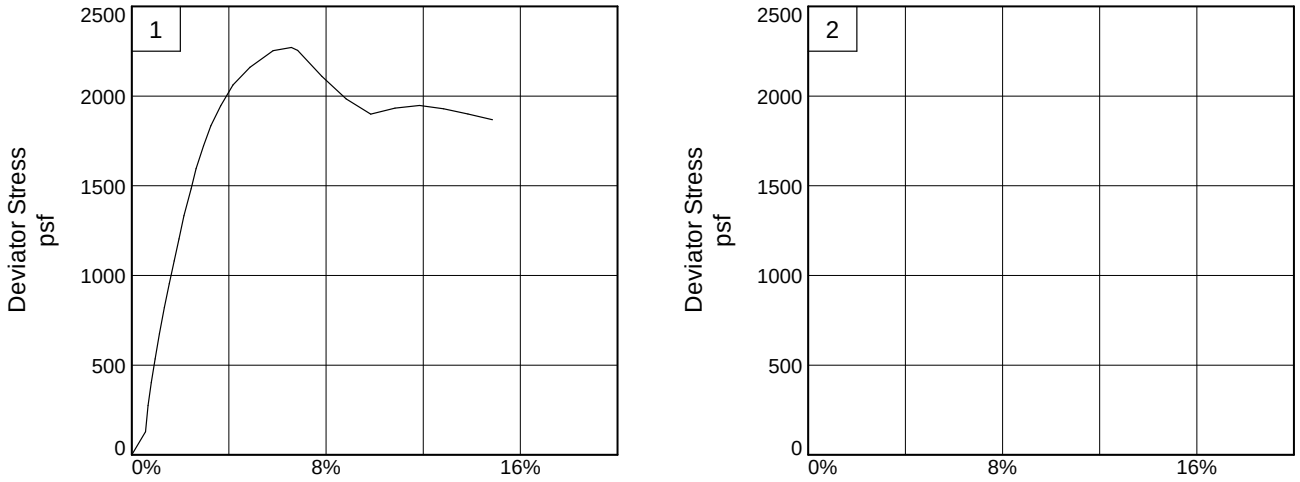
Project: Mobile River Bridge

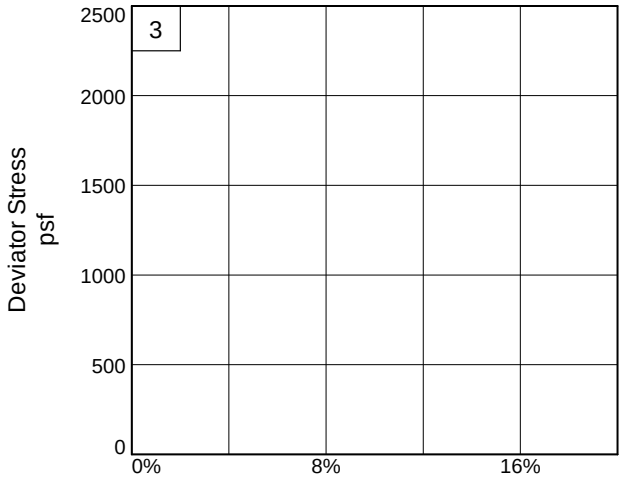
Source of Sample: Lab #7772 **Depth:** 43.5'-45.5'

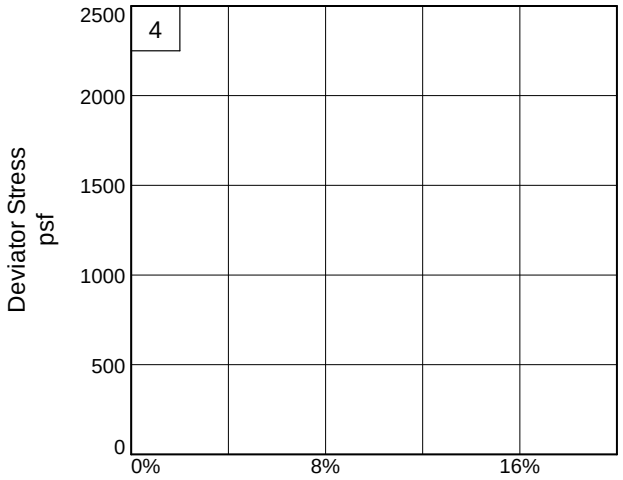
Sample Number: BW-79 T-3

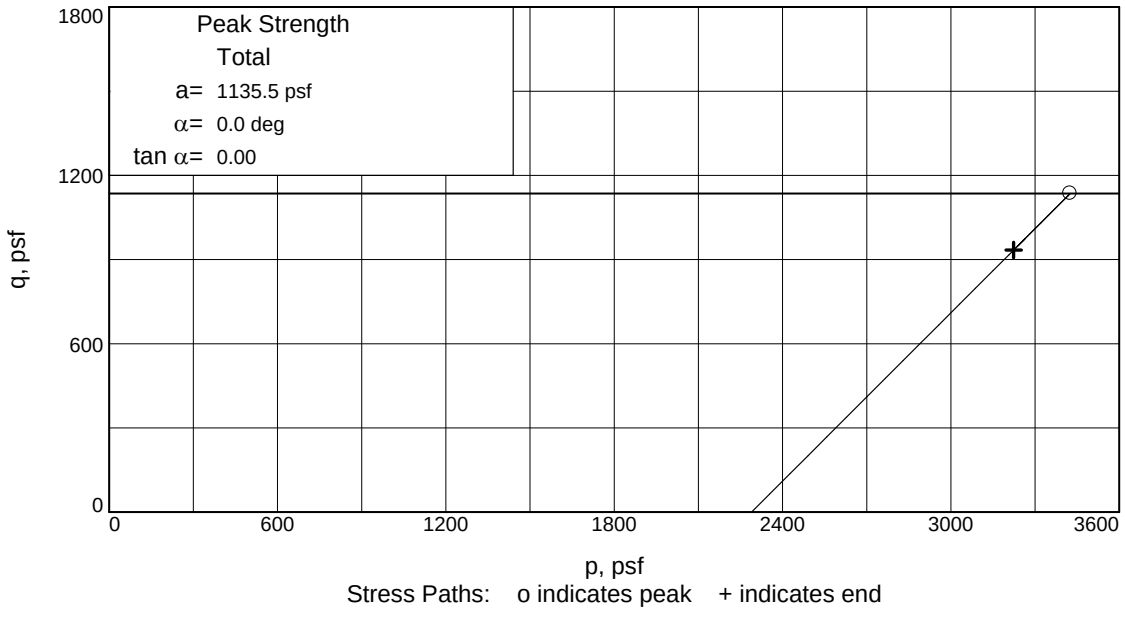
Proj. No.: 1511010228 **Date Sampled:**

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Thompson Engineering
Mobile, Alabama









Stress Paths: o indicates peak + indicates end

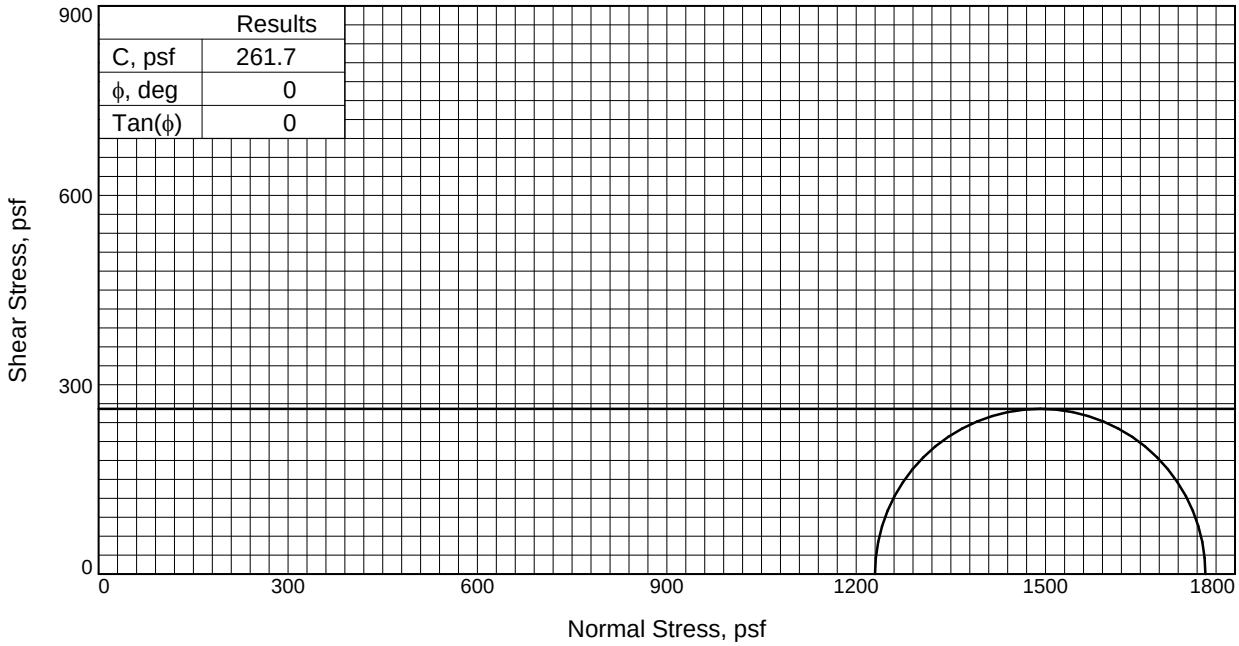
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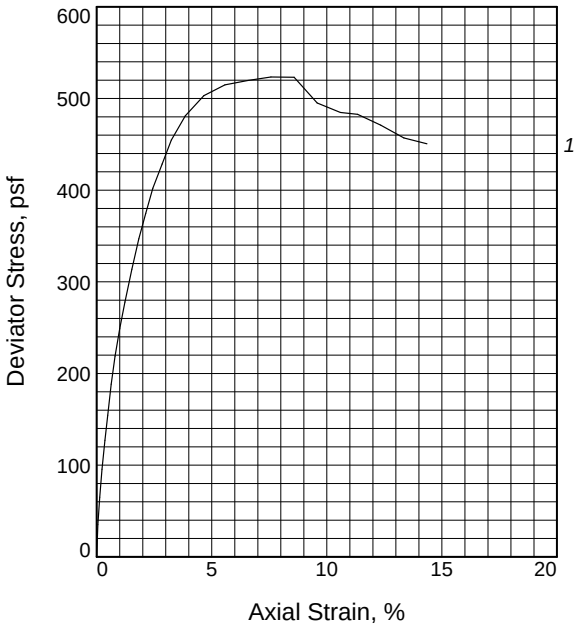
Project: Mobile River Bridge

Source of Sample: Lab #7772 **Depth:** 43.5'-45.5' **Sample Number:** BW-79 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	64.0
	Dry Density, pcf	63.1
	Saturation, %	104.3
	Void Ratio	1.6313
	Diameter, in.	2.787
	Height, in.	5.547
At Test	Water Content, %	53.8
	Dry Density, pcf	63.1
	Saturation, %	87.7
	Void Ratio	1.6313
	Diameter, in.	2.787
	Height, in.	5.547
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		1229.8
Fail. Stress, psf		523.5
Strain, %		7.6
Ult. Stress, psf		523.5
Strain, %		7.6
σ_1 Failure, psf		1753.2
σ_3 Failure, psf		1229.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(74))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

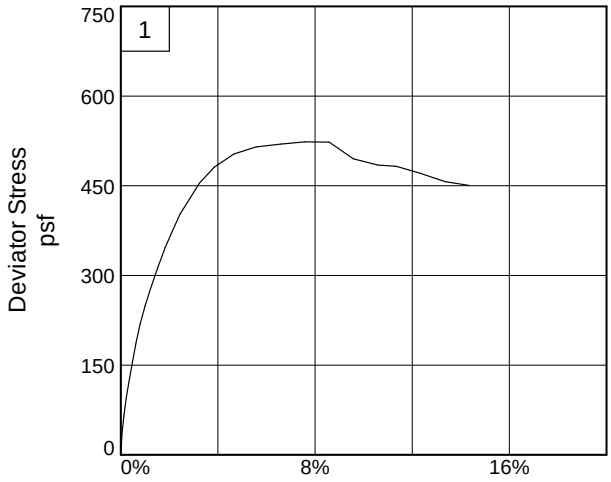
Project: Mobile River Bridge

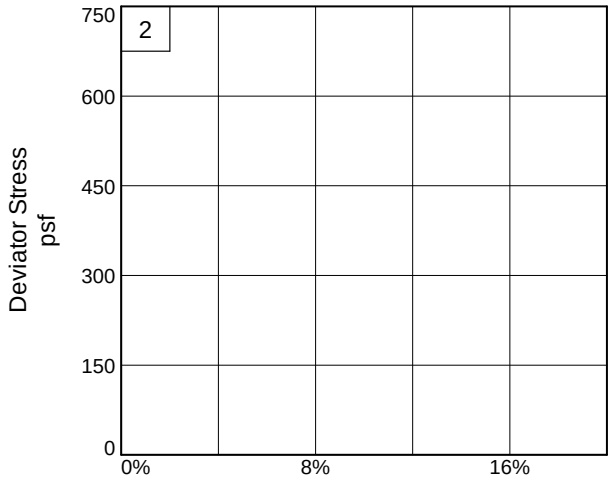
Source of Sample: Lab #7772 **Depth:** 23.5'-25.5'

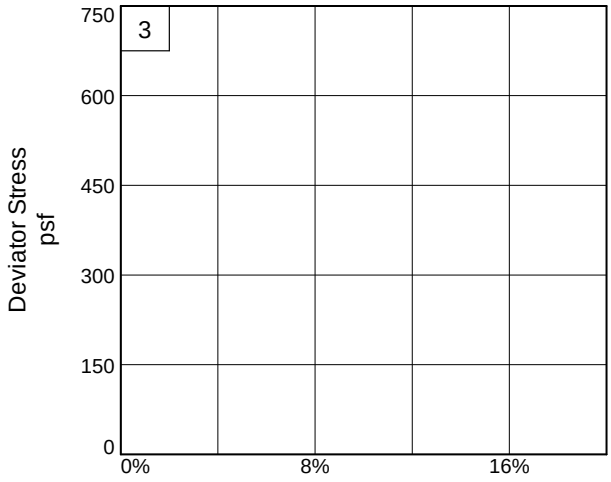
Sample Number: BW-80 T-1

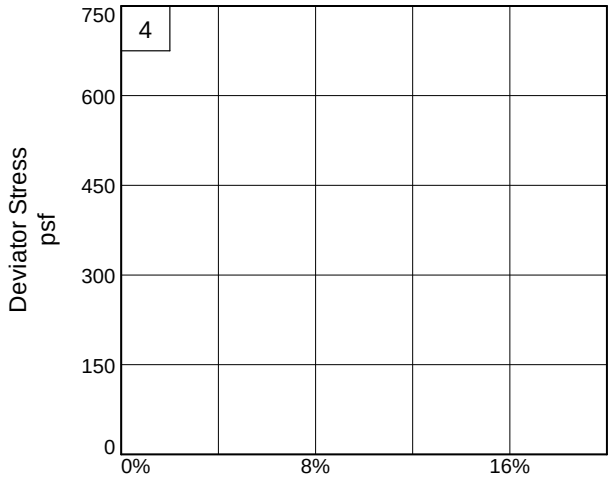
Proj. No.: 1511010228 **Date Sampled:**

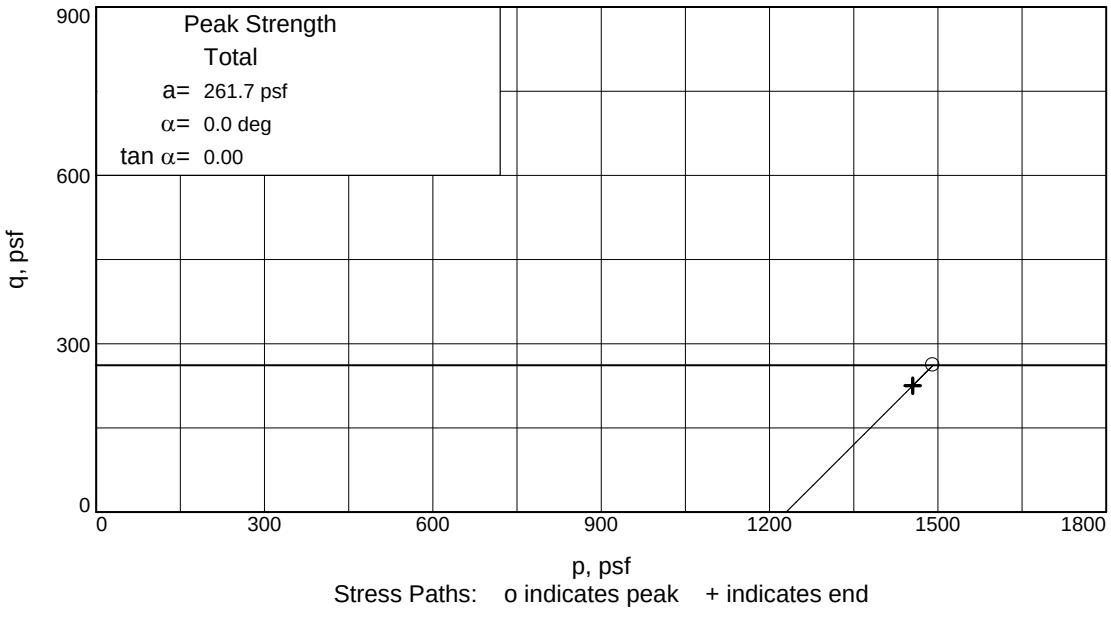
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Thompson Engineering
Mobile, Alabama





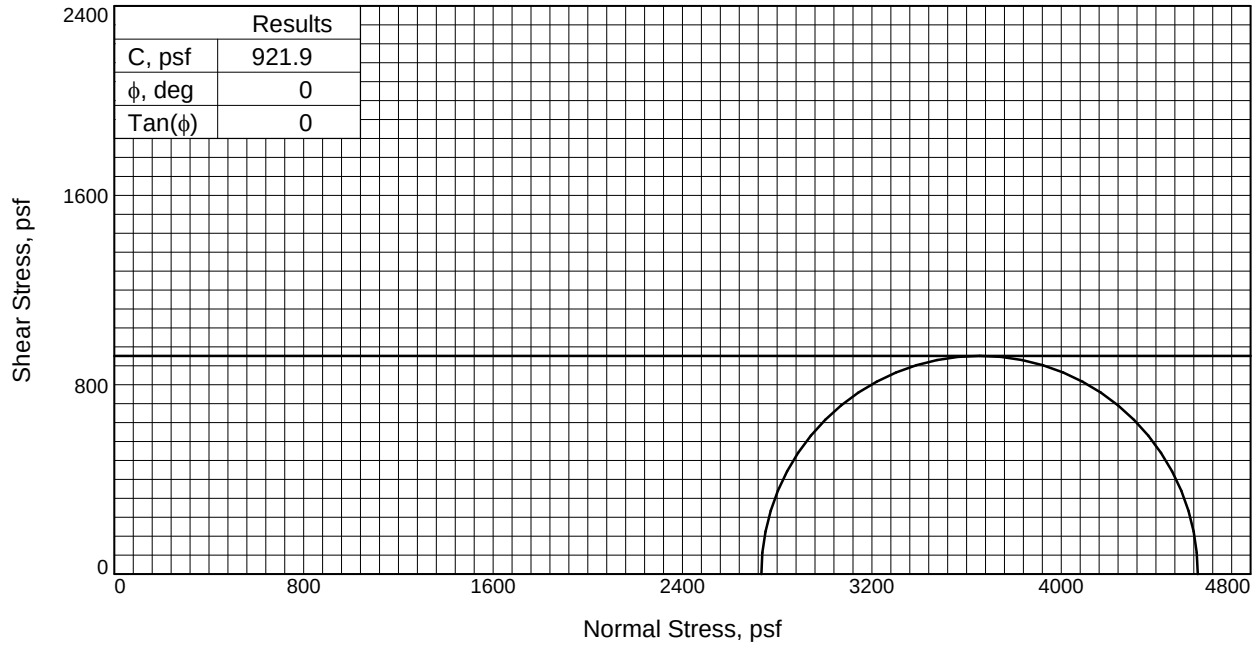


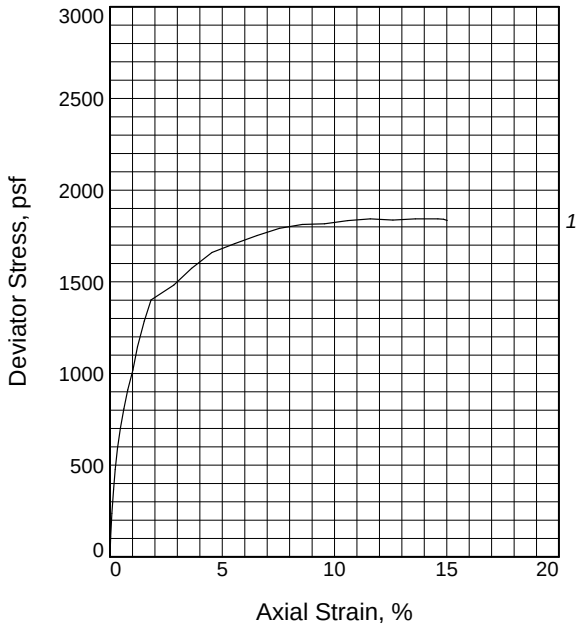




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 23.5'-25.5' **Sample Number:** BW-80 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	35.8
	Dry Density, pcf	88.5
	Saturation, %	108.7
	Void Ratio	0.8753
	Diameter, in.	2.831
	Height, in.	5.504
At Test	Water Content, %	30.1
	Dry Density, pcf	88.5
	Saturation, %	91.4
	Void Ratio	0.8753
	Diameter, in.	2.831
	Height, in.	5.504
Strain at peak, %		14.6
Back Pressure, psf		0.0
Cell Pressure, psf		2733.1
Fail. Stress, psf		1843.7
Strain, %		14.6
Ult. Stress, psf		1843.7
Strain, %		14.6
σ_1 Failure, psf		4576.9
σ_3 Failure, psf		2733.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(49))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

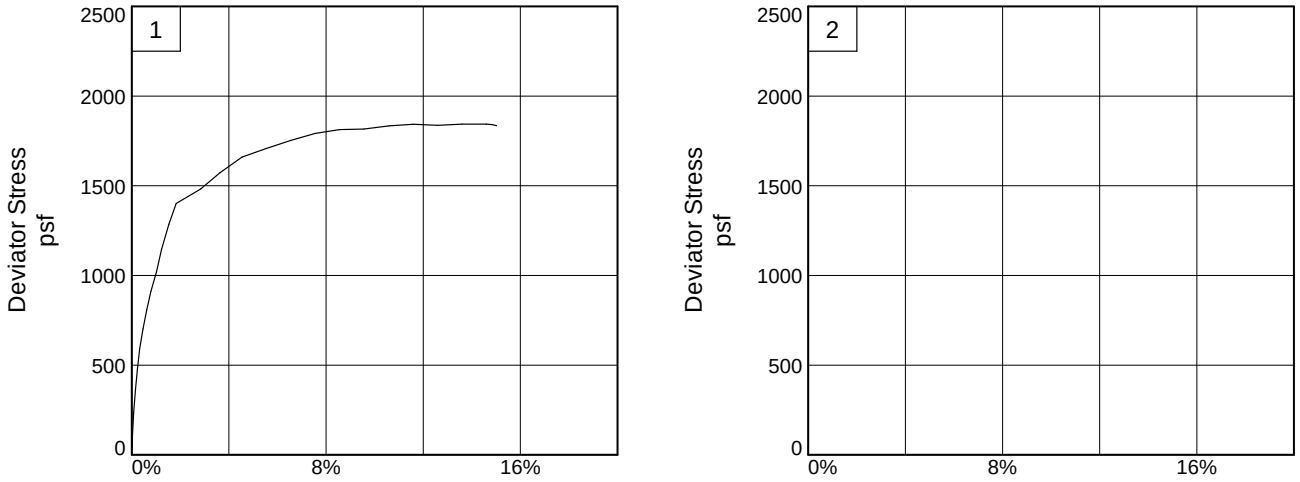
Project: Mobile River Bridge

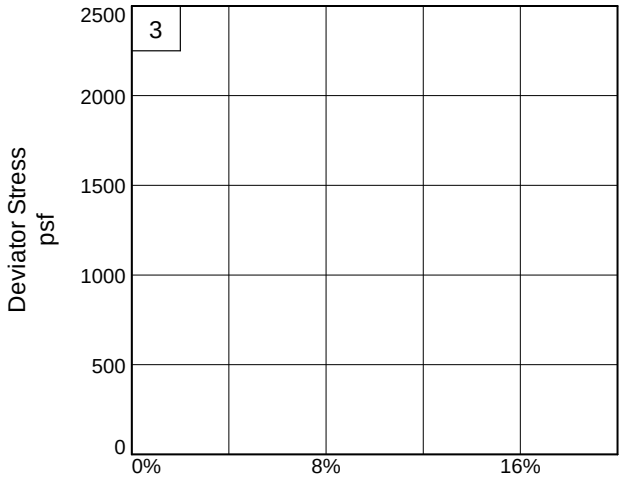
Source of Sample: Lab #7772 **Depth:** 53.5'-55.5'

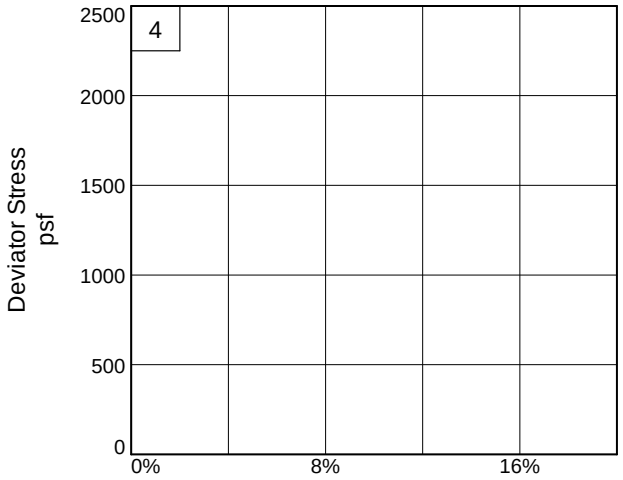
Sample Number: BW-80 T-3

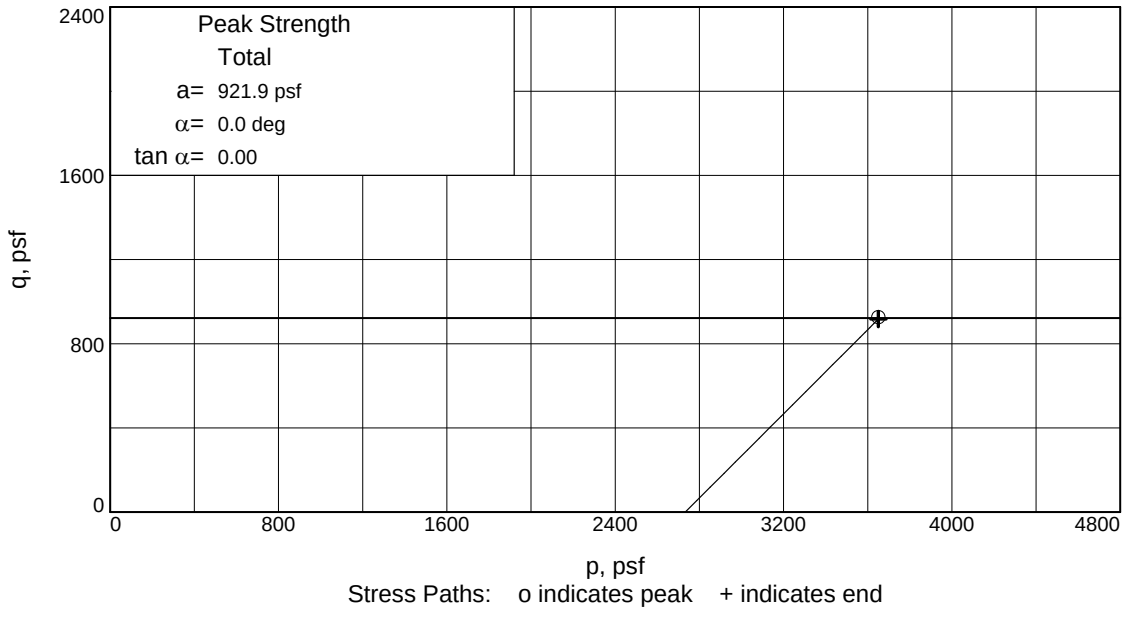
Proj. No.: 1511010228 **Date Sampled:**

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Thompson Engineering
Mobile, Alabama



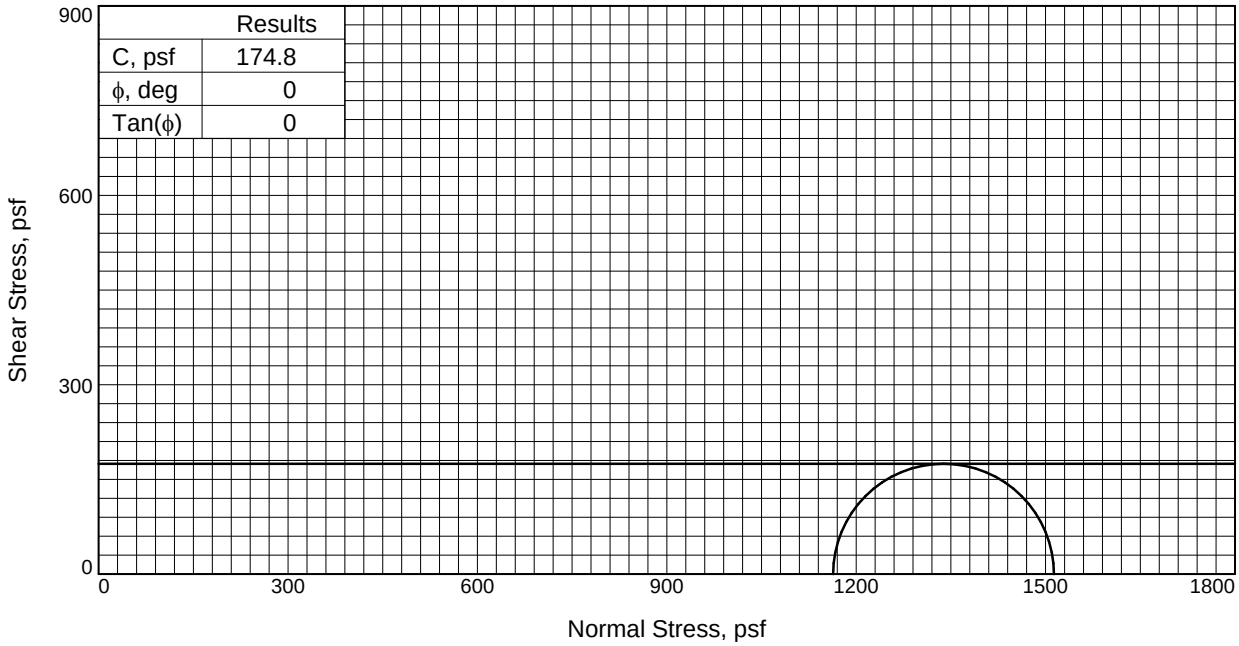


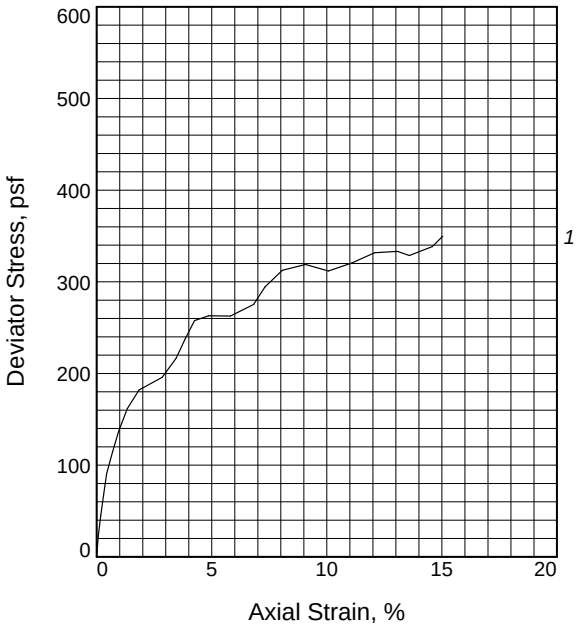




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7772 **Depth:** 53.5'-55.5' **Sample Number:** BW-80 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	52.5
	Dry Density, pcf	75.5
	Saturation, %	116.4
	Void Ratio	1.1998
	Diameter, in.	2.795
	Height, in.	5.459
At Test	Water Content, %	50.0
	Dry Density, pcf	75.5
	Saturation, %	110.9
	Void Ratio	1.1998
	Diameter, in.	2.795
	Height, in.	5.459
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		1163.5
Fail. Stress, psf		349.7
Strain, %		15.0
Ult. Stress, psf		349.7
Strain, %		15.0
σ_1 Failure, psf		1513.2
σ_3 Failure, psf		1163.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(16))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

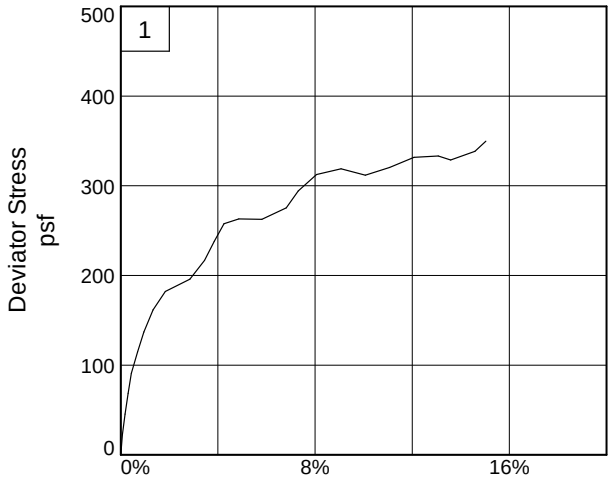
Project: Mobile River Bridge

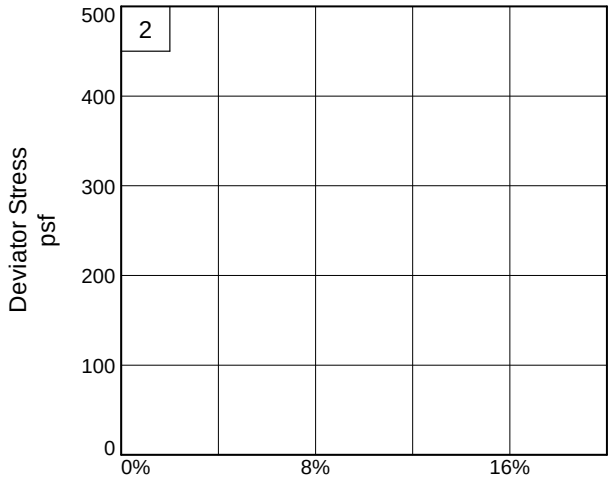
Source of Sample: Lab #7746 **Depth:** 23.5'-25.5'

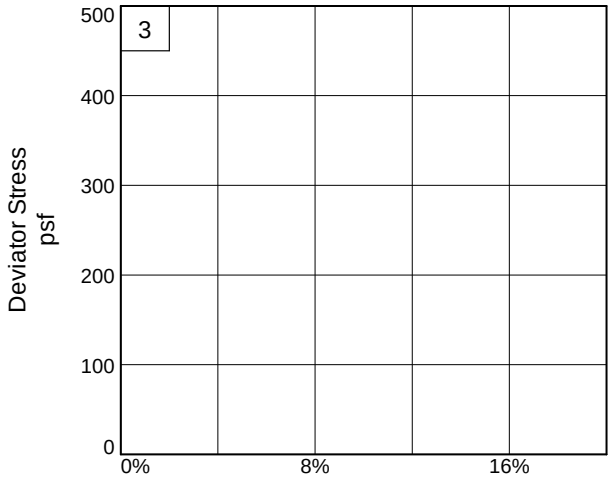
Sample Number: BW-86 T-1

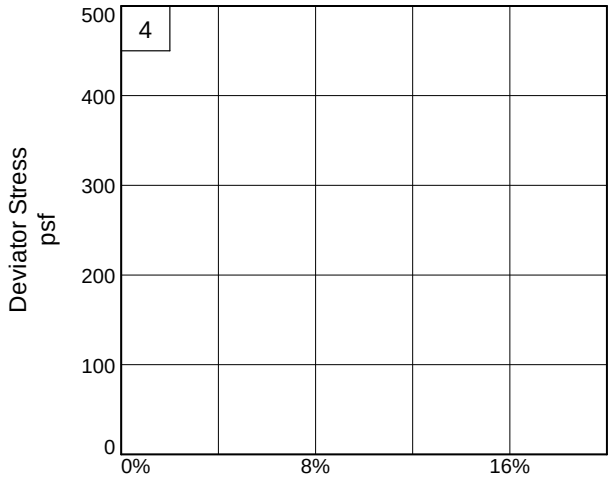
Proj. No.: 1511010228 **Date Sampled:**

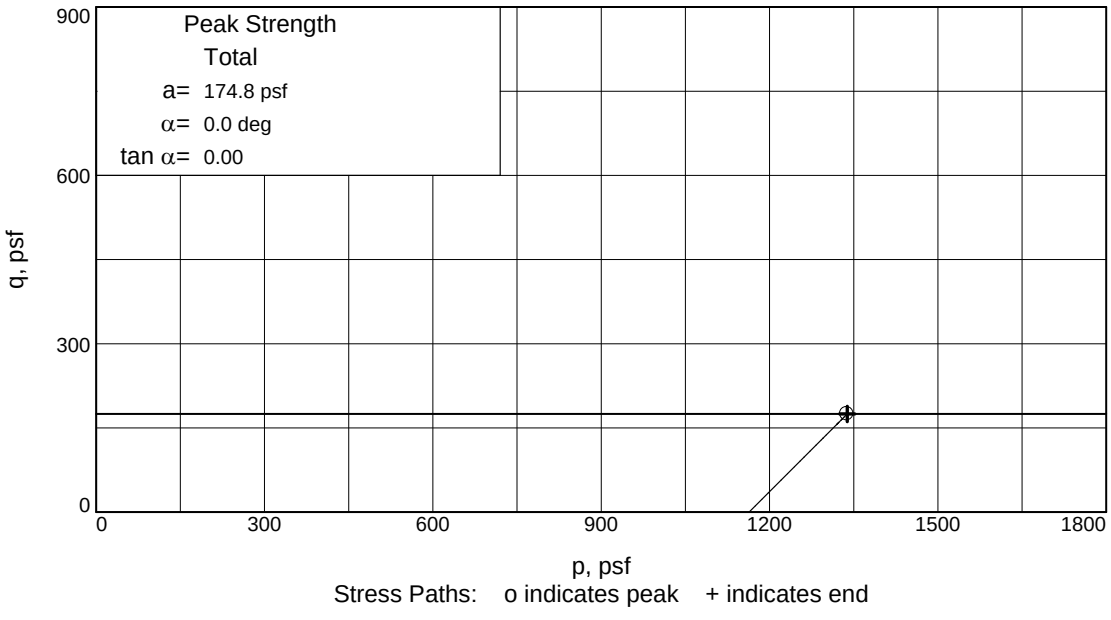
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Thompson Engineering
Mobile, Alabama





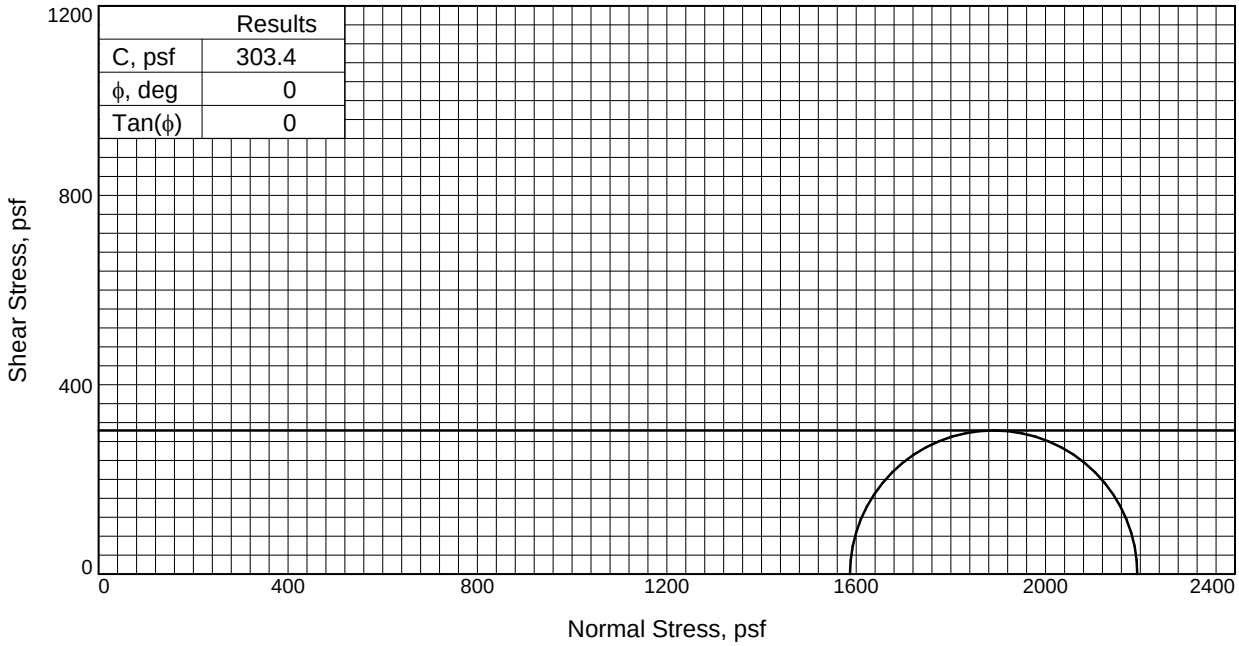


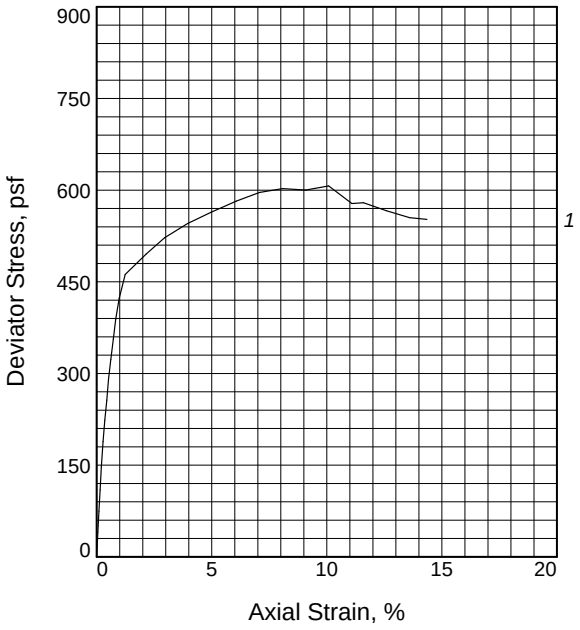




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7746 **Depth:** 23.5'-25.5' **Sample Number:** BW-86 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	56.8
	Dry Density, pcf	68.3
	Saturation, %	105.4
	Void Ratio	1.4325
	Diameter, in.	2.781
	Height, in.	5.357
At Test	Water Content, %	60.6
	Dry Density, pcf	68.3
	Saturation, %	112.5
	Void Ratio	1.4325
	Diameter, in.	2.781
	Height, in.	5.357
Strain at peak, %		10.1
Back Pressure, psf		0.0
Cell Pressure, psf		1586.9
Fail. Stress, psf		606.8
Strain, %		10.1
Ult. Stress, psf		606.8
Strain, %		10.1
σ_1 Failure, psf		2193.7
σ_3 Failure, psf		1586.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(46))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

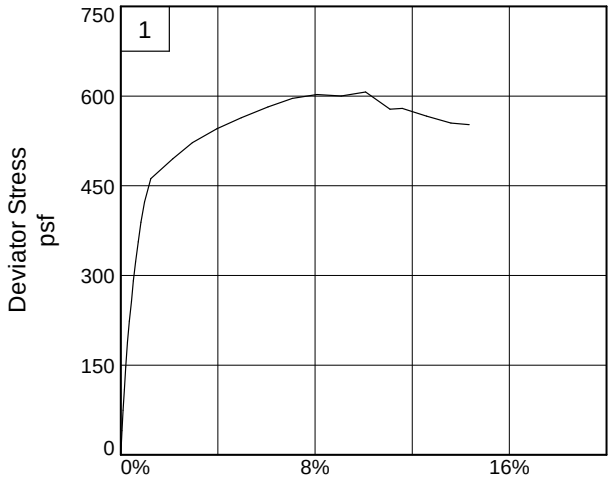
Project: Mobile River Bridge

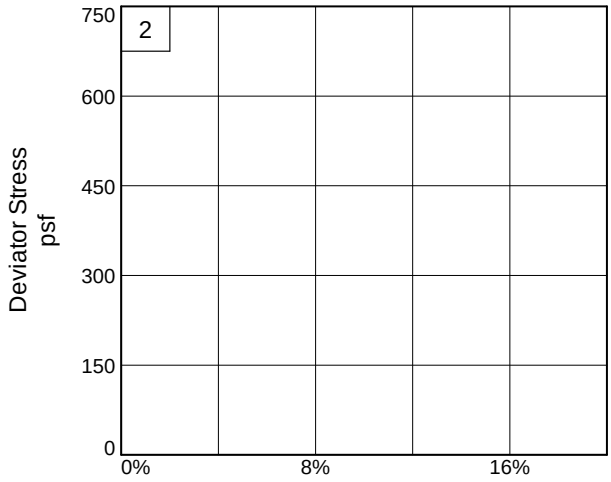
Source of Sample: Lab #7746 **Depth:** 33.5'-35.5'

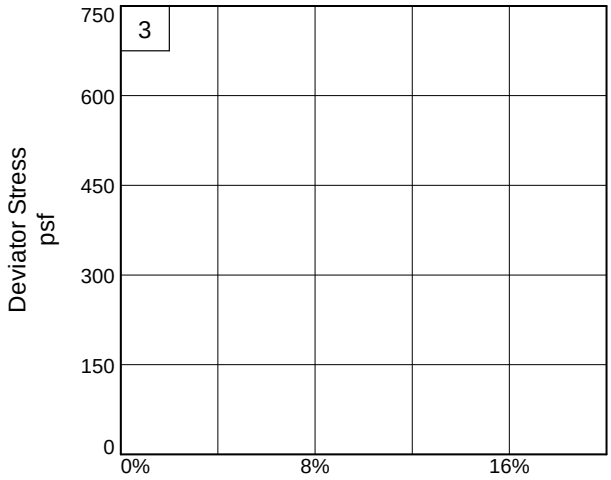
Sample Number: BW-86 T-2

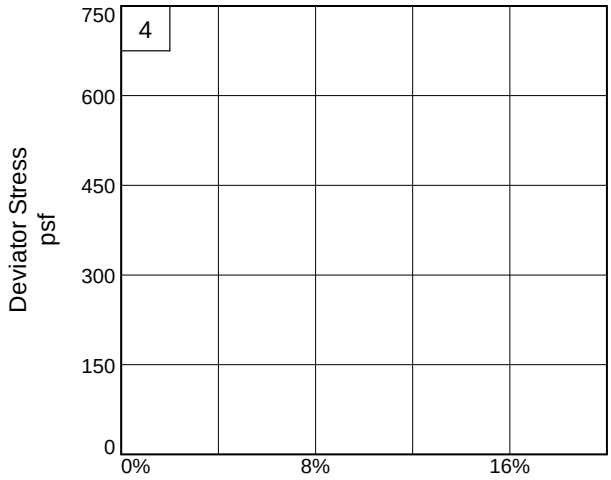
Proj. No.: 1511010228 **Date Sampled:**

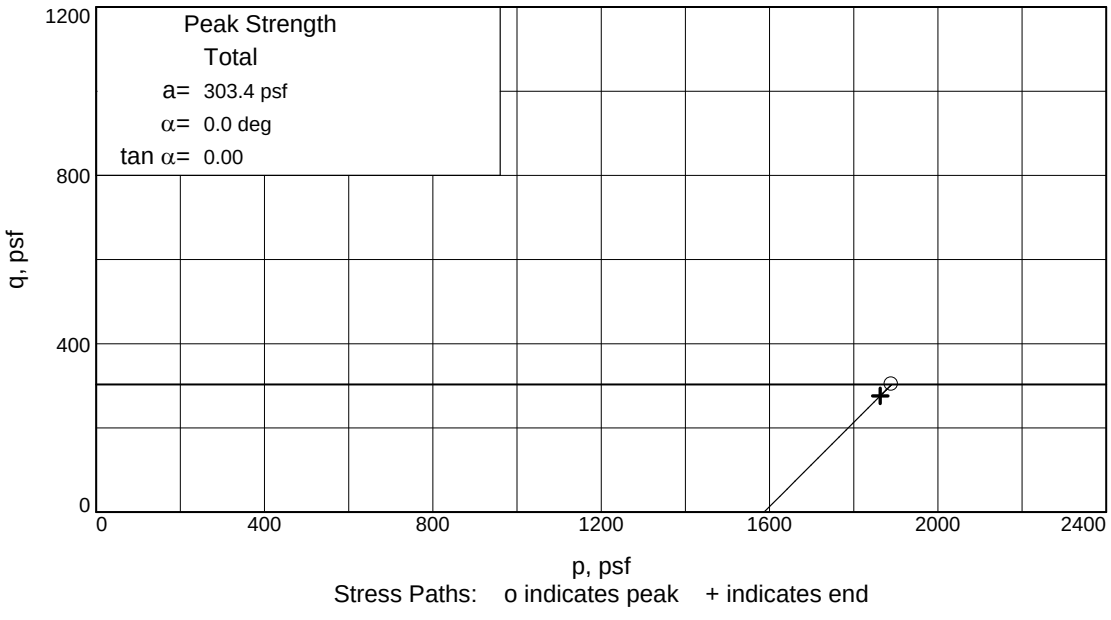
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Mobile, Alabama





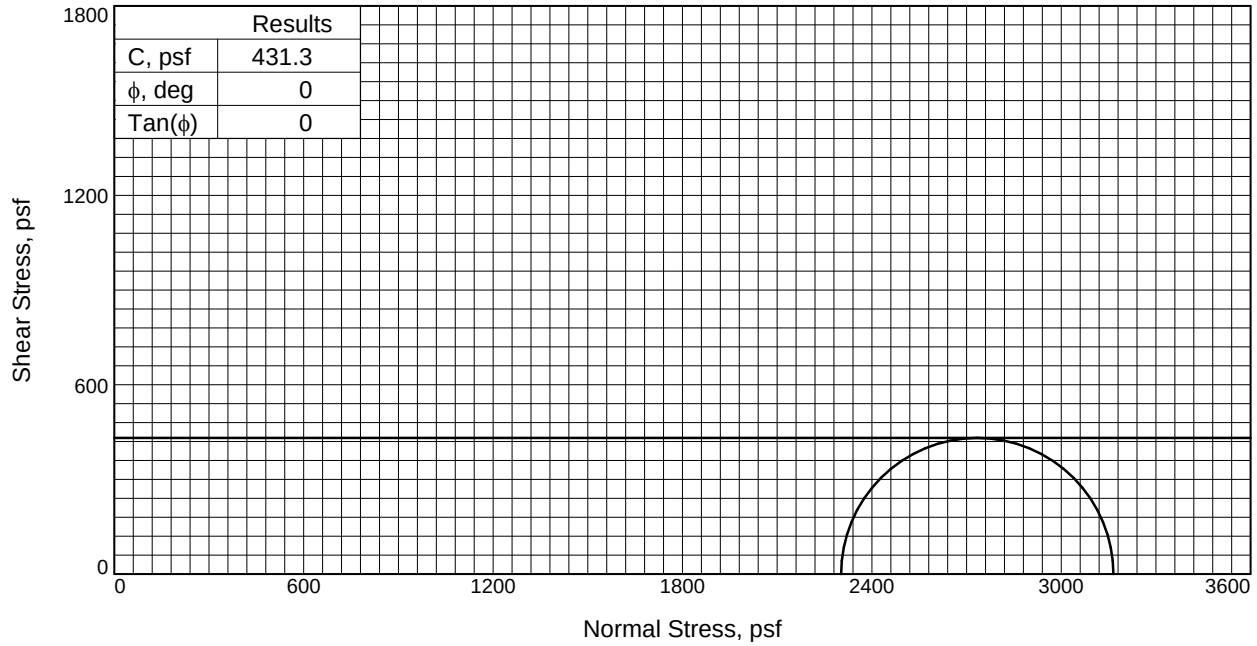


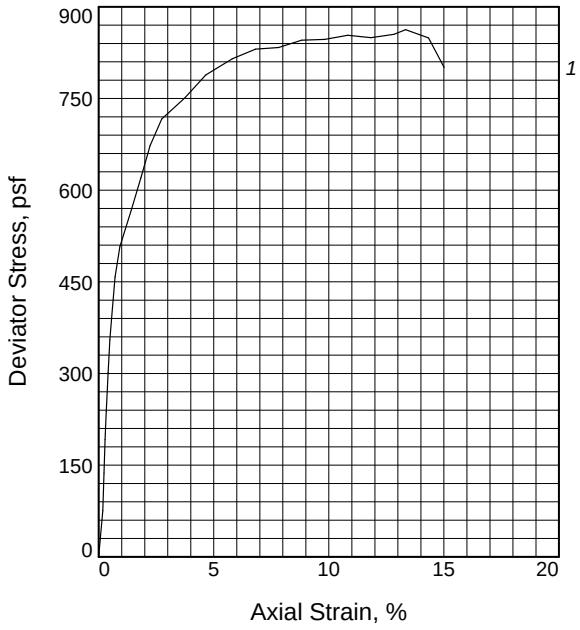




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7746 **Depth:** 33.5'-35.5' **Sample Number:** BW-86 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	62.7
	Dry Density, pcf	66.2
	Saturation, %	110.6
	Void Ratio	1.5077
	Diameter, in.	2.788
	Height, in.	5.410
At Test	Water Content, %	54.7
	Dry Density, pcf	66.2
	Saturation, %	96.5
	Void Ratio	1.5077
	Diameter, in.	2.788
	Height, in.	5.410
Strain at peak, %		13.3
Back Pressure, psf		0.0
Cell Pressure, psf		2302.6
Fail. Stress, psf		862.5
Strain, %		13.3
Ult. Stress, psf		862.5
Strain, %		13.3
σ_1 Failure, psf		3165.1
σ_3 Failure, psf		2302.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(39))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

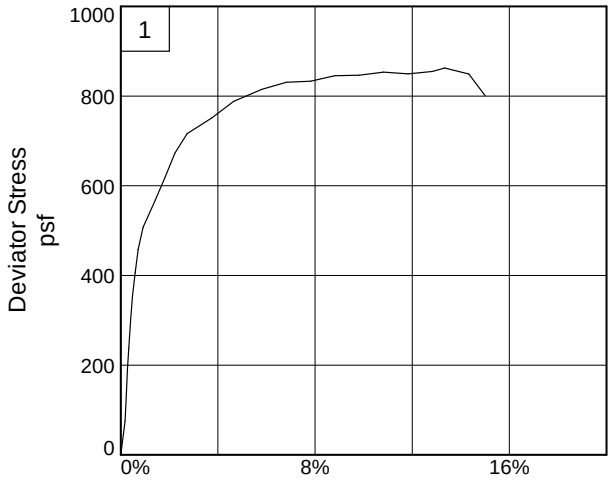
Project: Mobile River Bridge

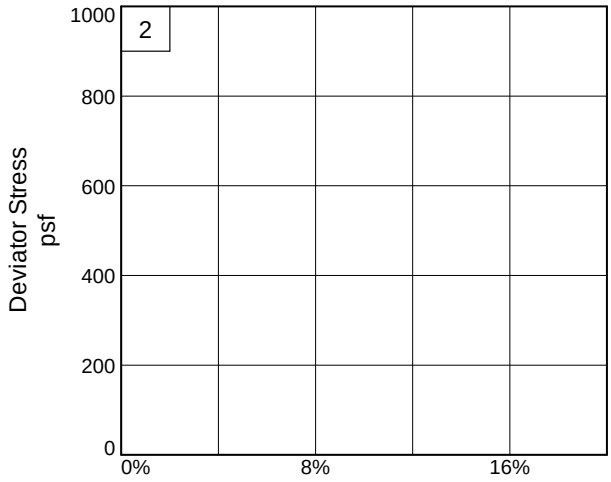
Source of Sample: Lab #7746 **Depth:** 48.5'-50.5'

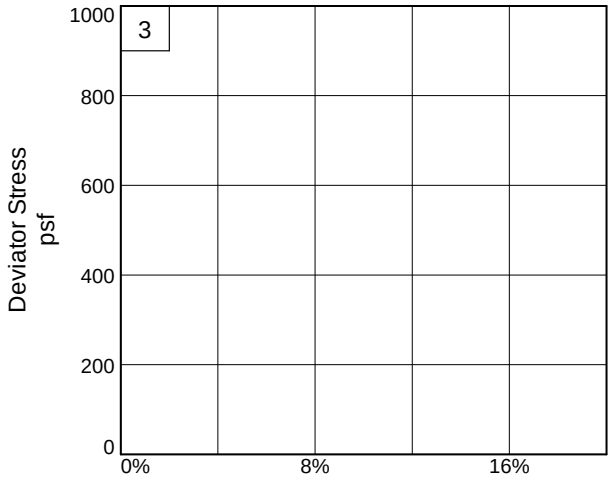
Sample Number: BW-86 T-4

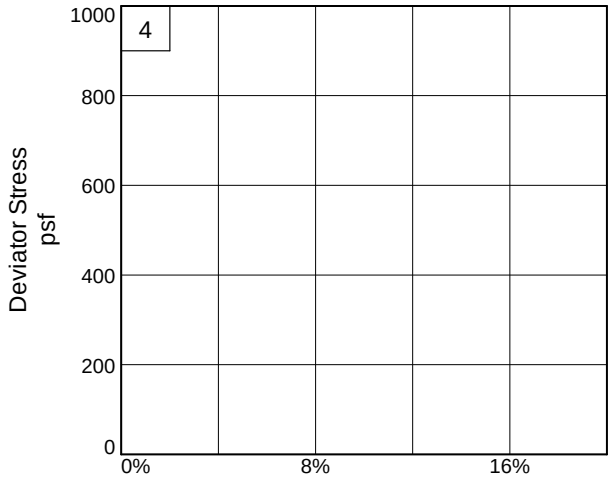
Proj. No.: 1511010228 **Date Sampled:**

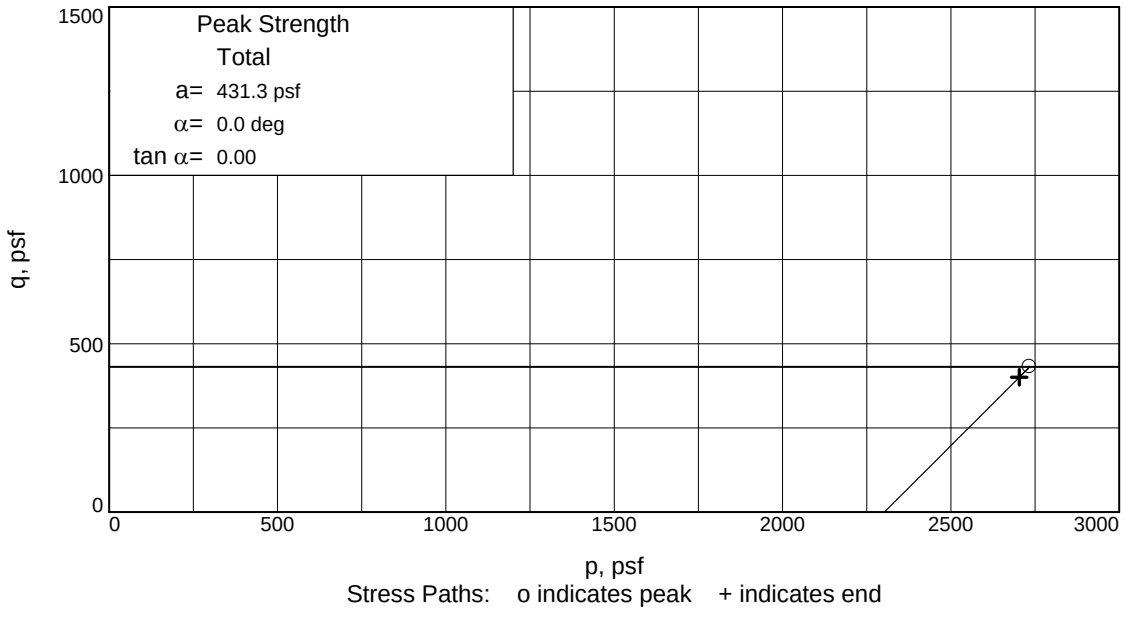
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

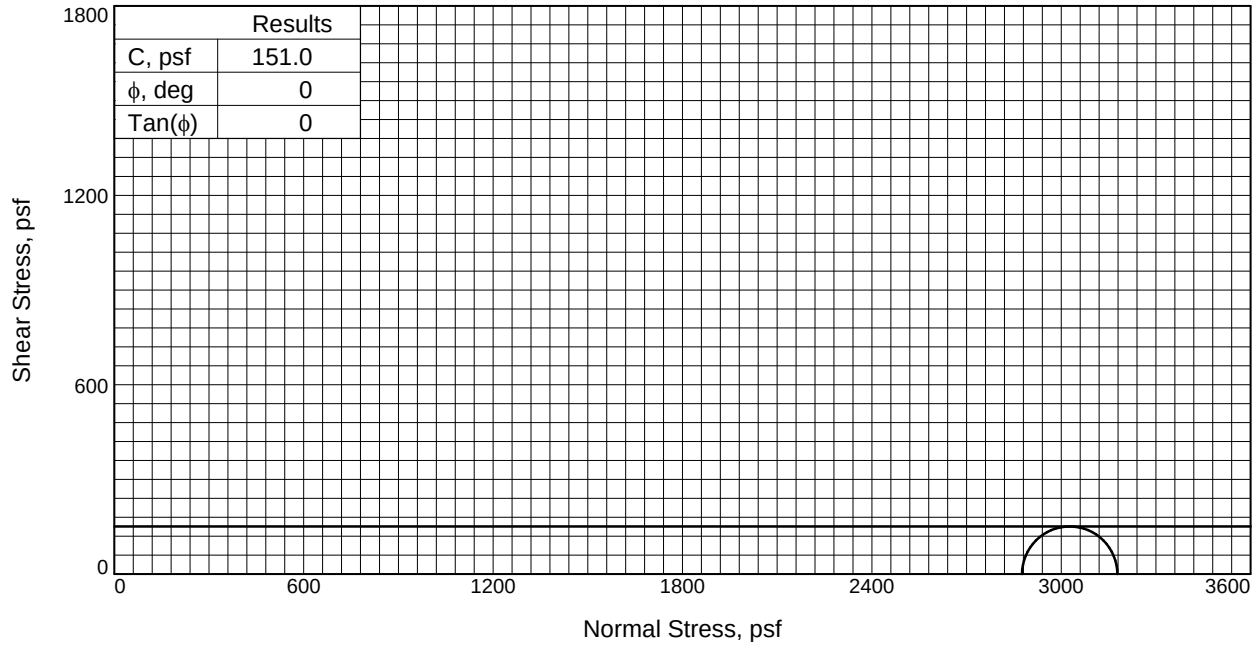
Client: ALDOT

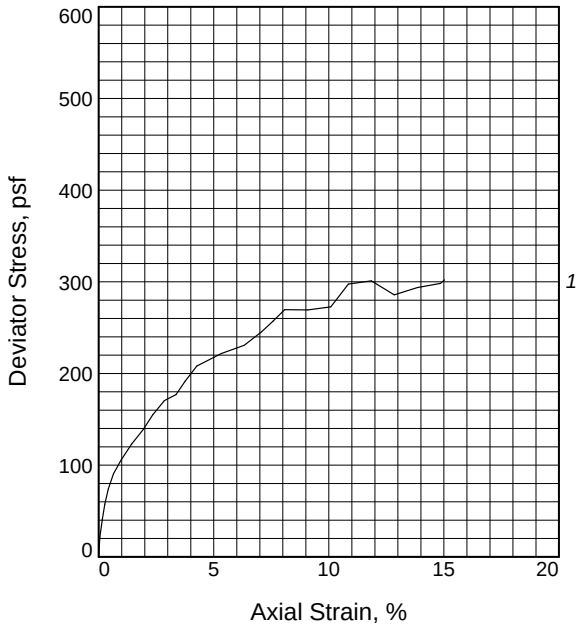
Project: Mobile River Bridge

Source of Sample: Lab #7746 **Depth:** 48.5'-50.5' **Sample Number:** BW-86 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	45.6
	Dry Density, pcf	77.7
	Saturation, %	106.7
	Void Ratio	1.1361
	Diameter, in.	2.813
	Height, in.	5.493
At Test	Water Content, %	42.7
	Dry Density, pcf	77.7
	Saturation, %	100.0
	Void Ratio	1.1361
	Diameter, in.	2.813
	Height, in.	5.493
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		2875.7
Fail. Stress, psf		302.0
Strain, %		15.0
Ult. Stress, psf		302.0
Strain, %		15.0
σ_1 Failure, psf		3177.7
σ_3 Failure, psf		2875.7

Type of Test:
Unconsolidated Undrained

Sample Type:

Description: LEAN CLAY with SAND(CL A-6(17))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

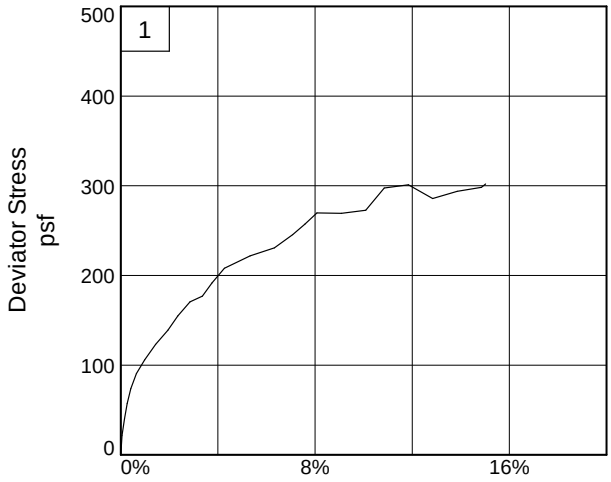
Project: Mobile River Bridge

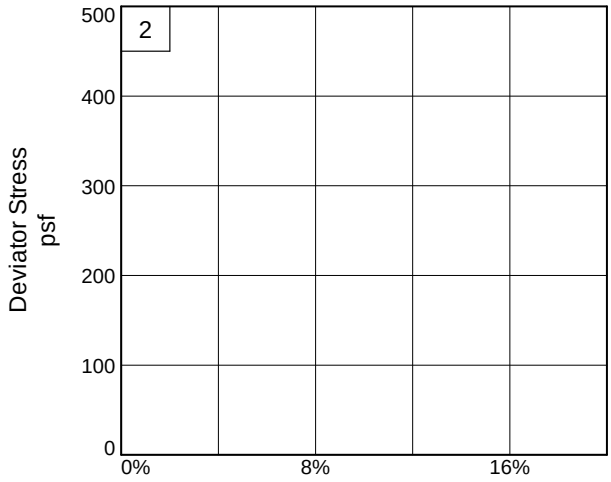
Source of Sample: Lab #7746 **Depth:** 58.5'-60.5'

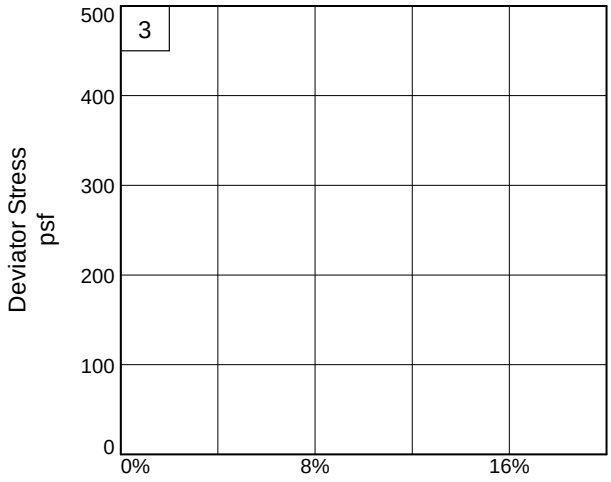
Sample Number: BW-86 T-5

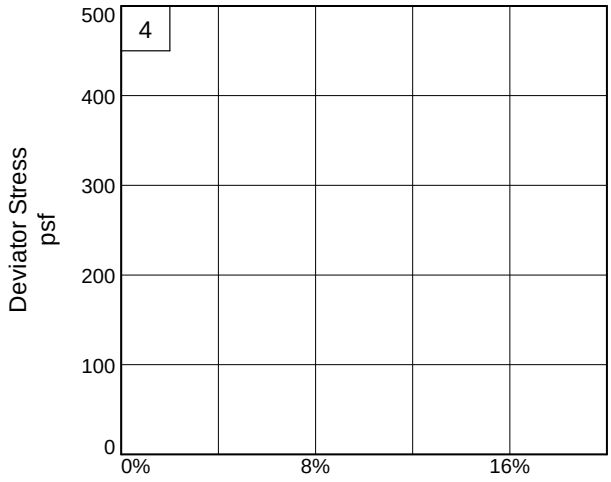
Proj. No.: 1511010228 **Date Sampled:**

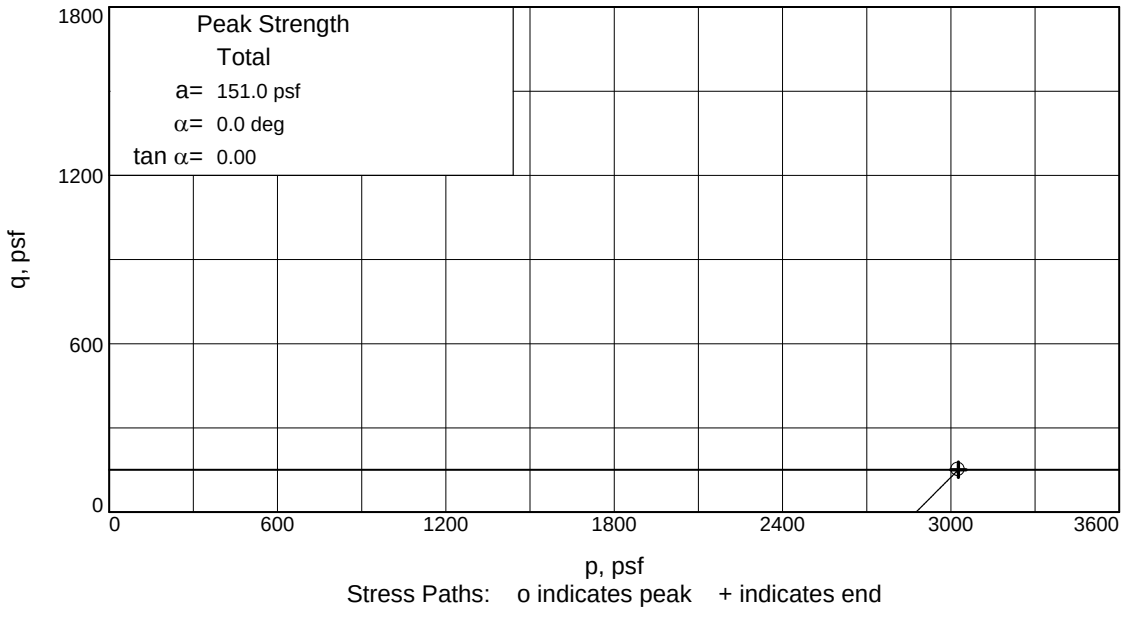
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Mobile, Alabama





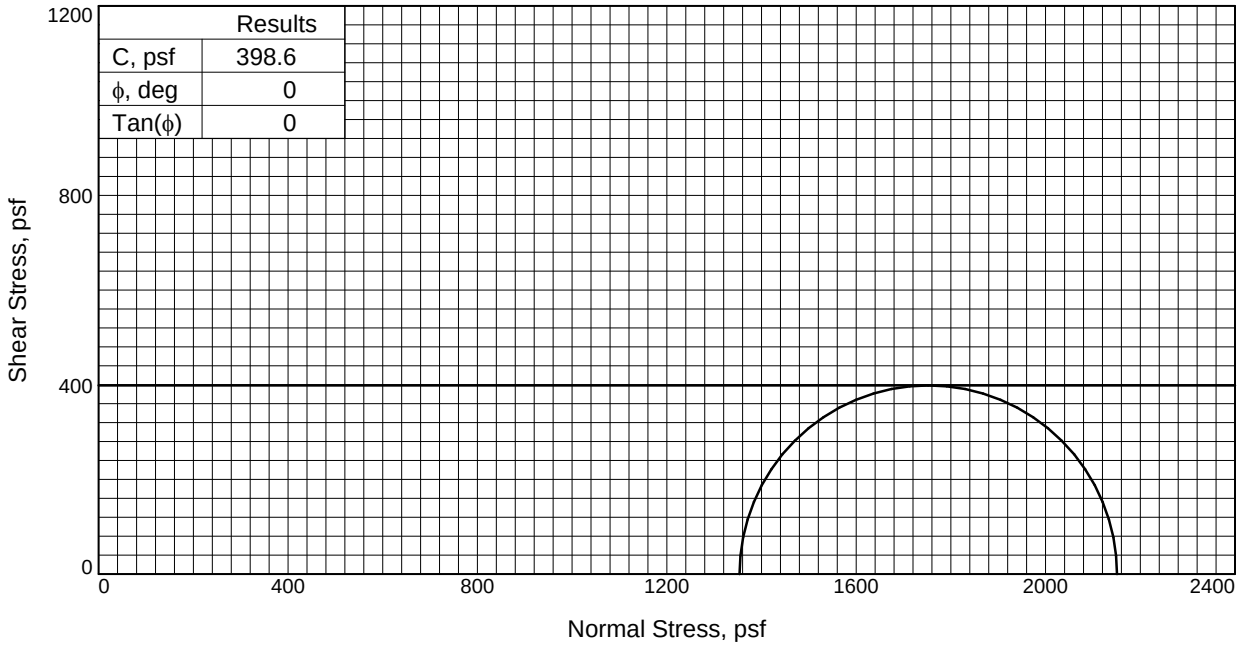


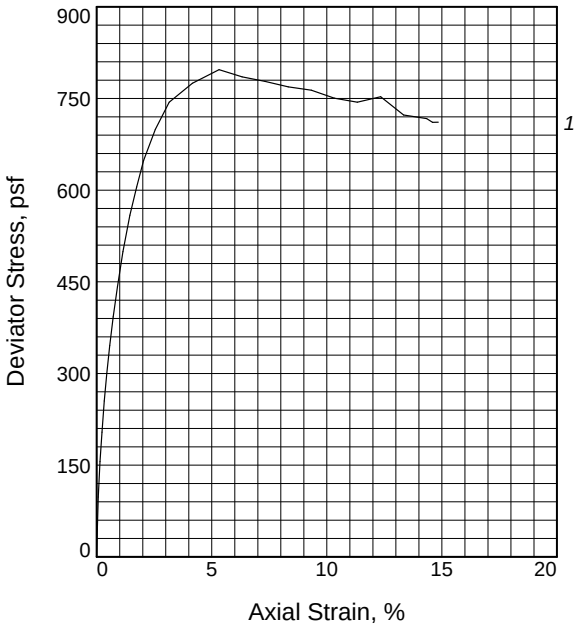




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7746 **Depth:** 58.5'-60.5' **Sample Number:** BW-86 T-5
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	67.9
	Dry Density, pcf	60.5
	Saturation, %	103.5
	Void Ratio	1.7461
	Diameter, in.	2.812
	Height, in.	5.339
At Test	Water Content, %	69.4
	Dry Density, pcf	60.5
	Saturation, %	105.7
	Void Ratio	1.7461
	Diameter, in.	2.812
	Height, in.	5.339
Strain at peak, %		5.3
Back Pressure, psf		0.0
Cell Pressure, psf		1353.6
Fail. Stress, psf		797.2
Strain, %		5.3
Ult. Stress, psf		797.2
Strain, %		5.3
σ_1 Failure, psf		2150.8
σ_3 Failure, psf		1353.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(51))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

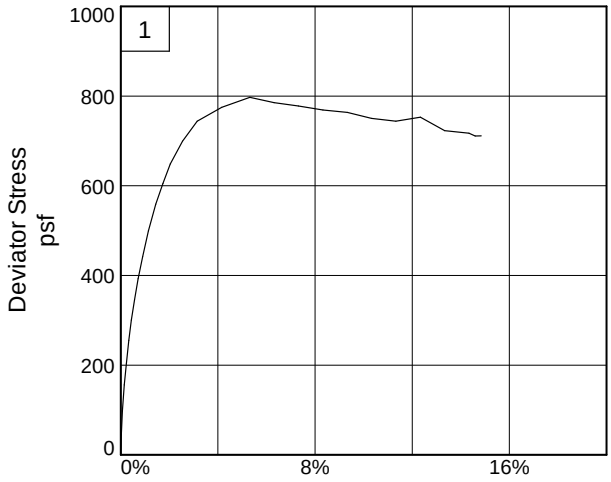
Project: Mobile River Bridge

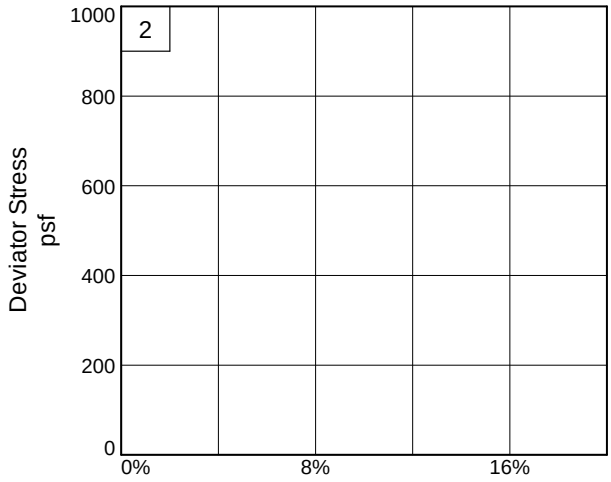
Source of Sample: Lab #7746 **Depth:** 28.5'-30.5'

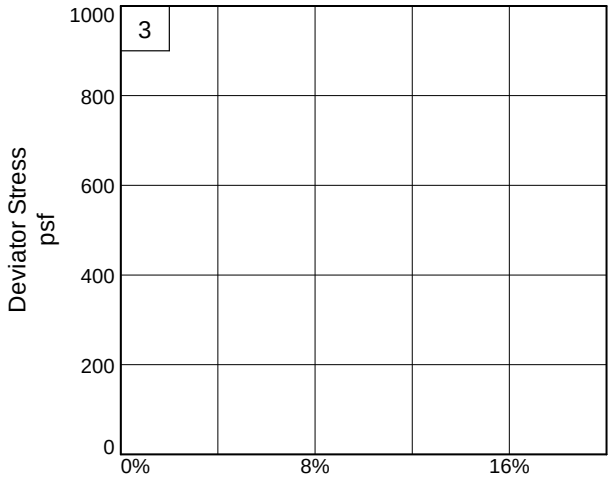
Sample Number: BW-87 T-1

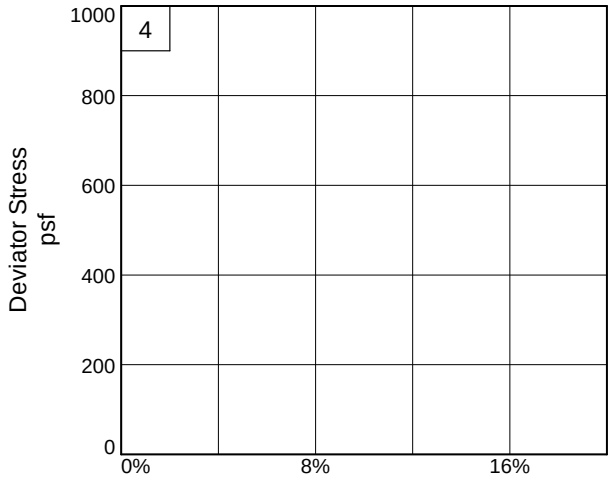
Proj. No.: 1511010228 **Date Sampled:**

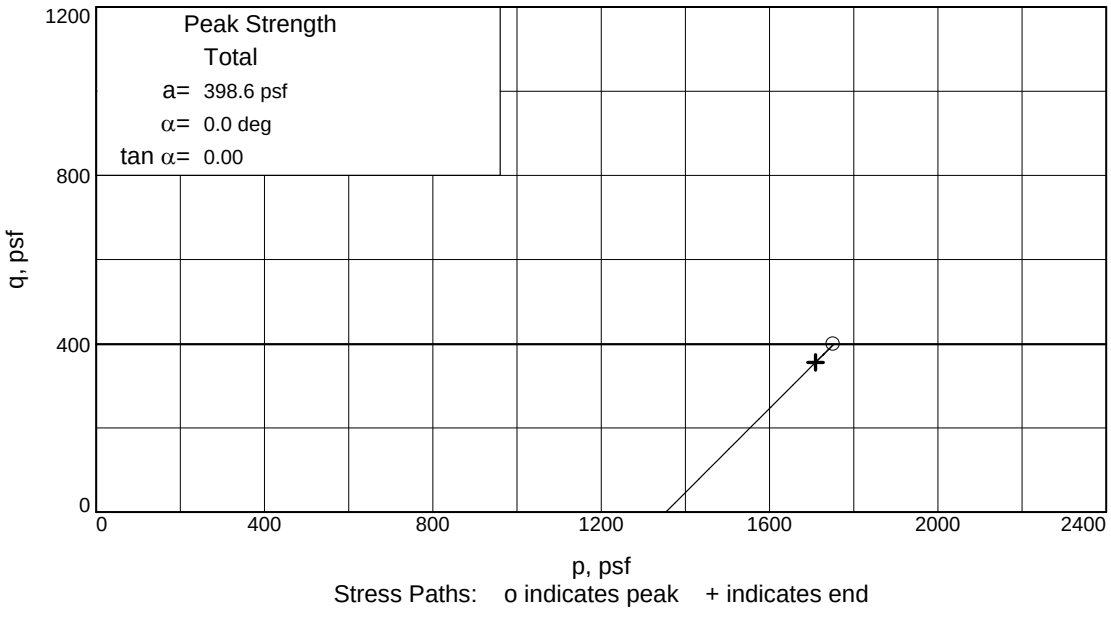
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Thompson Engineering
Mobile, Alabama





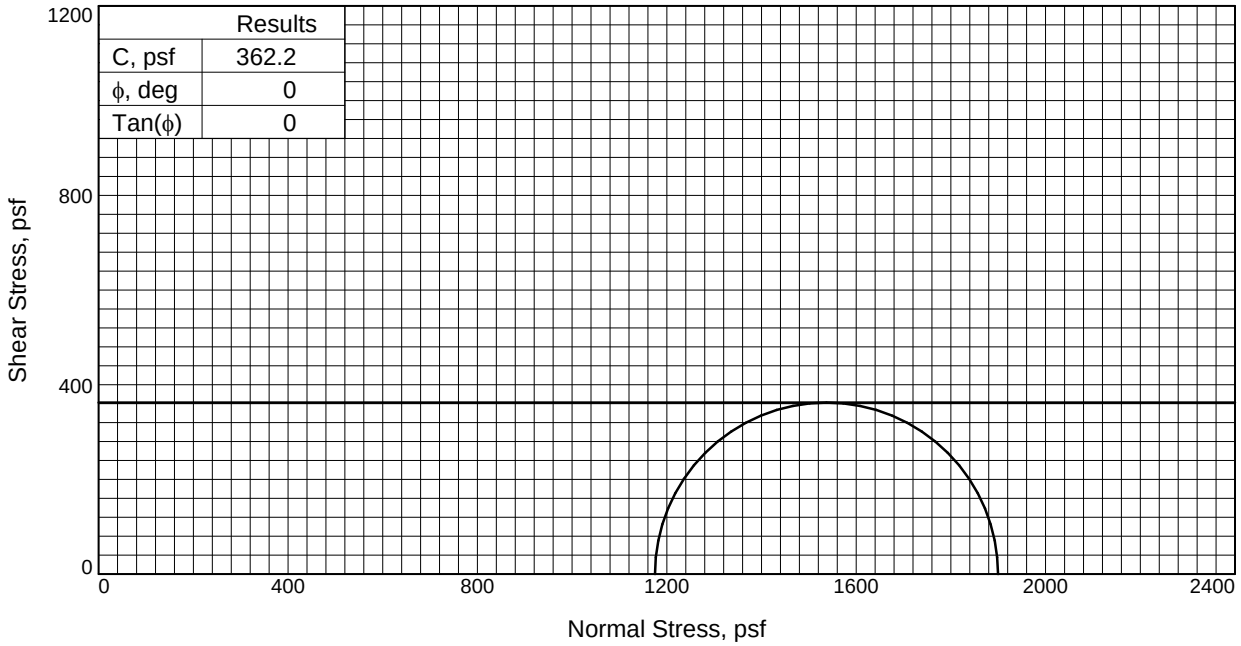


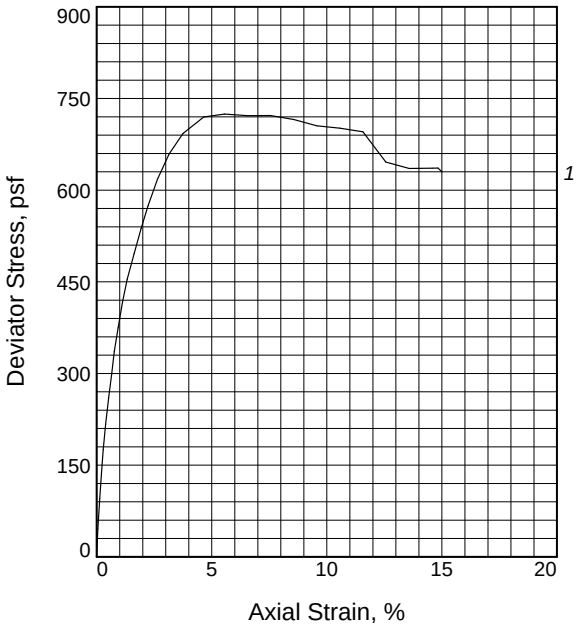




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7746 **Depth:** 28.5'-30.5' **Sample Number:** BW-87 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	59.8
	Dry Density, pcf	65.6
	Saturation, %	104.0
	Void Ratio	1.5312
	Diameter, in.	2.818
	Height, in.	5.561
At Test	Water Content, %	61.8
	Dry Density, pcf	65.6
	Saturation, %	107.4
	Void Ratio	1.5312
	Diameter, in.	2.818
	Height, in.	5.561
Strain at peak, %		5.5
Back Pressure, psf		0.0
Cell Pressure, psf		1175.0
Fail. Stress, psf		724.5
Strain, %		5.5
Ult. Stress, psf		724.5
Strain, %		5.5
σ_1 Failure, psf		1899.5
σ_3 Failure, psf		1175.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(54))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

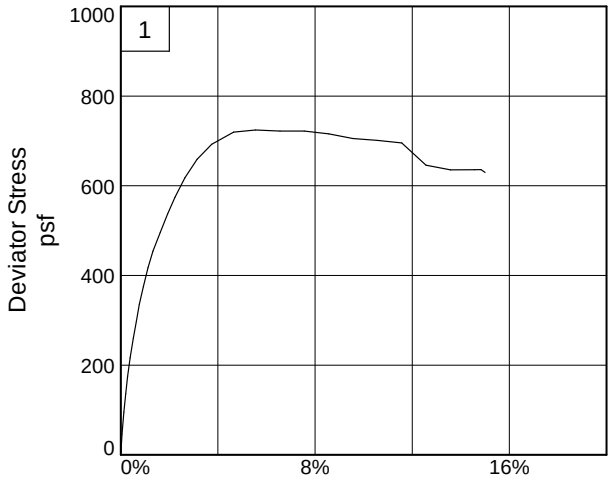
Project: Mobile River Bridge

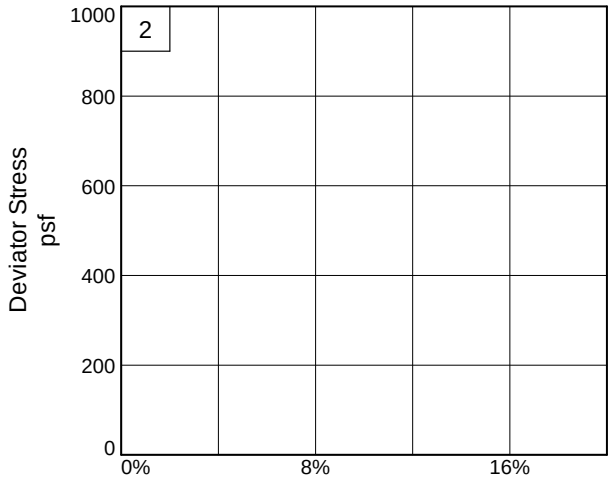
Source of Sample: Lab #7712 **Depth:** 23.5'-25.5'

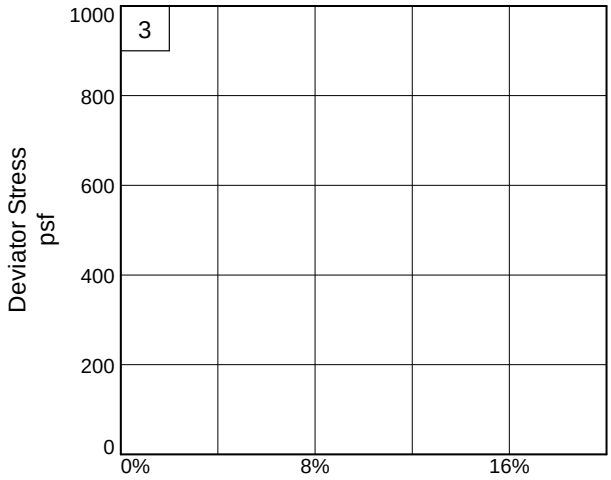
Sample Number: BW-88 T-1

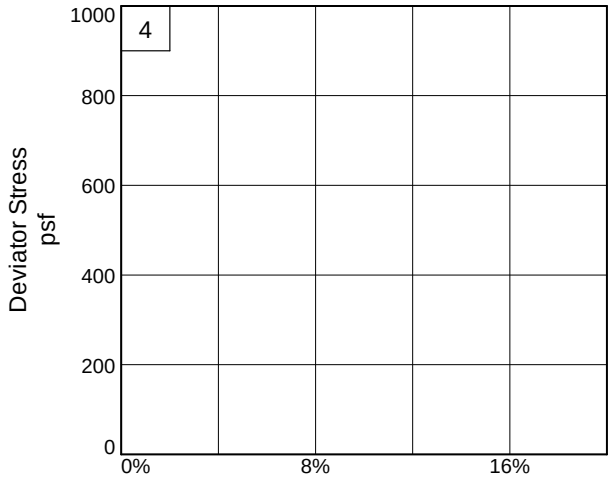
Proj. No.: 1511010228 **Date Sampled:**

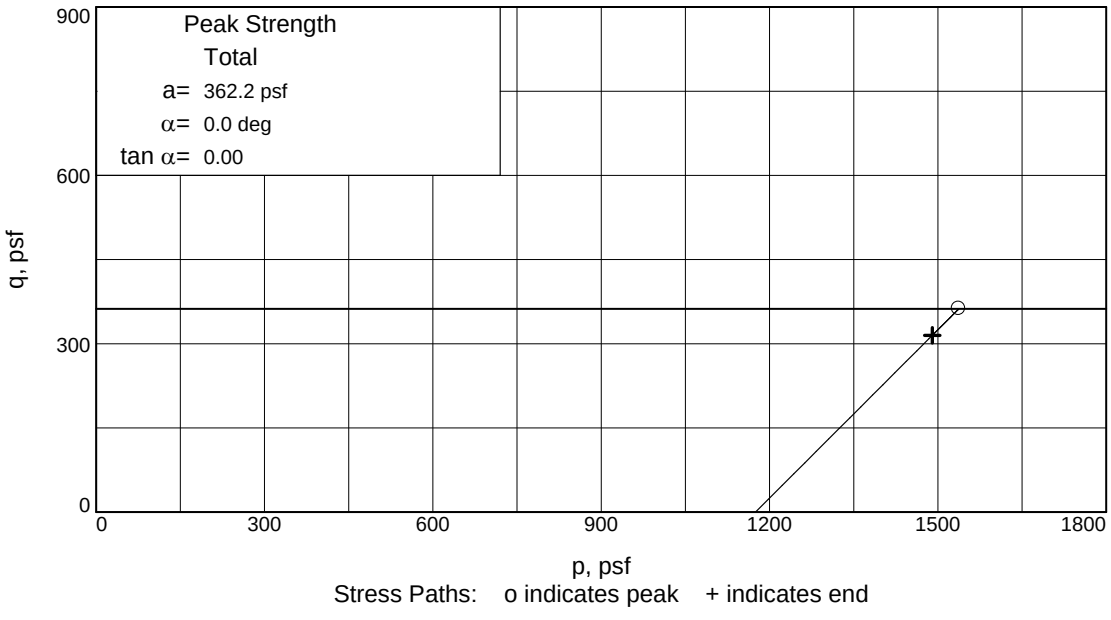
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Mobile, Alabama





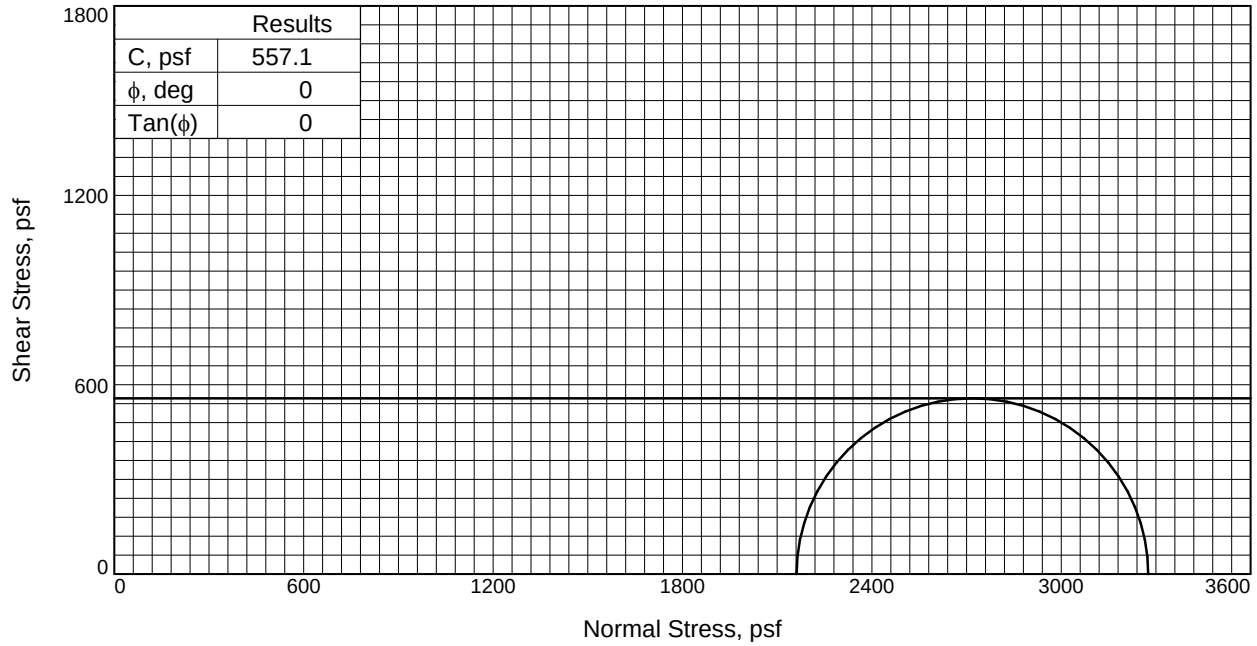


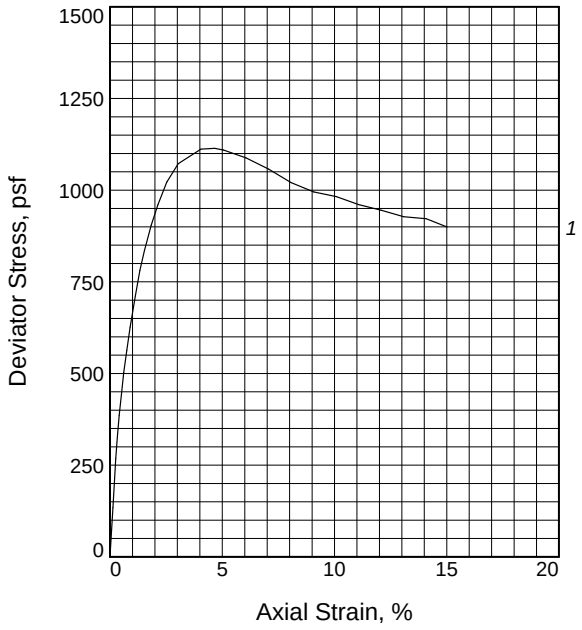




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7712 **Depth:** 23.5'-25.5' **Sample Number:** BW-88 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	44.5
	Dry Density, pcf	75.4
	Saturation, %	98.5
	Void Ratio	1.2028
	Diameter, in.	2.837
	Height, in.	5.497
At Test	Water Content, %	49.1
	Dry Density, pcf	75.4
	Saturation, %	108.7
	Void Ratio	1.2028
	Diameter, in.	2.837
	Height, in.	5.497
Strain at peak, %		4.7
Back Pressure, psf		0.0
Cell Pressure, psf		2161.4
Fail. Stress, psf		1114.1
Strain, %		4.7
Ult. Stress, psf		1114.1
Strain, %		4.7
σ_1 Failure, psf		3275.6
σ_3 Failure, psf		2161.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(47))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

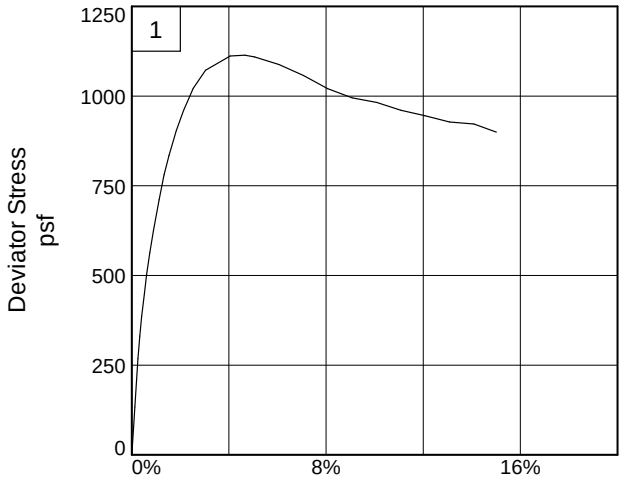
Project: Mobile River Bridge

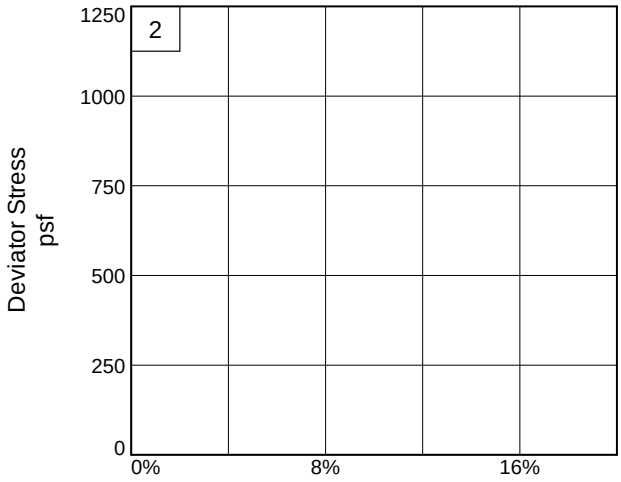
Source of Sample: Lab #7712 **Depth:** 43.5'-45.5'

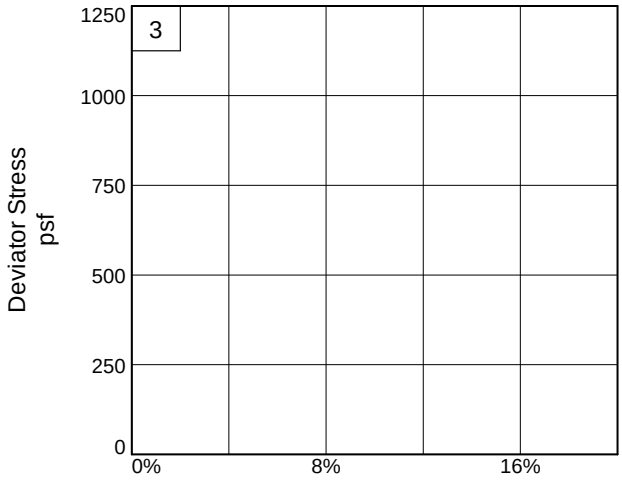
Sample Number: BW-88 T-3

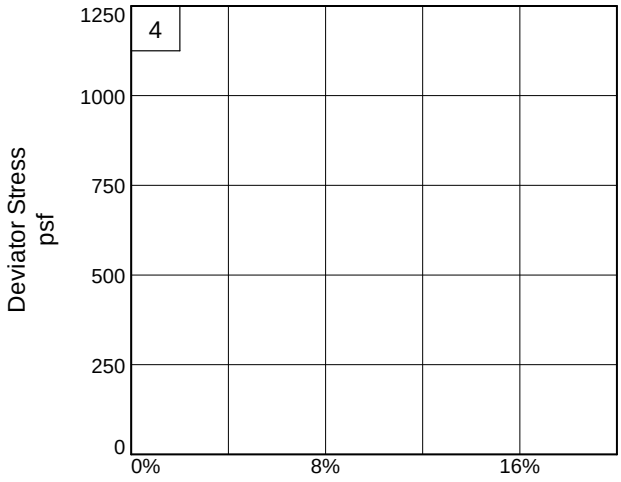
Proj. No.: 1511010228 **Date Sampled:**

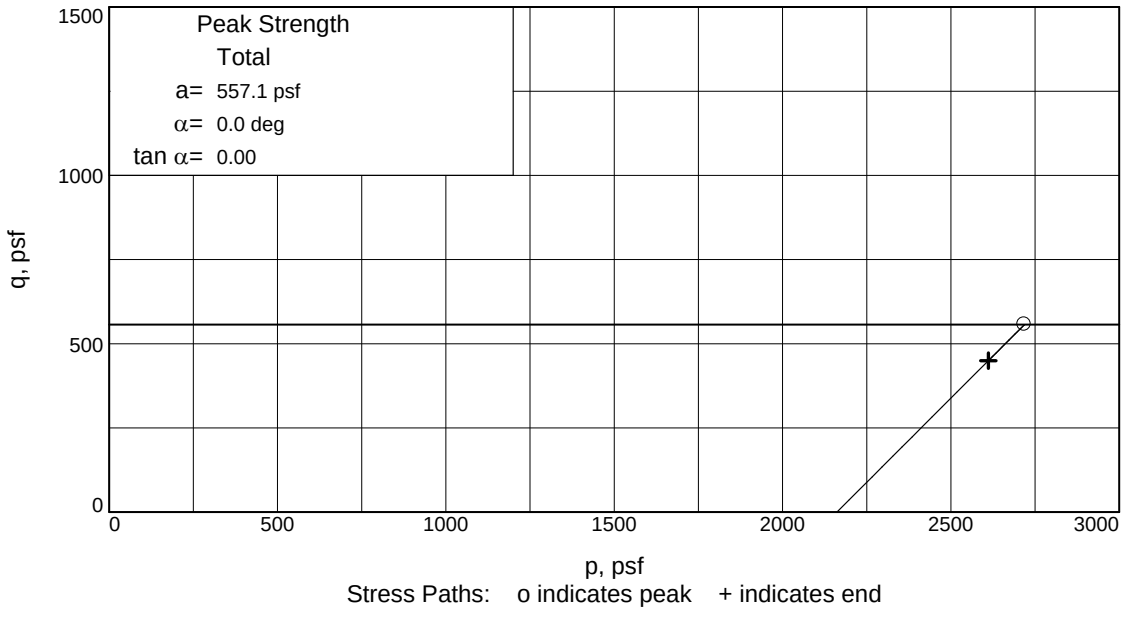
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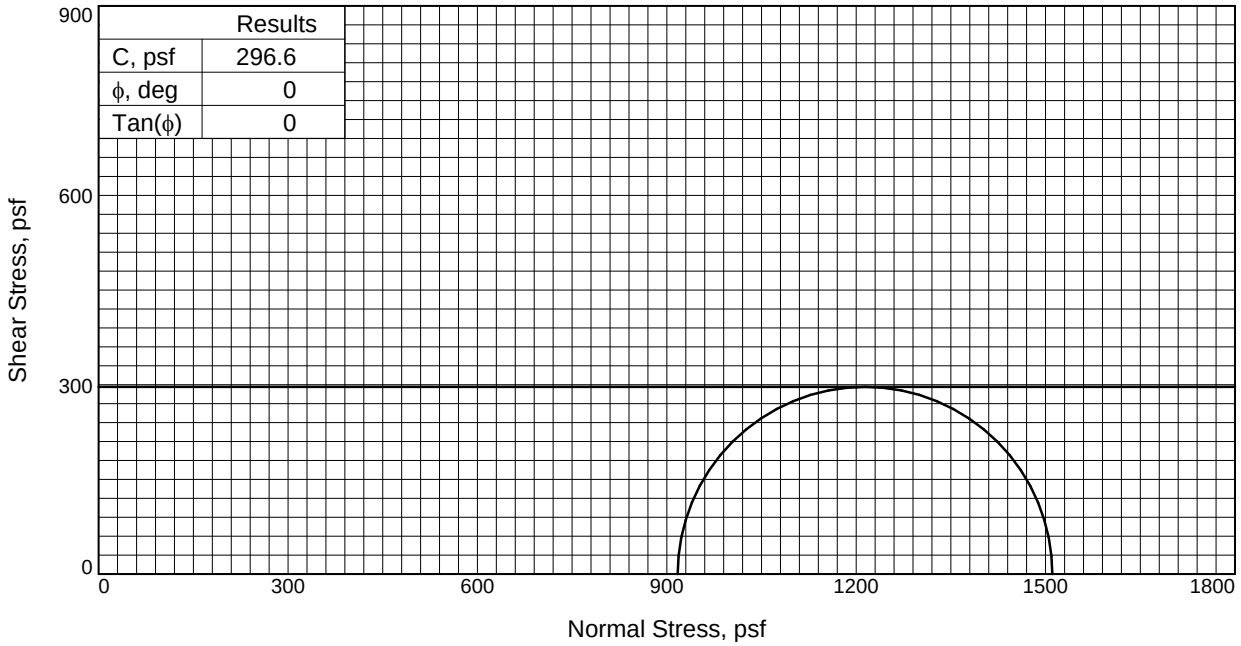


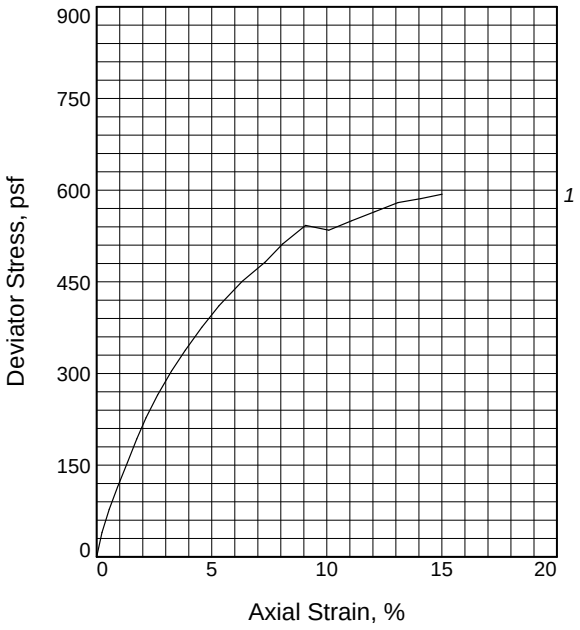




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7712 **Depth:** 43.5'-45.5' **Sample Number:** BW-88 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	36.2
	Dry Density, pcf	87.3
	Saturation, %	106.8
	Void Ratio	0.9013
	Diameter, in.	2.820
	Height, in.	5.225
At Test	Water Content, %	37.7
	Dry Density, pcf	87.3
	Saturation, %	111.4
	Void Ratio	0.9013
	Diameter, in.	2.820
	Height, in.	5.225
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		917.3
Fail. Stress, psf		593.3
Strain, %		15.0
Ult. Stress, psf		593.3
Strain, %		15.0
σ_1 Failure, psf		1510.6
σ_3 Failure, psf		917.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY SILT(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

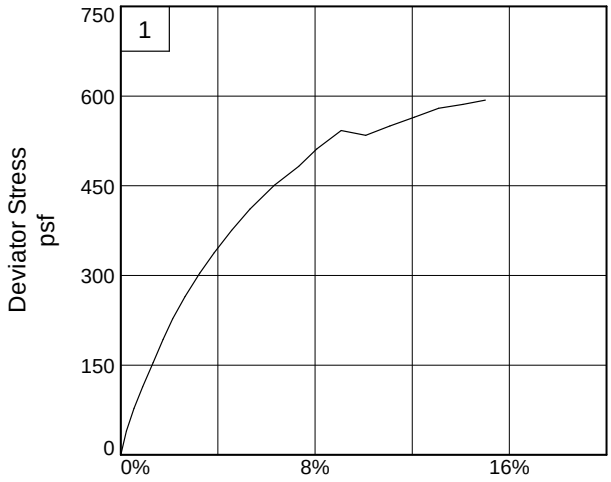
Project: Mobile River Bridge

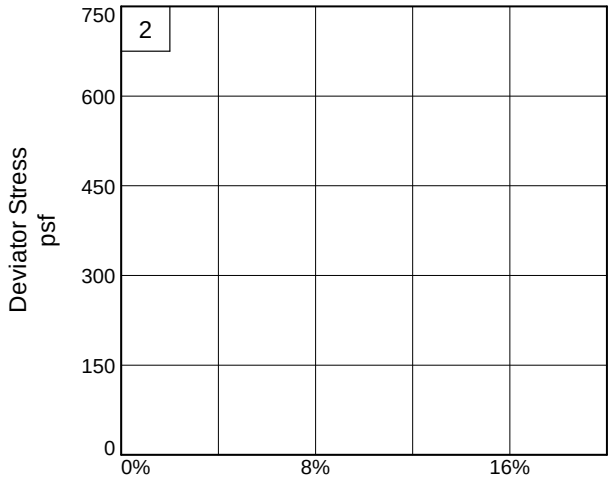
Source of Sample: Lab #7712 **Depth:** 18.5'-20.5'

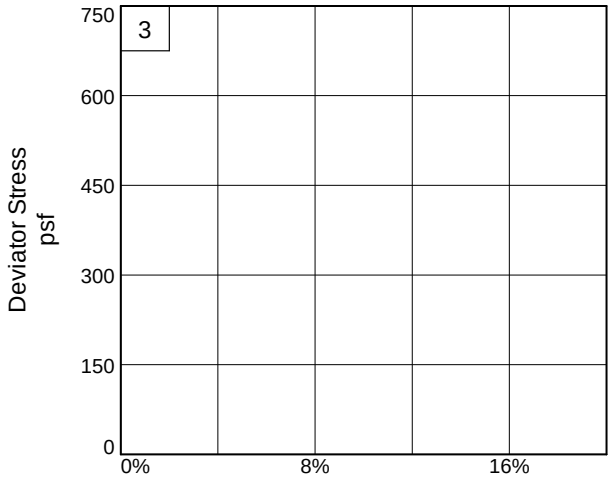
Sample Number: BW-89 T-1

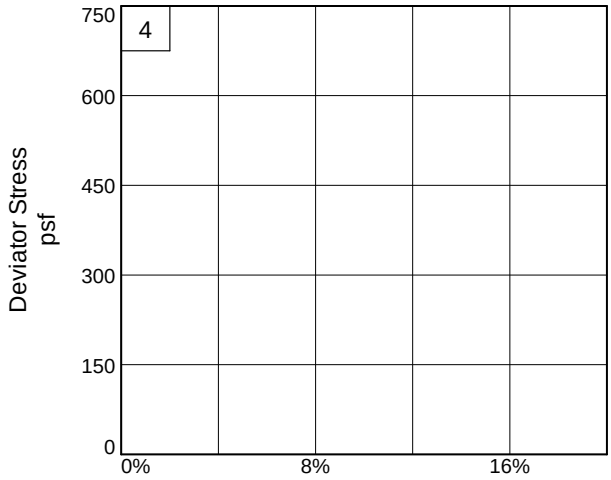
Proj. No.: 1511010228 **Date Sampled:**

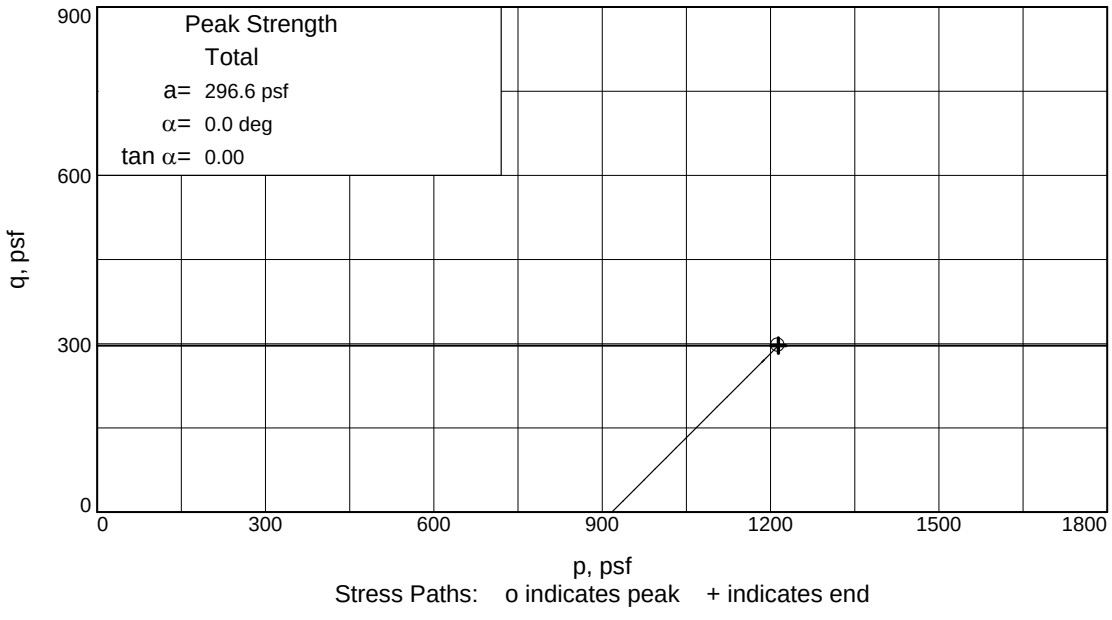
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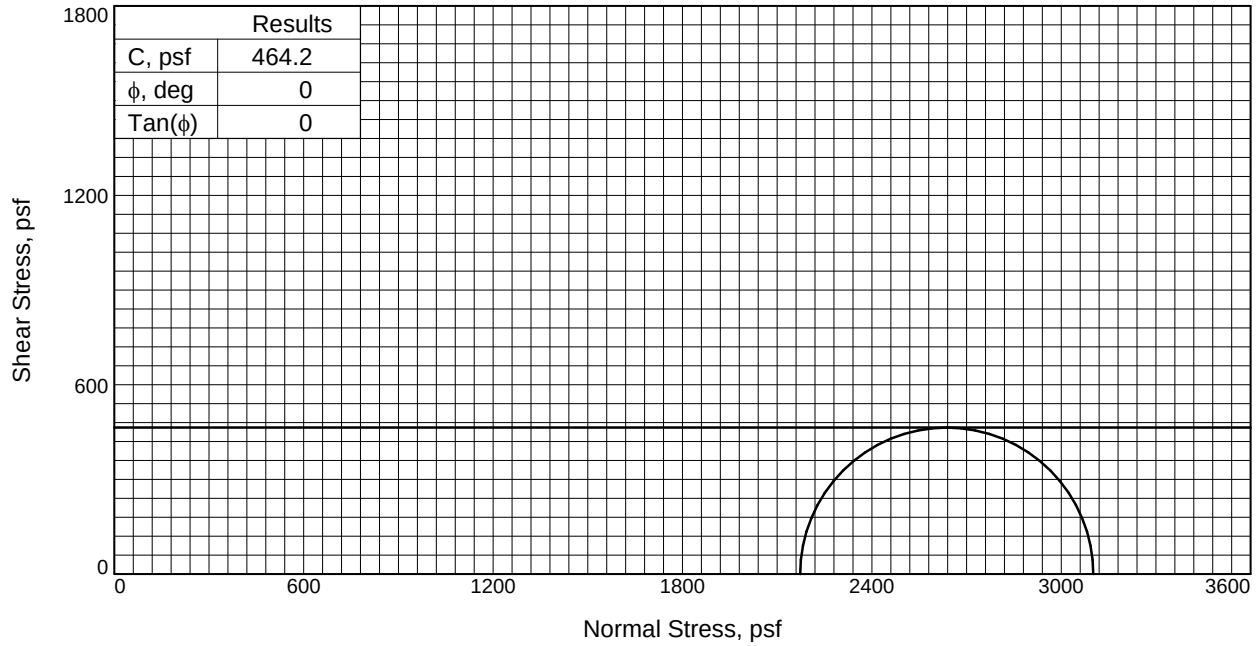


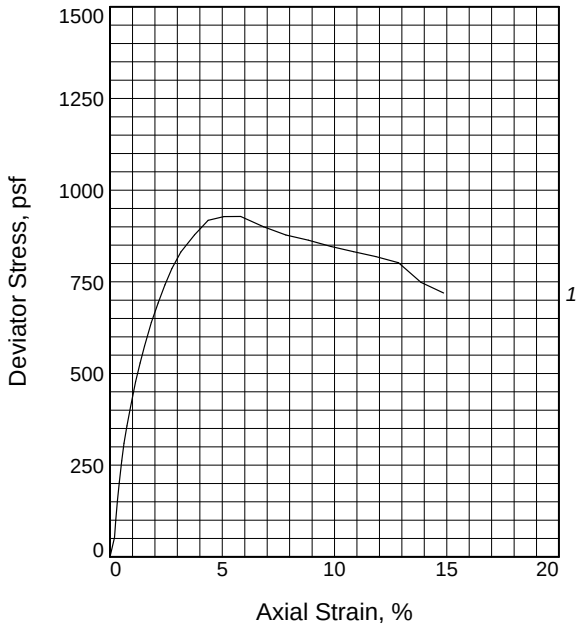




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7712 **Depth:** 18.5'-20.5' **Sample Number:** BW-89 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	55.1
	Dry Density, pcf	67.6
	Saturation, %	100.7
	Void Ratio	1.4570
	Diameter, in.	2.825
	Height, in.	5.218
At Test	Water Content, %	58.6
	Dry Density, pcf	67.6
	Saturation, %	107.0
	Void Ratio	1.4570
	Diameter, in.	2.825
	Height, in.	5.218
Strain at peak, %		5.8
Back Pressure, psf		0.0
Cell Pressure, psf		2173.0
Fail. Stress, psf		928.4
Strain, %		5.8
Ult. Stress, psf		928.4
Strain, %		5.8
σ_1 Failure, psf		3101.4
σ_3 Failure, psf		2173.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(39))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

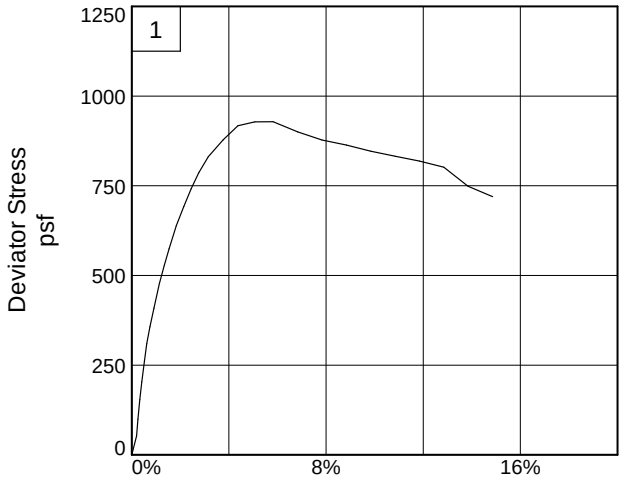
Project: Mobile River Bridge

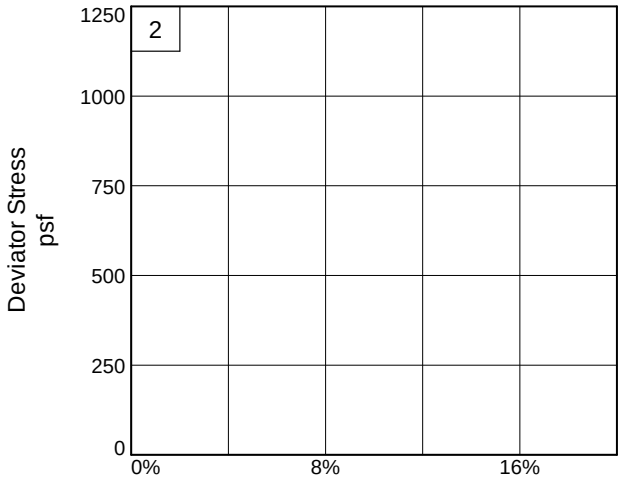
Source of Sample: Lab #7712 **Depth:** 43.5'-45.5'

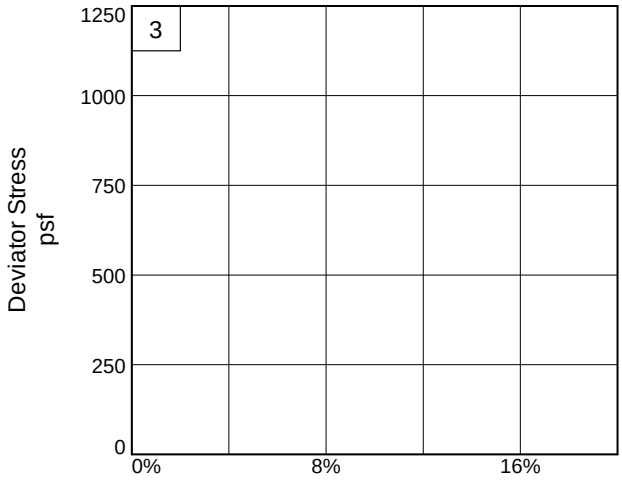
Sample Number: BW-89 T-4

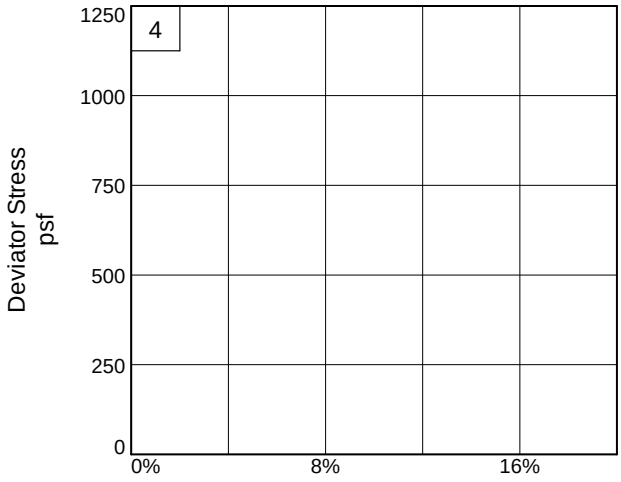
Proj. No.: 1511010228 **Date Sampled:**

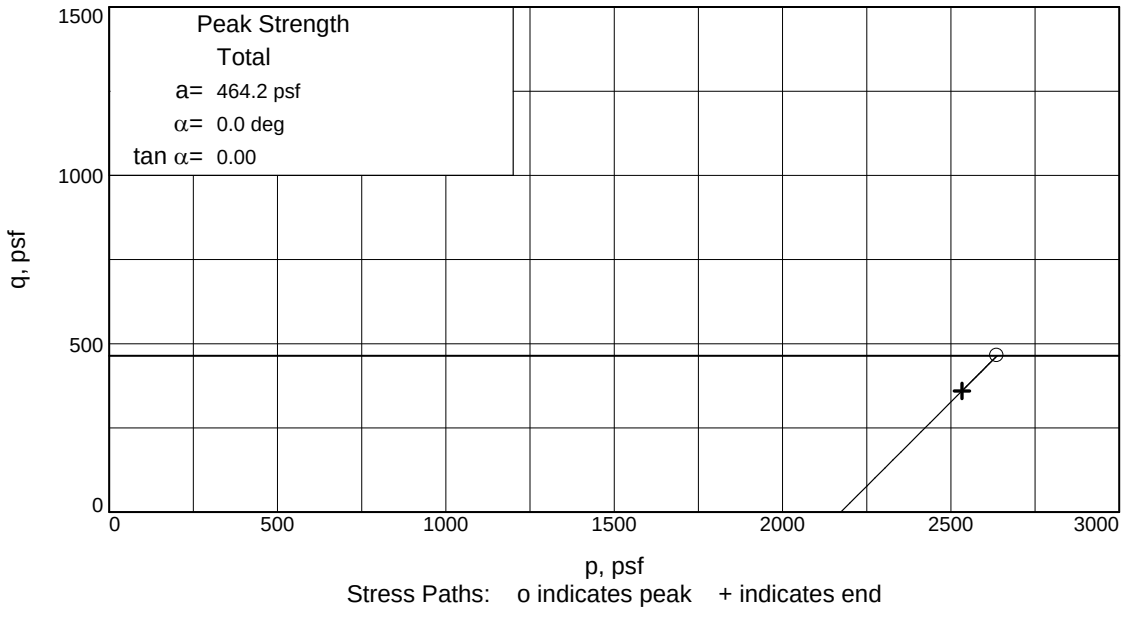
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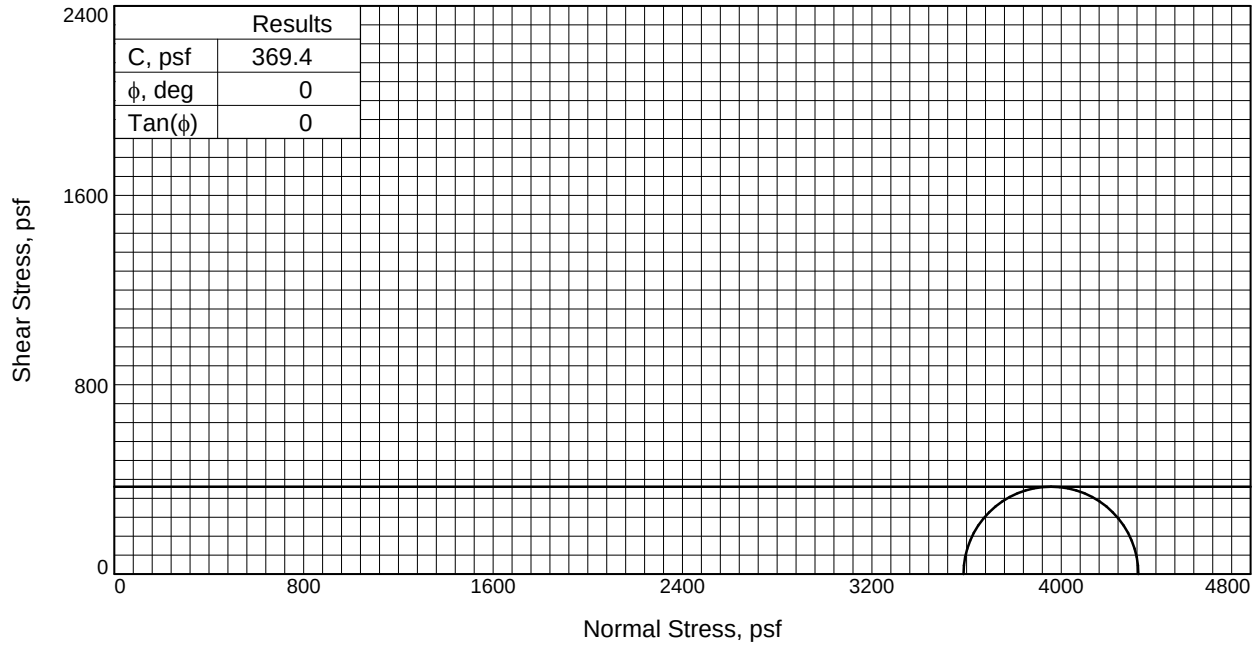


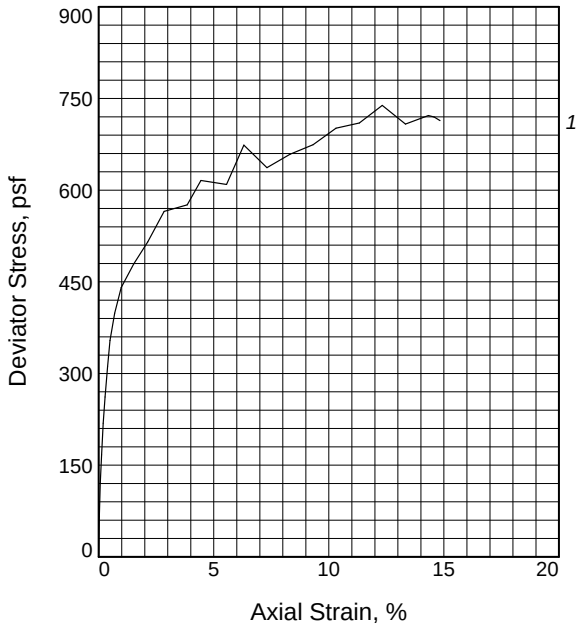




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7712 **Depth:** 43.5'-45.5' **Sample Number:** BW-89 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	65.4
	Dry Density, pcf	62.1
	Saturation, %	103.9
	Void Ratio	1.6753
	Diameter, in.	2.828
	Height, in.	5.482
At Test	Water Content, %	67.5
	Dry Density, pcf	62.1
	Saturation, %	107.3
	Void Ratio	1.6753
	Diameter, in.	2.828
	Height, in.	5.482
Strain at peak, %		12.3
Back Pressure, psf		0.0
Cell Pressure, psf		3587.0
Fail. Stress, psf		738.7
Strain, %		12.3
Ult. Stress, psf		738.7
Strain, %		12.3
σ_1 Failure, psf		4325.8
σ_3 Failure, psf		3587.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-2-7(1))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

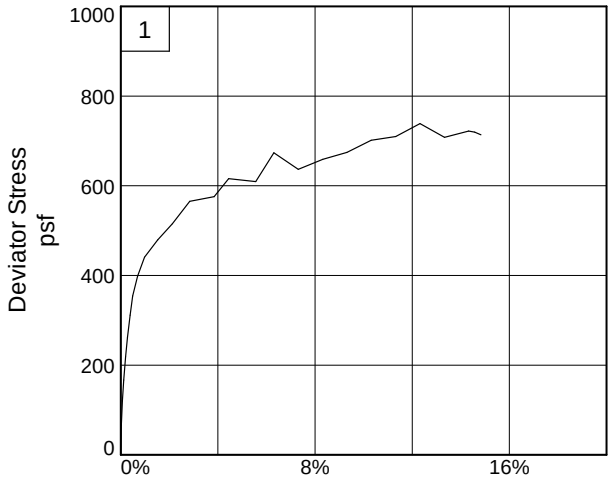
Project: Mobile River Bridge

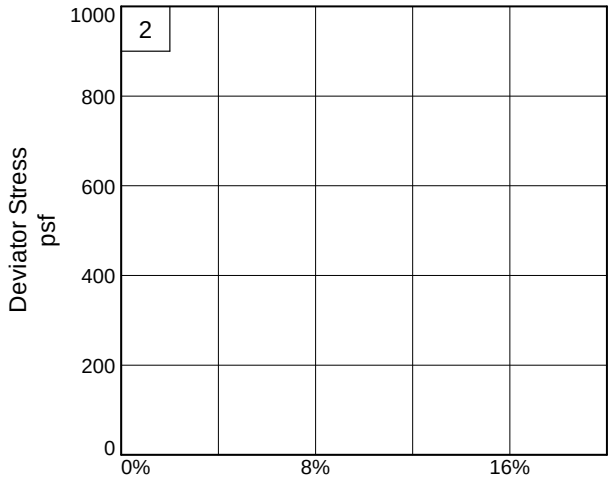
Source of Sample: Lab #7707 **Depth:** 73.5'-75.5'

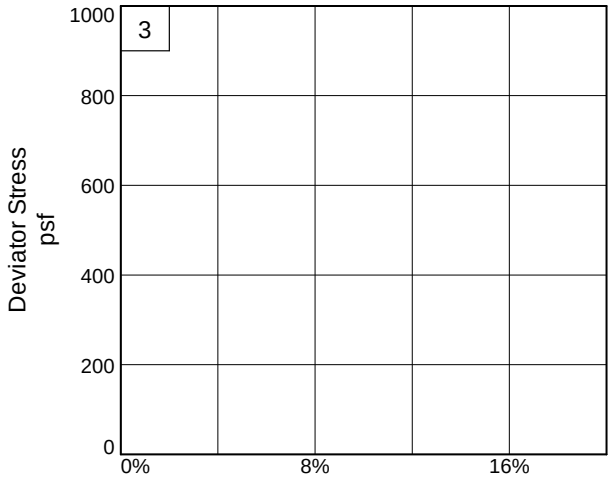
Sample Number: BW-92 T-4

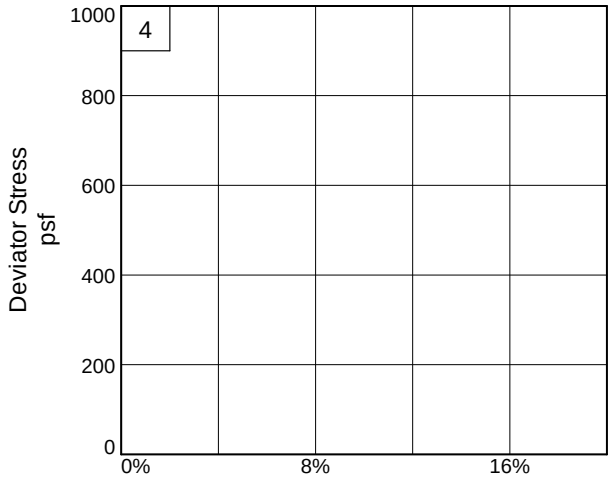
Proj. No.: 1511010228 **Date Sampled:**

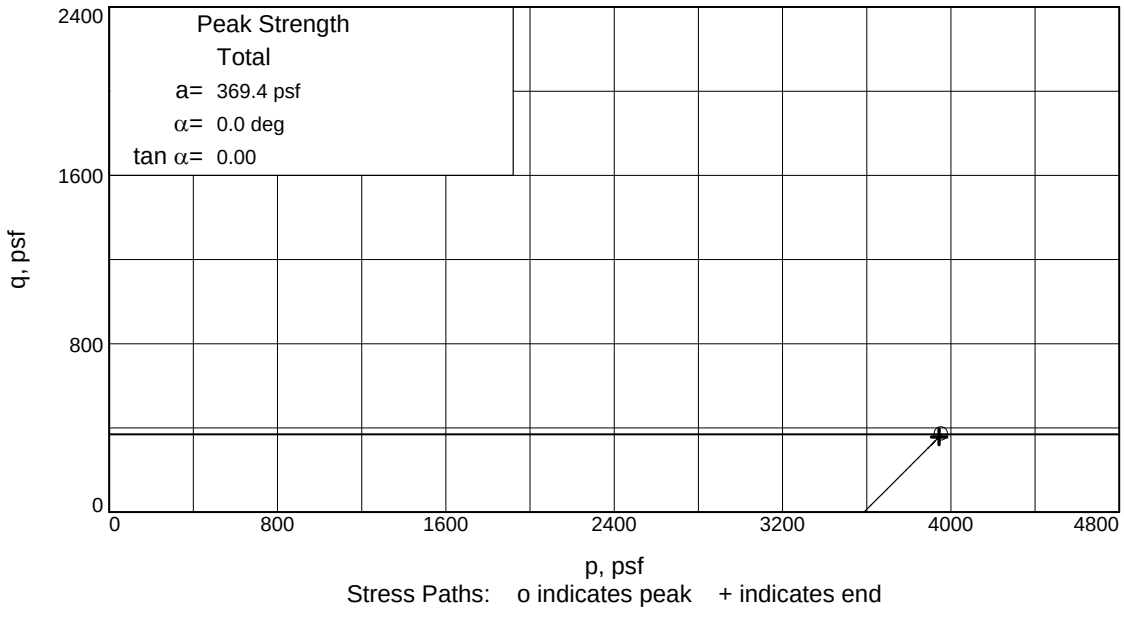
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Mobile, Alabama





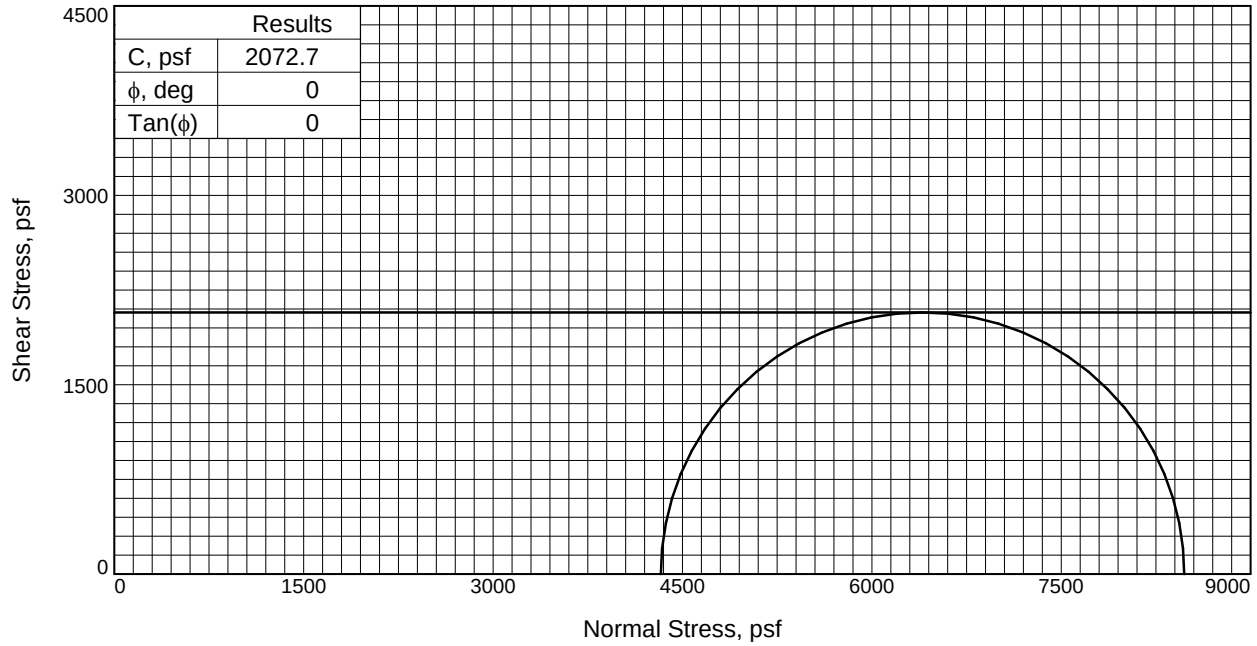


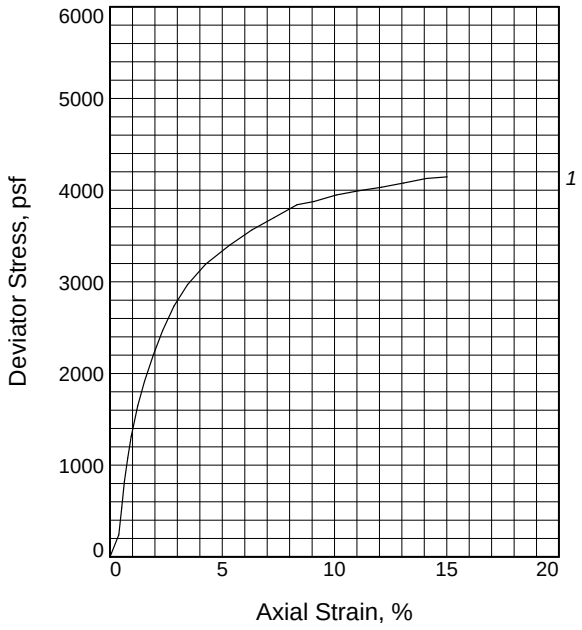




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7707 **Depth:** 73.5'-75.5' **Sample Number:** BW-92 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	21.4
	Dry Density, pcf	104.3
	Saturation, %	95.8
	Void Ratio	0.5928
	Diameter, in.	2.866
	Height, in.	5.577
At Test	Water Content, %	24.4
	Dry Density, pcf	104.3
	Saturation, %	109.5
	Void Ratio	0.5928
	Diameter, in.	2.866
	Height, in.	5.577
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		4328.6
Fail. Stress, psf		4145.4
Strain, %		15.0
Ult. Stress, psf		4145.4
Strain, %		15.0
σ_1 Failure, psf		8474.1
σ_3 Failure, psf		4328.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(21))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

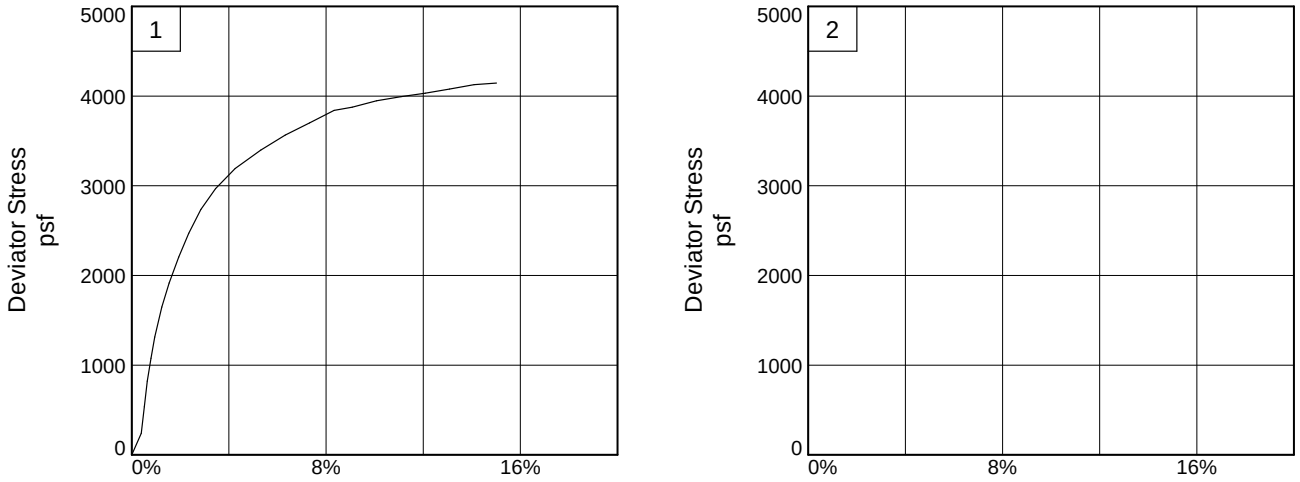
Project: Mobile River Bridge

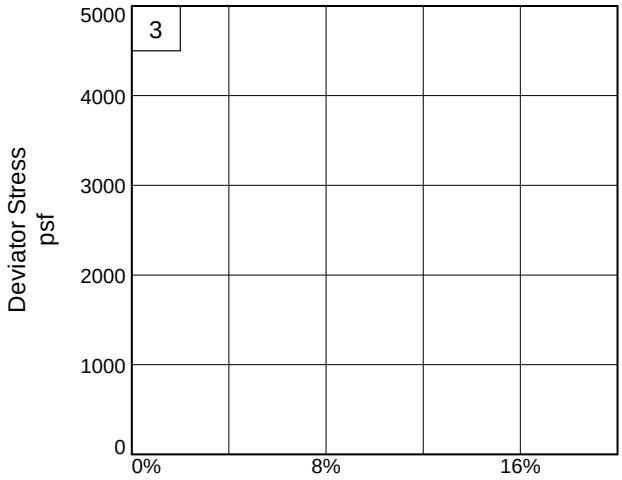
Source of Sample: Lab #7707 **Depth:** 90.5'-92.5'

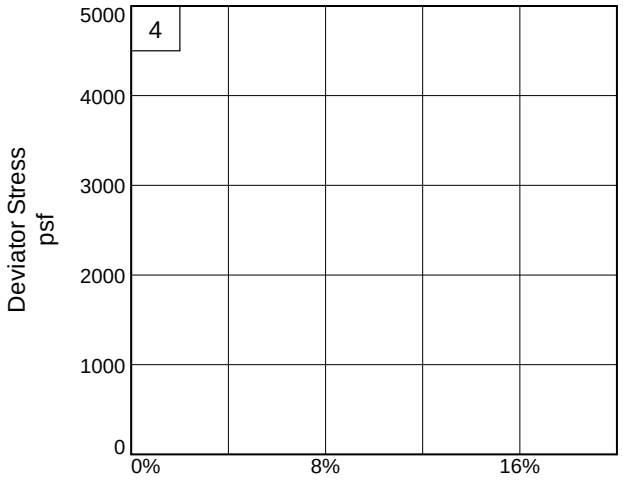
Sample Number: BW-92 T-6

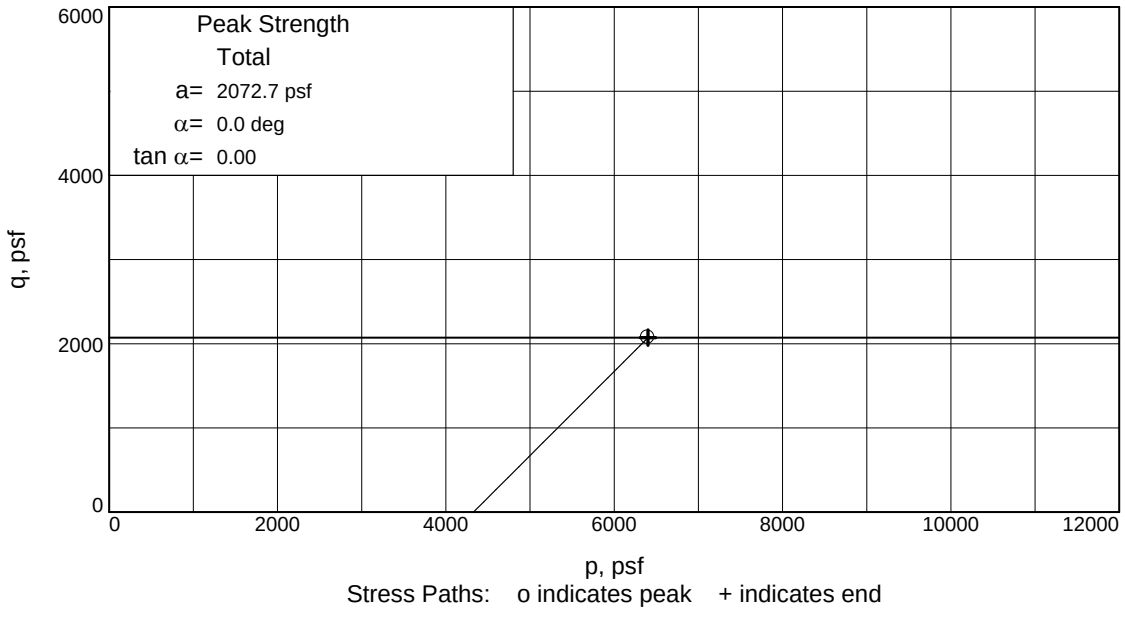
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



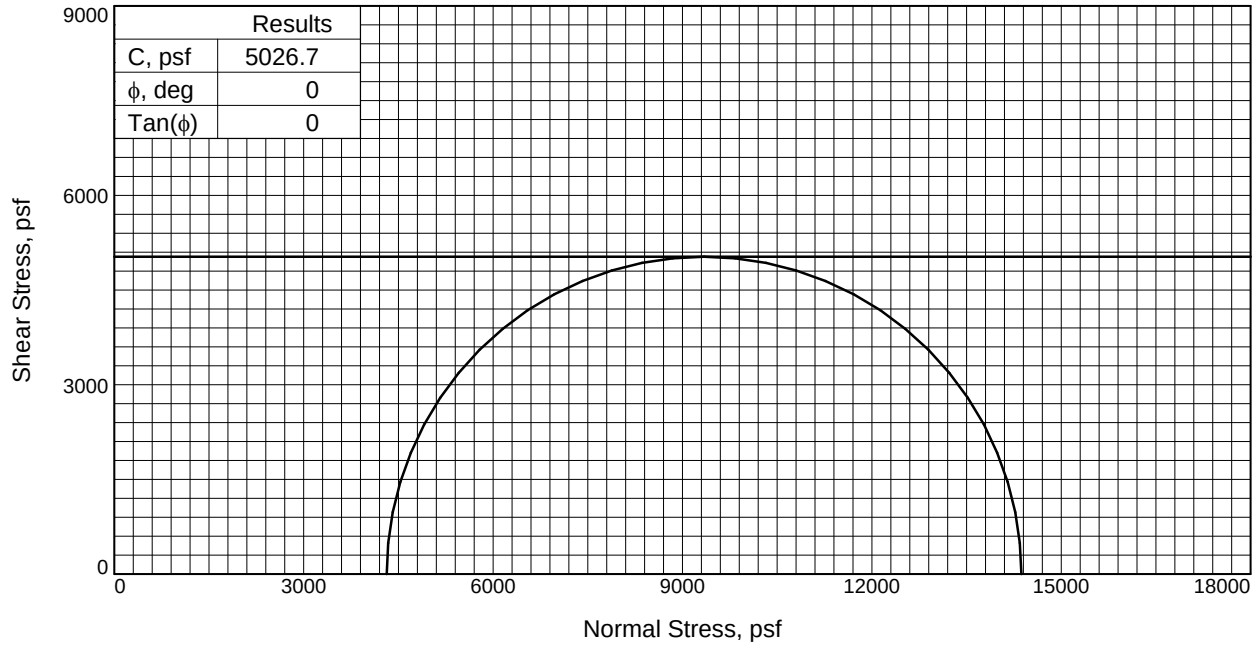


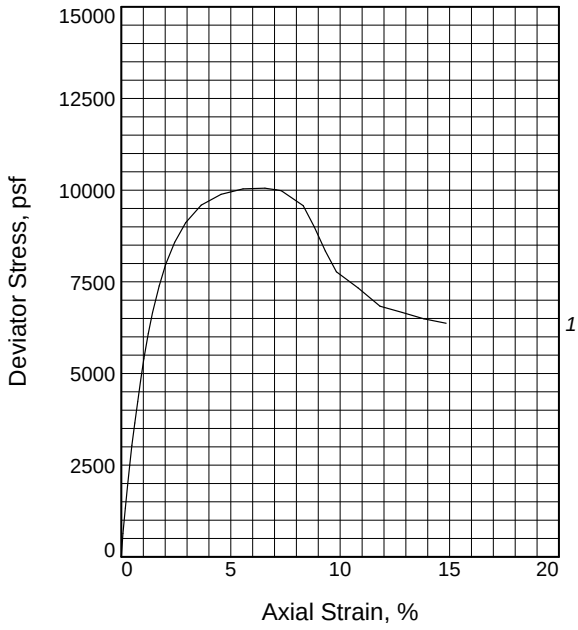




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7707 **Depth:** 90.5'-92.5' **Sample Number:** BW-92 T-6
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	26.4
	Dry Density, pcf	102.4
	Saturation, %	113.0
	Void Ratio	0.6221
	Diameter, in.	2.850
	Height, in.	5.646
At Test	Water Content, %	24.3
	Dry Density, pcf	102.4
	Saturation, %	104.0
	Void Ratio	0.6221
	Diameter, in.	2.850
	Height, in.	5.646
Strain at peak, %		6.6
Back Pressure, psf		0.0
Cell Pressure, psf		4314.2
Fail. Stress, psf		10053.4
Strain, %		6.6
Ult. Stress, psf		10053.4
Strain, %		6.6
σ_1 Failure, psf		14367.6
σ_3 Failure, psf		4314.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(44))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

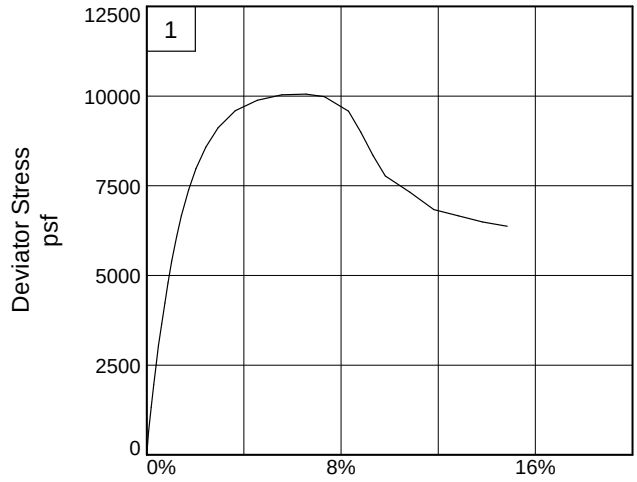
Project: Mobile River Bridge

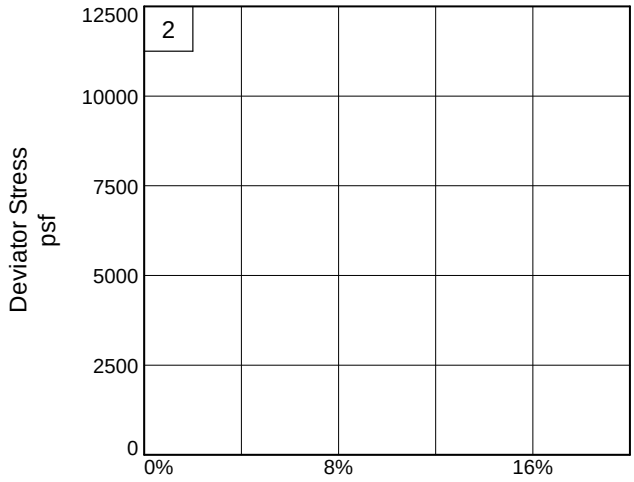
Source of Sample: Lab #7707 **Depth:** 90.5'-92.5'

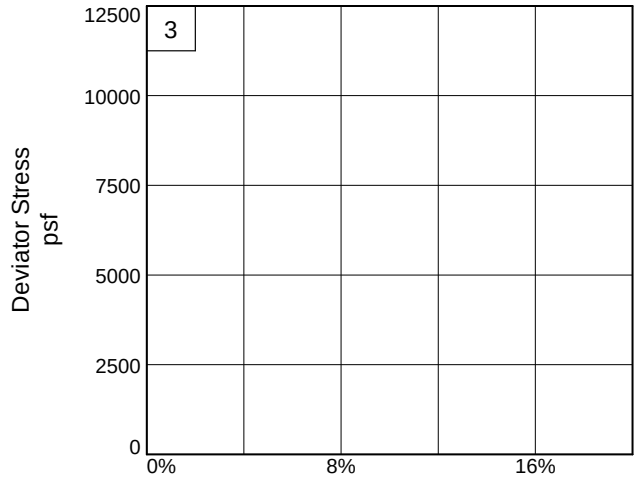
Sample Number: BW-94 T-3

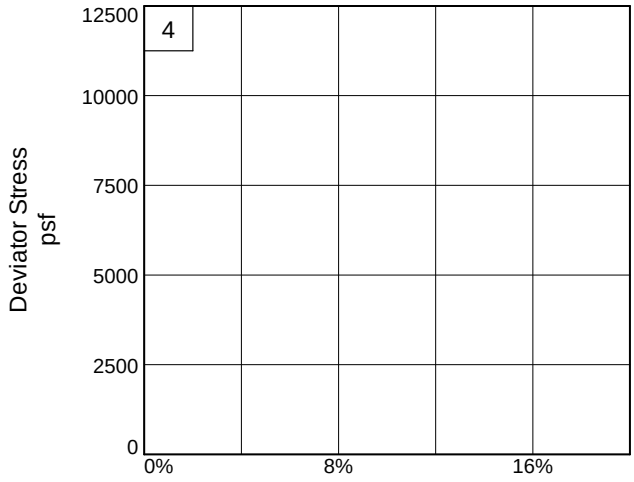
Proj. No.: 1511010228 **Date Sampled:**

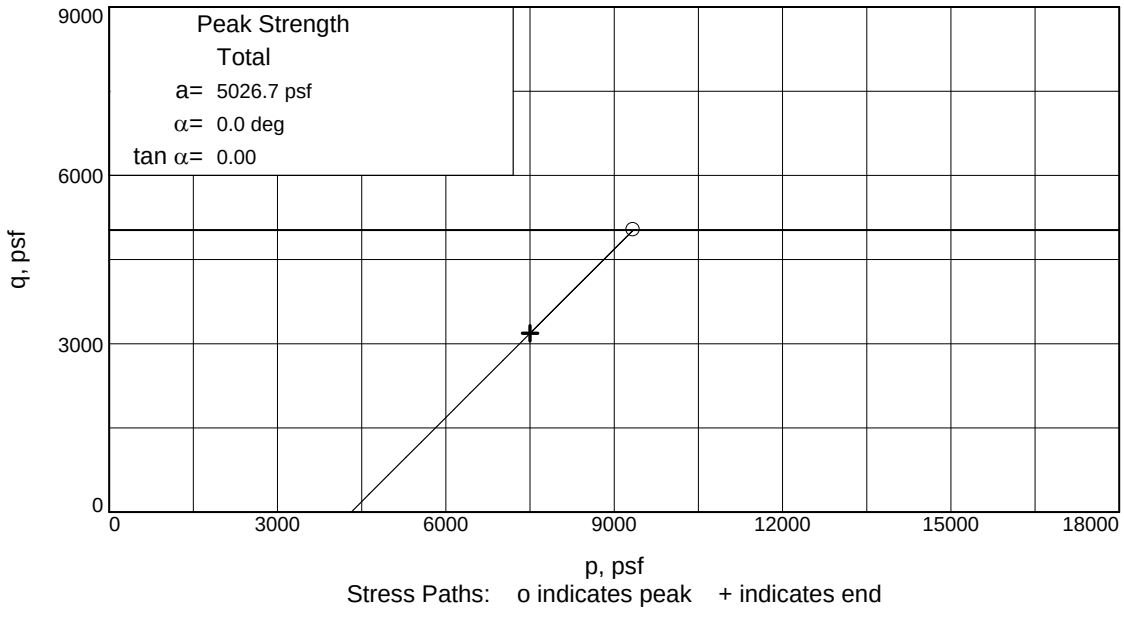
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Mobile, Alabama





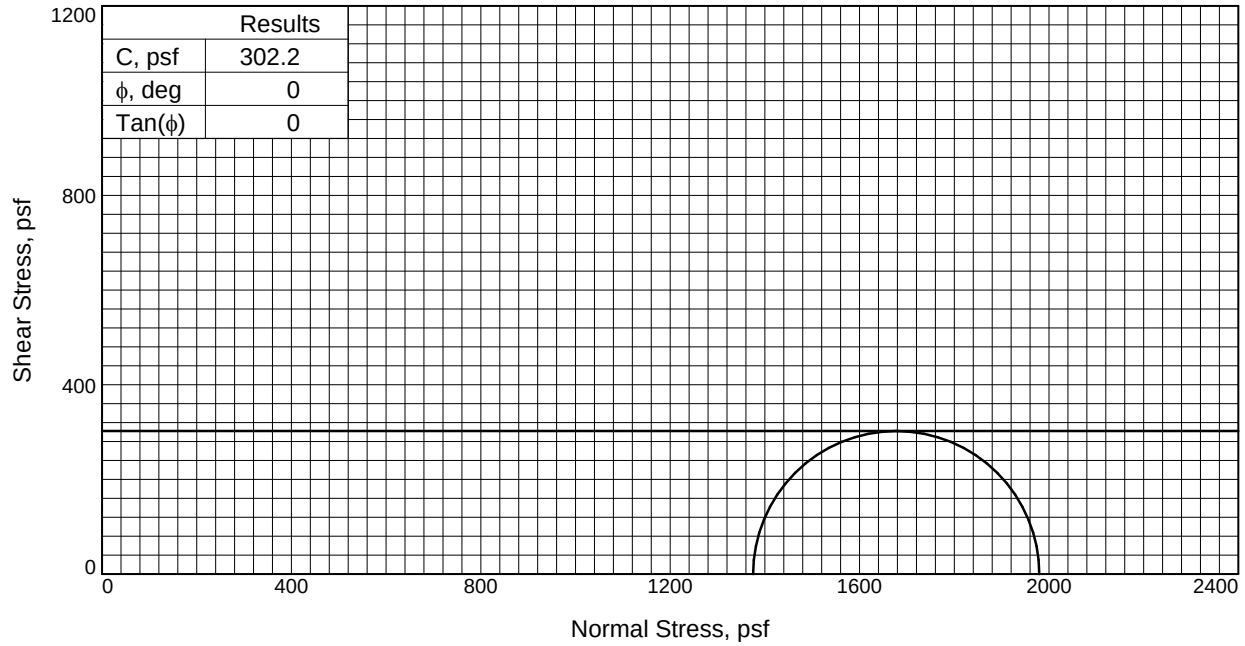


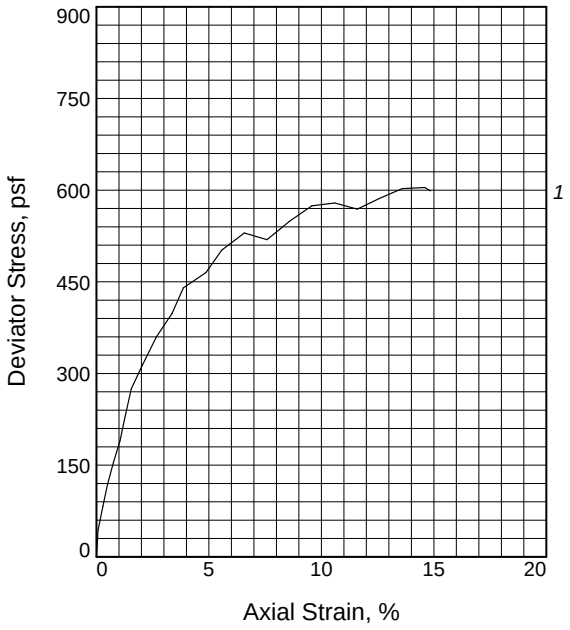




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7707 **Depth:** 90.5'-92.5' **Sample Number:** BW-94 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	27.4
	Dry Density, pcf	101.0
	Saturation, %	113.1
	Void Ratio	0.6441
	Diameter, in.	2.821
	Height, in.	5.455
At Test	Water Content, %	28.0
	Dry Density, pcf	101.0
	Saturation, %	115.6
	Void Ratio	0.6441
	Diameter, in.	2.821
	Height, in.	5.455
Strain at peak, %		14.6
Back Pressure, psf		0.0
Cell Pressure, psf		1375.2
Fail. Stress, psf		604.3
Strain, %		14.6
Ult. Stress, psf		604.3
Strain, %		14.6
σ_1 Failure, psf		1979.5
σ_3 Failure, psf		1375.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-2-6(1))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

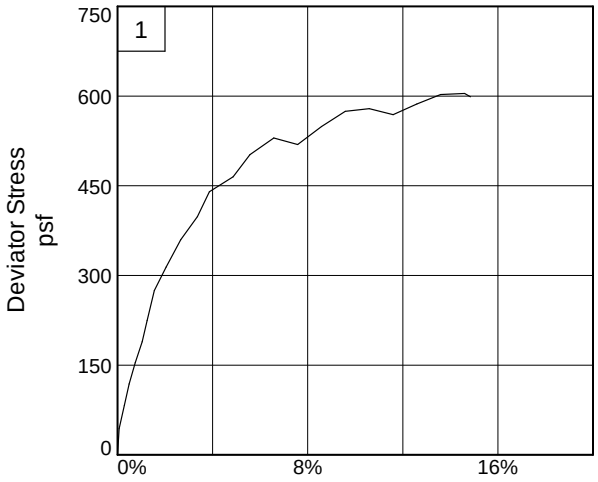
Project: Mobile River Bridge

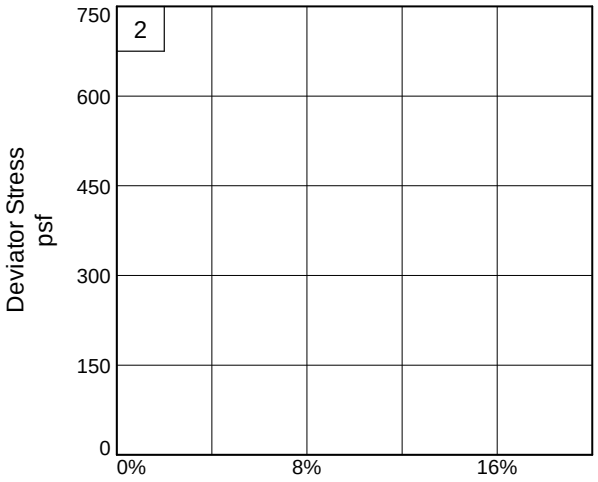
Source of Sample: Lab #7707 **Depth:** 28.5'-30.5'

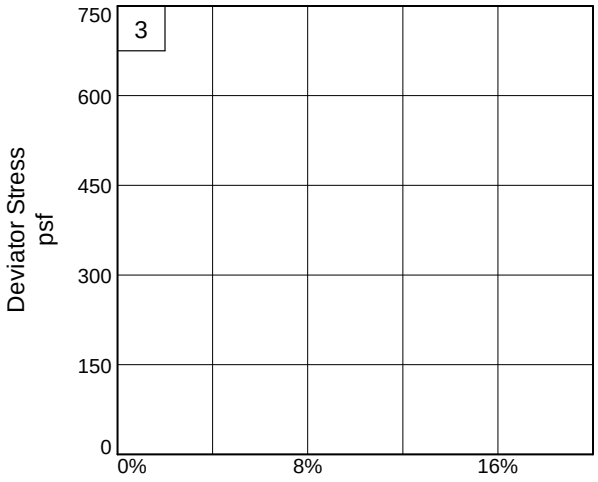
Sample Number: BW-95 T-3

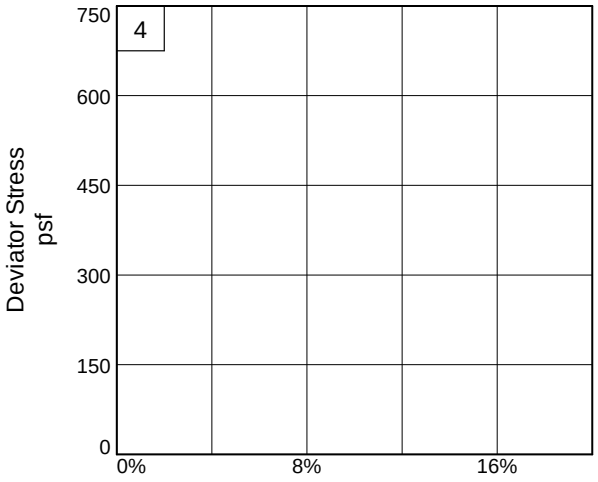
Proj. No.: 1511010228 **Date Sampled:**

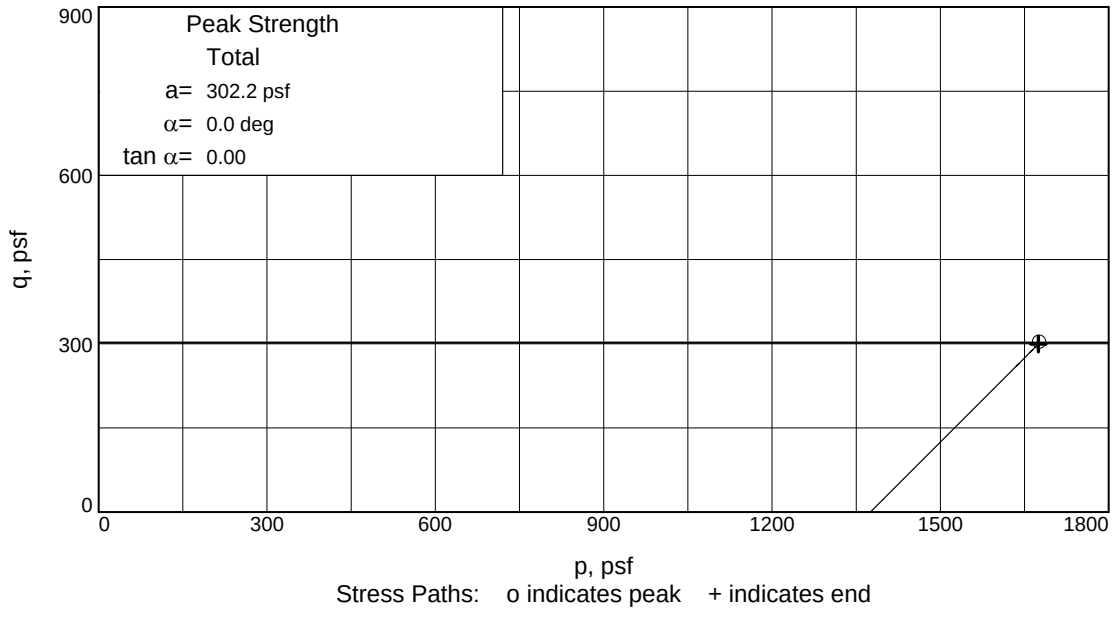
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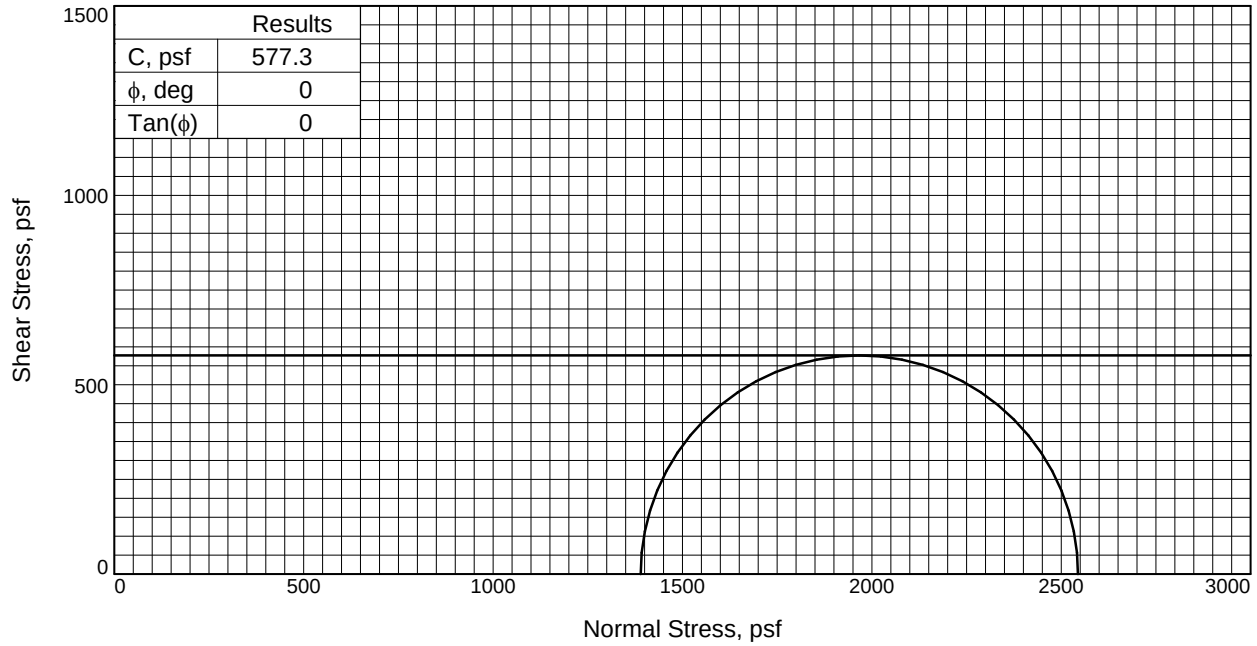


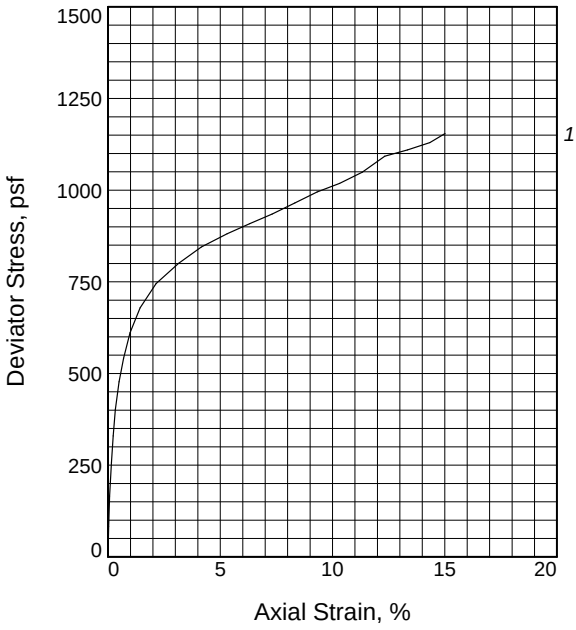




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7707 **Depth:** 28.5'-30.5' **Sample Number:** BW-95 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	34.5
	Dry Density, pcf	91.6
	Saturation, %	113.0
	Void Ratio	0.8128
	Diameter, in.	2.849
	Height, in.	5.411
At Test	Water Content, %	34.0
	Dry Density, pcf	91.6
	Saturation, %	111.4
	Void Ratio	0.8128
	Diameter, in.	2.849
	Height, in.	5.411
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		1389.6
Fail. Stress, psf		1154.6
Strain, %		15.0
Ult. Stress, psf		1154.6
Strain, %		15.0
σ_1 Failure, psf		2544.2
σ_3 Failure, psf		1389.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-7-6(14))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

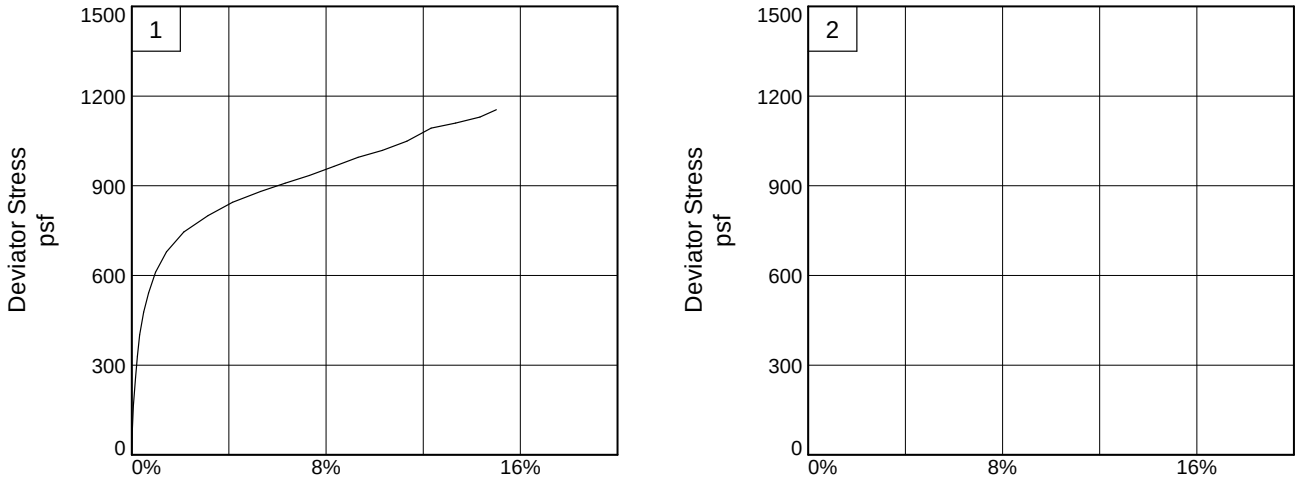
Project: Mobile River Bridge

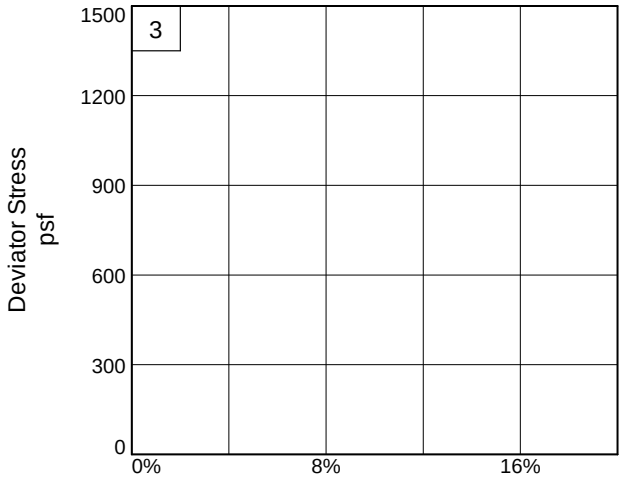
Source of Sample: Lab #7707 **Depth:** 28.5'-30.5'

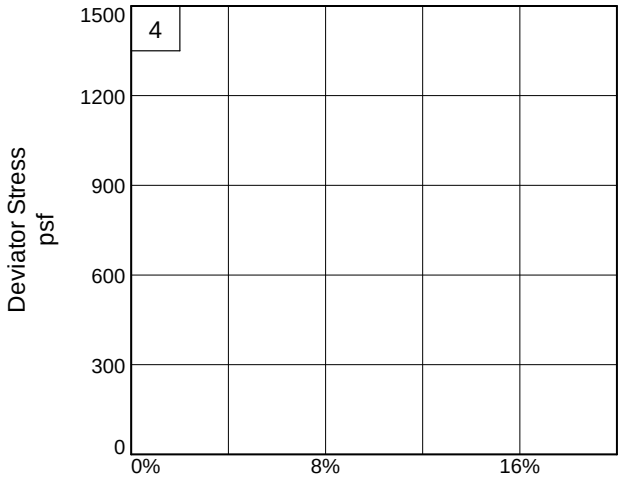
Sample Number: BW-96 T-2

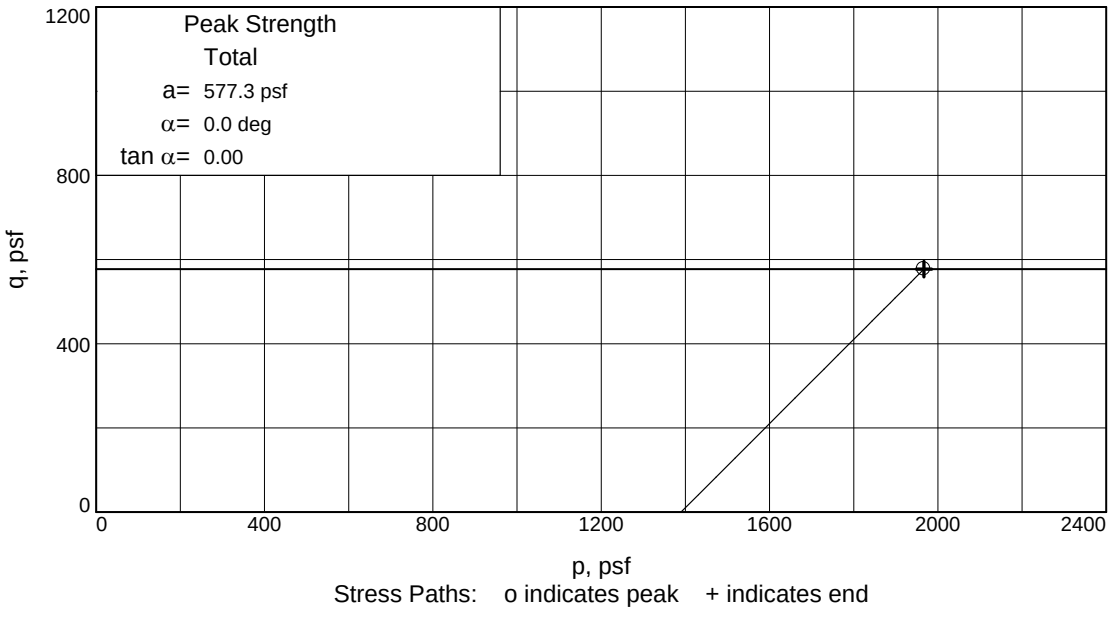
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama









Stress Paths: o indicates peak + indicates end

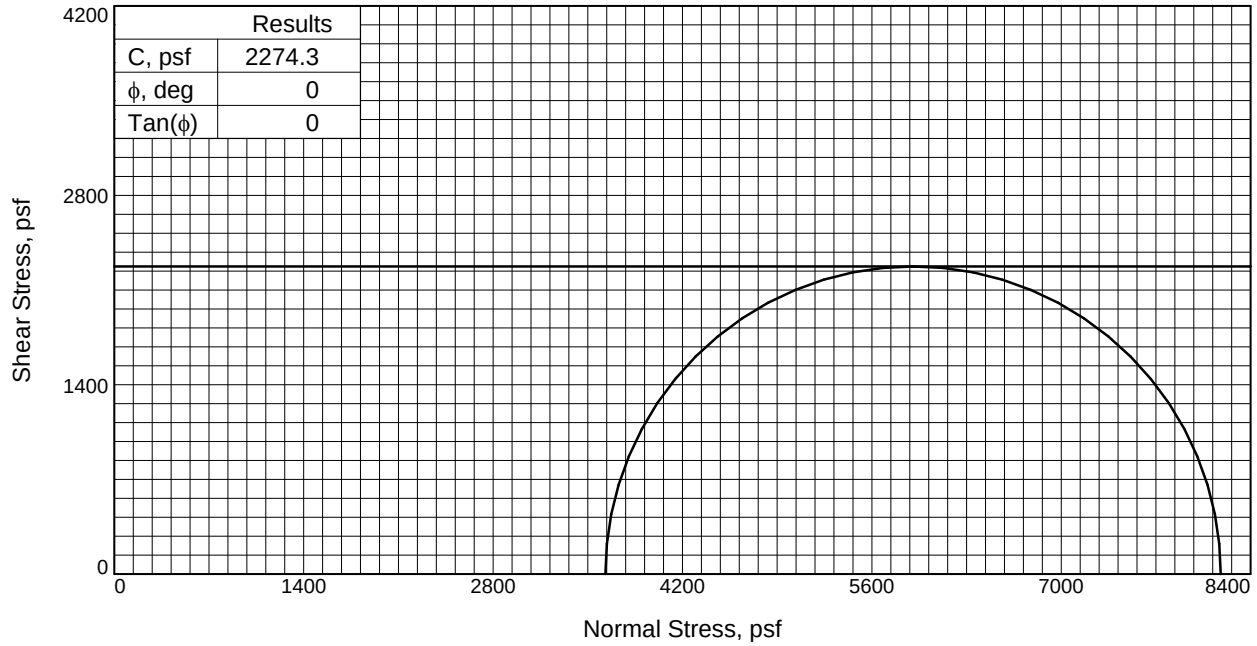
Client: ALDOT

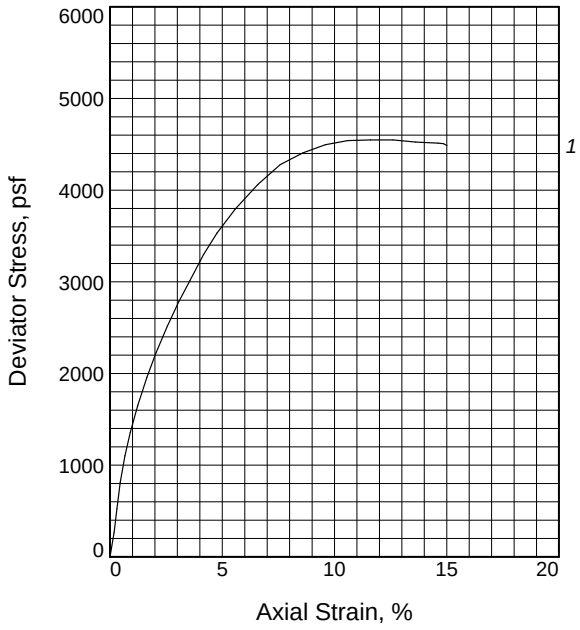
Project: Mobile River Bridge

Source of Sample: Lab #7707 **Depth:** 28.5'-30.5' **Sample Number:** BW-96 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	23.0
	Dry Density, pcf	103.7
	Saturation, %	101.4
	Void Ratio	0.6019
	Diameter, in.	2.817
	Height, in.	5.678
At Test	Water Content, %	20.8
	Dry Density, pcf	103.7
	Saturation, %	92.1
	Void Ratio	0.6019
	Diameter, in.	2.817
	Height, in.	5.678
Strain at peak, %		11.6
Back Pressure, psf		0.0
Cell Pressure, psf		3630.2
Fail. Stress, psf		4548.6
Strain, %		11.6
Ult. Stress, psf		4548.6
Strain, %		11.6
σ_1 Failure, psf		8178.9
σ_3 Failure, psf		3630.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(20))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

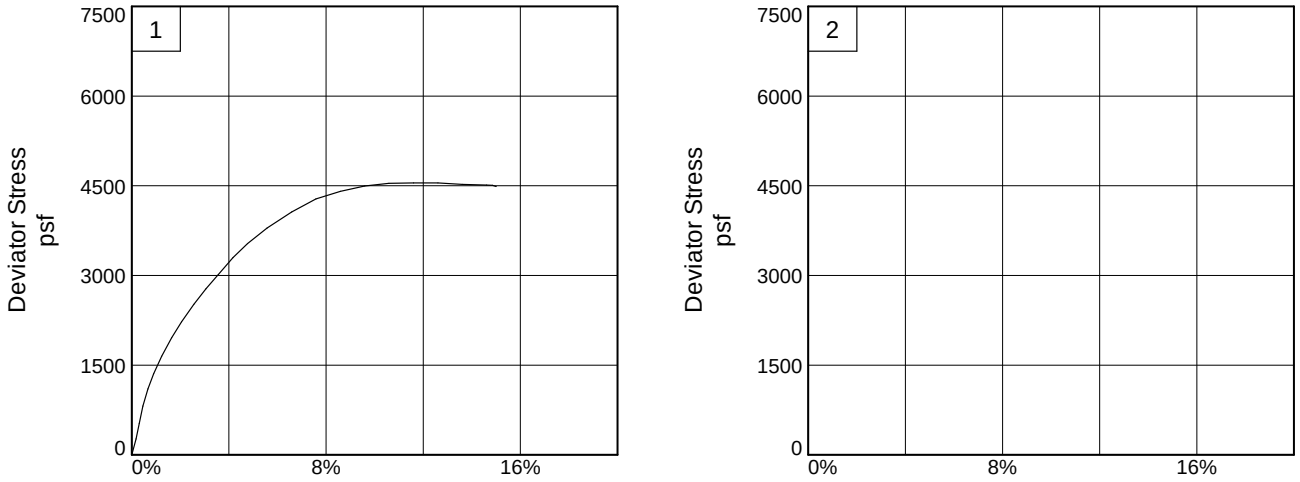
Project: Mobile River Bridge

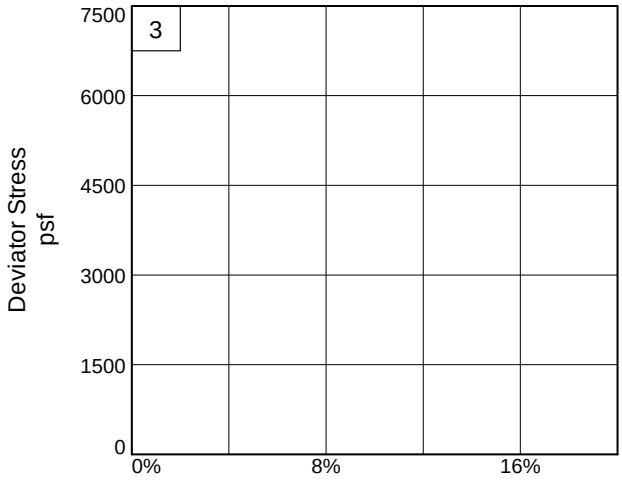
Source of Sample: Lab #7707 **Depth:** 75.5'-77.5'

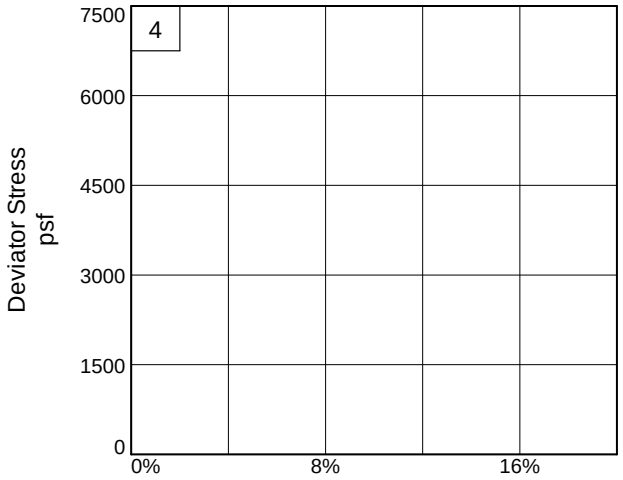
Sample Number: BW-97 T-3

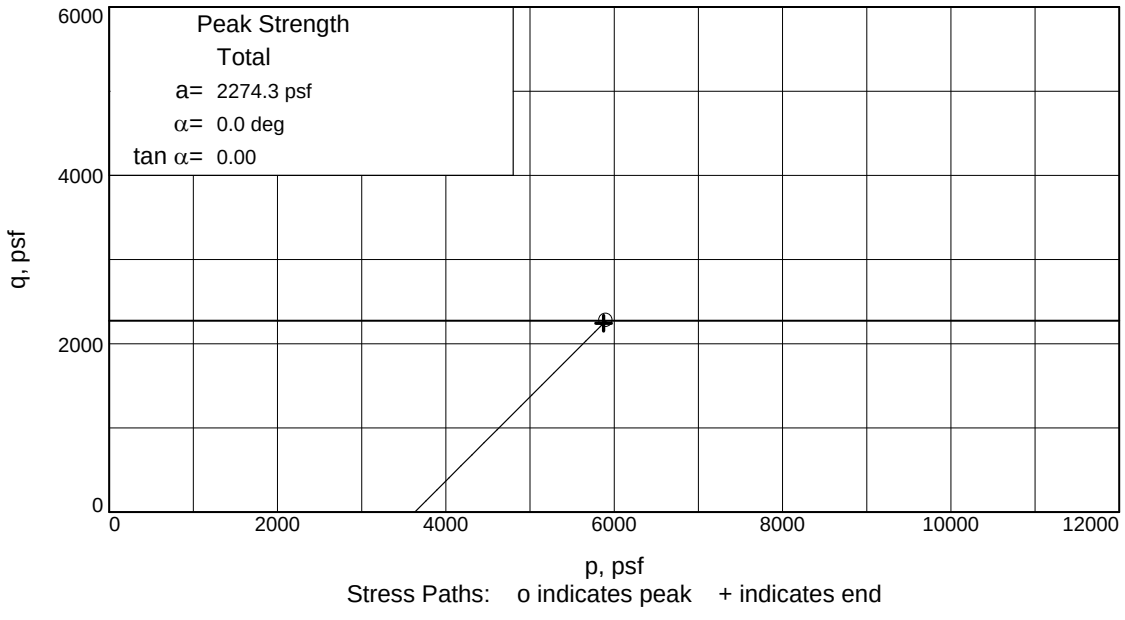
Proj. No.: 1511010228 **Date Sampled:**

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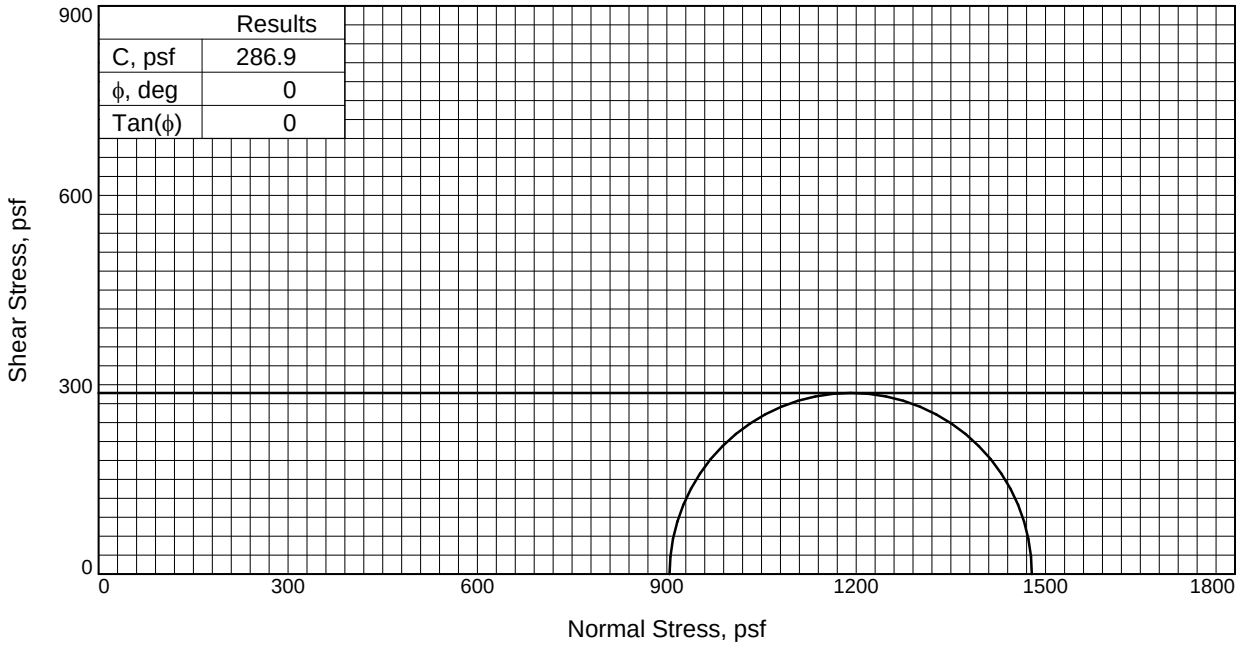


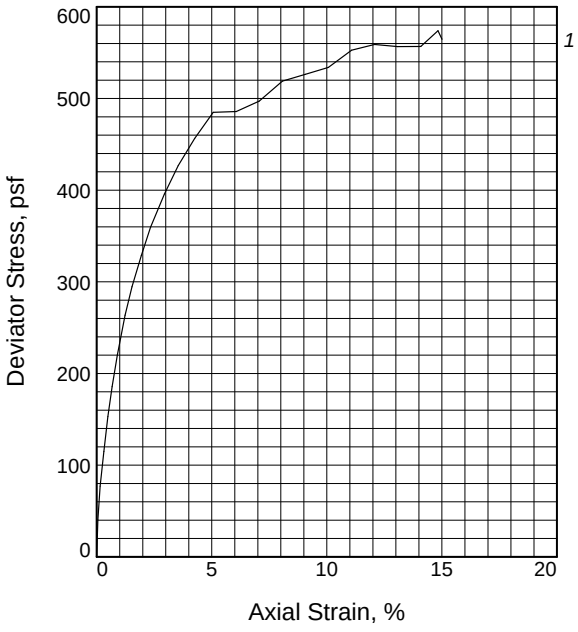




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7707 **Depth:** 75.5'-77.5' **Sample Number:** BW-97 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	55.9
	Dry Density, pcf	70.3
	Saturation, %	109.1
	Void Ratio	1.3620
	Diameter, in.	2.799
	Height, in.	5.480
At Test	Water Content, %	53.3
	Dry Density, pcf	70.3
	Saturation, %	104.1
	Void Ratio	1.3620
	Diameter, in.	2.799
	Height, in.	5.480
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		904.3
Fail. Stress, psf		573.9
Ult. Stress, psf		573.9
σ_1 Failure, psf		1478.2
σ_3 Failure, psf		904.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3" Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(38))

Specific Gravity= 2.66

Remarks: Asymetrical Shear Plane

Figure _____

Client: ALDOT

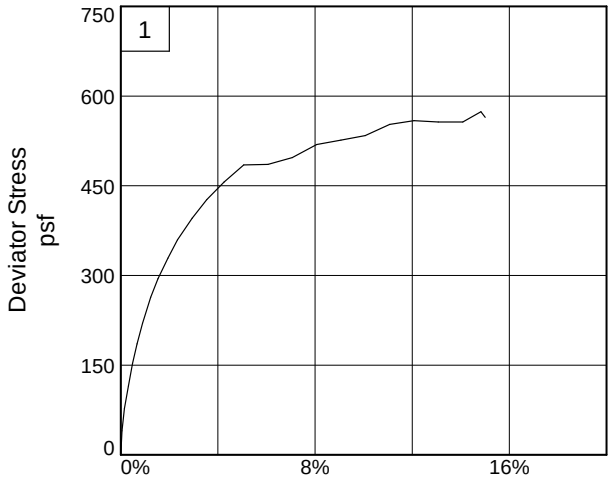
Project: Mobile River Bridge

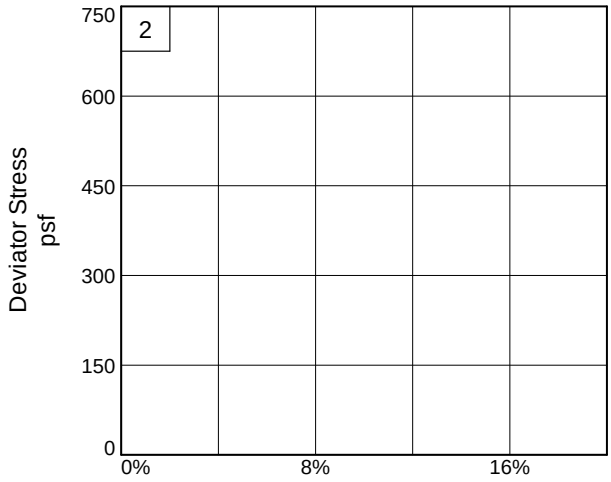
Source of Sample: Lab #7692 **Depth:** 18.5'-20.5'

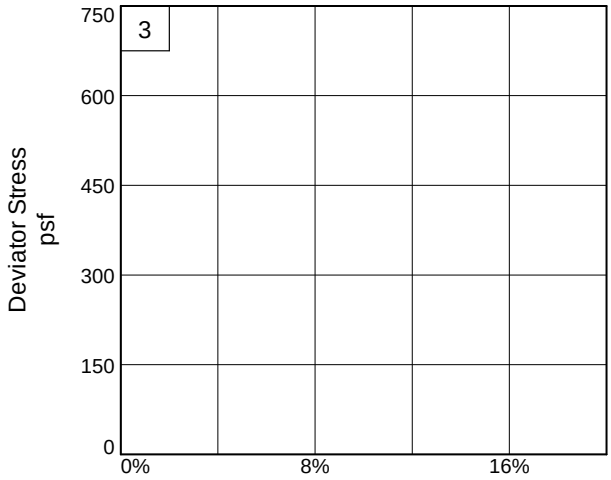
Sample Number: BW-98 T-1

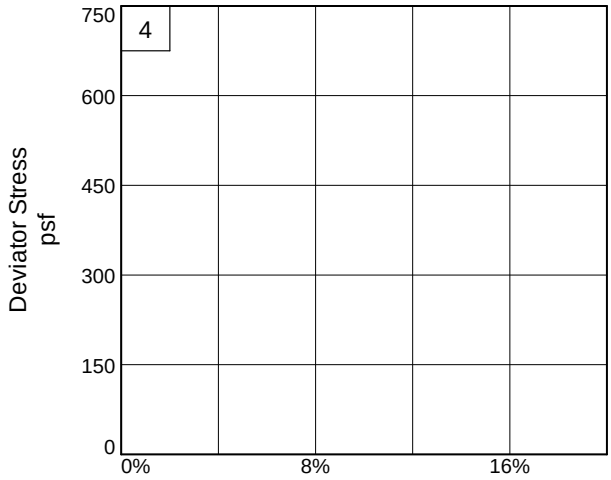
Proj. No.: 1511010228 **Date Sampled:**

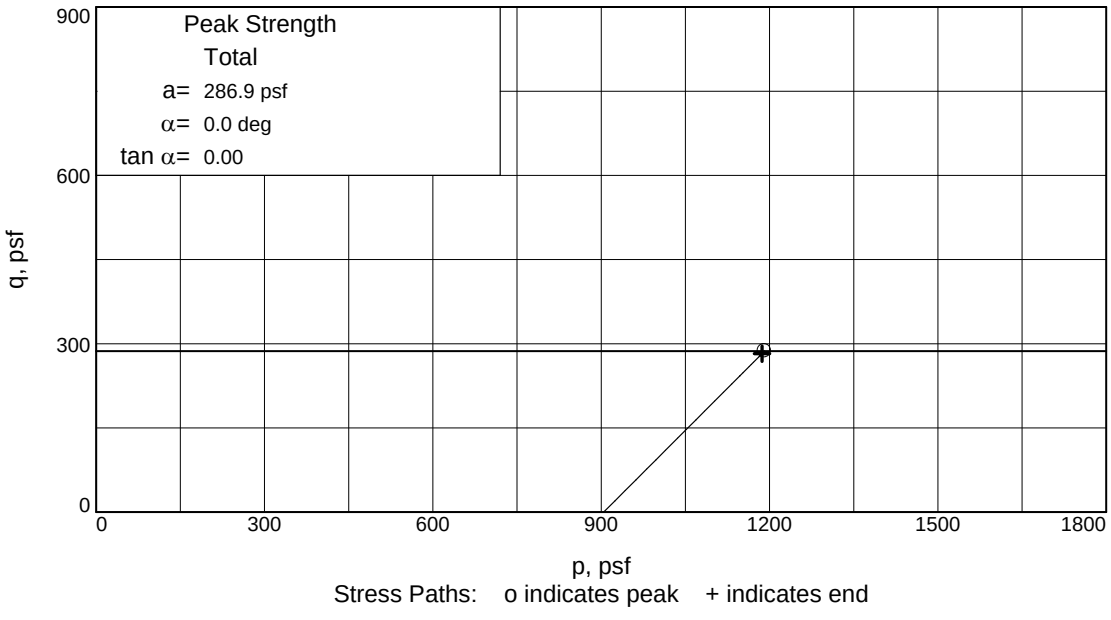
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Mobile, Alabama





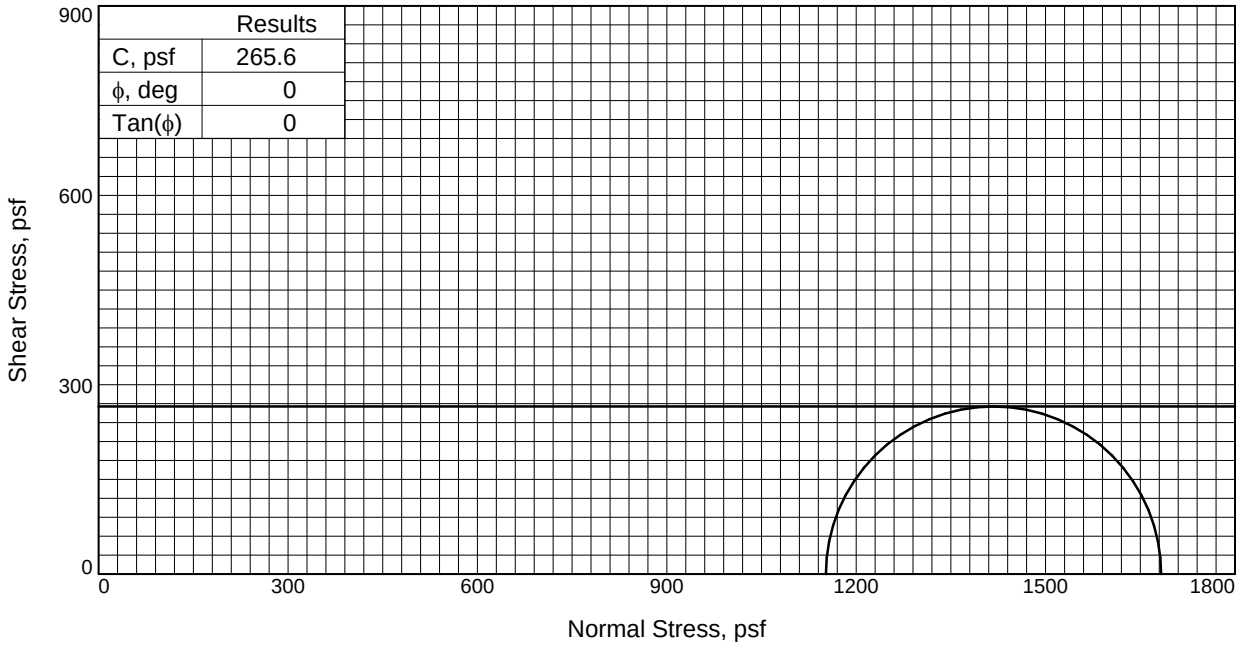


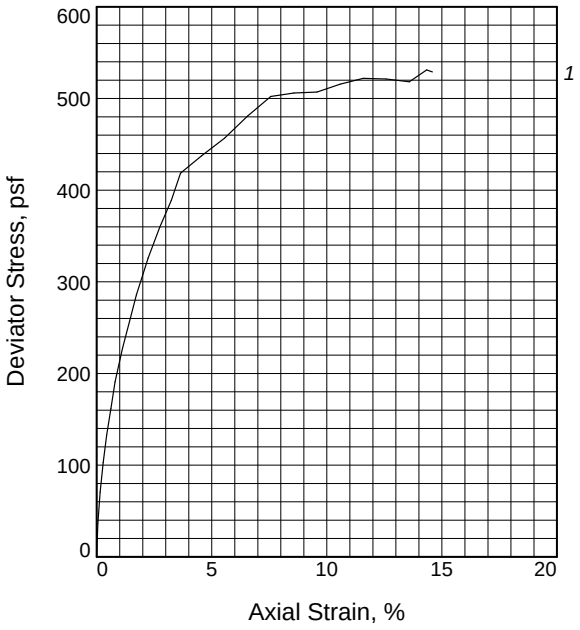




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7692 **Depth:** 18.5'-20.5' **Sample Number:** BW-98 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	40.8
	Dry Density, pcf	87.1
	Saturation, %	119.9
	Void Ratio	0.9061
	Diameter, in.	2.812
	Height, in.	5.550
At Test	Water Content, %	32.0
	Dry Density, pcf	87.1
	Saturation, %	93.9
	Void Ratio	0.9061
	Diameter, in.	2.812
	Height, in.	5.550
Strain at peak, %		14.3
Back Pressure, psf		0.0
Cell Pressure, psf		1152.0
Fail. Stress, psf		531.1
Ult. Stress, psf		531.1
σ_1 Failure, psf		1683.1
σ_3 Failure, psf		1152.0

Type of Test:
Unconsolidated Undrained
Sample Type: 3" Shelby Tube
Description: CLAYEY SAND(SC A-6(5))

Specific Gravity= 2.66
Remarks: Symetrical Bulge

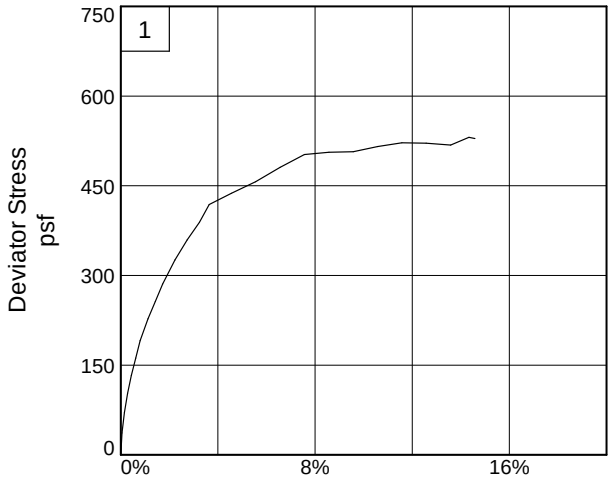
Figure _____

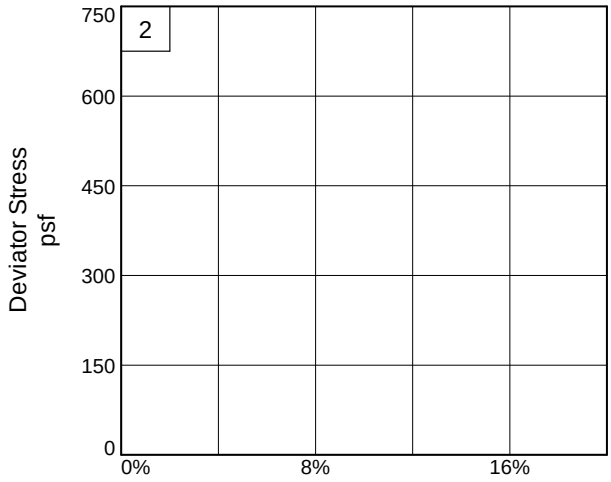
Client: ALDOT

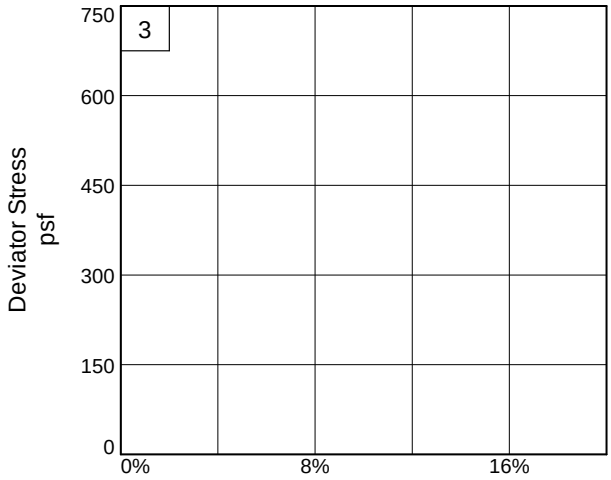
Project: Mobile River Bridge

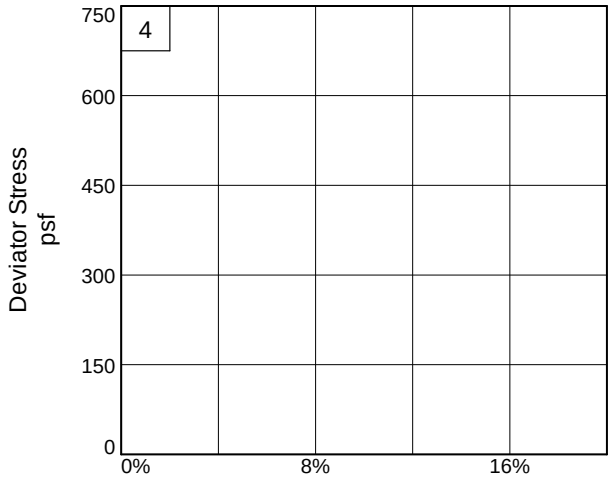
Source of Sample: Lab #7692 **Depth:** 23.5'-25.5'
Sample Number: BW-99 T-1
Proj. No.: 1511010228 **Date Sampled:**

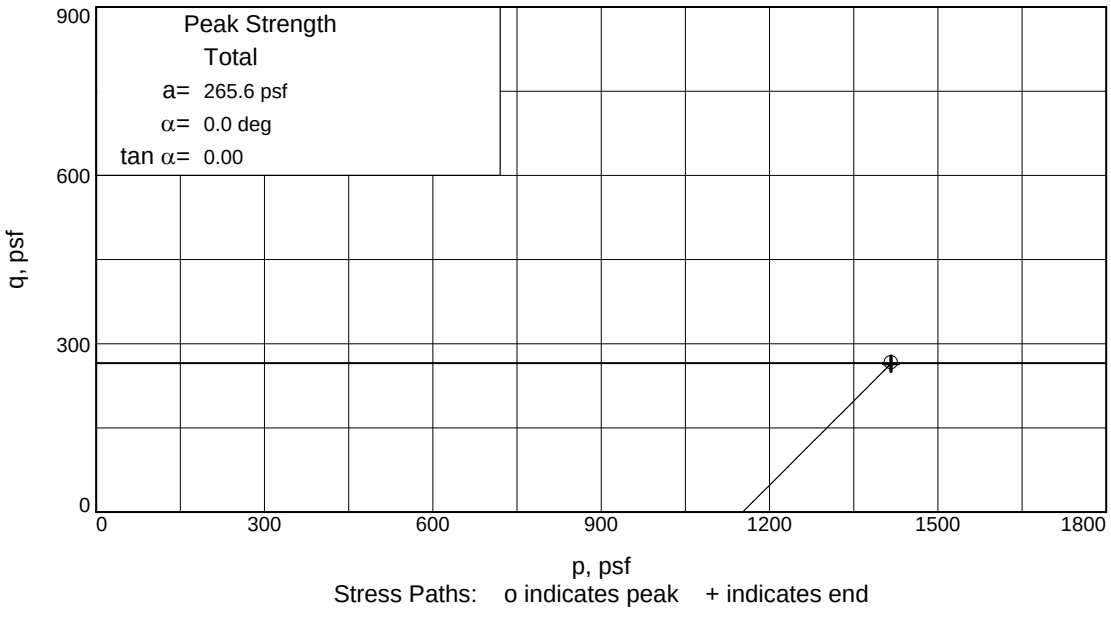
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Thompson Engineering
Mobile, Alabama





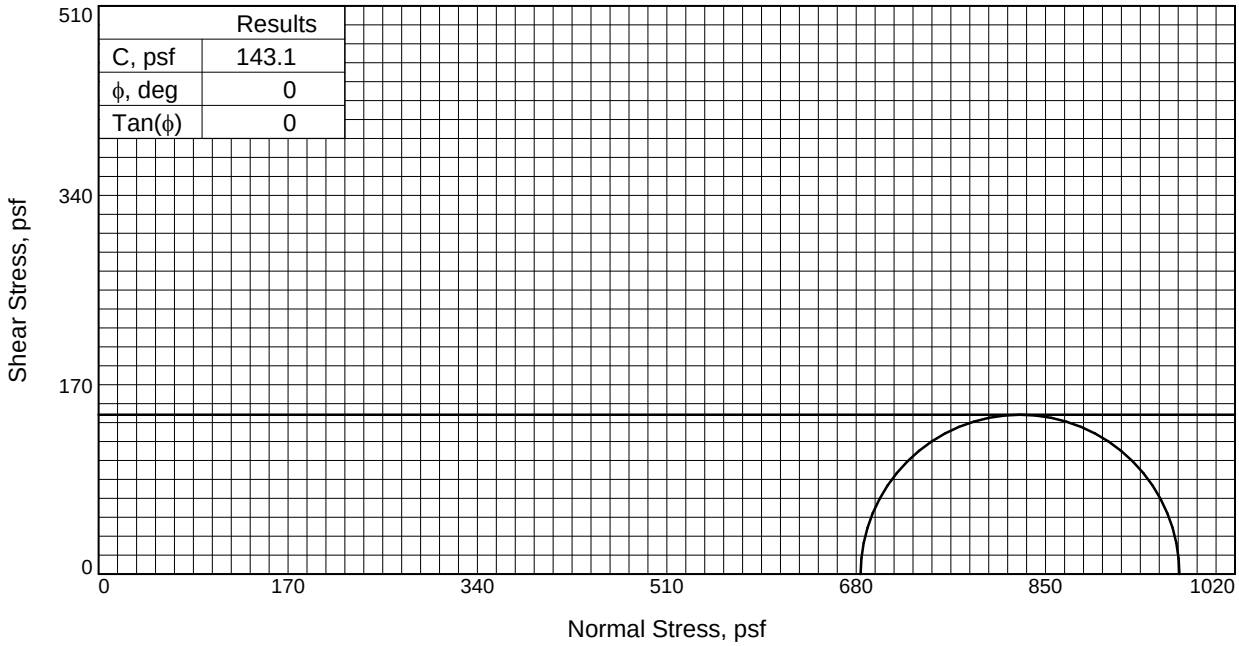


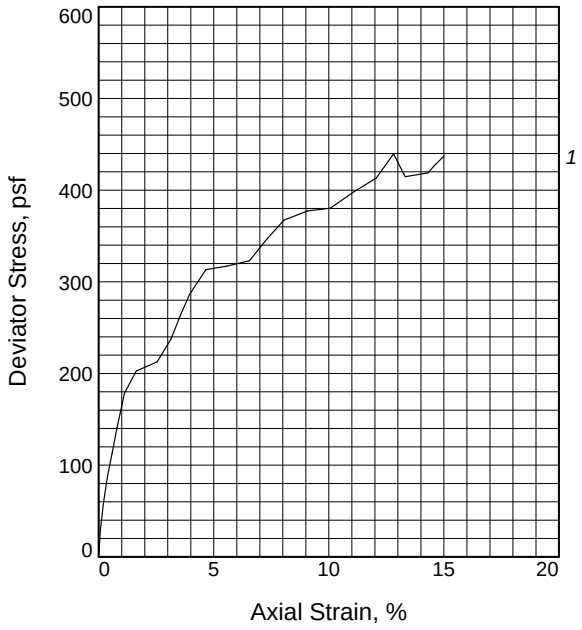




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7692 **Depth:** 23.5'-25.5' **Sample Number:** BW-99 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	46.5
	Dry Density, pcf	77.7
	Saturation, %	108.7
	Void Ratio	1.1374
	Diameter, in.	2.802
	Height, in.	5.587
At Test	Water Content, %	49.0
	Dry Density, pcf	77.7
	Saturation, %	114.7
	Void Ratio	1.1374
	Diameter, in.	2.802
	Height, in.	5.587
Strain at peak, %		3.9
Back Pressure, psf		0.0
Cell Pressure, psf		684.0
Fail. Stress, psf		286.1
Ult. Stress, psf		286.1
σ_1 Failure, psf		970.1
σ_3 Failure, psf		684.0

Type of Test:
Unconsolidated Undrained
Sample Type: 3" Shelby Tube
Description: LEAN CLAY with SAND(CL A-6(15))

Specific Gravity= 2.66
Remarks: Symetrical Bulge

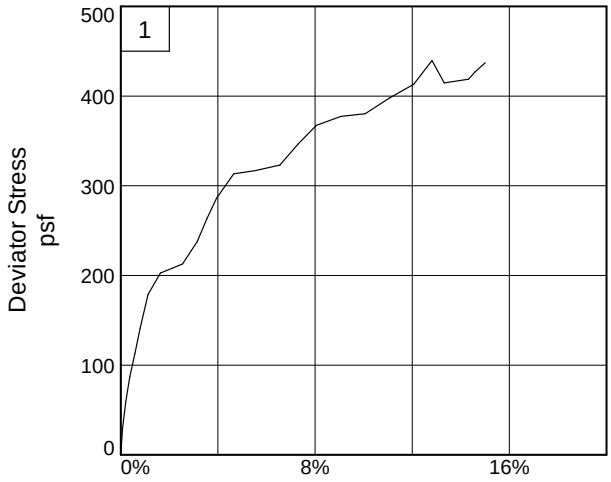
Figure _____

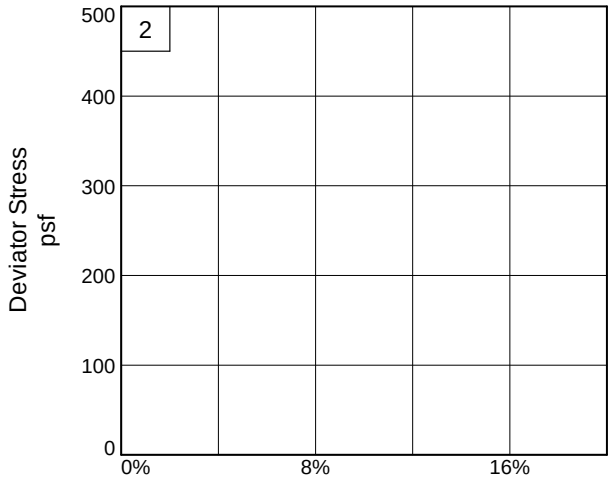
Client: ALDOT

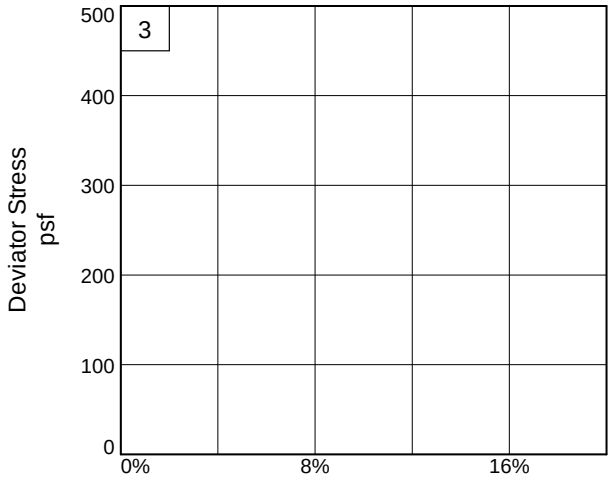
Project: Mobile River Bridge

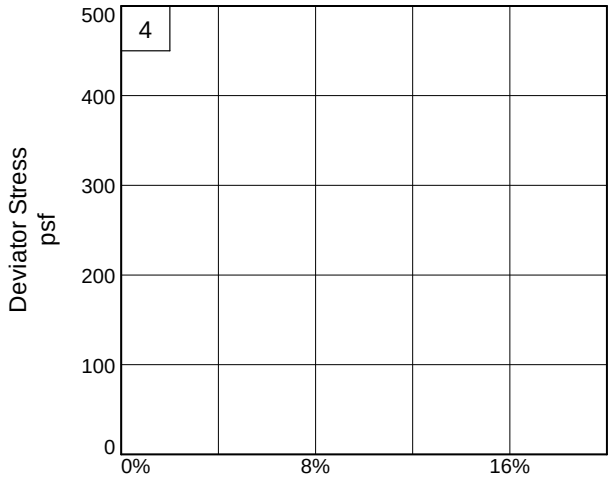
Source of Sample: Lab #7692 **Depth:** 13.5'-15.5'
Sample Number: BW-100 T-1
Proj. No.: 1511010228 **Date Sampled:**

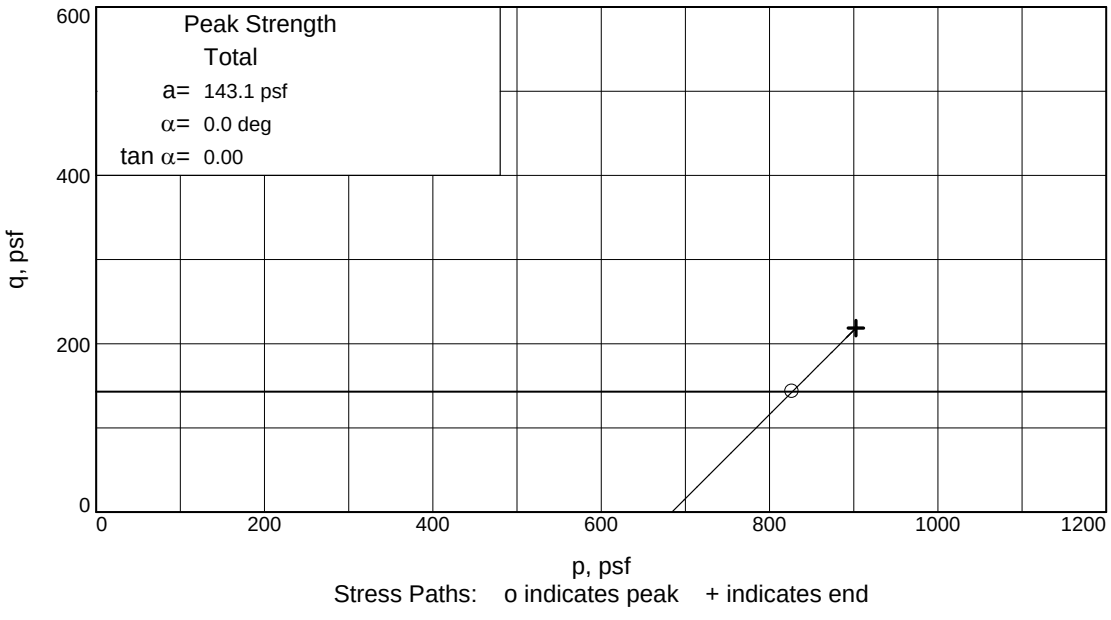
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Mobile, Alabama





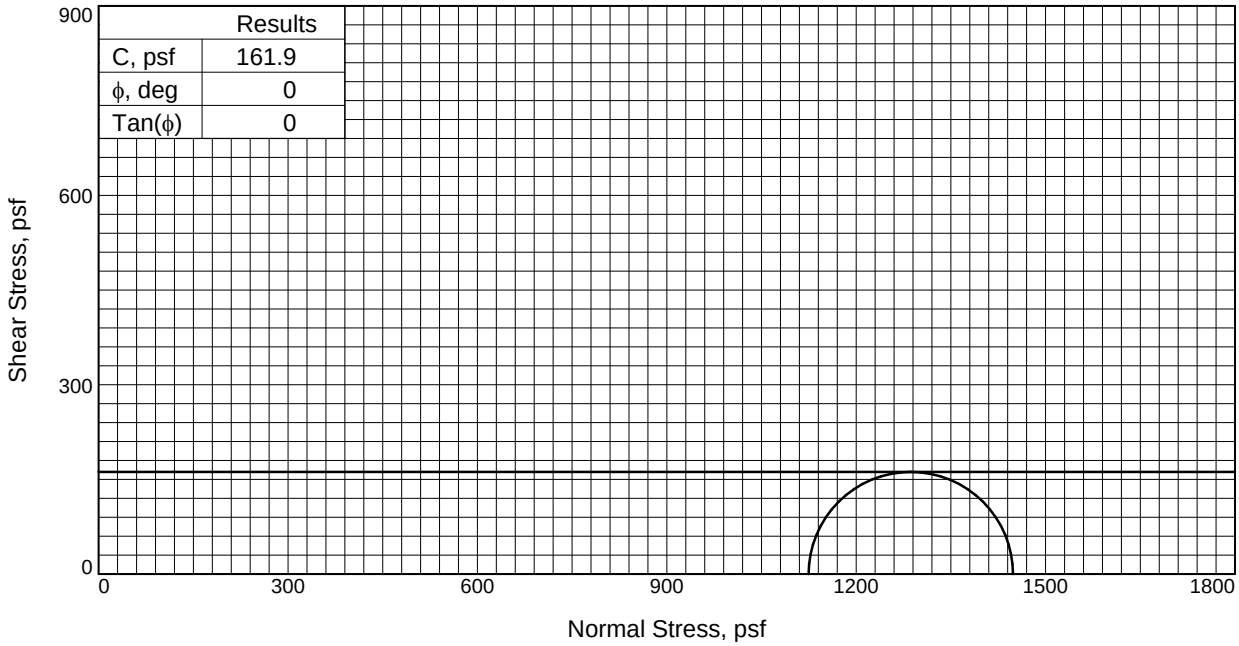


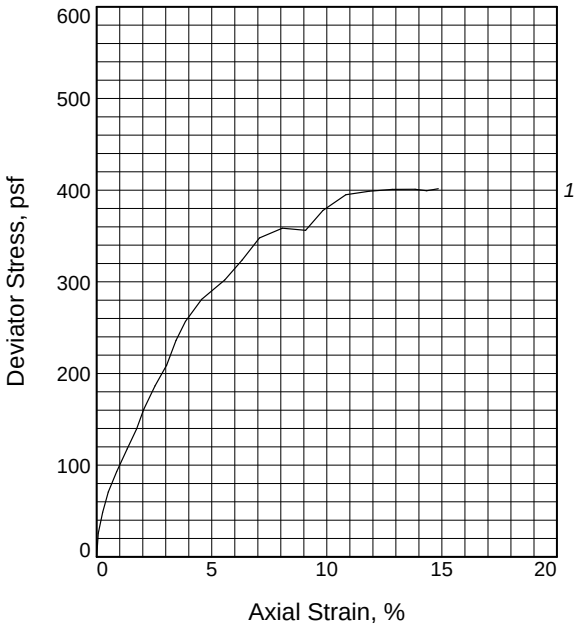




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7692 **Depth:** 13.5'-15.5' **Sample Number:** BW-100 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	32.9
	Dry Density, pcf	95.2
	Saturation, %	117.6
	Void Ratio	0.7446
	Diameter, in.	2.800
	Height, in.	5.500
At Test	Water Content, %	29.4
	Dry Density, pcf	95.2
	Saturation, %	105.0
	Void Ratio	0.7446
	Diameter, in.	2.800
	Height, in.	5.500
Strain at peak, %		6.3
Back Pressure, psf		0.0
Cell Pressure, psf		1124.6
Fail. Stress, psf		323.7
Ult. Stress, psf		323.7
σ_1 Failure, psf		1448.4
σ_3 Failure, psf		1124.6

Type of Test:
Unconsolidated Undrained
Sample Type: 3" Shelby Tube
Description: CLAYEY SAND(SC A-6(5))

Specific Gravity= 2.66
Remarks: Symetrical Bulge

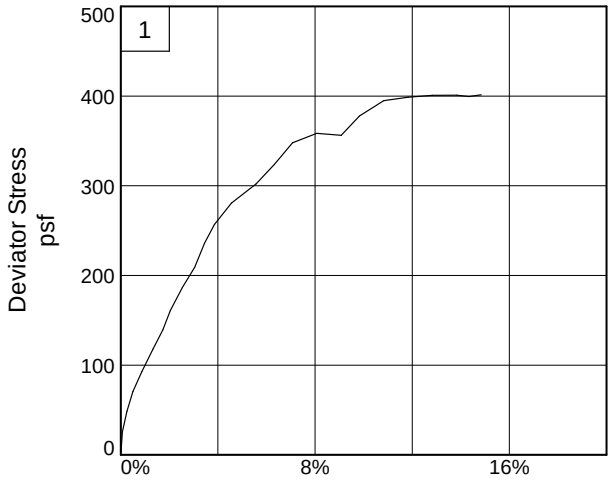
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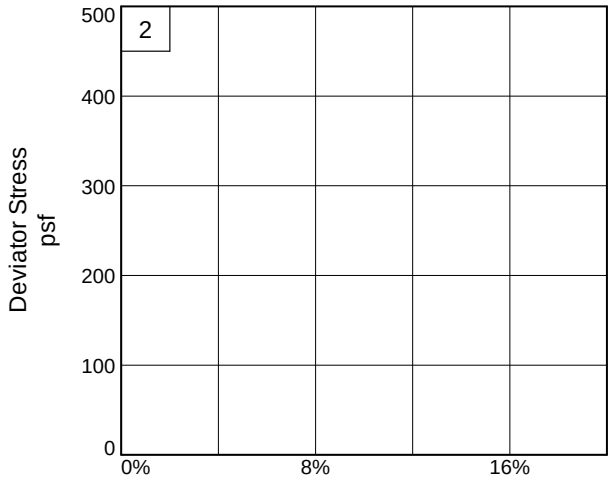
Client: ALDOT

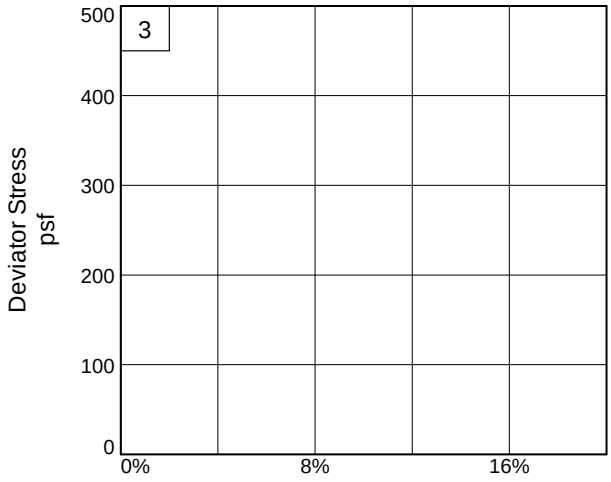
Project: Mobile River Bridge

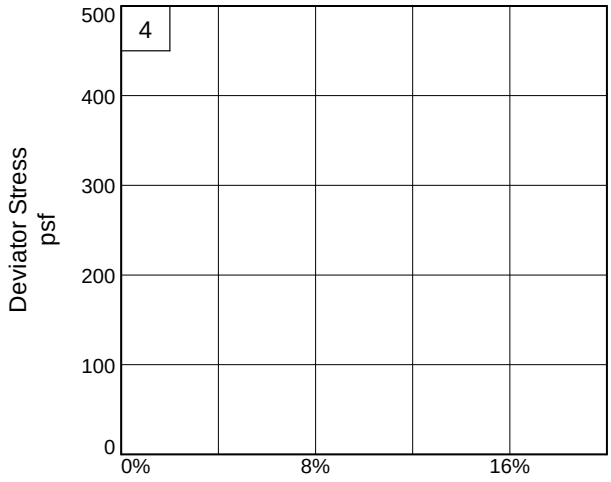
Source of Sample: Lab #7692 **Depth:** 23.5'-25.5'
Sample Number: BW-100 T-2
Proj. No.: 1511010228 **Date Sampled:**

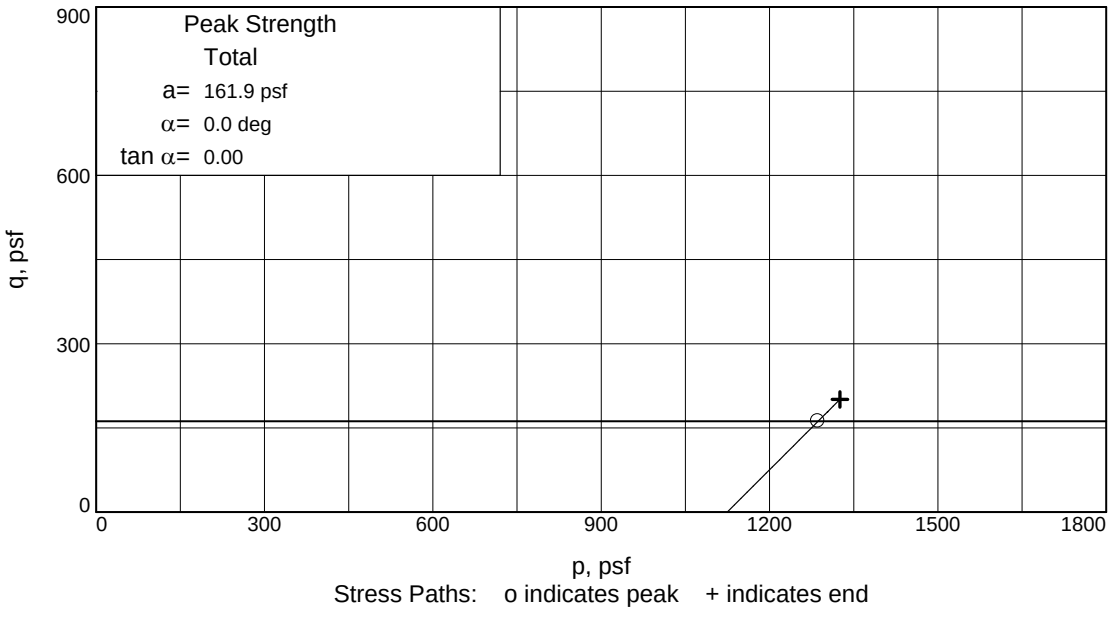
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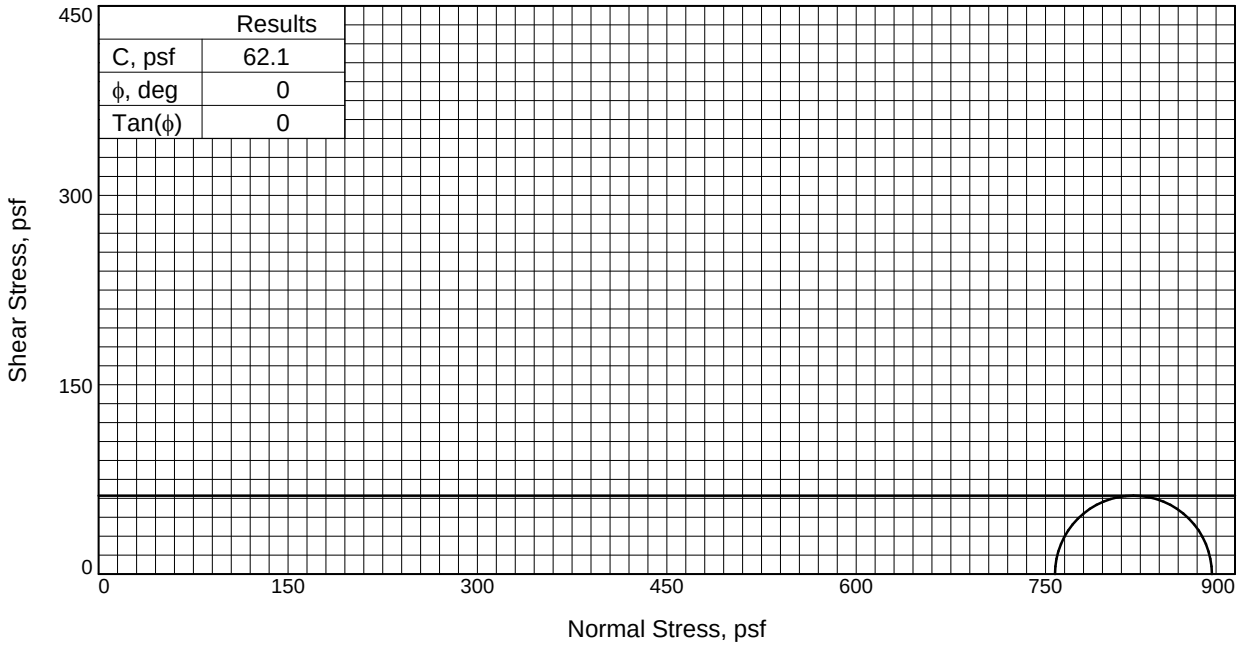


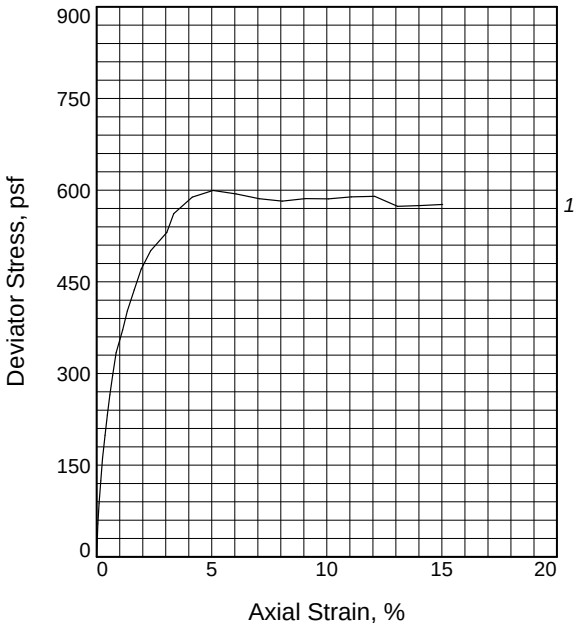




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7692 **Depth:** 23.5'-25.5' **Sample Number:** BW-100 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	49.8
	Dry Density, pcf	72.9
	Saturation, %	103.8
	Void Ratio	1.2765
	Diameter, in.	2.814
	Height, in.	5.621
At Test	Water Content, %	48.0
	Dry Density, pcf	72.9
	Saturation, %	100.0
	Void Ratio	1.2765
	Diameter, in.	2.814
	Height, in.	5.621
Strain at peak, %		0.2
Back Pressure, psf		0.0
Cell Pressure, psf		757.4
Fail. Stress, psf		124.3
Ult. Stress, psf		124.3
σ_1 Failure, psf		881.7
σ_3 Failure, psf		757.4

Type of Test:
Unconsolidated Undrained
Sample Type: 3" Shelby Tube
Description: SANDY FAT CLAY(CH A-7-6(22))

Specific Gravity= 2.66
Remarks: Symetrical Bulge

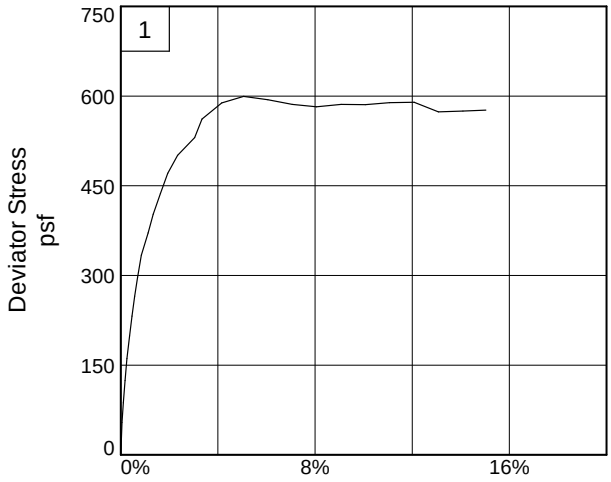
Figure _____

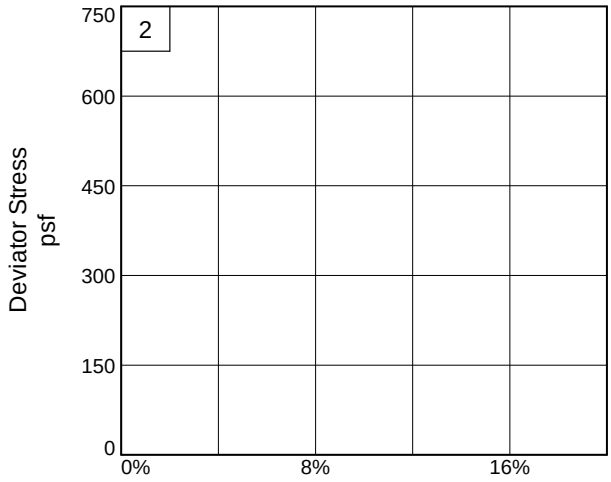
Client: ALDOT

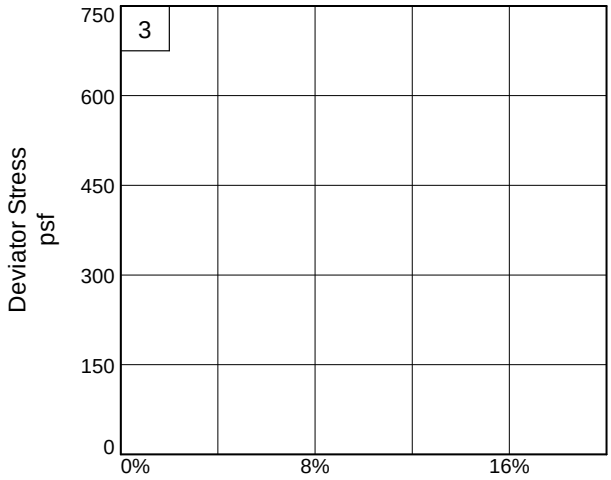
Project: Mobile River Bridge

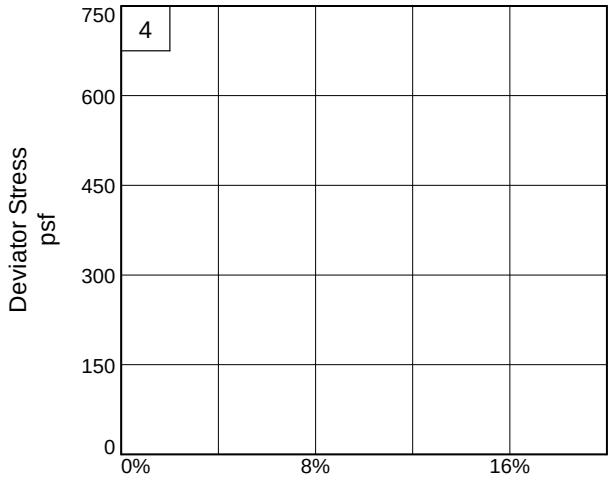
Source of Sample: Lab #7692 **Depth:** 15.5'-17.5'
Sample Number: BW-101 T-1
Proj. No.: 1511010228 **Date Sampled:**

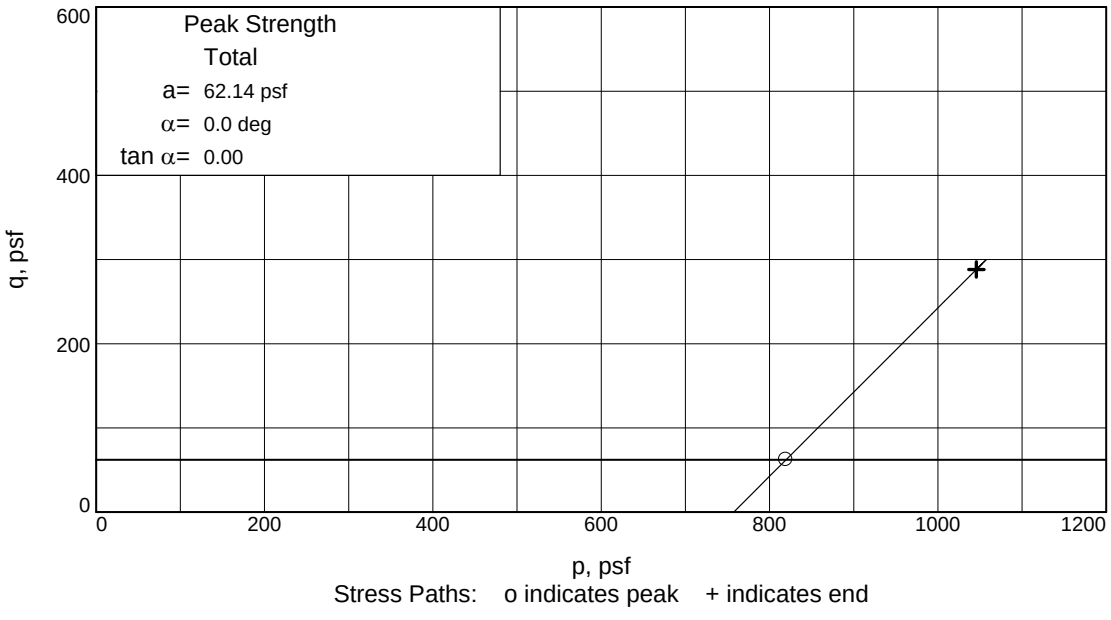
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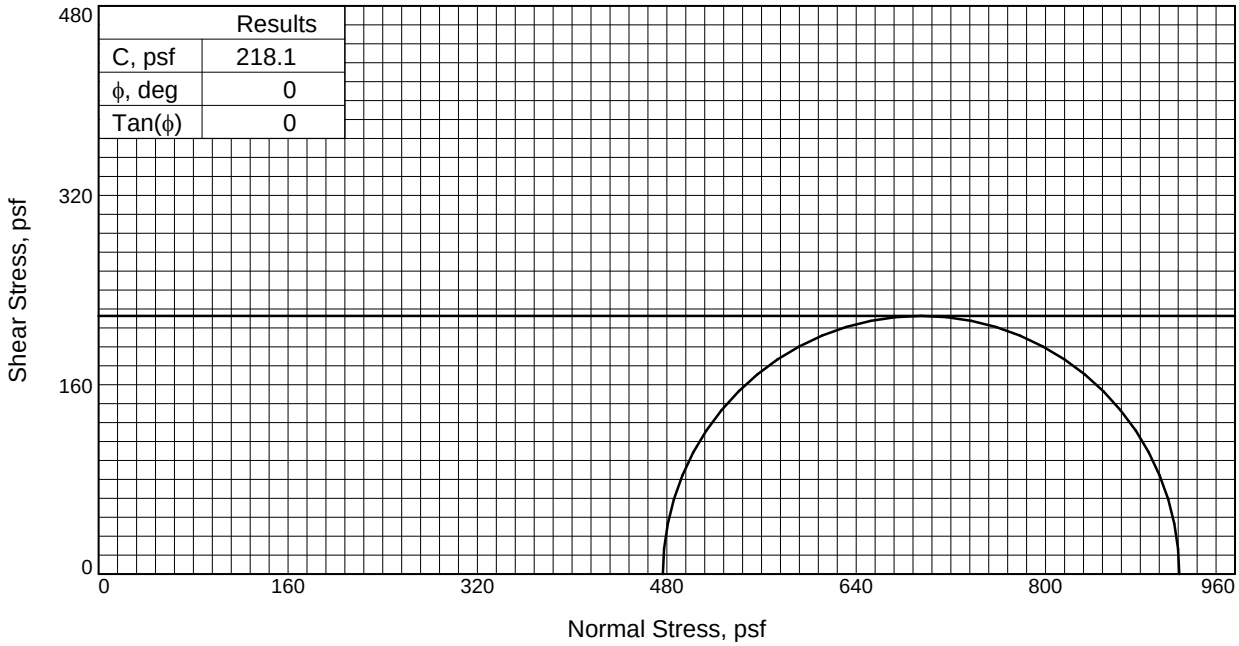


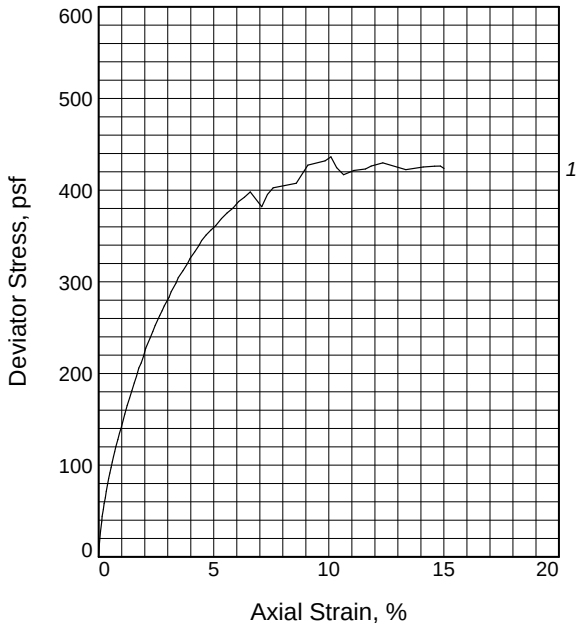


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7692 **Depth:** 15.5'-17.5' **Sample Number:** BW-101 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	43.4
	Dry Density, pcf	80.9
	Saturation, %	109.8
	Void Ratio	1.0515
	Diameter, in.	2.803
	Height, in.	5.380
At Test	Water Content, %	42.4
	Dry Density, pcf	80.9
	Saturation, %	107.4
	Void Ratio	1.0515
	Diameter, in.	2.803
	Height, in.	5.380
Strain at peak, %		10.1
Back Pressure, psf		0.0
Cell Pressure, psf		476.6
Fail. Stress, psf		436.3
Strain, %		10.1
Ult. Stress, psf		436.3
Strain, %		10.1
σ_1 Failure, psf		912.9
σ_3 Failure, psf		476.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(9))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

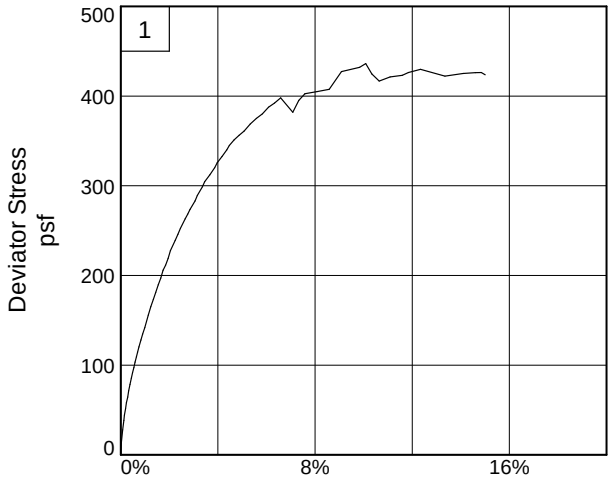
Project: Mobile River Bridge

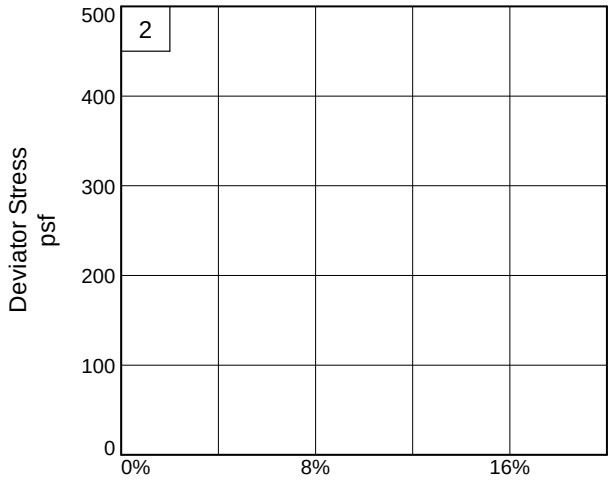
Source of Sample: Lab #7670 **Depth:** 8.5'-10.5'

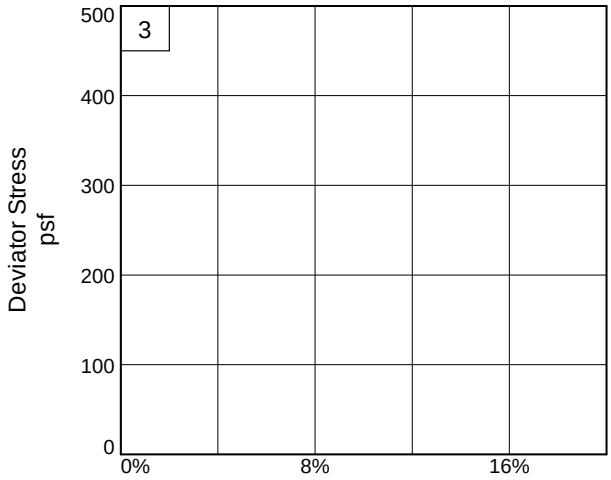
Sample Number: BW-102 T-1

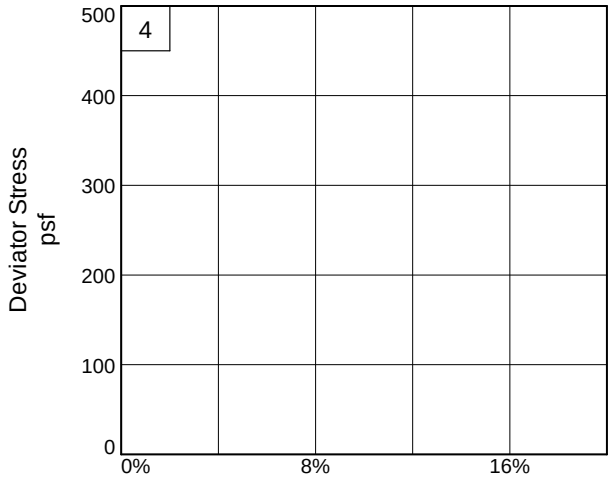
Proj. No.: 1511010228 **Date Sampled:**

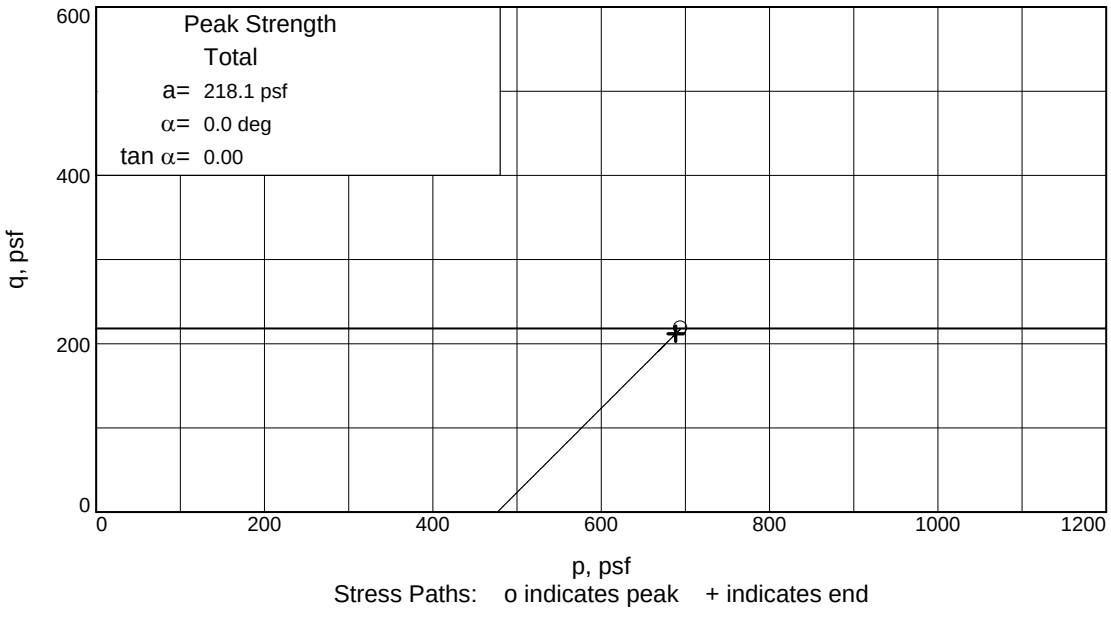
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Mobile, Alabama





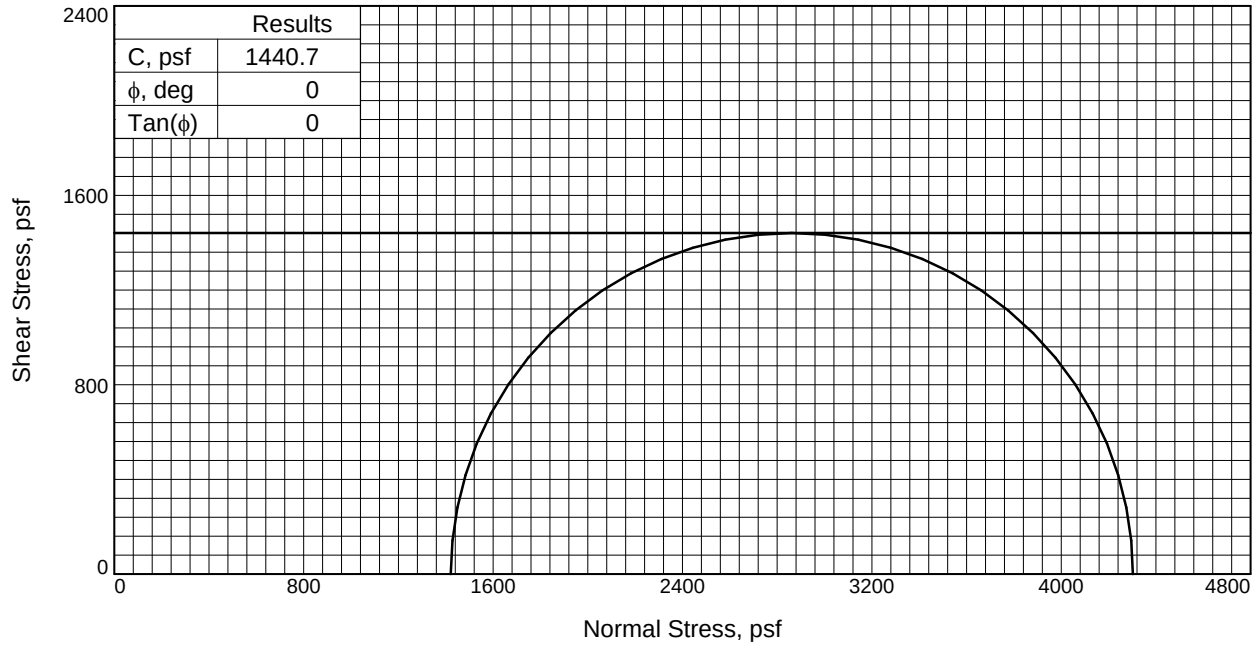


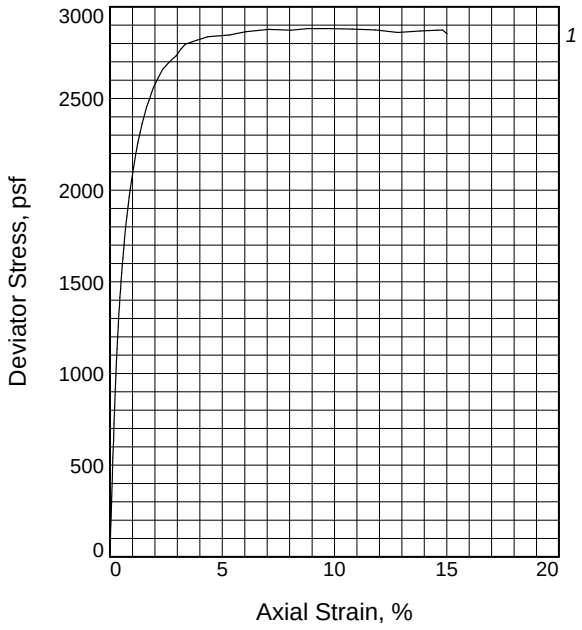




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 8.5'-10.5' **Sample Number:** BW-102 T-1
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	33.7
	Dry Density, pcf	90.0
	Saturation, %	105.9
	Void Ratio	0.8460
	Diameter, in.	2.841
	Height, in.	5.587
At Test	Water Content, %	33.5
	Dry Density, pcf	90.0
	Saturation, %	105.3
	Void Ratio	0.8460
	Diameter, in.	2.841
	Height, in.	5.587
Strain at peak, %		9.8
Back Pressure, psf		0.0
Cell Pressure, psf		1421.3
Fail. Stress, psf		2881.4
Strain, %		9.8
Ult. Stress, psf		2881.4
Strain, %		9.8
σ_1 Failure, psf		4302.7
σ_3 Failure, psf		1421.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(9))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

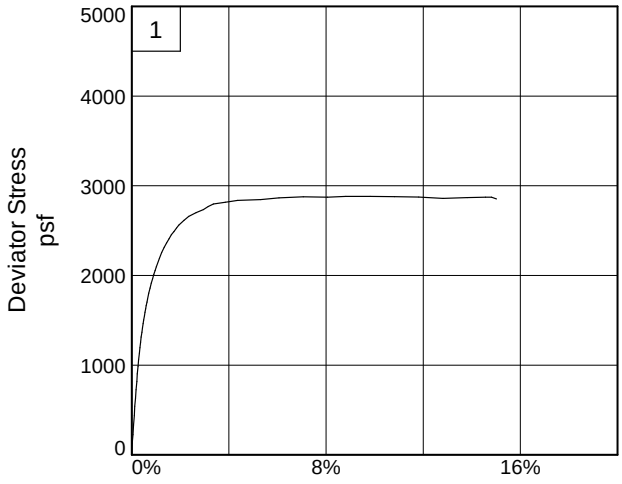
Project: Mobile River Bridge

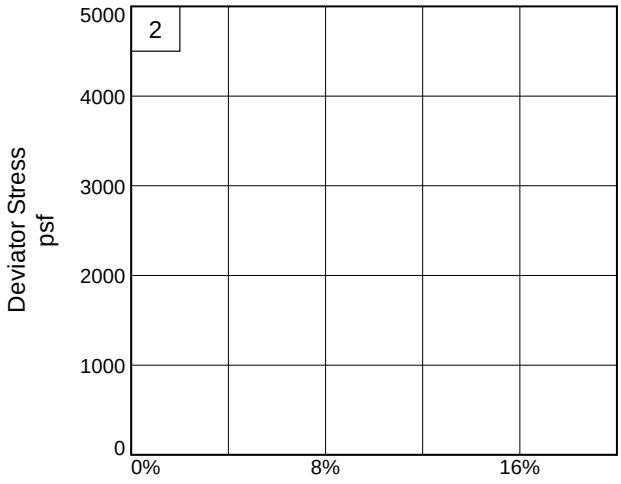
Source of Sample: Lab #7670 **Depth:** 28.5'-30.5'

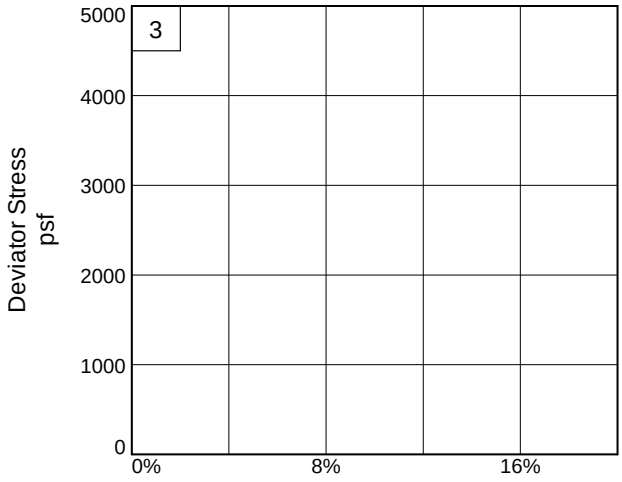
Sample Number: BW-102 T-3

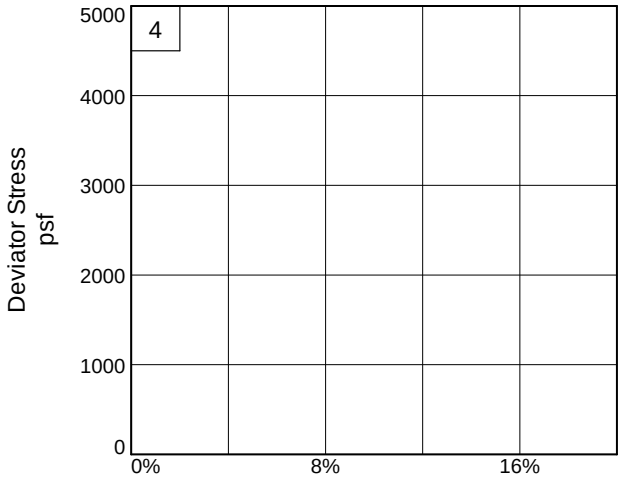
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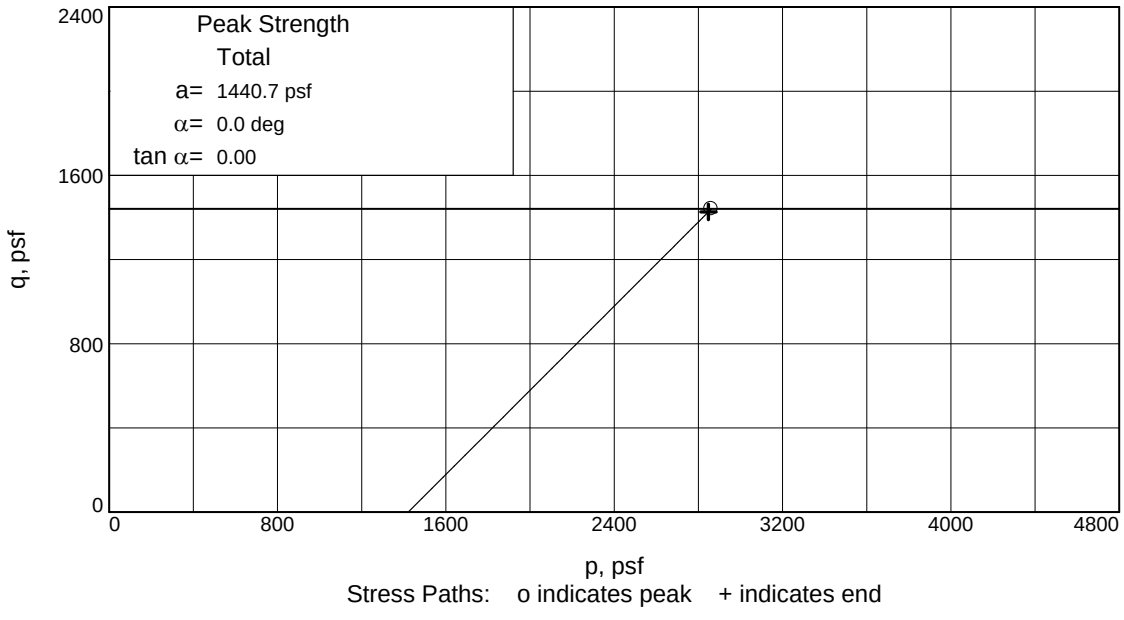
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Thompson Engineering
Mobile, Alabama





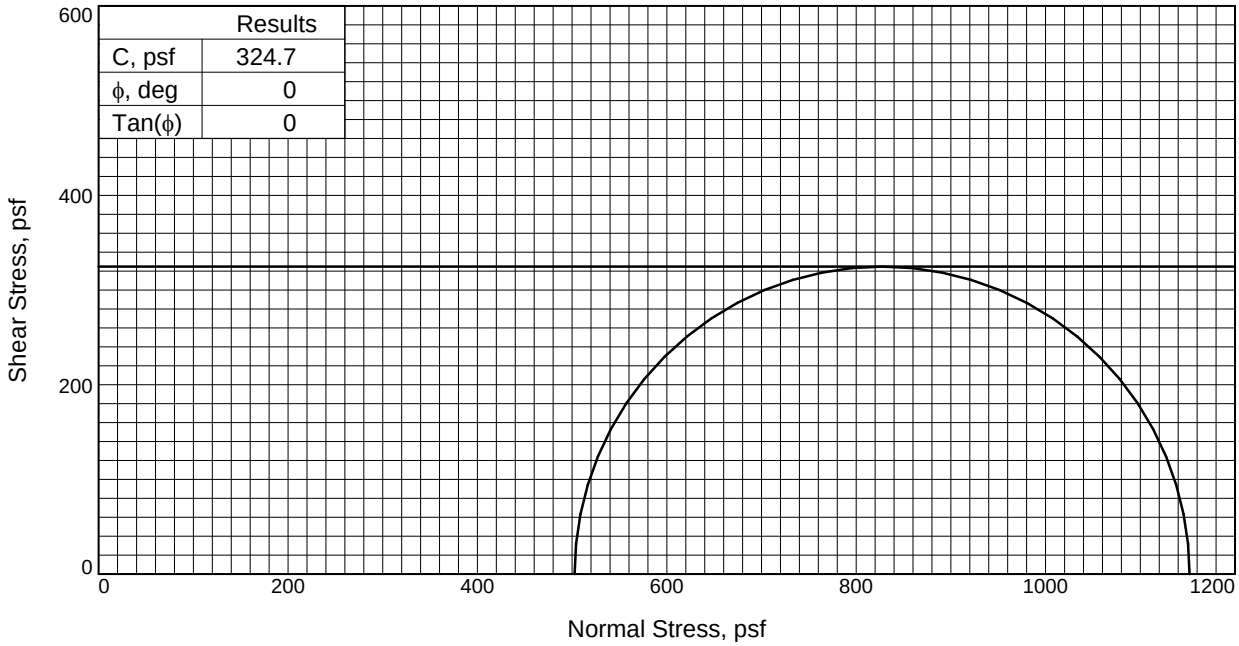


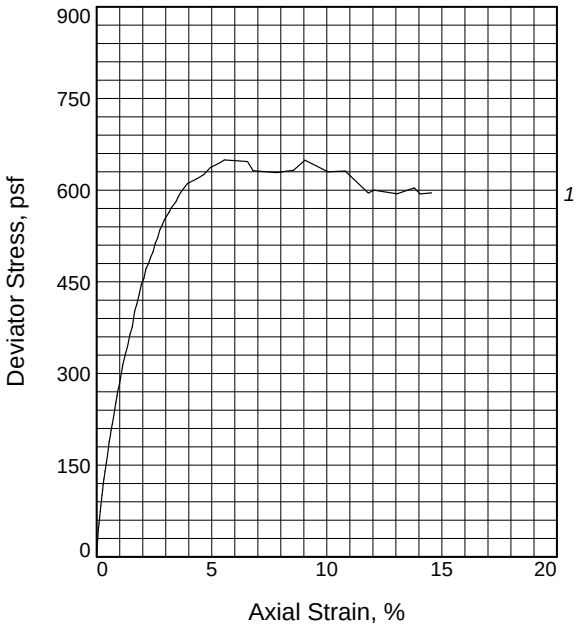




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 28.5'-30.5' **Sample Number:** BW-102 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	44.7
	Dry Density, pcf	77.9
	Saturation, %	105.2
	Void Ratio	1.1303
	Diameter, in.	2.819
	Height, in.	5.481
At Test	Water Content, %	46.4
	Dry Density, pcf	77.9
	Saturation, %	109.3
	Void Ratio	1.1303
	Diameter, in.	2.819
	Height, in.	5.481
Strain at peak, %		5.5
Back Pressure, psf		0.0
Cell Pressure, psf		502.6
Fail. Stress, psf		649.4
Strain, %		5.5
Ult. Stress, psf		649.4
Strain, %		5.5
σ_1 Failure, psf		1152.0
σ_3 Failure, psf		502.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(11))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

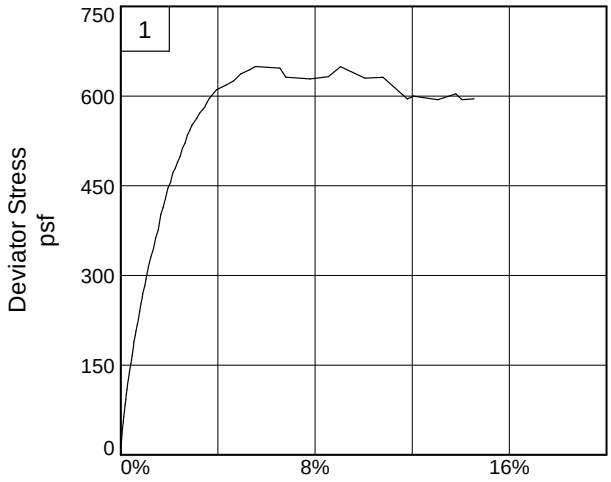
Project: Mobile River Bridge

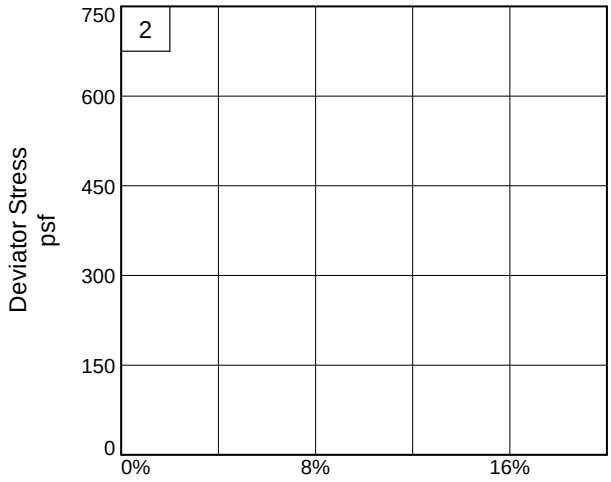
Source of Sample: Lab #7670 **Depth:** 8.0'-10.0'

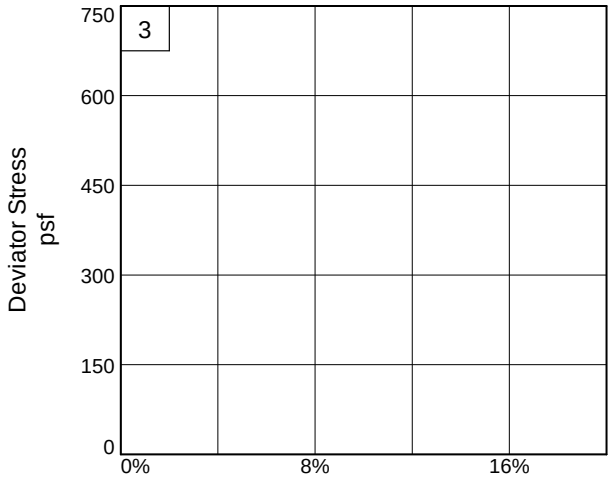
Sample Number: BW-103 T-1

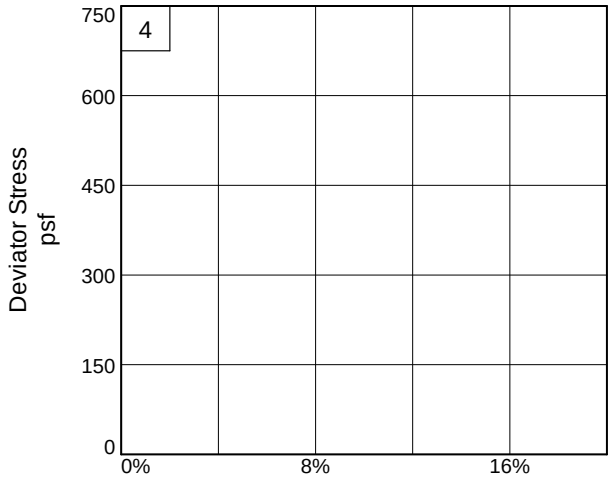
Proj. No.: 1511010228 **Date Sampled:**

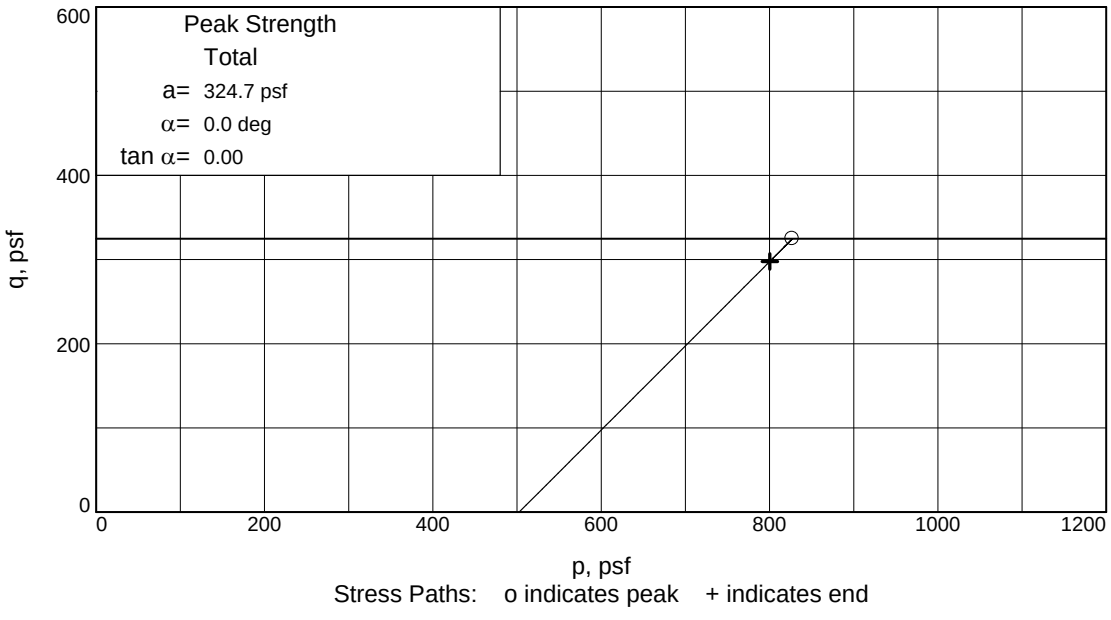
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Mobile, Alabama







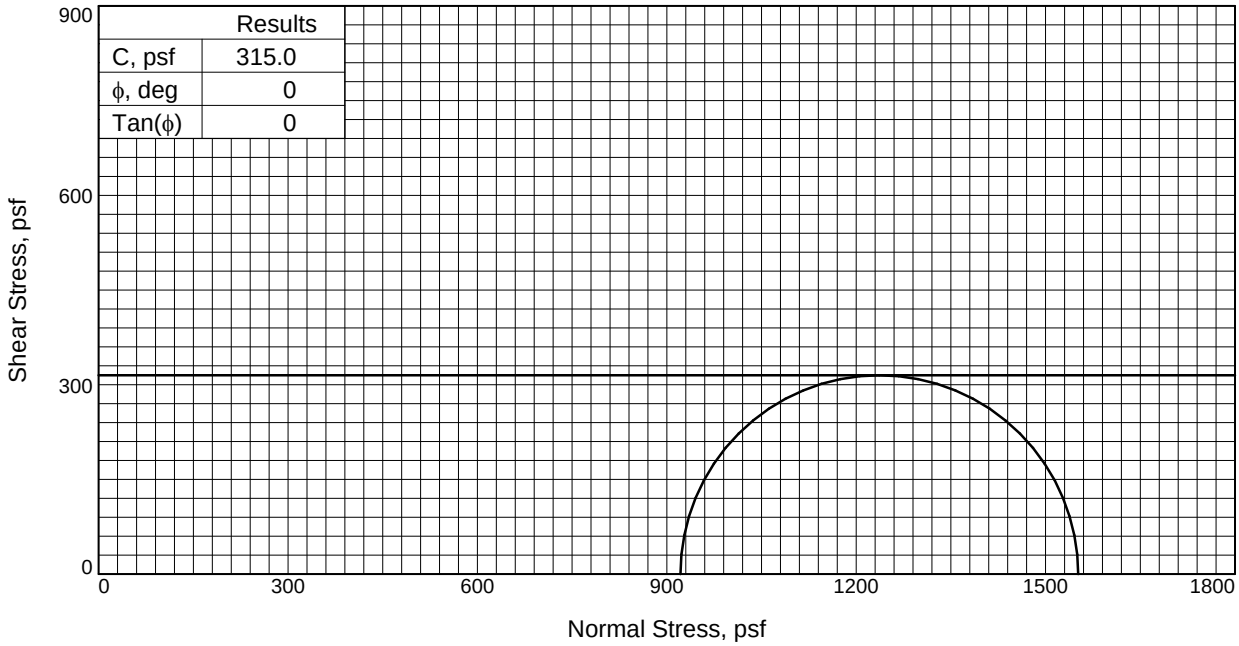


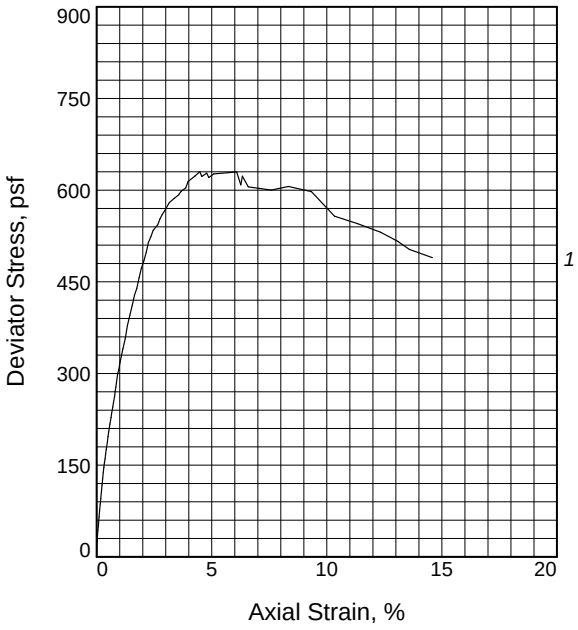


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 8.0'-10.0' **Sample Number:** BW-103 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	34.6
	Dry Density, pcf	89.1
	Saturation, %	106.6
	Void Ratio	0.8644
	Diameter, in.	2.828
	Height, in.	5.653
At Test	Water Content, %	36.8
	Dry Density, pcf	89.1
	Saturation, %	113.2
	Void Ratio	0.8644
	Diameter, in.	2.828
	Height, in.	5.653
Strain at peak, %		4.5
Back Pressure, psf		0.0
Cell Pressure, psf		921.6
Fail. Stress, psf		630.0
Strain, %		4.5
Ult. Stress, psf		630.0
Strain, %		4.5
σ_1 Failure, psf		1551.6
σ_3 Failure, psf		921.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(6))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

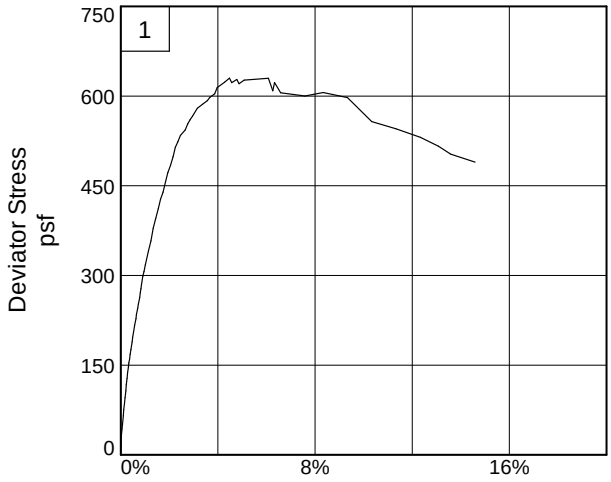
Project: Mobile River Bridge

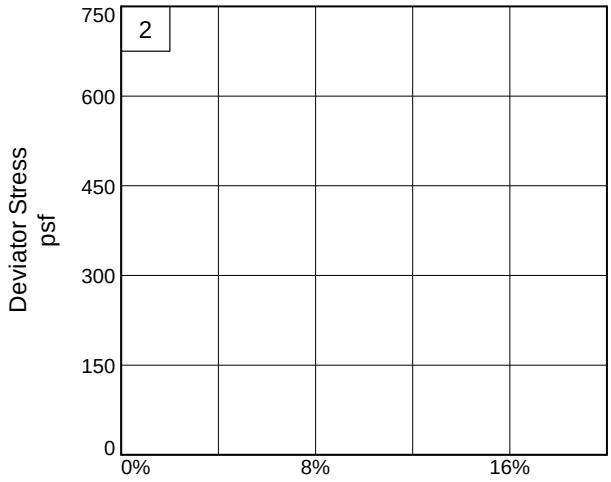
Source of Sample: Lab #7670 **Depth:** 18.5'-20.5'

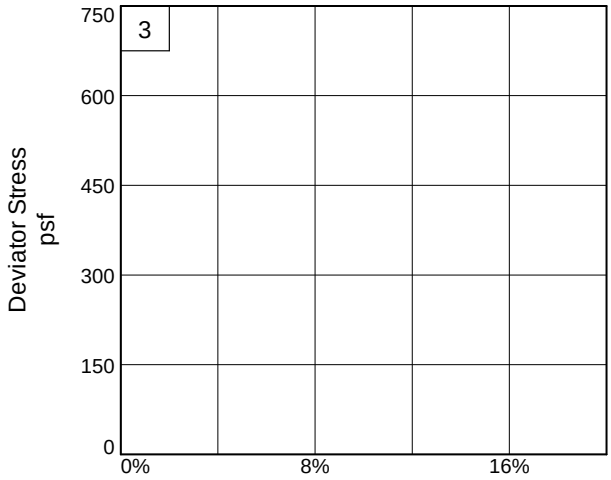
Sample Number: BW-103 T-2

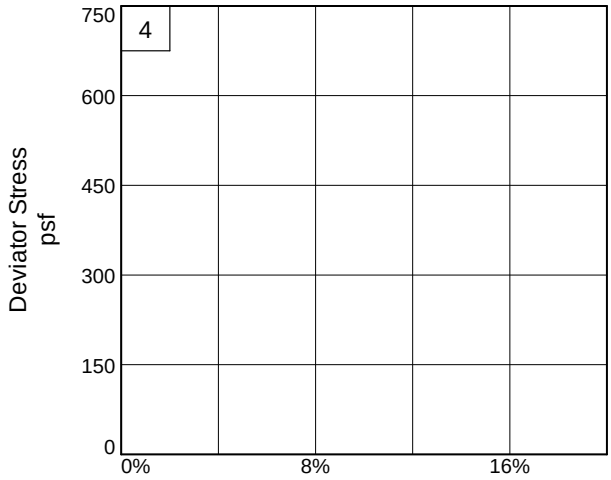
Proj. No.: 1511010228 **Date Sampled:**

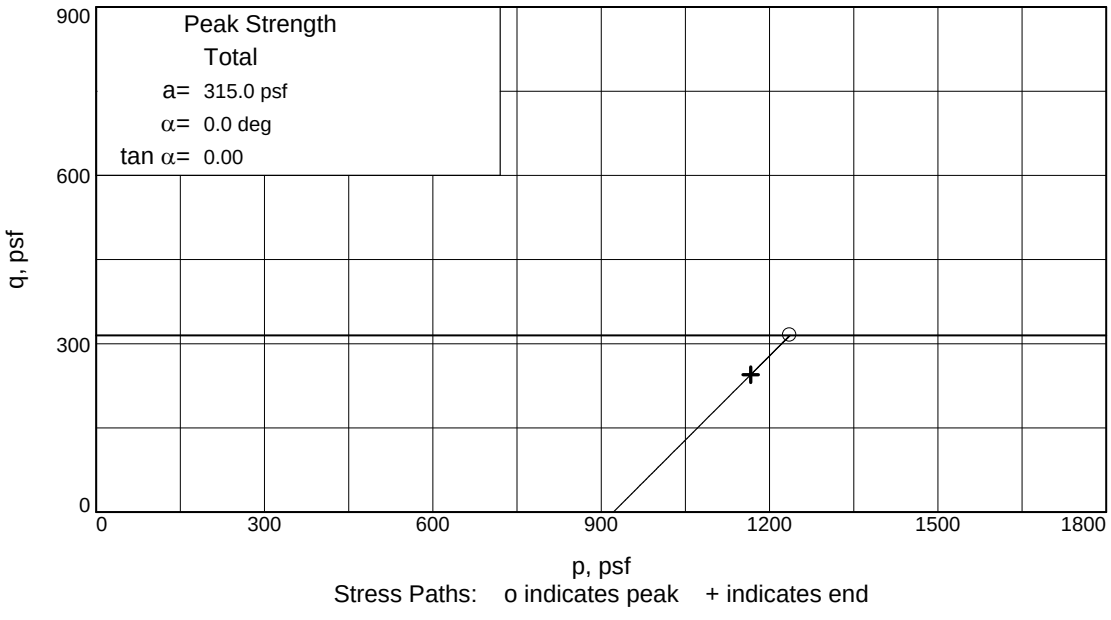
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Mobile, Alabama





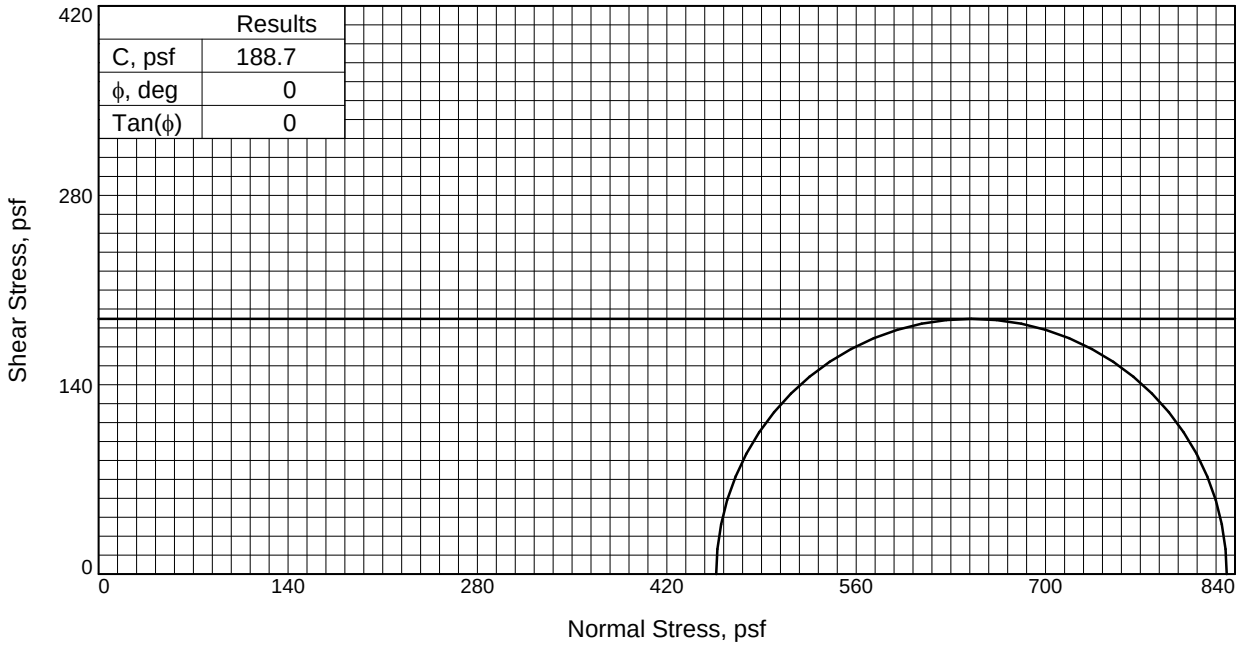


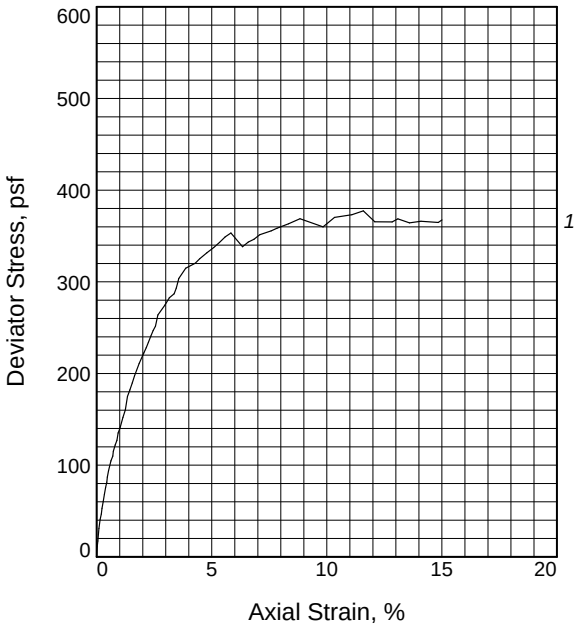




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 18.5'-20.5' **Sample Number:** BW-103 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	40.1
	Dry Density, pcf	82.5
	Saturation, %	105.3
	Void Ratio	1.0129
	Diameter, in.	2.857
	Height, in.	5.313
At Test	Water Content, %	42.2
	Dry Density, pcf	82.5
	Saturation, %	110.9
	Void Ratio	1.0129
	Diameter, in.	2.857
	Height, in.	5.313
Strain at peak, %		11.6
Back Pressure, psf		0.0
Cell Pressure, psf		456.5
Fail. Stress, psf		377.4
Strain, %		11.6
Ult. Stress, psf		377.4
Strain, %		11.6
σ_1 Failure, psf		833.9
σ_3 Failure, psf		456.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILT(ML A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

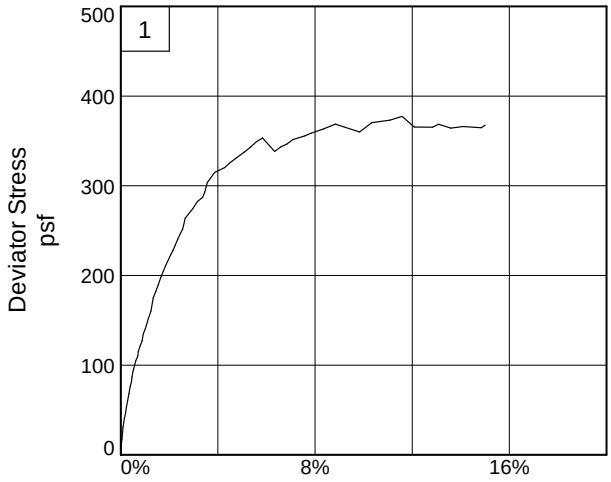
Project: Mobile River Bridge

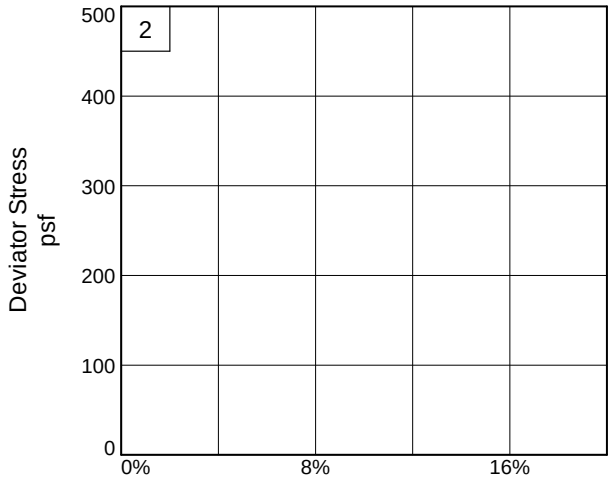
Source of Sample: Lab #7670 **Depth:** 8.5'-10.5'

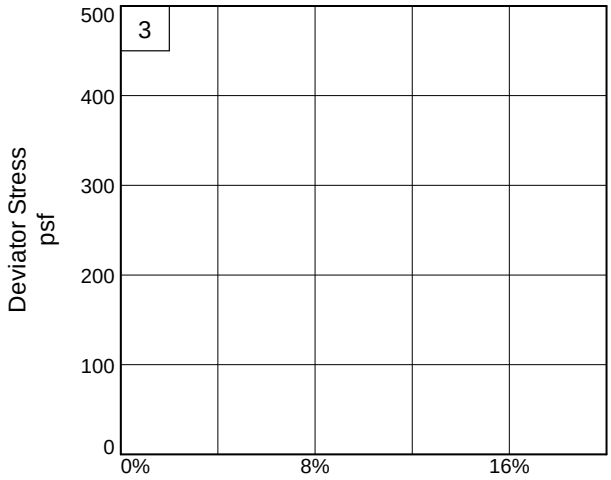
Sample Number: BW-104 T-1

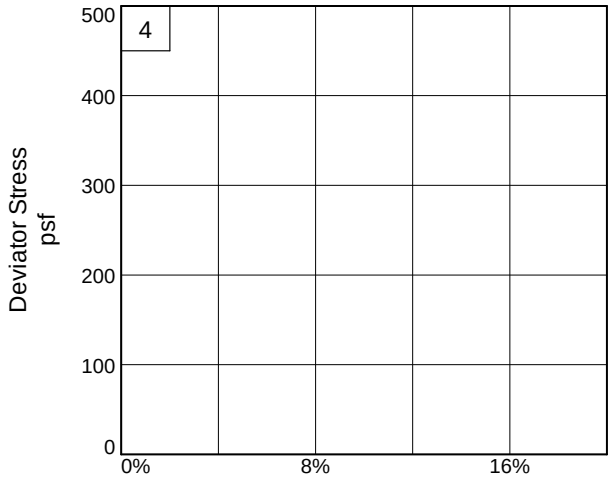
Proj. No.: 1511010228 **Date Sampled:**

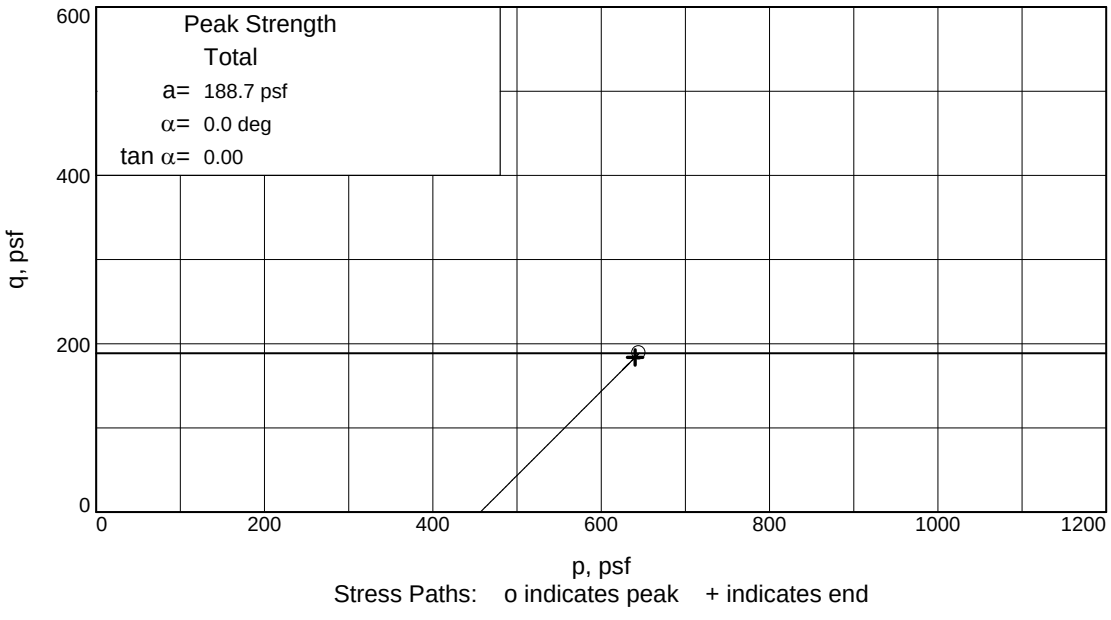
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Mobile, Alabama





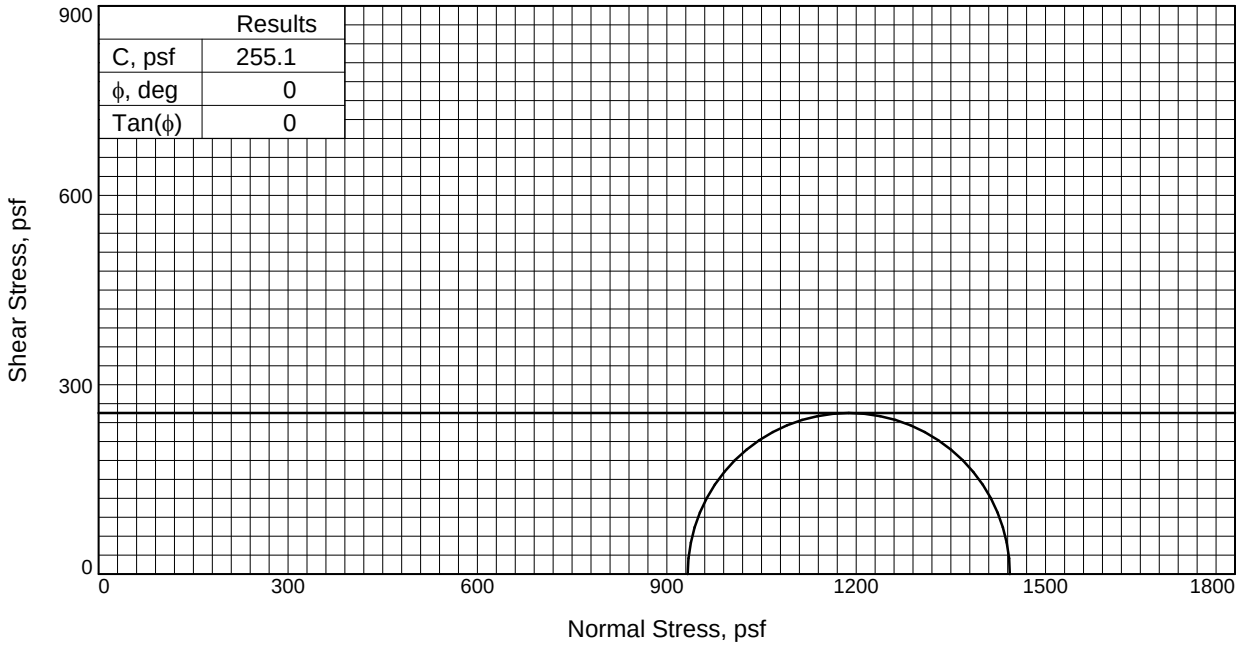


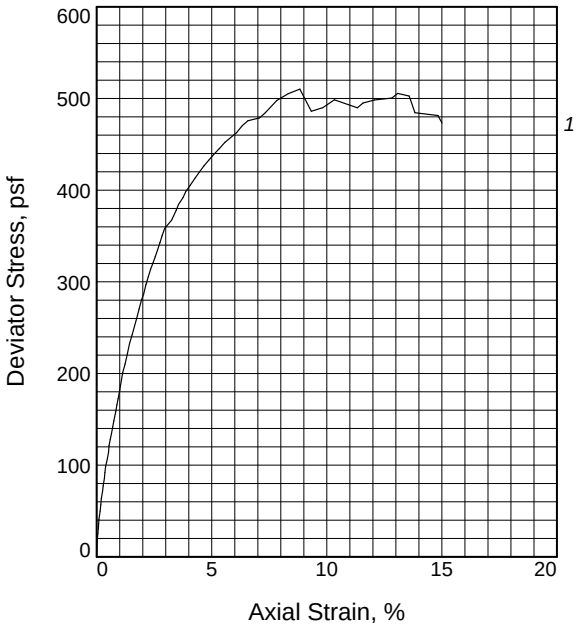




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 8.5'-10.5' **Sample Number:** BW-104 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	28.6
	Dry Density, pcf	96.1
	Saturation, %	104.4
	Void Ratio	0.7287
	Diameter, in.	2.832
	Height, in.	5.470
At Test	Water Content, %	30.4
	Dry Density, pcf	96.1
	Saturation, %	111.0
	Void Ratio	0.7287
	Diameter, in.	2.832
	Height, in.	5.470
Strain at peak, %		8.8
Back Pressure, psf		0.0
Cell Pressure, psf		933.1
Fail. Stress, psf		510.3
Strain, %		8.8
Ult. Stress, psf		510.3
Strain, %		8.8
σ_1 Failure, psf		1443.4
σ_3 Failure, psf		933.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(2))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

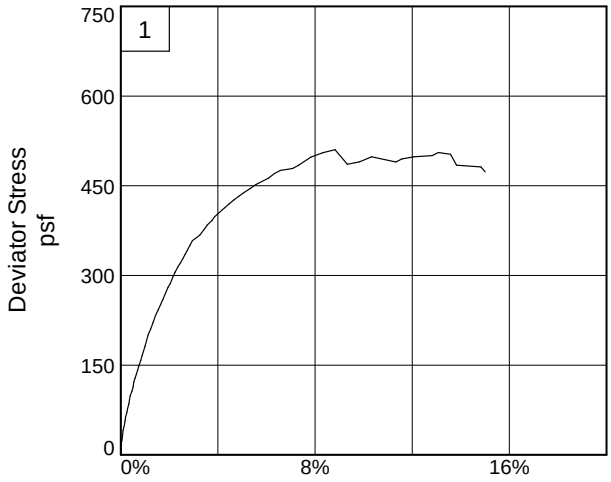
Project: Mobile River Bridge

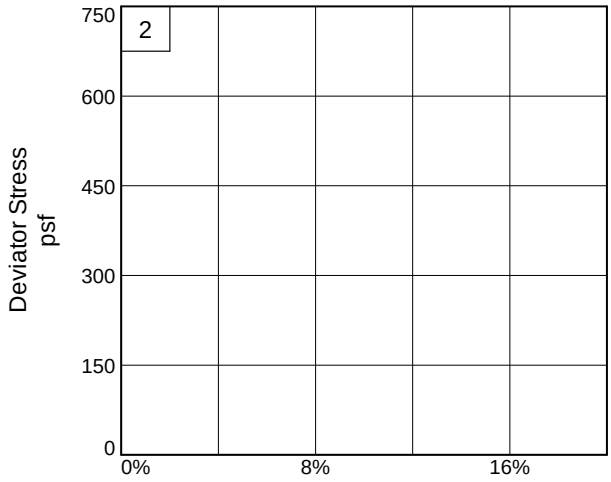
Source of Sample: Lab #7670 **Depth:** 18.0'-20.0'

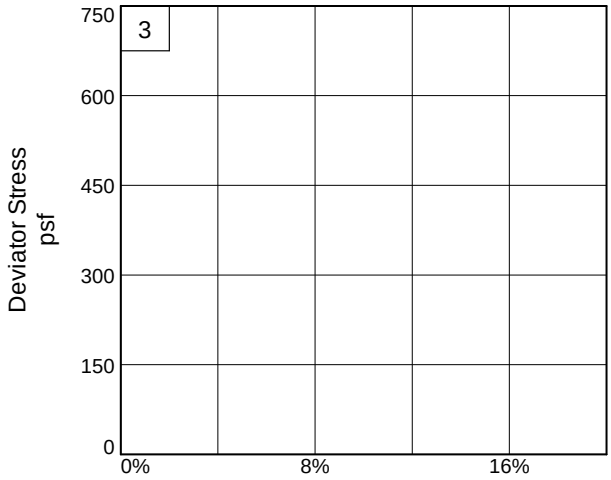
Sample Number: BW-105 T-1

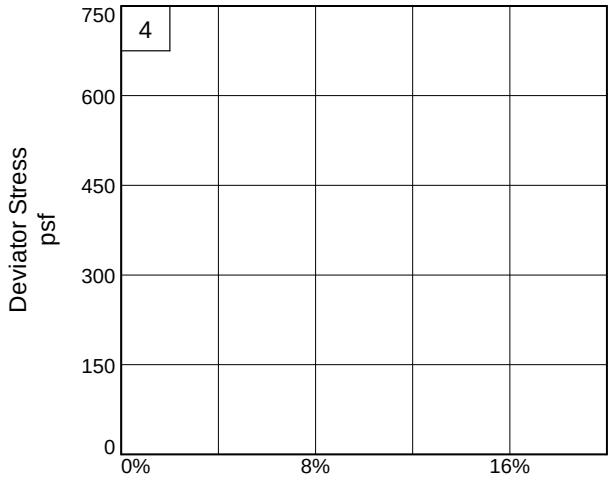
Proj. No.: 1511010228 **Date Sampled:**

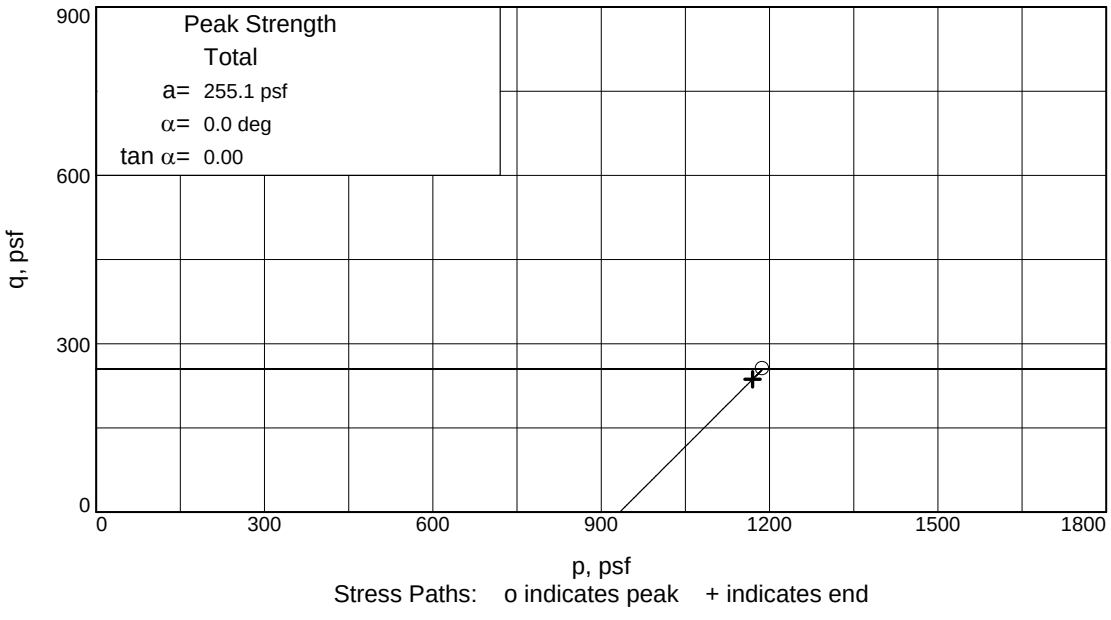
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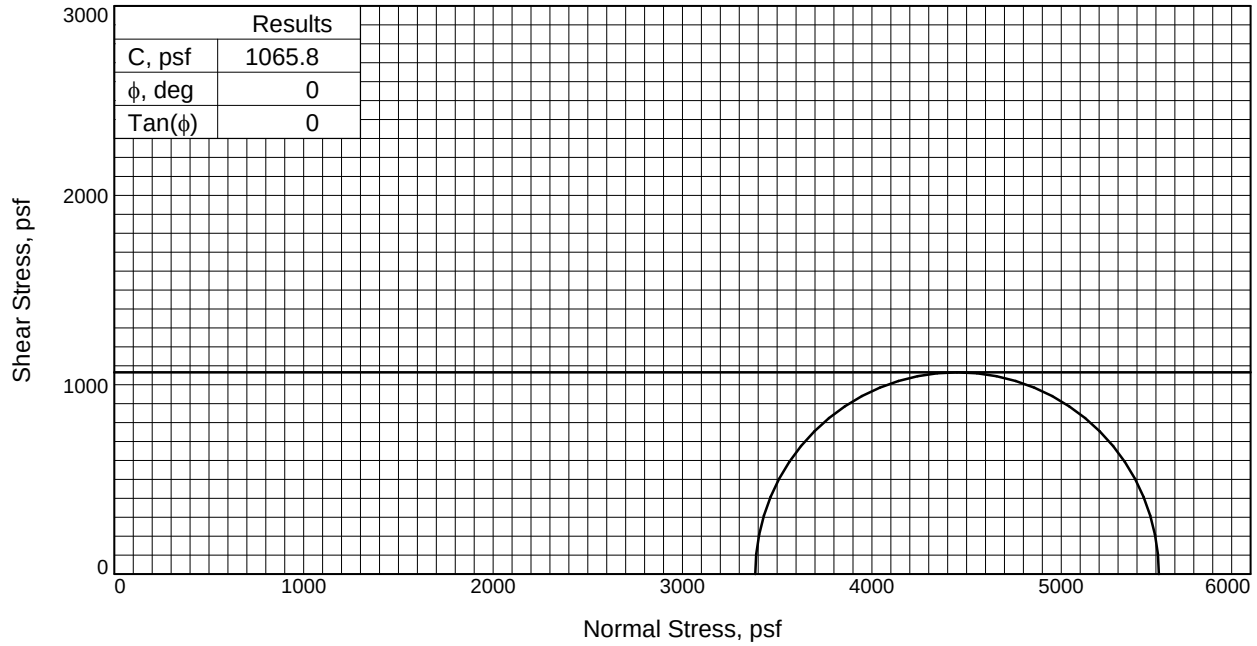


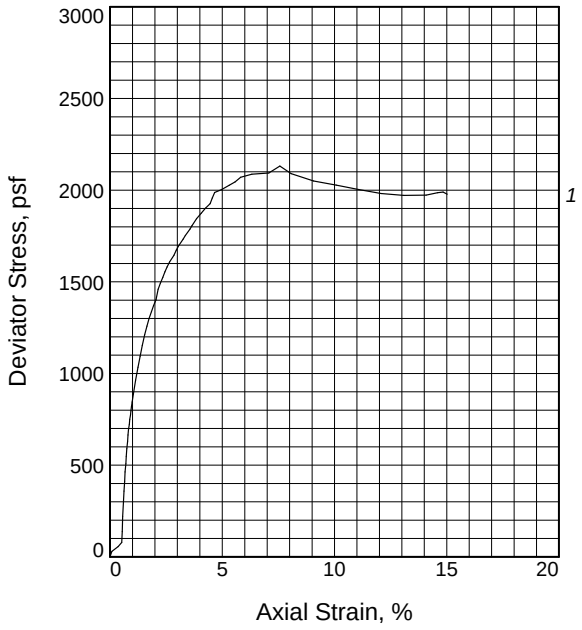




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 18.0'-20.0' **Sample Number:** BW-105 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	37.7
	Dry Density, pcf	85.2
	Saturation, %	105.6
	Void Ratio	0.9490
	Diameter, in.	2.829
	Height, in.	5.623
At Test	Water Content, %	38.1
	Dry Density, pcf	85.2
	Saturation, %	106.7
	Void Ratio	0.9490
	Diameter, in.	2.829
	Height, in.	5.623
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		3384.0
Fail. Stress, psf		2131.6
Strain, %		7.6
Ult. Stress, psf		2131.6
Strain, %		7.6
σ_1 Failure, psf		5515.6
σ_3 Failure, psf		3384.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: Gray, LEAN CLAY, with SAND

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

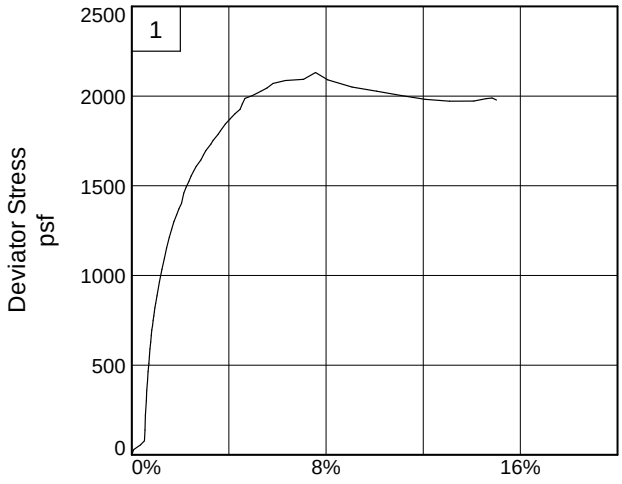
Project: Mobile River Bridge

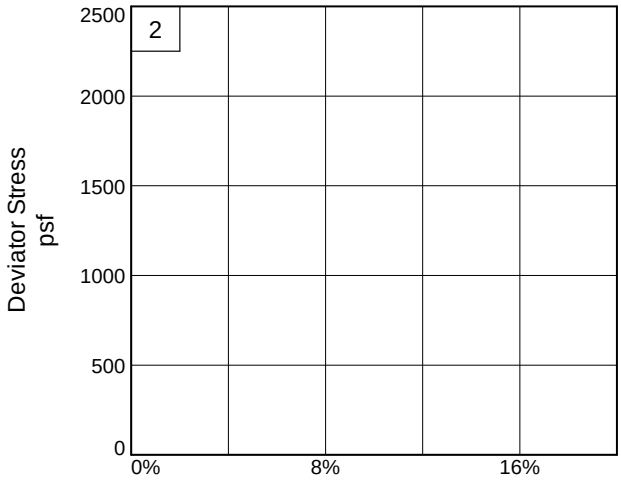
Source of Sample: Lab #7670 **Depth:** 70.5'-72.5'

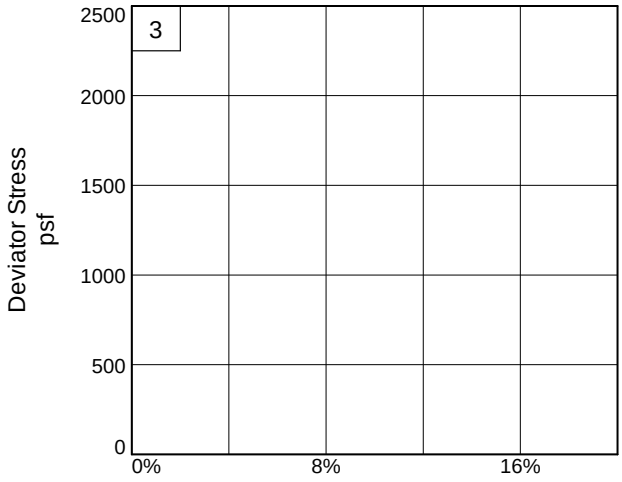
Sample Number: BW-105 T-2

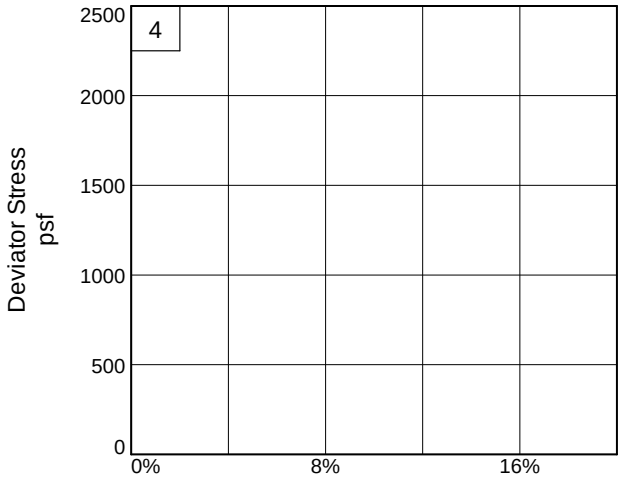
Proj. No.: 1511010228 **Date Sampled:**

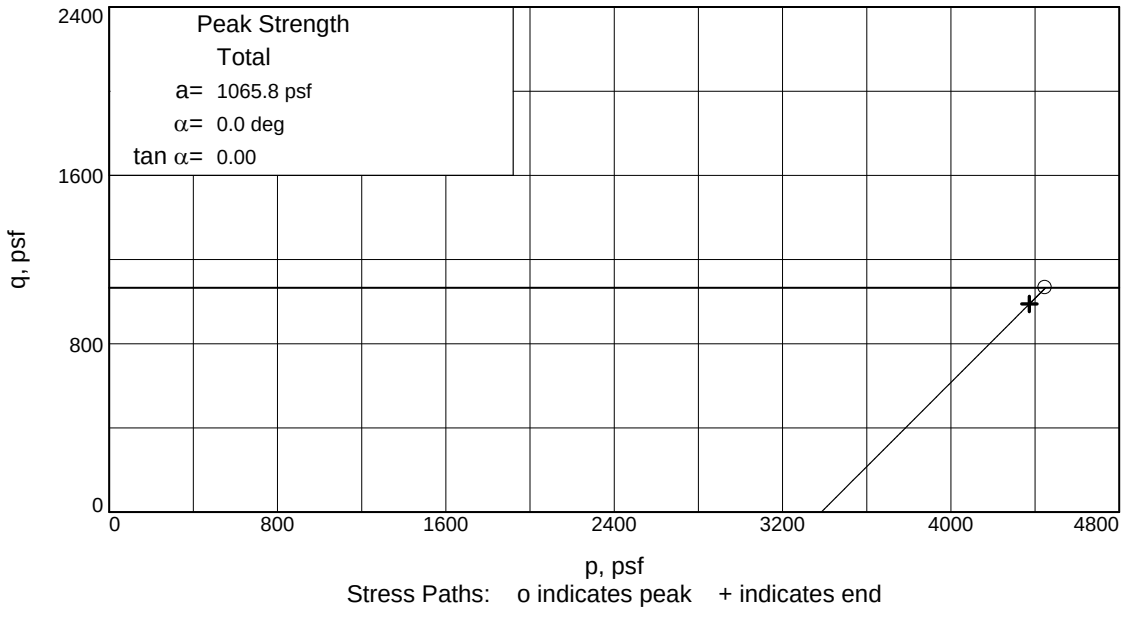
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Thompson Engineering
Mobile, Alabama





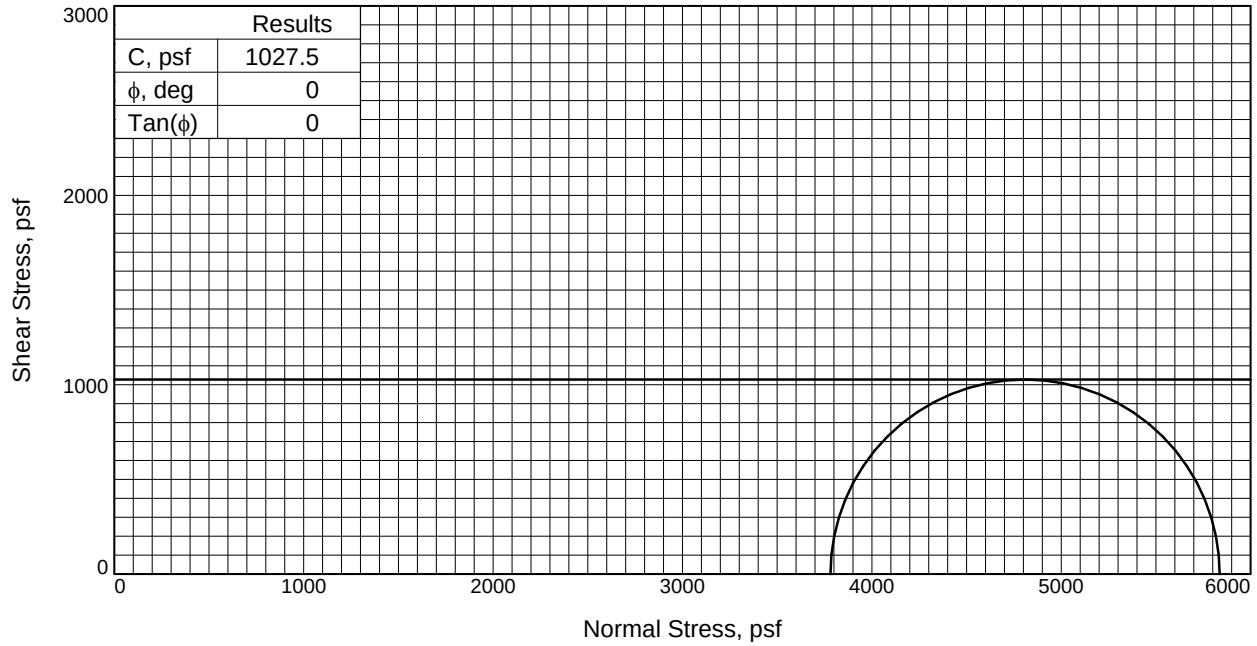


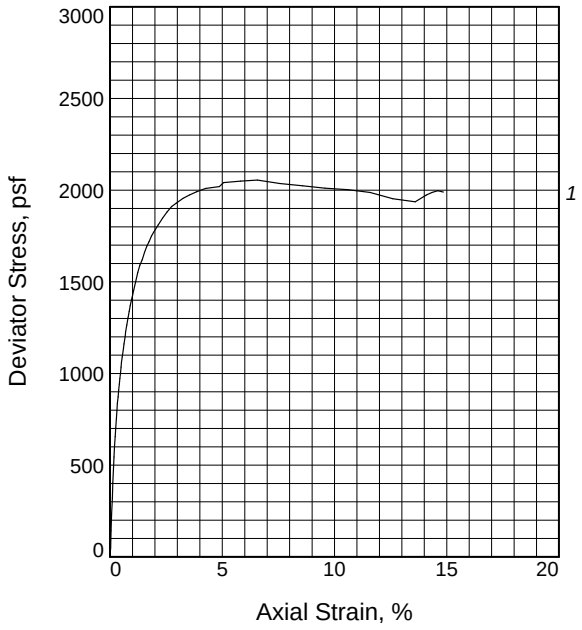




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 70.5'-72.5' **Sample Number:** BW-105 T-2
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	37.9
	Dry Density, pcf	81.8
	Saturation, %	97.9
	Void Ratio	1.0303
	Diameter, in.	2.823
	Height, in.	5.596
At Test	Water Content, %	44.7
	Dry Density, pcf	81.8
	Saturation, %	115.3
	Void Ratio	1.0303
	Diameter, in.	2.823
	Height, in.	5.596
Strain at peak, %		6.6
Back Pressure, psf		0.0
Cell Pressure, psf		3781.4
Fail. Stress, psf		2055.1
Strain, %		6.6
Ult. Stress, psf		2055.1
Strain, %		6.6
σ_1 Failure, psf		5836.5
σ_3 Failure, psf		3781.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(38))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

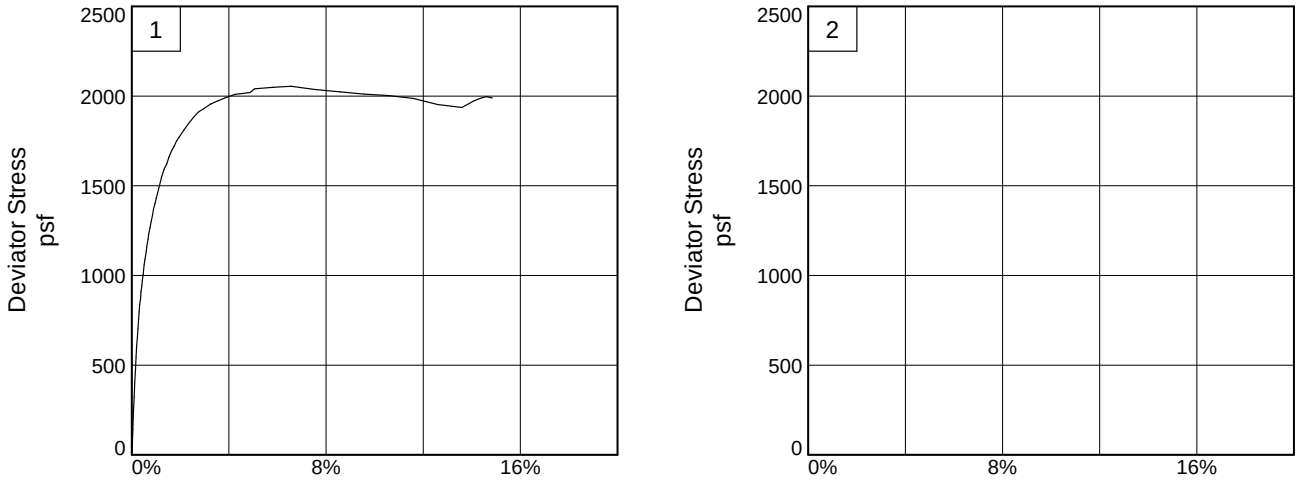
Project: Mobile River Bridge

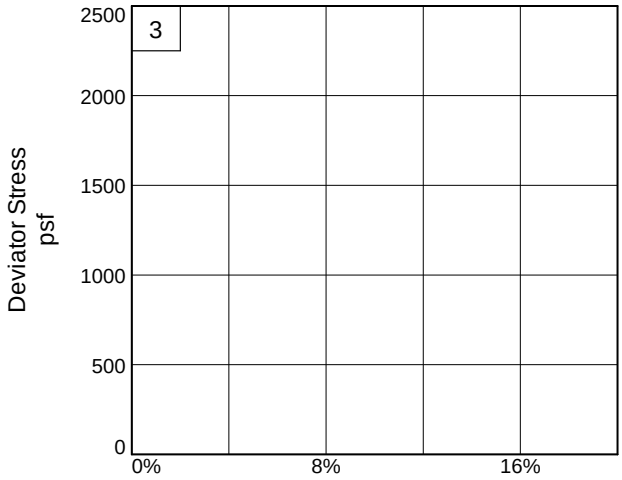
Source of Sample: Lab #7670 **Depth:** 78.5'-80.5'

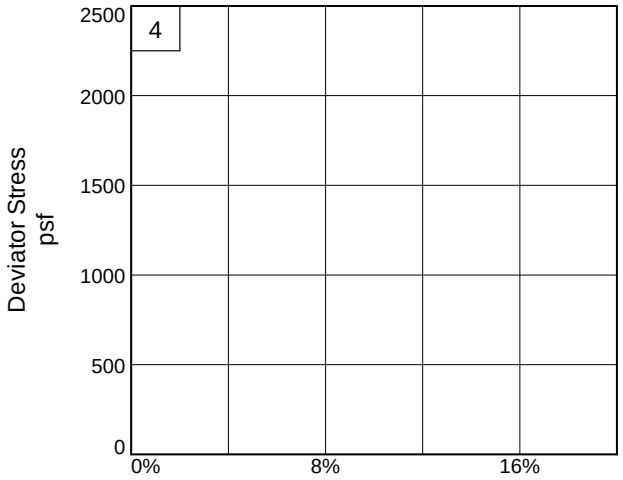
Sample Number: BW-105 T-3

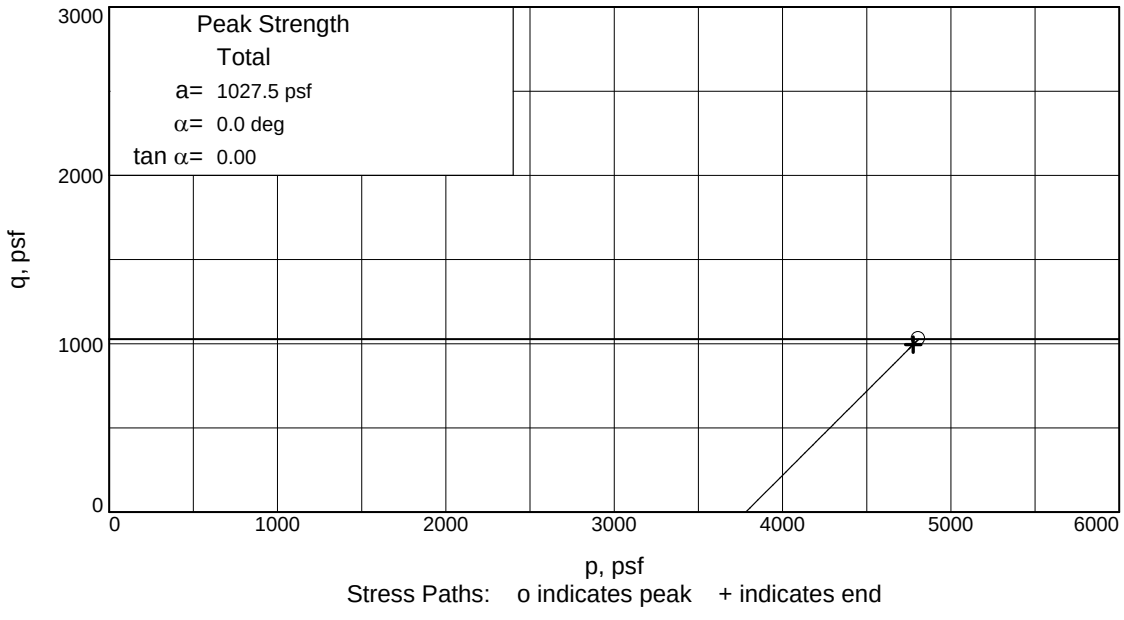
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



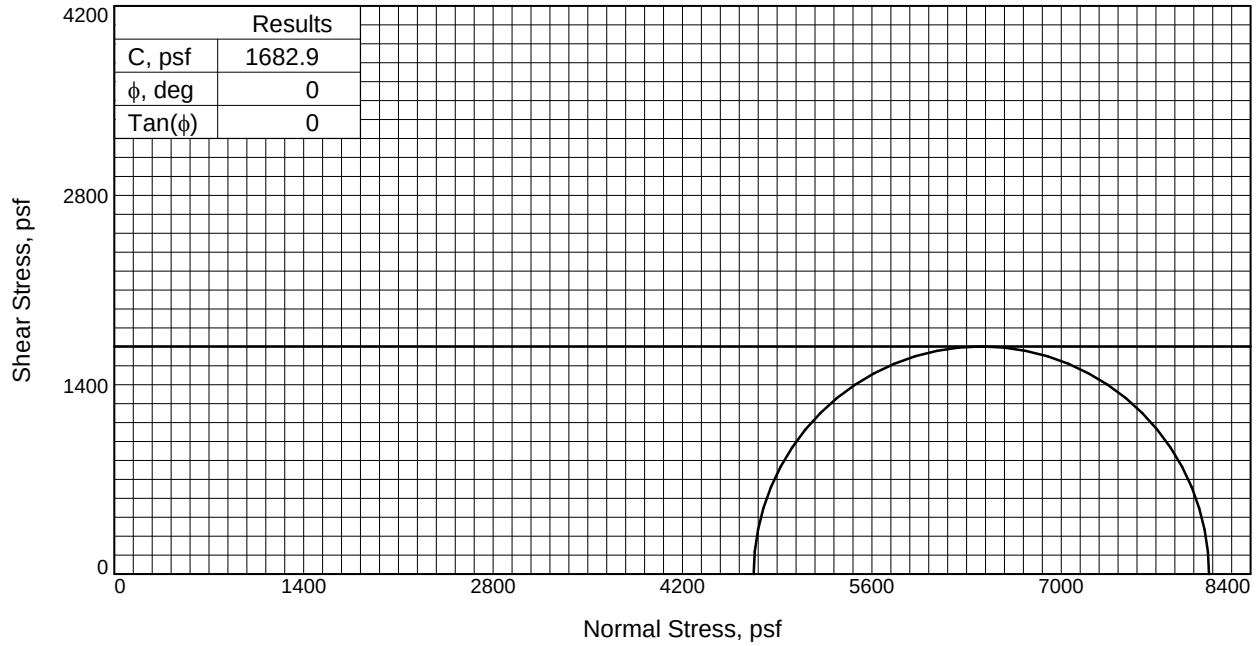


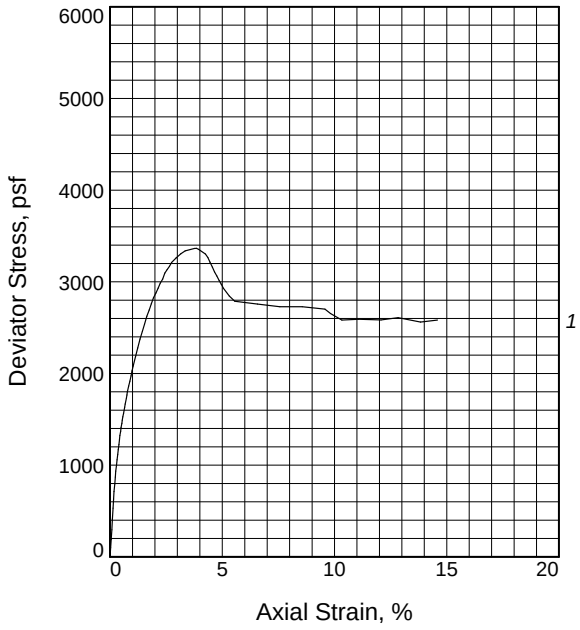




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 78.5'-80.5' **Sample Number:** BW-105 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	43.1
	Dry Density, pcf	79.4
	Saturation, %	105.2
	Void Ratio	1.0902
	Diameter, in.	2.839
	Height, in.	5.521
At Test	Water Content, %	41.7
	Dry Density, pcf	79.4
	Saturation, %	101.8
	Void Ratio	1.0902
	Diameter, in.	2.839
	Height, in.	5.521
Strain at peak, %		3.9
Back Pressure, psf		0.0
Cell Pressure, psf		4726.1
Fail. Stress, psf		3365.9
Strain, %		3.9
Ult. Stress, psf		3365.9
Strain, %		3.9
σ_1 Failure, psf		8091.9
σ_3 Failure, psf		4726.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(58))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

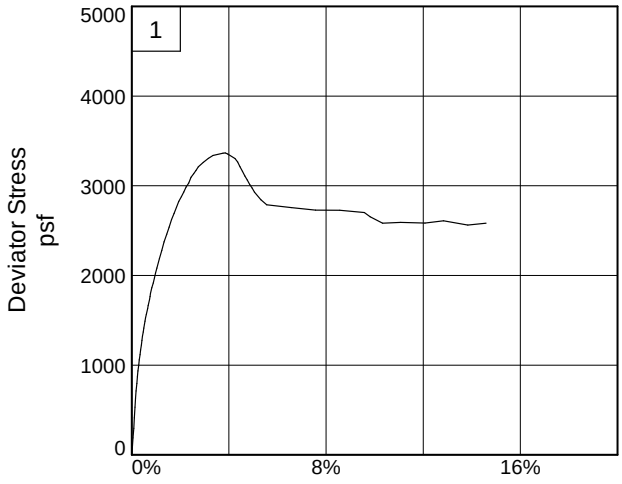
Project: Mobile River Bridge

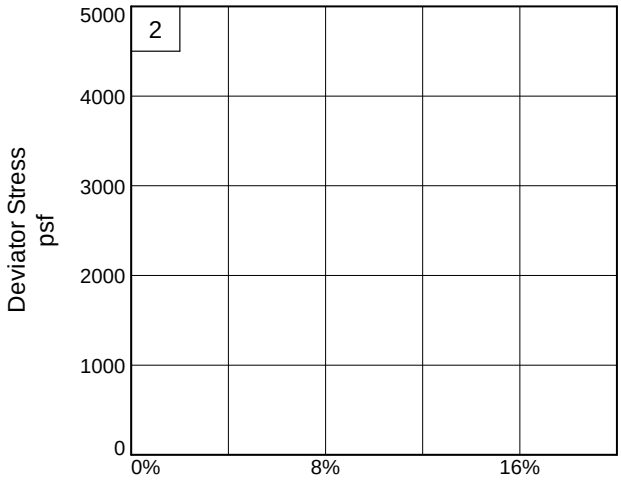
Source of Sample: Lab #7670 **Depth:** 98.5'-100.5'

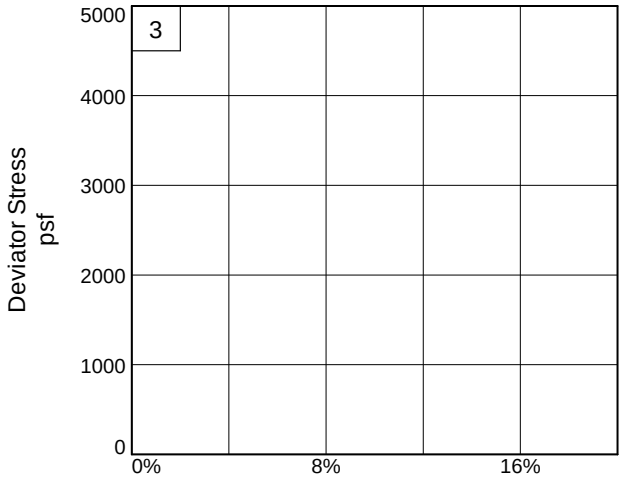
Sample Number: BW-105 T-5

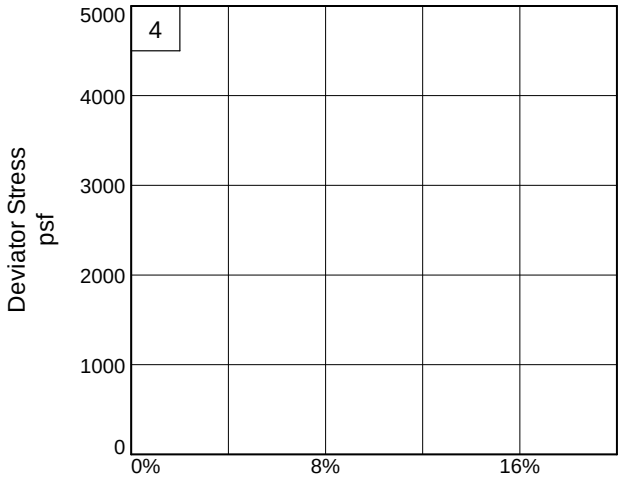
Proj. No.: 1511010228 **Date Sampled:**

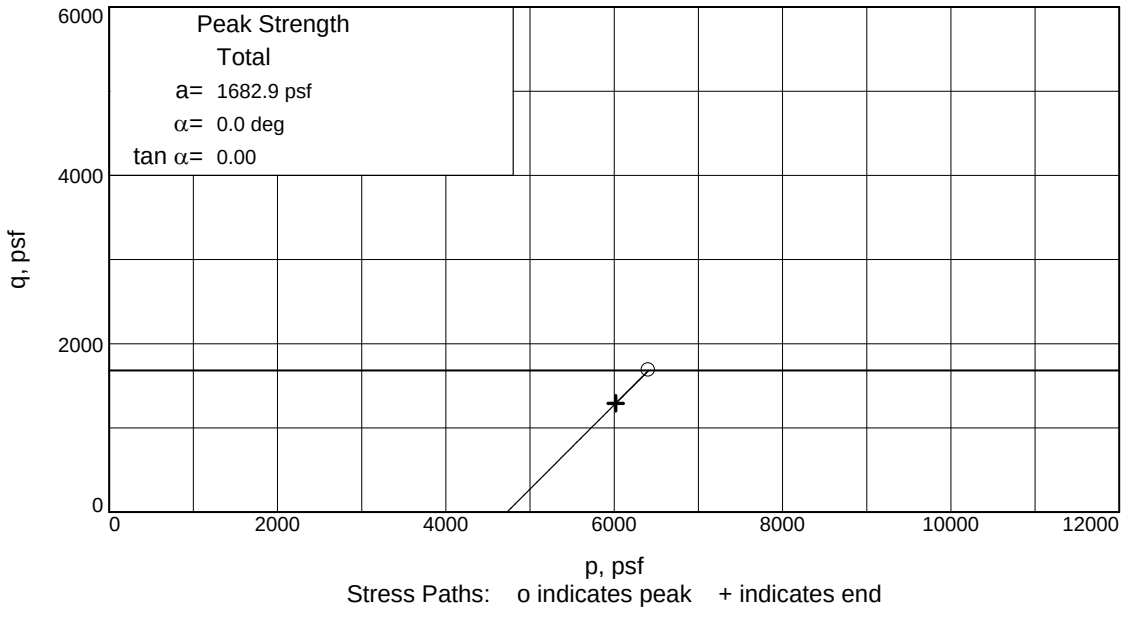
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

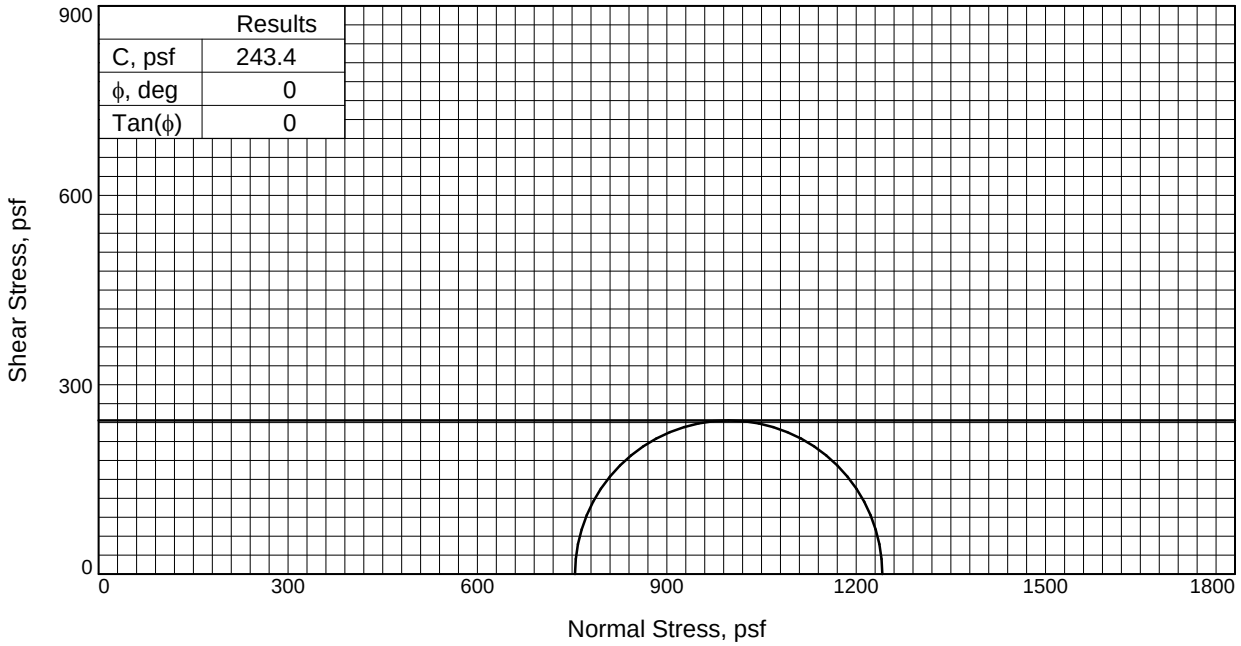
Client: ALDOT

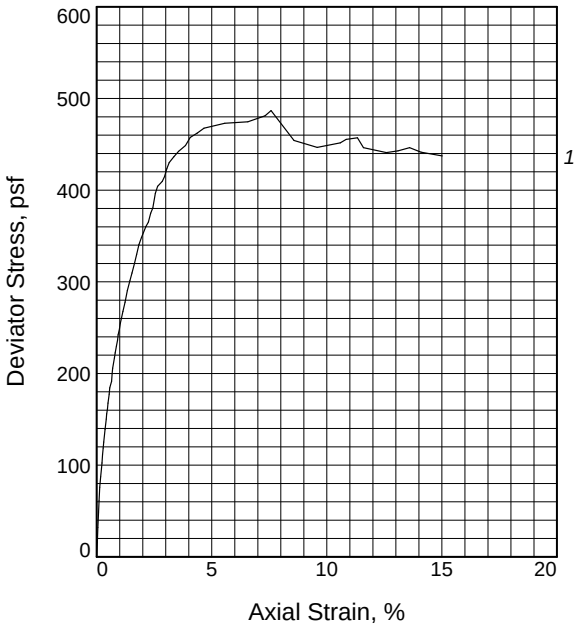
Project: Mobile River Bridge

Source of Sample: Lab #7670 **Depth:** 98.5'-100.5' **Sample Number:** BW-105 T-5

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	38.0
	Dry Density, pcf	86.6
	Saturation, %	110.3
	Void Ratio	0.9170
	Diameter, in.	2.806
	Height, in.	5.676
At Test	Water Content, %	37.2
	Dry Density, pcf	86.6
	Saturation, %	108.0
	Void Ratio	0.9170
	Diameter, in.	2.806
	Height, in.	5.676
Strain at peak, %		7.6
Back Pressure, psf		0.0
Cell Pressure, psf		754.6
Fail. Stress, psf		486.8
Strain, %		7.6
Ult. Stress, psf		486.8
Strain, %		7.6
σ_1 Failure, psf		1241.4
σ_3 Failure, psf		754.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(11)

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

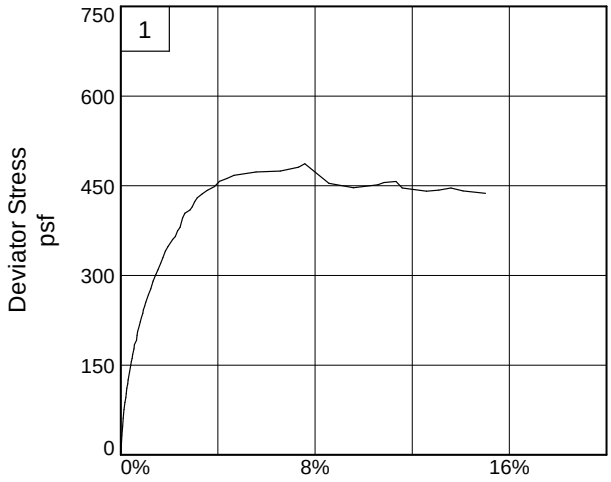
Project: Mobile River Bridge

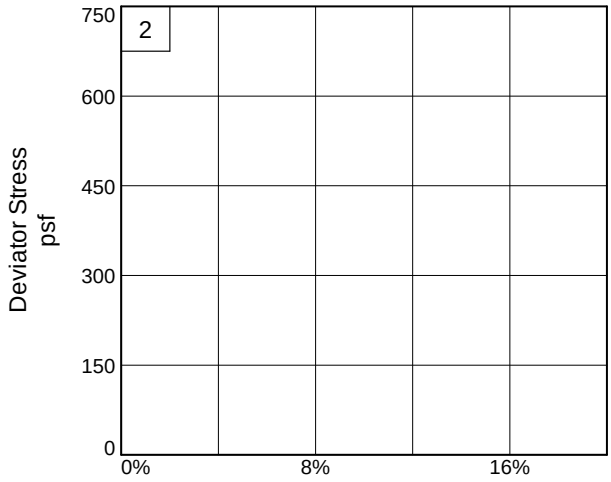
Source of Sample: Lab #7670 **Depth:** 15.0'-17.0'

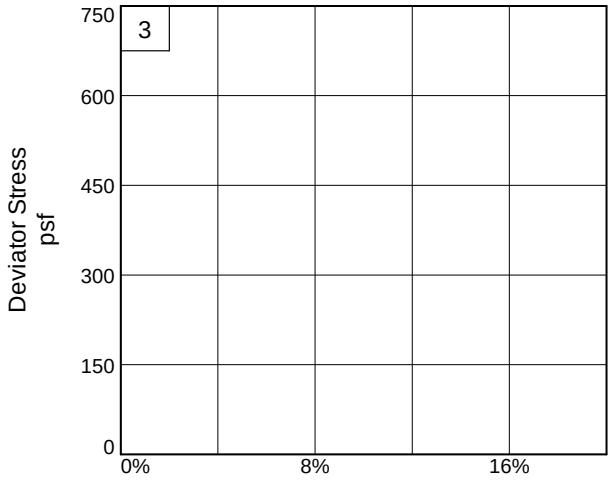
Sample Number: BW-106 T-2

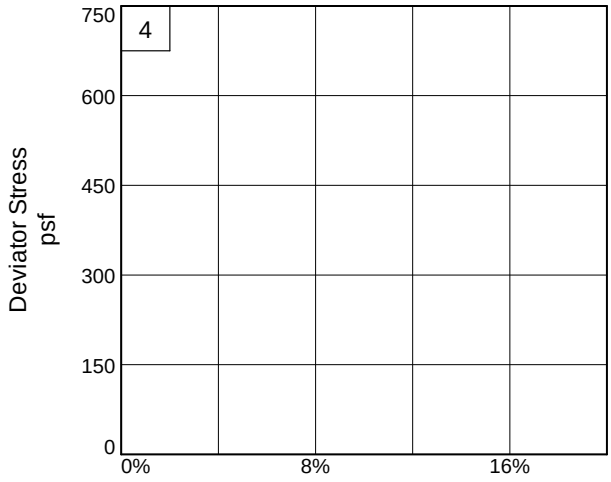
Proj. No.: 1511010228 **Date Sampled:**

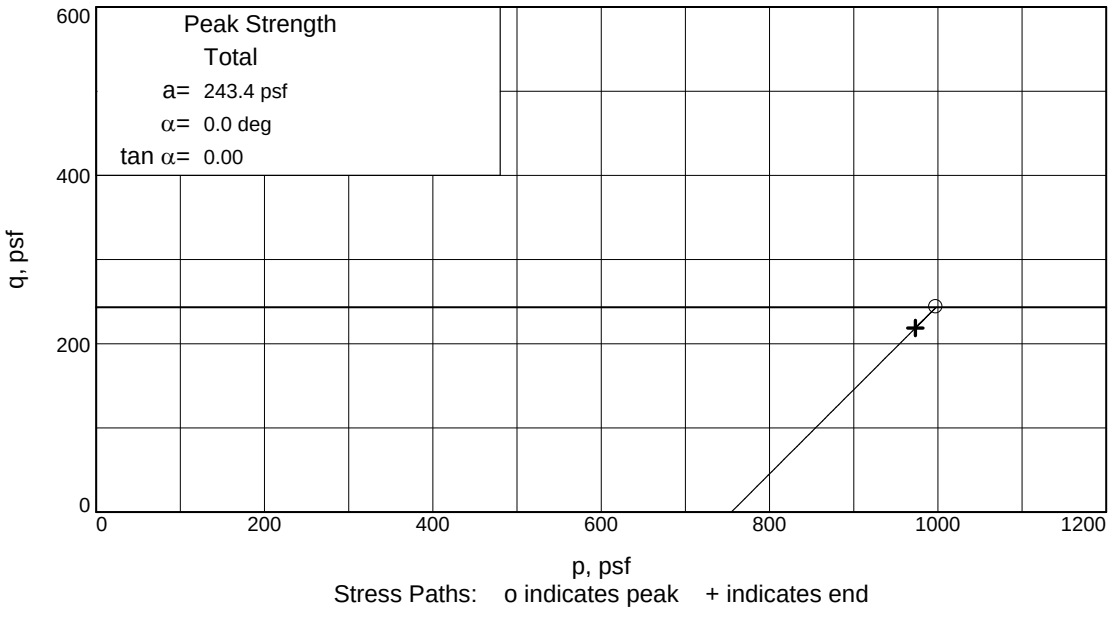
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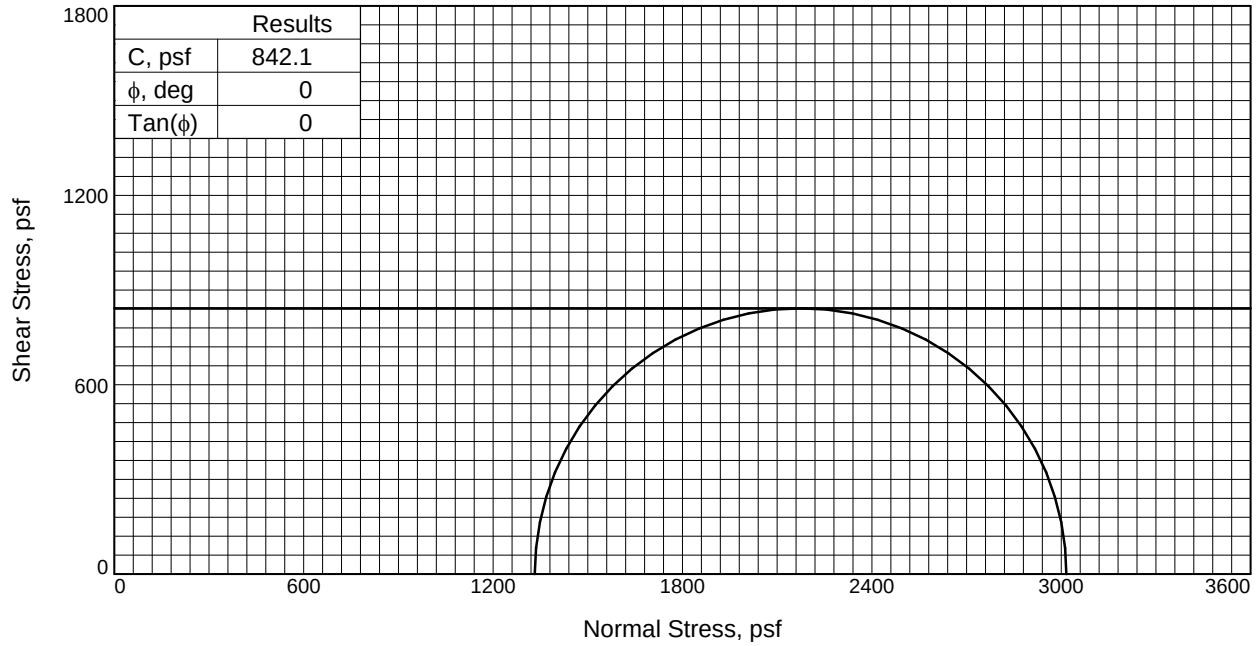


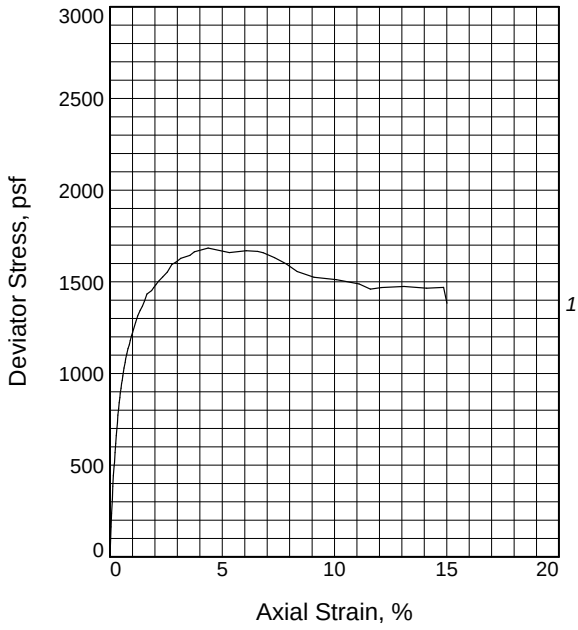


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 15.0'-17.0' **Sample Number:** BW-106 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	41.8
	Dry Density, pcf	79.9
	Saturation, %	103.1
	Void Ratio	1.0781
	Diameter, in.	2.830
	Height, in.	5.596
At Test	Water Content, %	39.9
	Dry Density, pcf	79.9
	Saturation, %	98.4
	Void Ratio	1.0781
	Diameter, in.	2.830
	Height, in.	5.596
Strain at peak, %		4.4
Back Pressure, psf		0.0
Cell Pressure, psf		1332.0
Fail. Stress, psf		1684.2
Strain, %		4.4
Ult. Stress, psf		1684.2
Strain, %		4.4
σ_1 Failure, psf		3016.2
σ_3 Failure, psf		1332.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(34))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

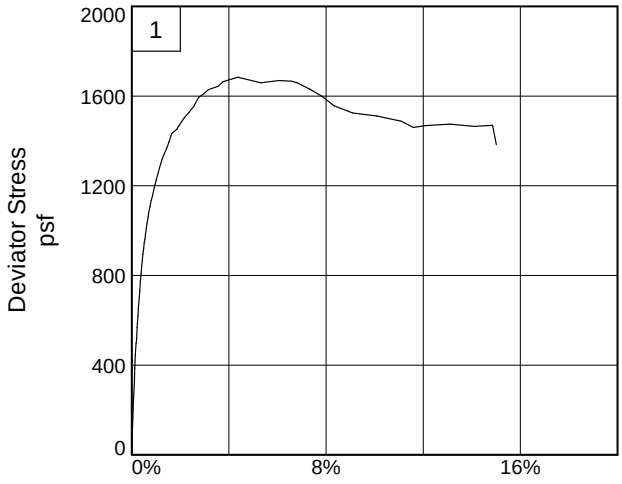
Project: Mobile River Bridge

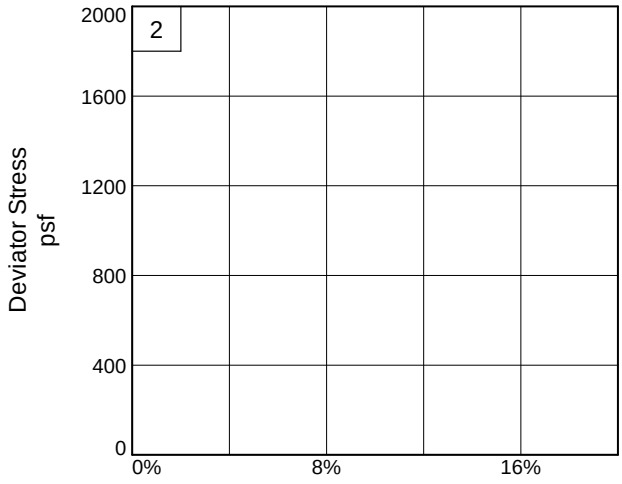
Source of Sample: Lab #7670 **Depth:** 27.0'-29.0'

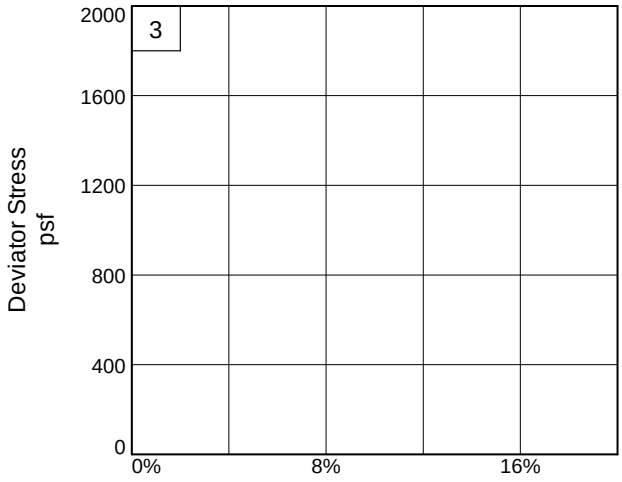
Sample Number: BW-106 T-3

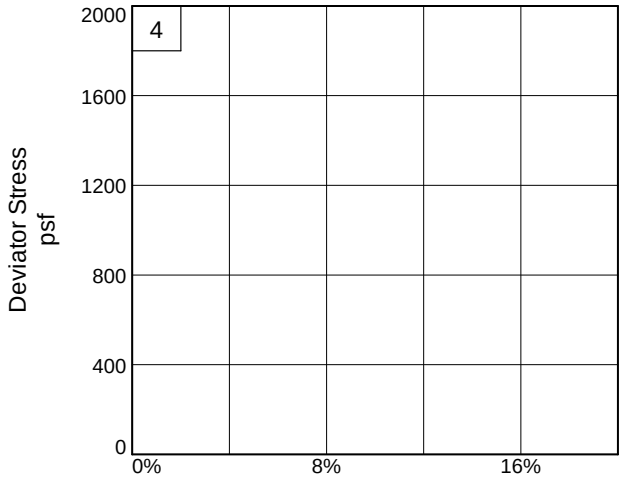
Proj. No.: 1511010228 **Date Sampled:**

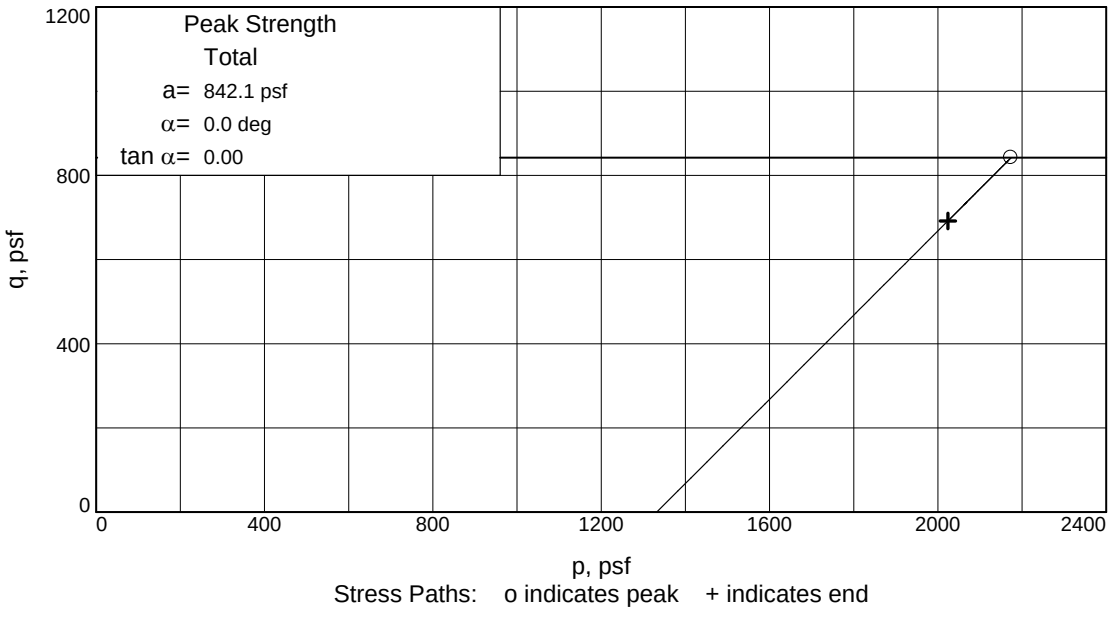
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Stress Paths: o indicates peak + indicates end

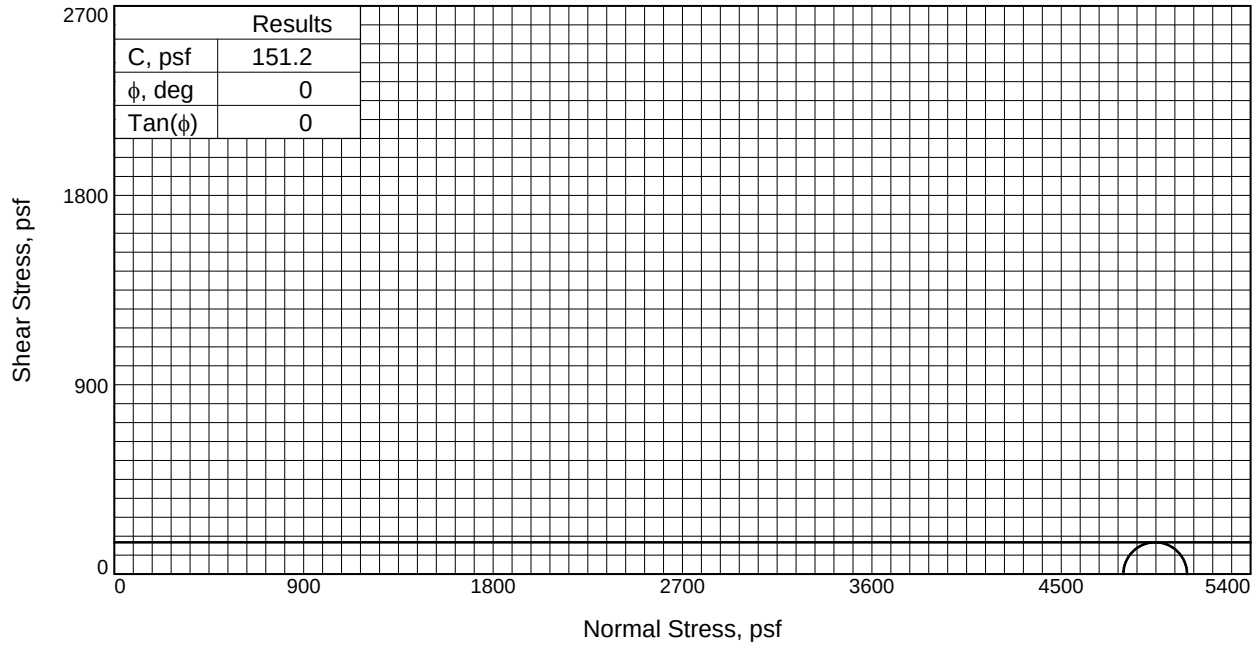
Client: ALDOT

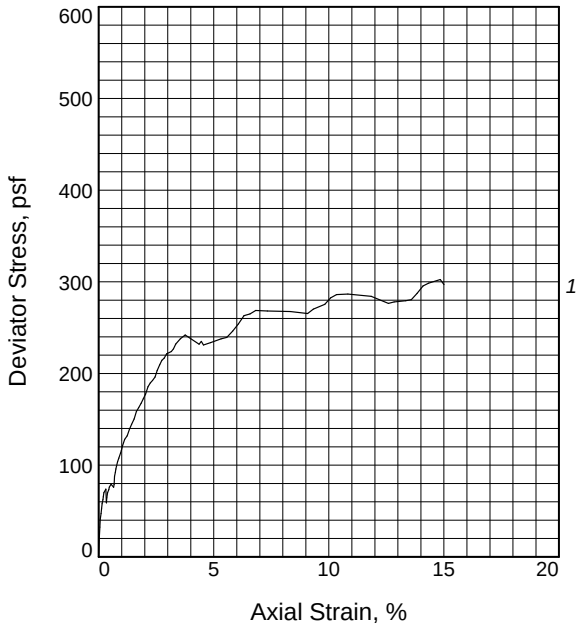
Project: Mobile River Bridge

Source of Sample: Lab #7670 **Depth:** 27.0'-29.0' **Sample Number:** BW-106 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	36.6
	Dry Density, pcf	85.4
	Saturation, %	103.2
	Void Ratio	0.9446
	Diameter, in.	2.797
	Height, in.	5.158
At Test	Water Content, %	37.9
	Dry Density, pcf	85.4
	Saturation, %	106.7
	Void Ratio	0.9446
	Diameter, in.	2.797
	Height, in.	5.158
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		4795.2
Fail. Stress, psf		302.5
Strain, %		14.8
Ult. Stress, psf		302.5
Strain, %		14.8
σ_1 Failure, psf		5097.7
σ_3 Failure, psf		4795.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY FAT CLAY(CH A-7-6(19))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

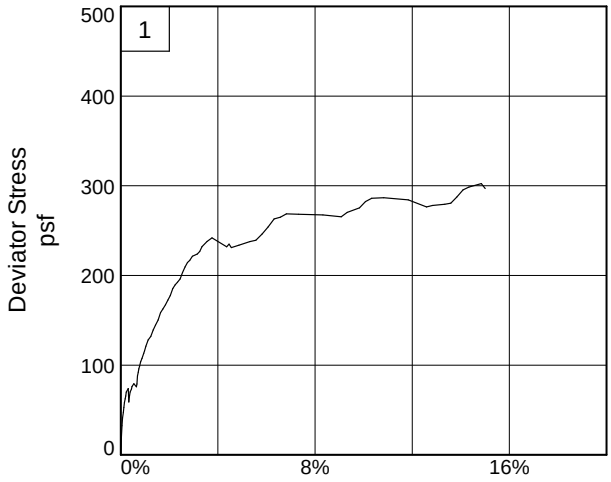
Project: Mobile River Bridge

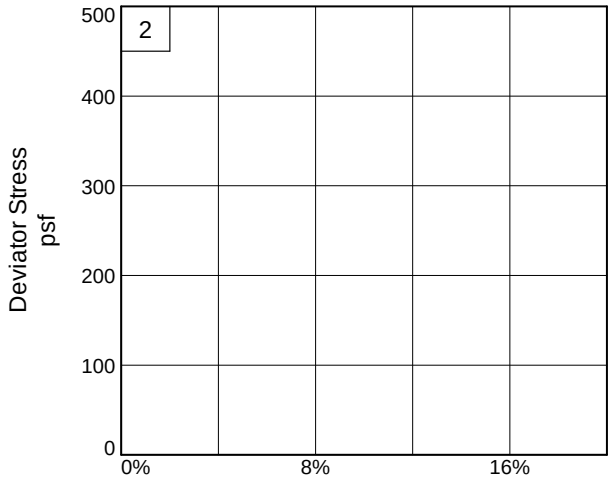
Source of Sample: Lab #7670 **Depth:** 100.0'-102.0'

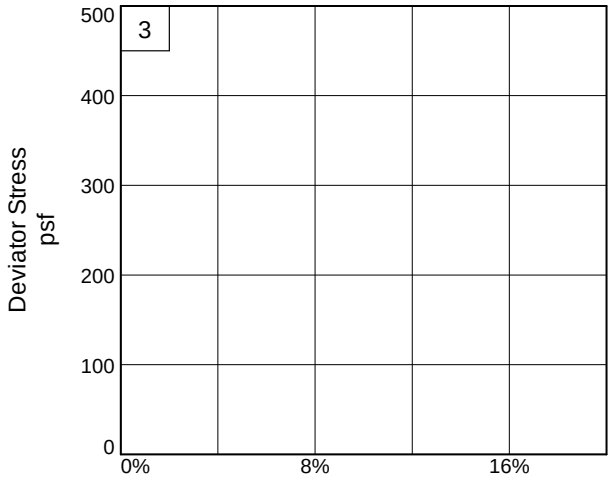
Sample Number: BW-106 T-6

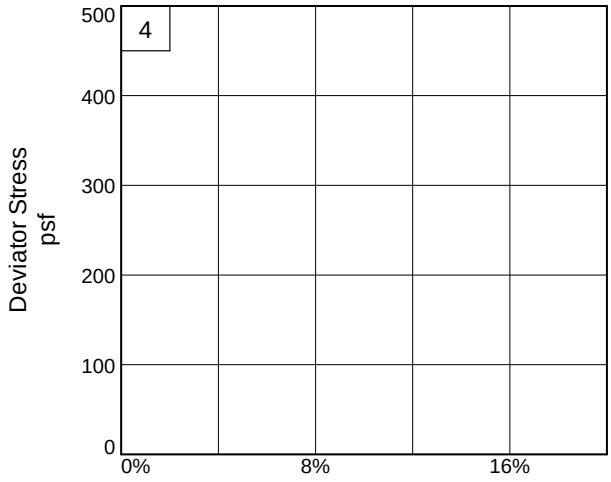
Proj. No.: 1511010228 **Date Sampled:**

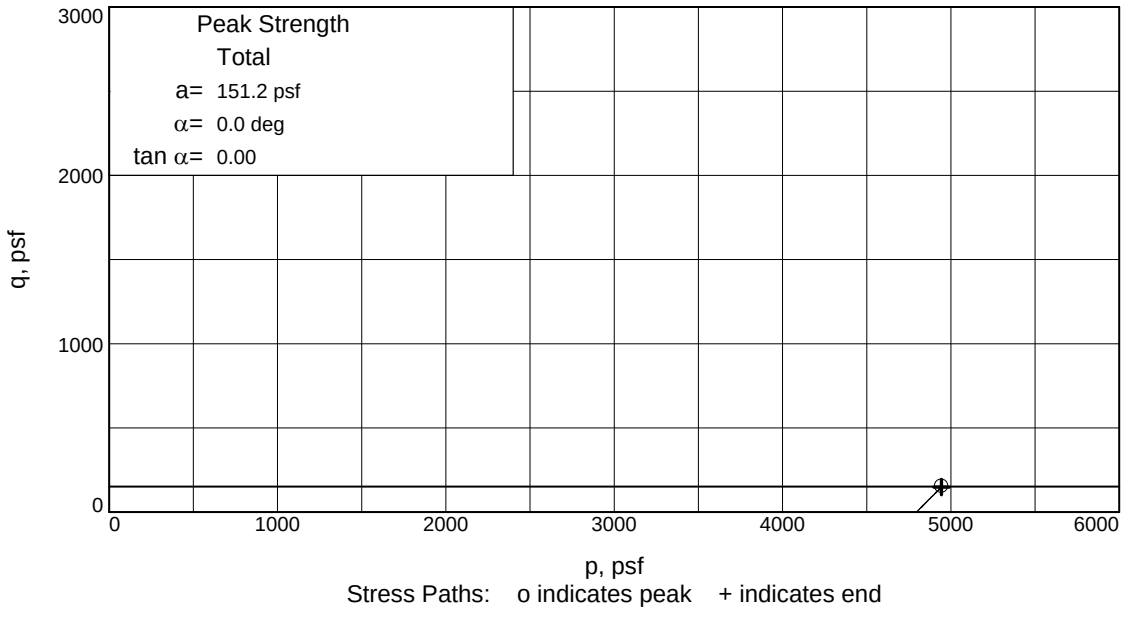
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Mobile, Alabama





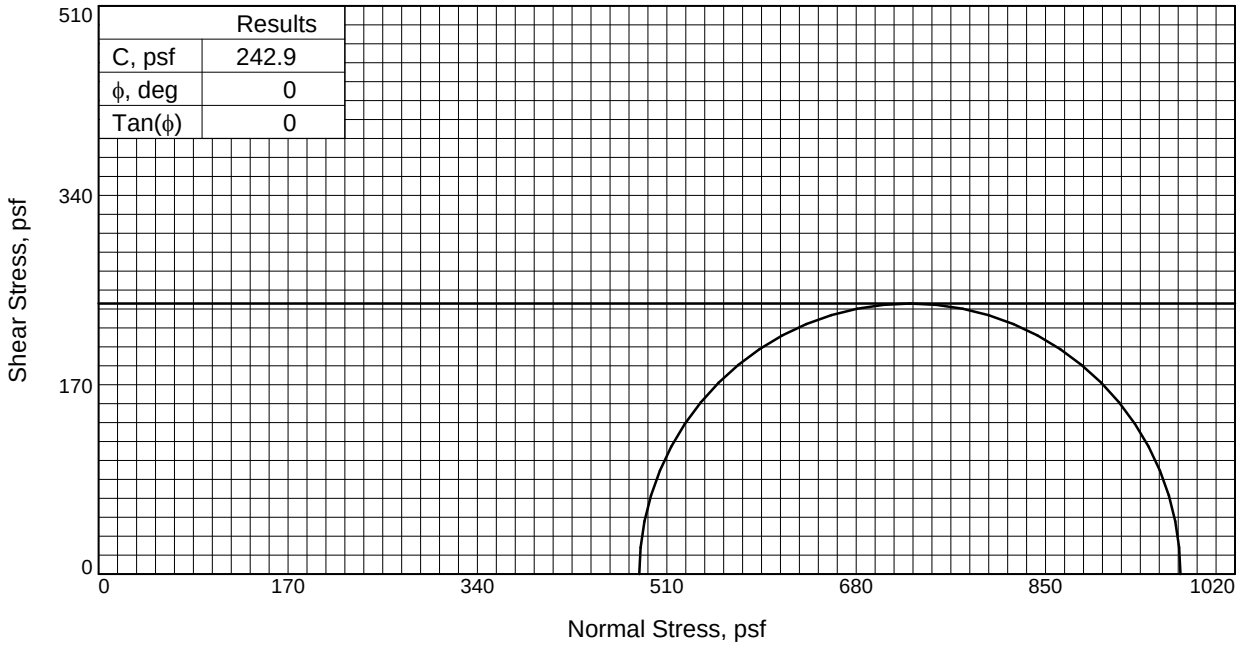


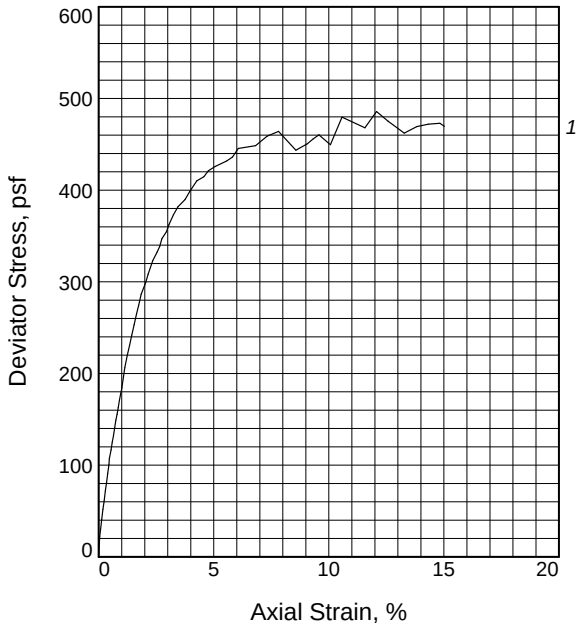




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7670 **Depth:** 100.0'-102.0' **Sample Number:** BW-106 T-6
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	38.4
	Dry Density, pcf	88.0
	Saturation, %	115.3
	Void Ratio	0.8868
	Diameter, in.	2.795
	Height, in.	5.385
At Test	Water Content, %	37.0
	Dry Density, pcf	88.0
	Saturation, %	111.1
	Void Ratio	0.8868
	Diameter, in.	2.795
	Height, in.	5.385
Strain at peak, %		12.1
Back Pressure, psf		0.0
Cell Pressure, psf		485.3
Fail. Stress, psf		485.8
Strain, %		12.1
Ult. Stress, psf		485.8
Strain, %		12.1
σ_1 Failure, psf		971.1
σ_3 Failure, psf		485.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY SILT(ML A-4(0))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

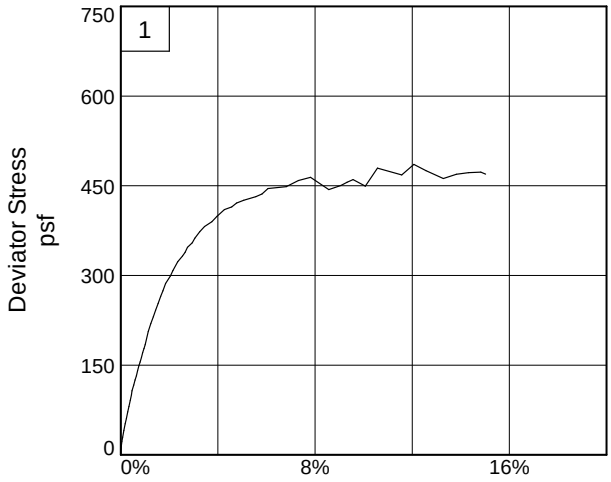
Project: Mobile River Bridge

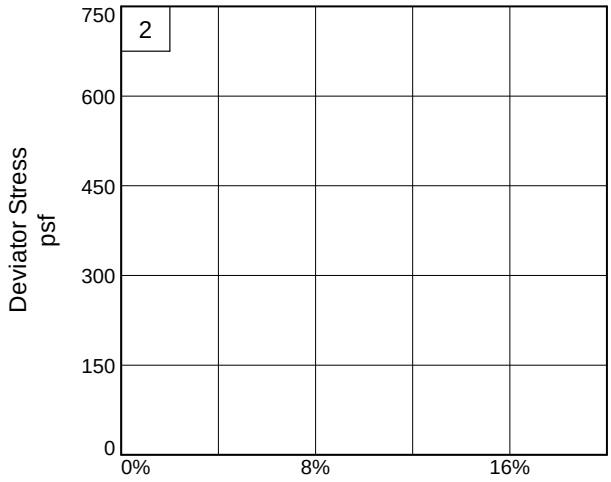
Source of Sample: 1/27/16 **Depth:** 10.5'-12.5'

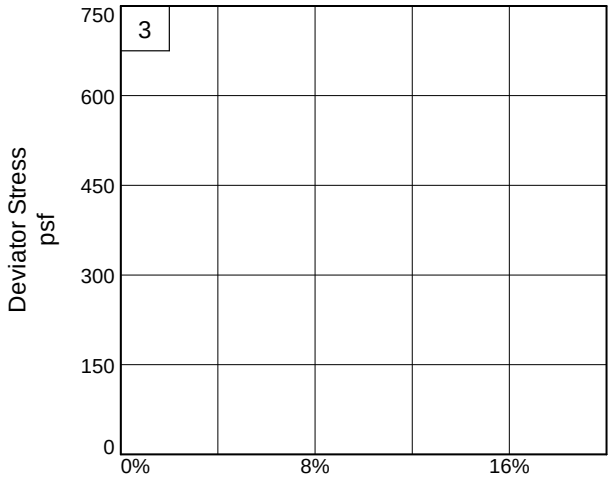
Sample Number: BW-107 T-1

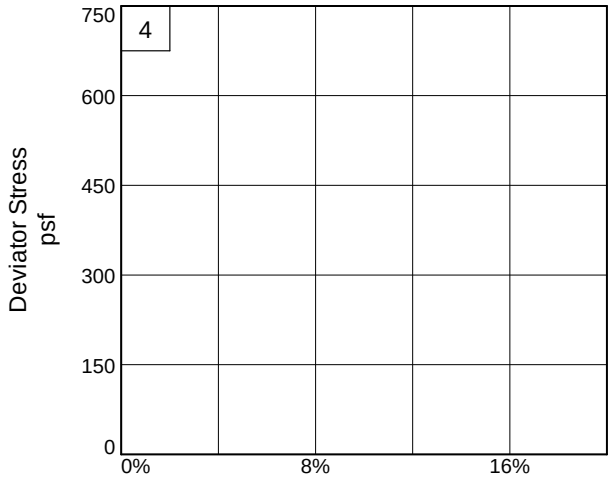
Proj. No.: 1511010228 **Date Sampled:**

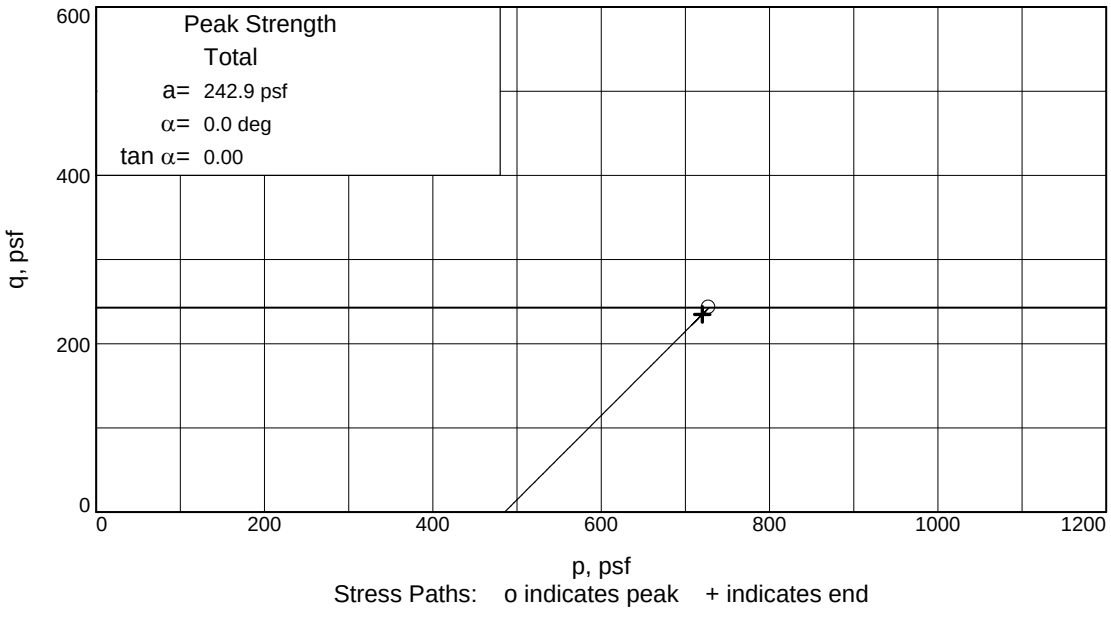
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Thompson Engineering
Mobile, Alabama







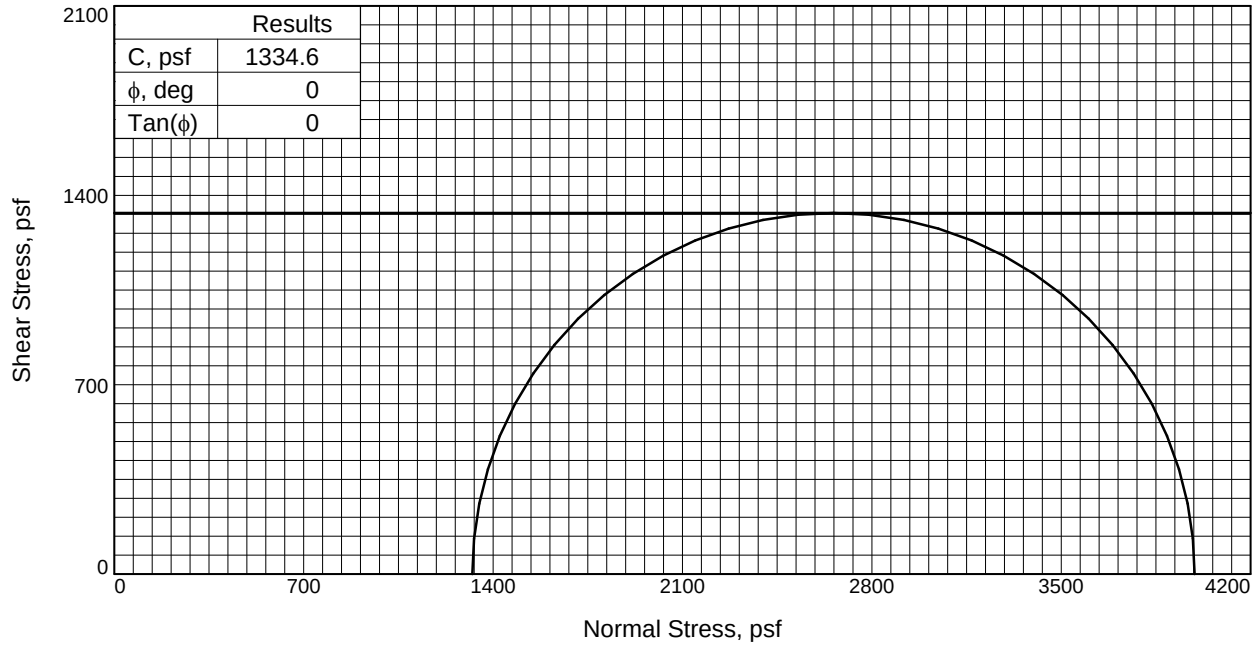


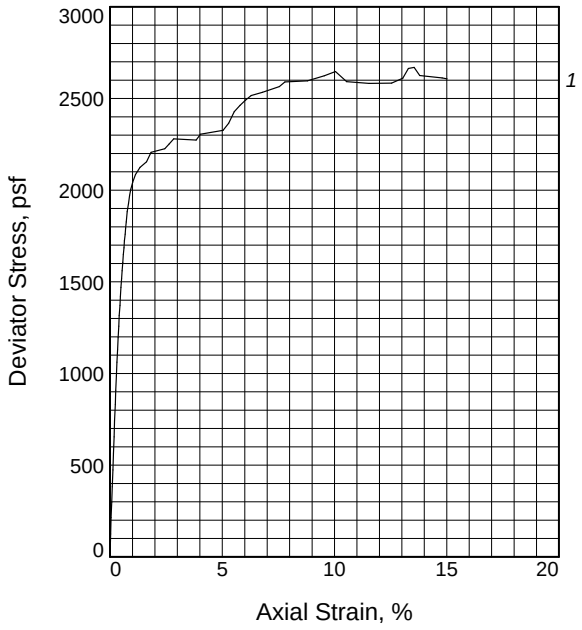


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 10.5'-12.5' **Sample Number:** BW-107 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	31.6
	Dry Density, pcf	94.4
	Saturation, %	110.9
	Void Ratio	0.7585
	Diameter, in.	2.836
	Height, in.	5.435
At Test	Water Content, %	30.5
	Dry Density, pcf	94.4
	Saturation, %	106.8
	Void Ratio	0.7585
	Diameter, in.	2.836
	Height, in.	5.435
Strain at peak, %		13.5
Back Pressure, psf		0.0
Cell Pressure, psf		1323.4
Fail. Stress, psf		2669.3
Strain, %		13.5
Ult. Stress, psf		2669.3
Strain, %		13.5
σ_1 Failure, psf		3992.7
σ_3 Failure, psf		1323.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(60))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

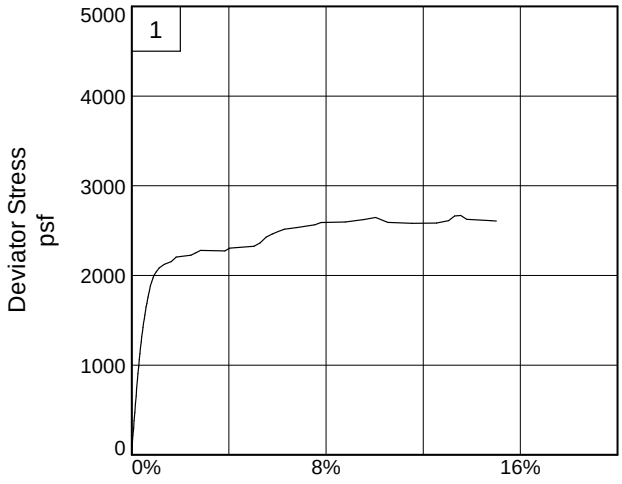
Project: Mobile River Bridge

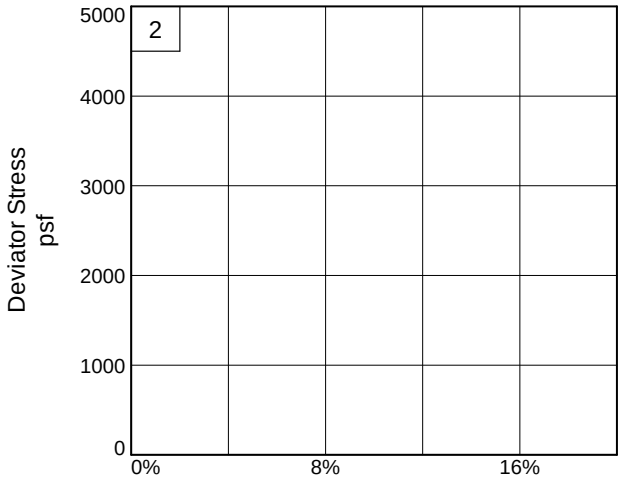
Source of Sample: 1/27/16 **Depth:** 30.5'-32.5'

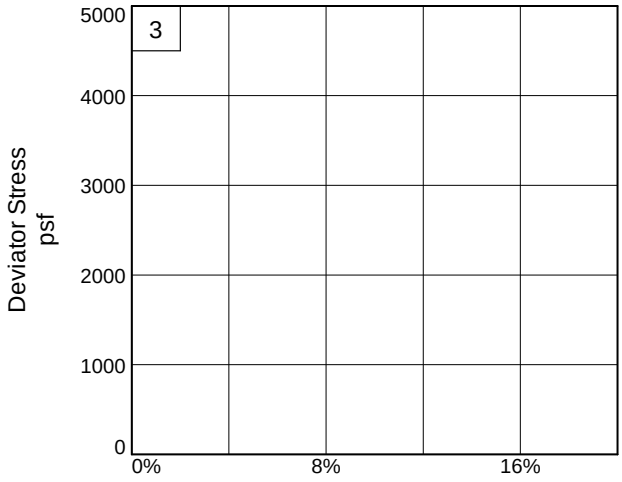
Sample Number: BW-107 T-3

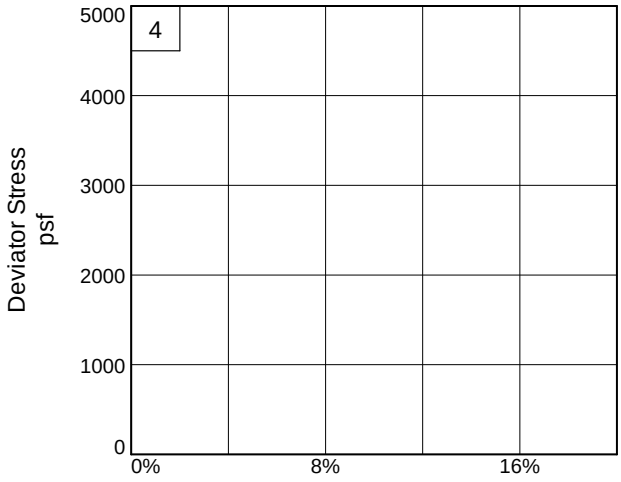
Proj. No.: 1511010228 **Date Sampled:**

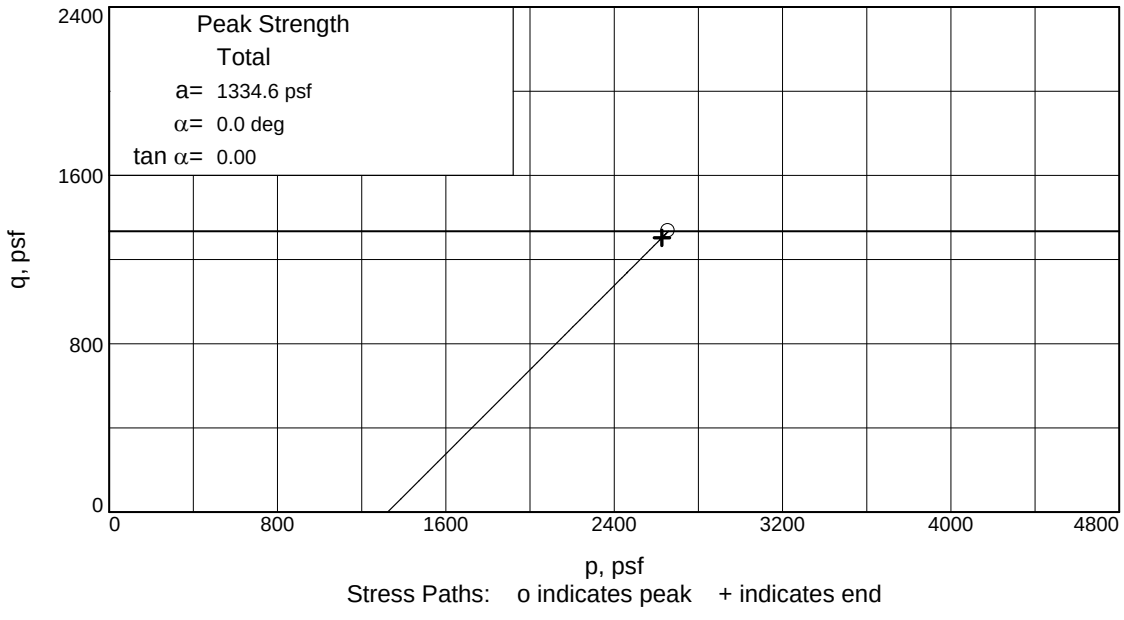
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Thompson Engineering
Mobile, Alabama





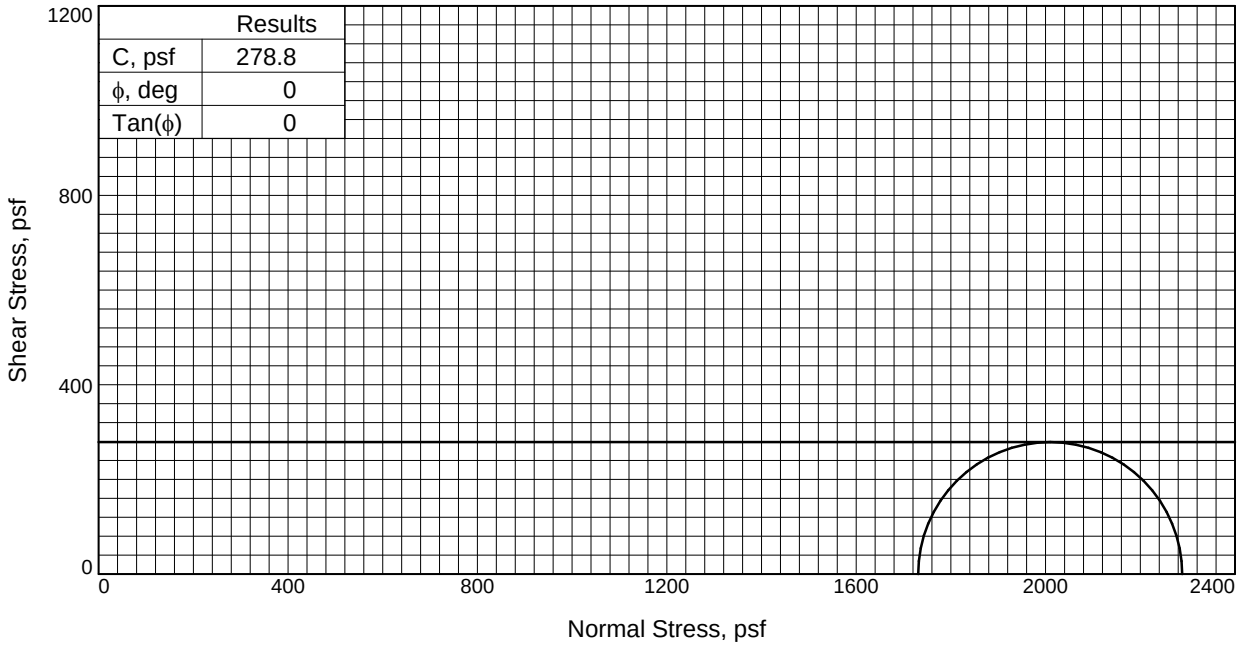


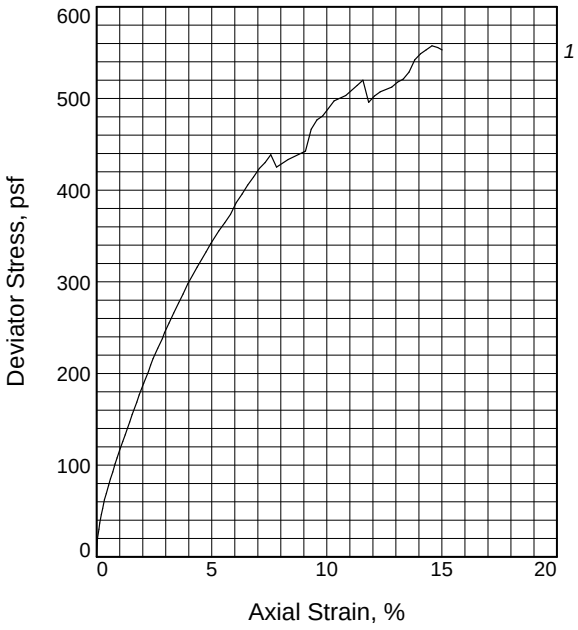




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 30.5'-32.5' **Sample Number:** BW-107 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	29.9
	Dry Density, pcf	97.6
	Saturation, %	113.4
	Void Ratio	0.7006
	Diameter, in.	2.831
	Height, in.	5.309
At Test	Water Content, %	32.6
	Dry Density, pcf	97.6
	Saturation, %	123.8
	Void Ratio	0.7006
	Diameter, in.	2.831
	Height, in.	5.309
Strain at peak, %		14.6
Back Pressure, psf		0.0
Cell Pressure, psf		1730.9
Fail. Stress, psf		557.5
Strain, %		14.6
Ult. Stress, psf		557.5
Strain, %		14.6
σ_1 Failure, psf		2288.4
σ_3 Failure, psf		1730.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(43))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

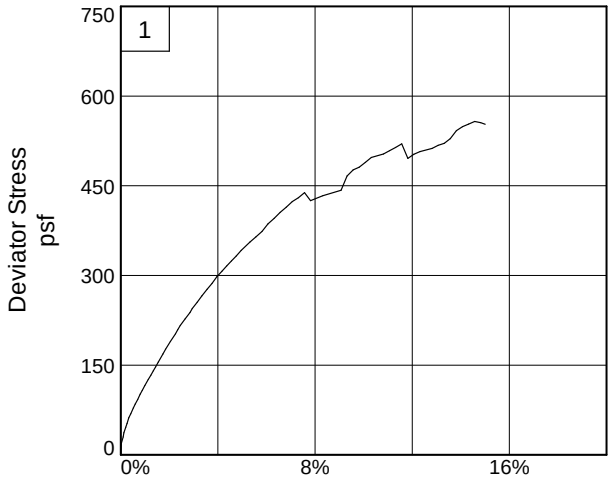
Project: Mobile River Bridge

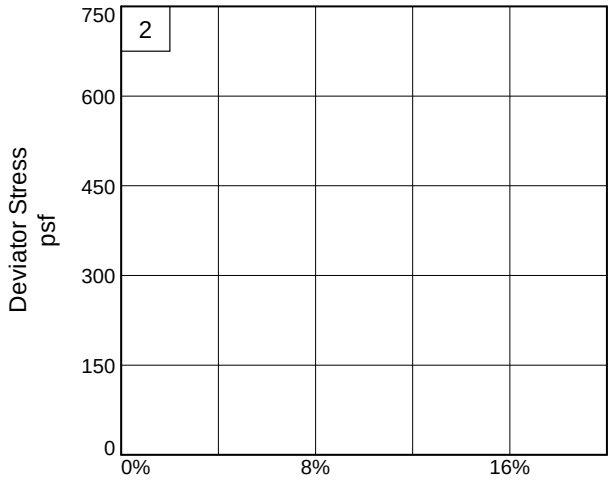
Source of Sample: 1/27/16 **Depth:** 38.5'-40.5'

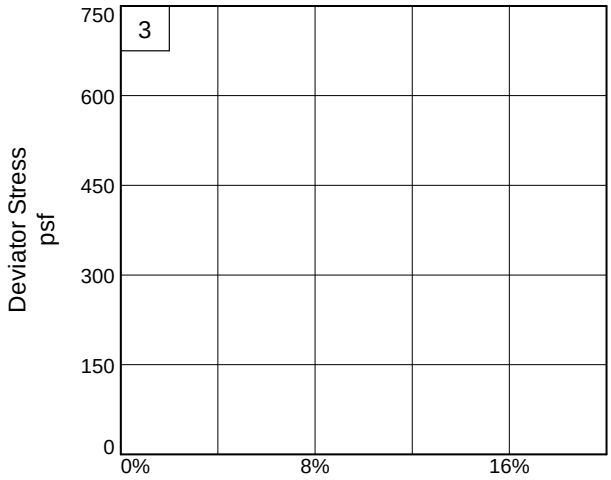
Sample Number: BW-107 T-4

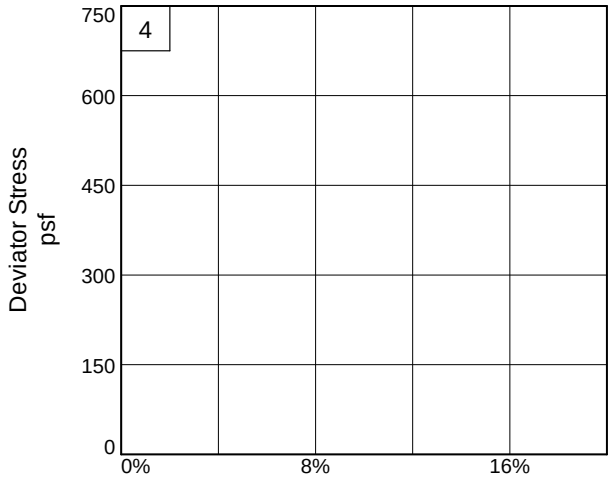
Proj. No.: 1511010228 **Date Sampled:**

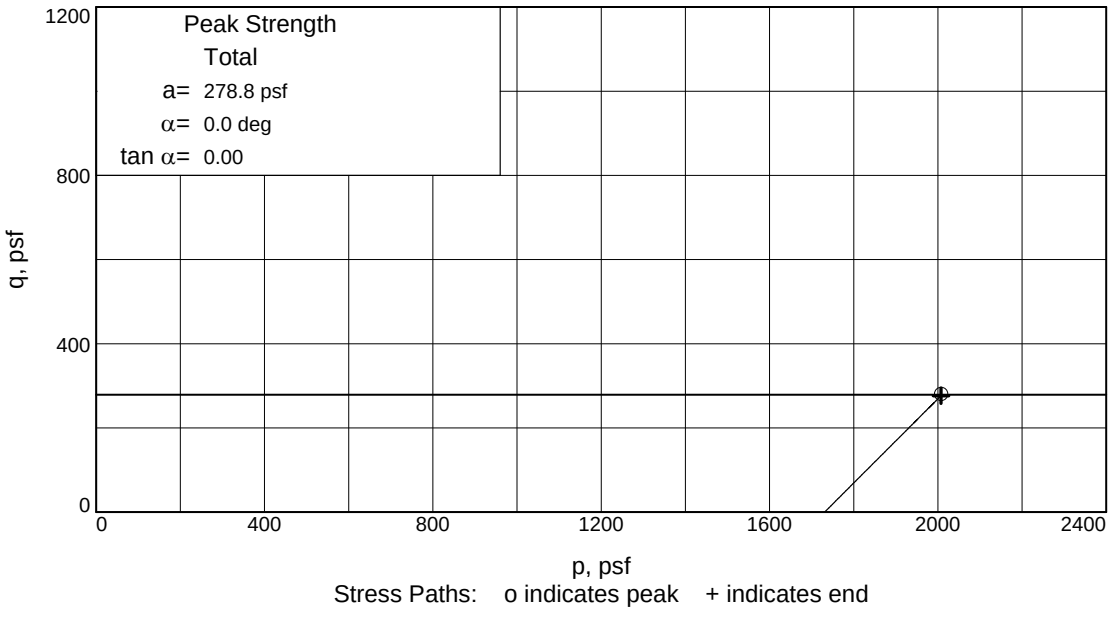
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Mobile, Alabama











Stress Paths: o indicates peak + indicates end

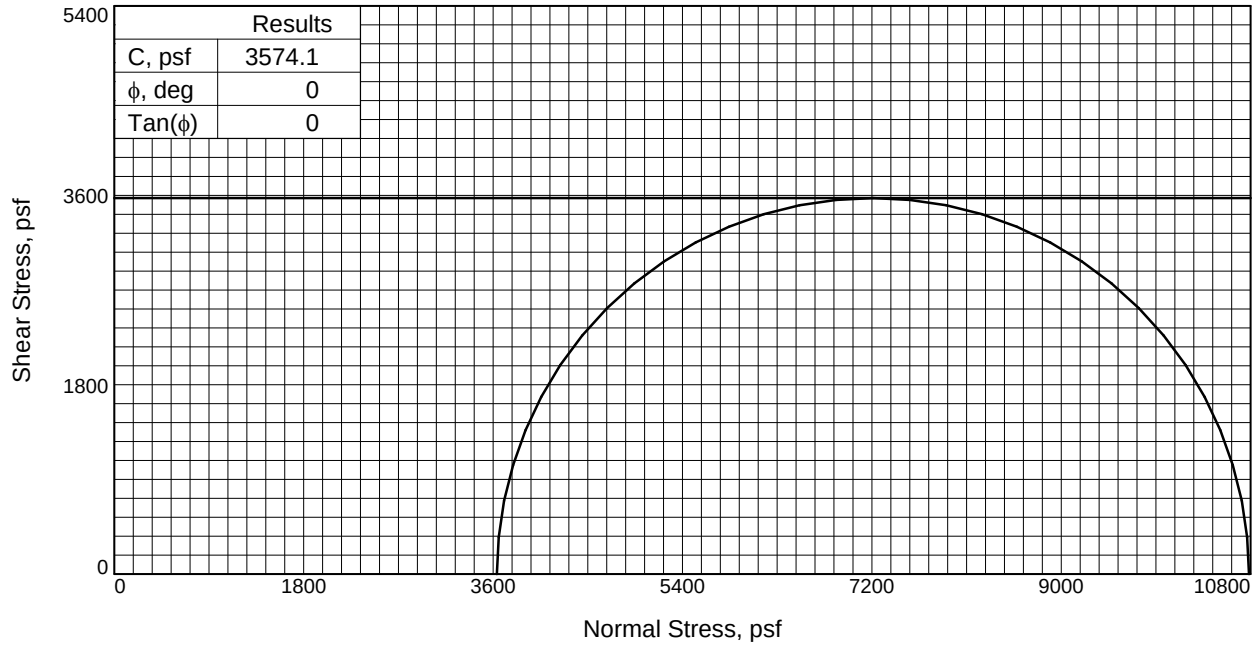
Client: ALDOT

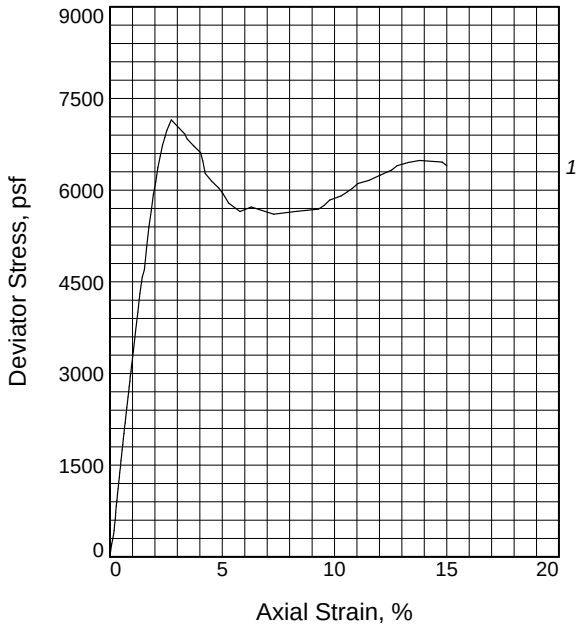
Project: Mobile River Bridge

Source of Sample: 1/27/16 **Depth:** 38.5'-40.5' **Sample Number:** BW-107 T-4

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	58.3
	Dry Density, pcf	67.0
	Saturation, %	105.0
	Void Ratio	1.4772
	Diameter, in.	2.853
	Height, in.	5.736
At Test	Water Content, %	49.5
	Dry Density, pcf	67.0
	Saturation, %	89.1
	Void Ratio	1.4772
	Diameter, in.	2.853
	Height, in.	5.736
Strain at peak, %		2.7
Back Pressure, psf		0.0
Cell Pressure, psf		3636.0
Fail. Stress, psf		7148.2
Strain, %		2.7
Ult. Stress, psf		7148.2
Strain, %		2.7
σ_1 Failure, psf		10784.2
σ_3 Failure, psf		3636.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-2-7(1))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

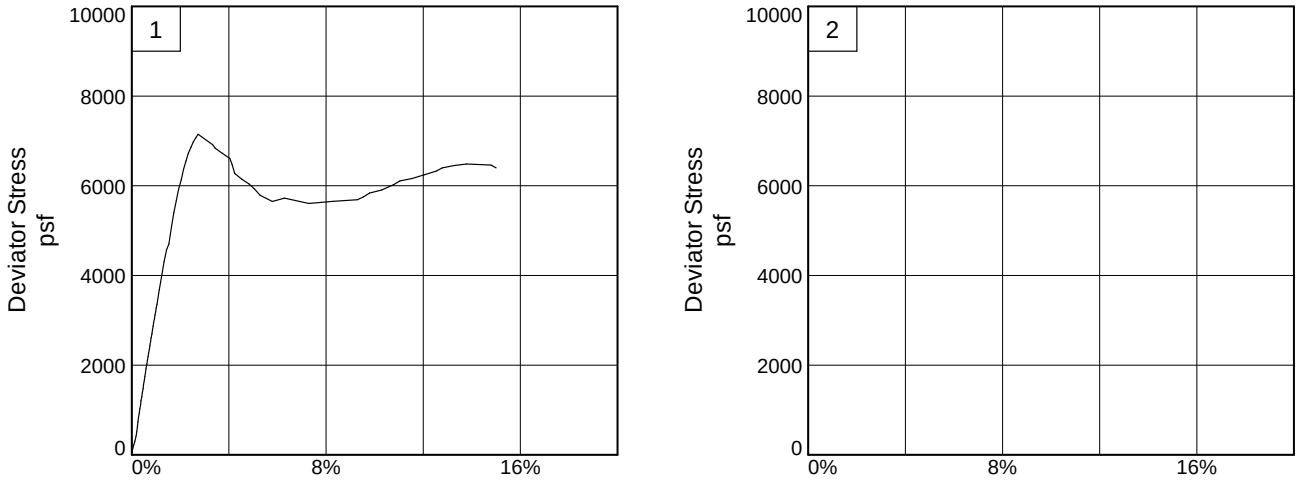
Project: Mobile River Bridge

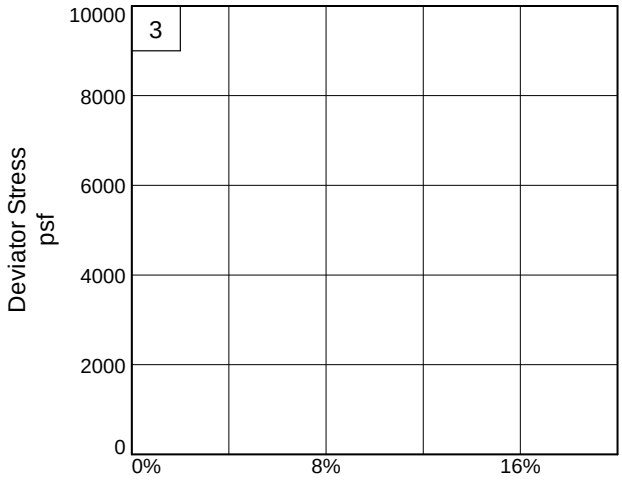
Source of Sample: 1/27/16 **Depth:** 76.5'-78.5'

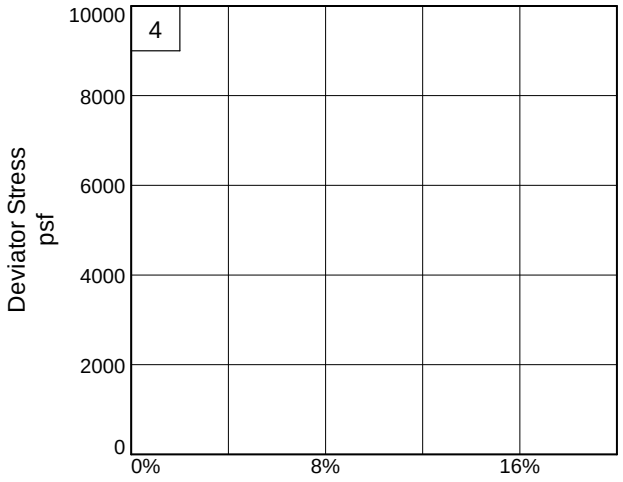
Sample Number: BW-109 T-3

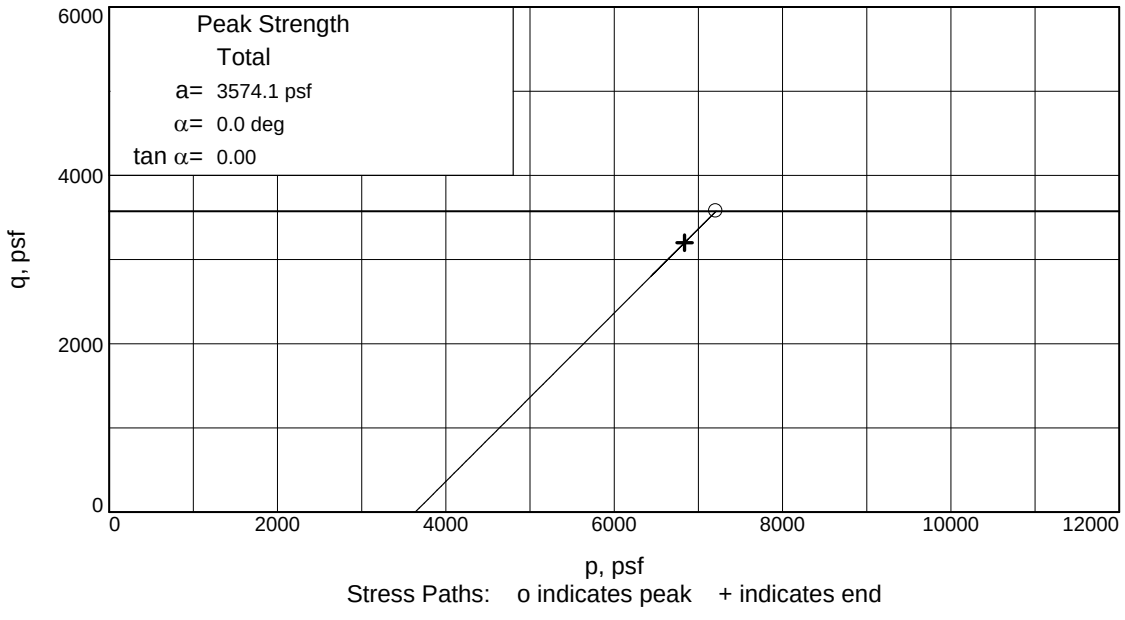
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama









Stress Paths: o indicates peak + indicates end

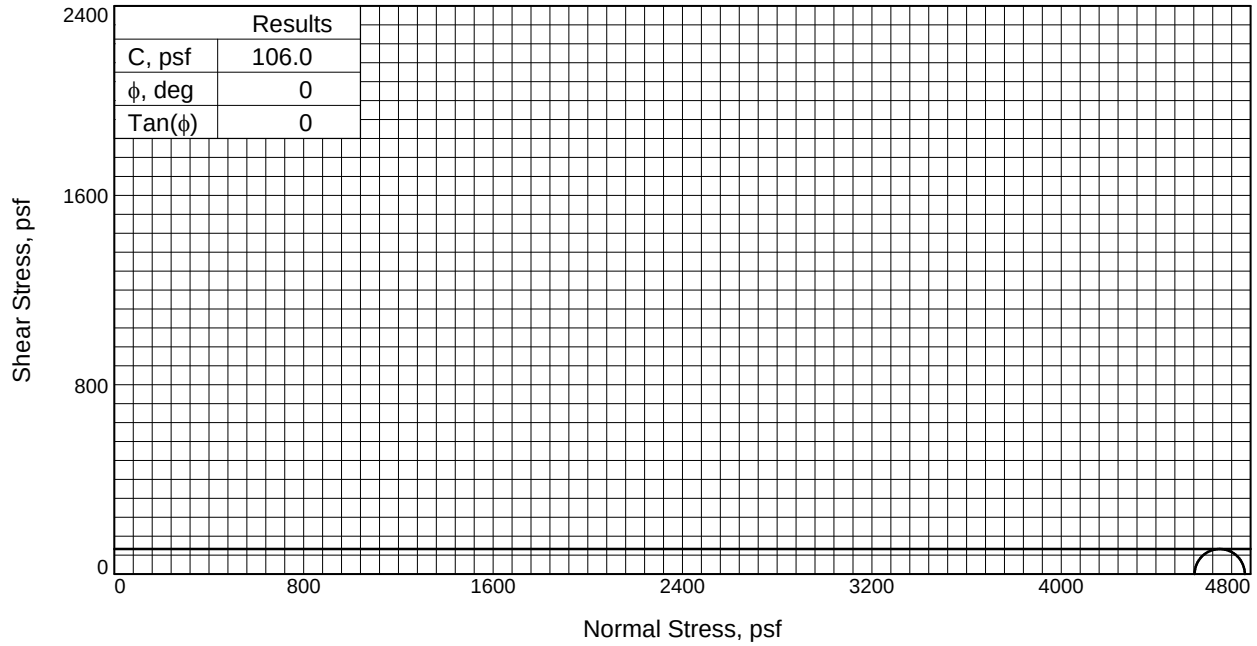
Client: ALDOT

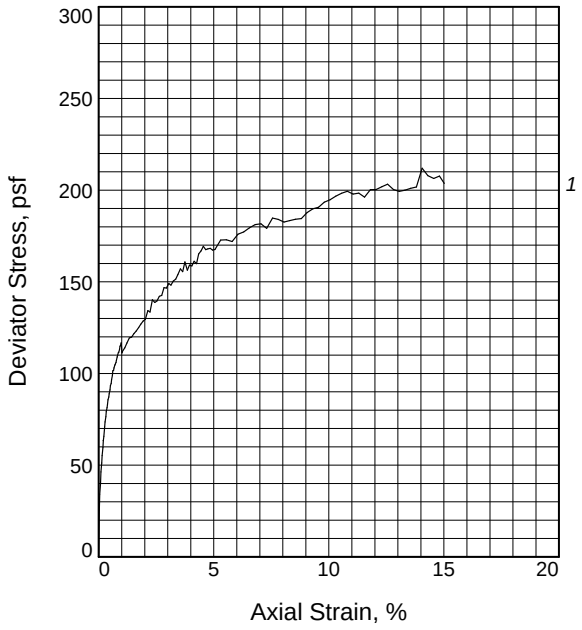
Project: Mobile River Bridge

Source of Sample: 1/27/16 **Depth:** 76.5'-78.5' **Sample Number:** BW-109 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	44.5
	Dry Density, pcf	79.1
	Saturation, %	107.5
	Void Ratio	1.1006
	Diameter, in.	1.407
	Height, in.	2.746
At Test	Water Content, %	43.5
	Dry Density, pcf	79.1
	Saturation, %	105.0
	Void Ratio	1.1006
	Diameter, in.	1.407
	Height, in.	2.746
Strain at peak, %		14.1
Back Pressure, psf		0.0
Cell Pressure, psf		4563.4
Fail. Stress, psf		212.0
Strain, %		14.1
Ult. Stress, psf		212.0
Strain, %		14.1
σ_1 Failure, psf		4775.3
σ_3 Failure, psf		4563.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(18))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

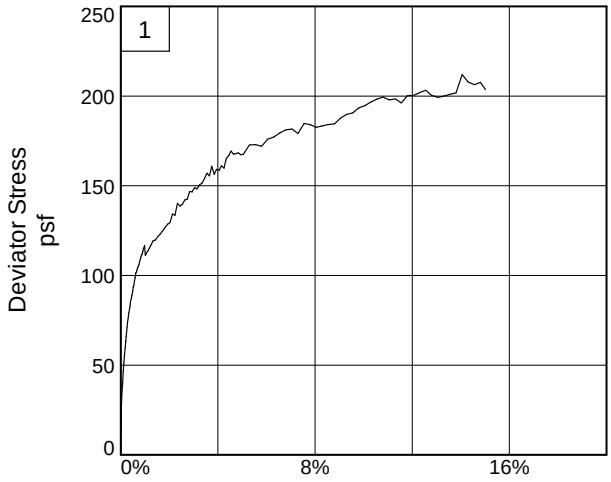
Project: Mobile River Bridge

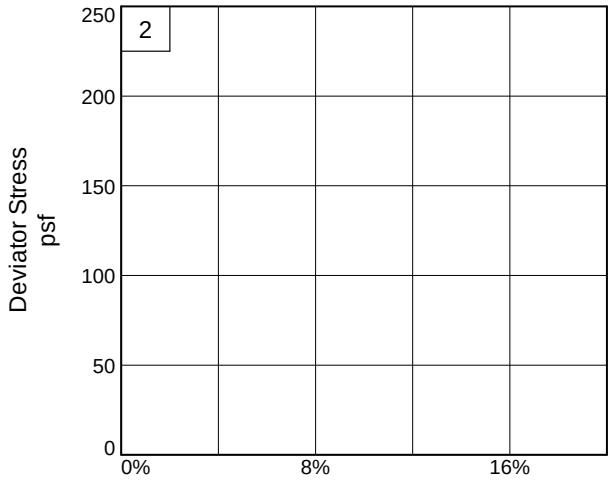
Source of Sample: 1/27/16 **Depth:** 95.5'-97.5'

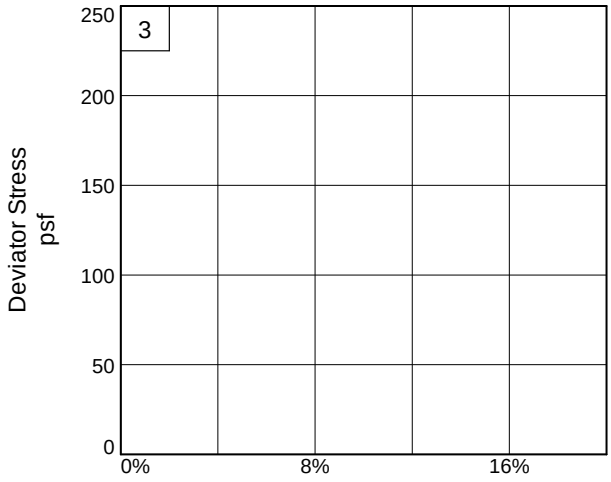
Sample Number: BW-110 T-1

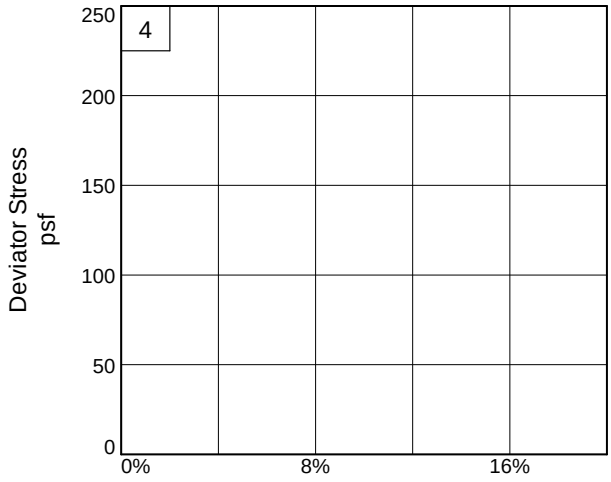
Proj. No.: 1511010228 **Date Sampled:**

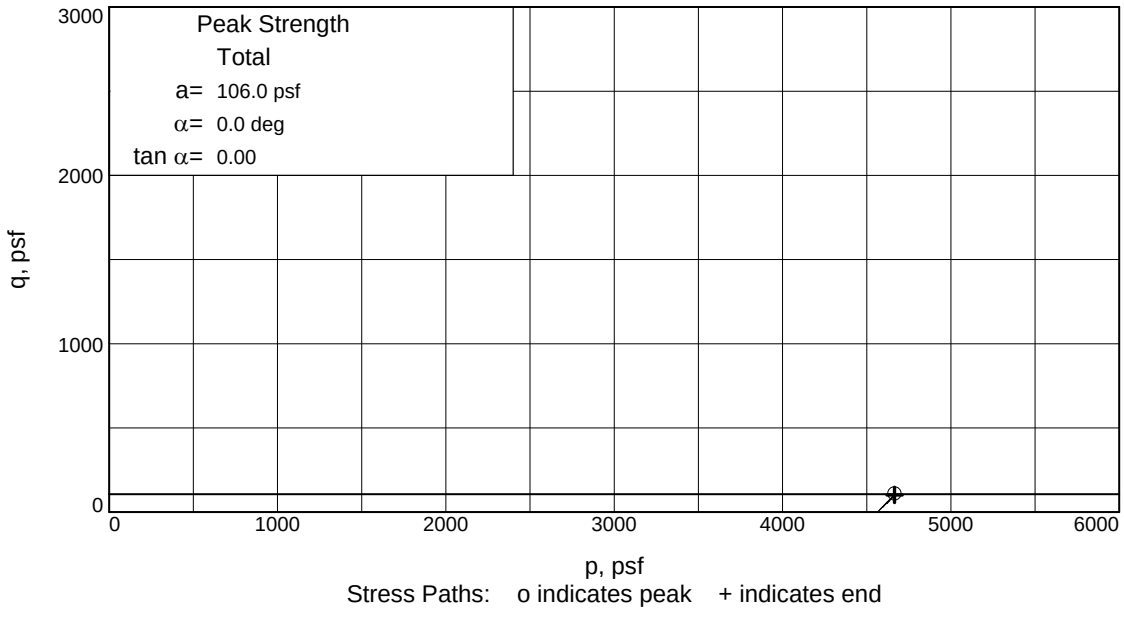
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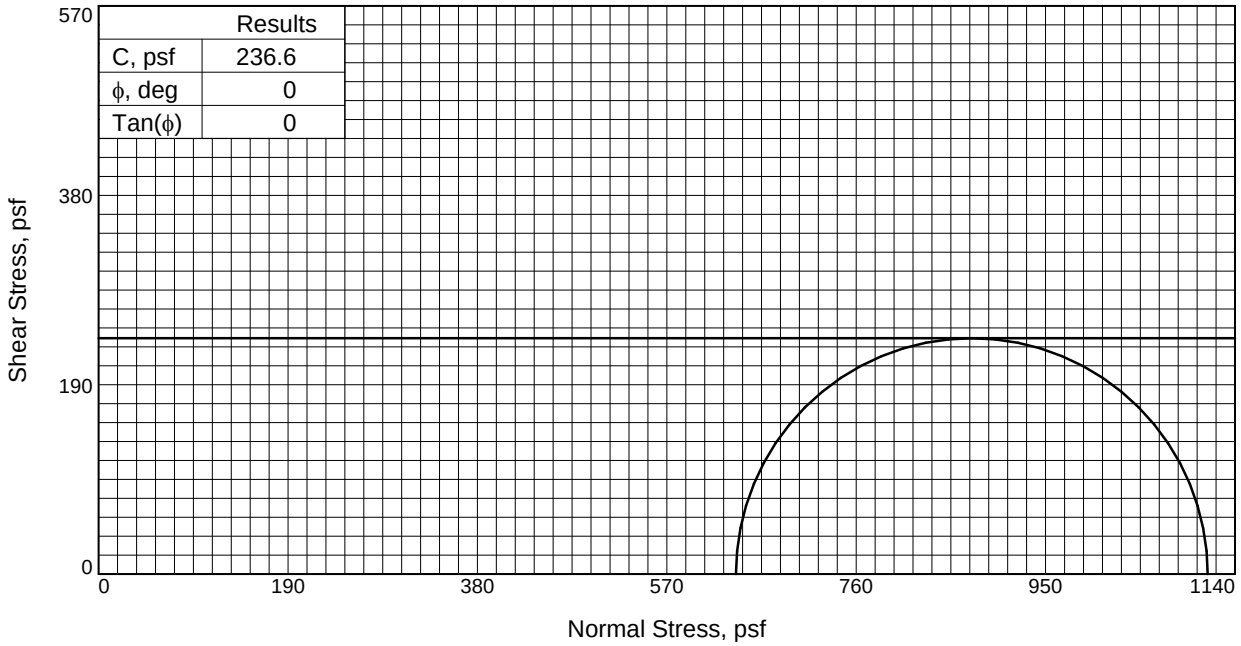


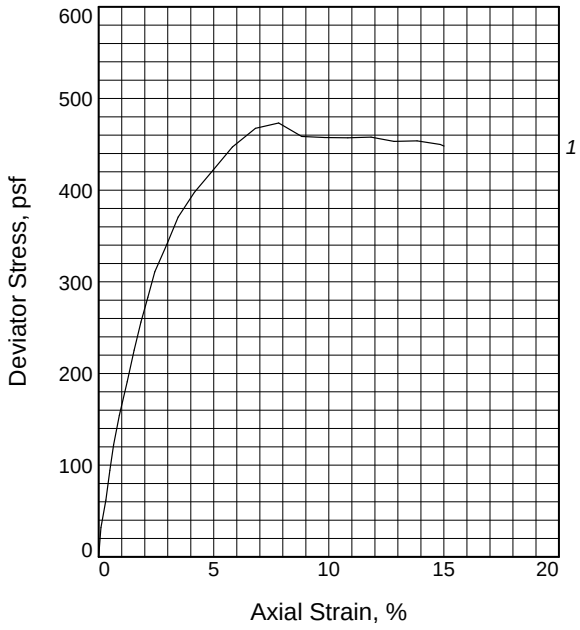




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 95.5'-97.5' **Sample Number:** BW-110 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	27.8
	Dry Density, pcf	101.1
	Saturation, %	112.7
	Void Ratio	0.6670
	Diameter, in.	2.787
	Height, in.	5.362
At Test	Water Content, %	29.4
	Dry Density, pcf	101.1
	Saturation, %	118.9
	Void Ratio	0.6670
	Diameter, in.	2.787
	Height, in.	5.362
Strain at peak, %		7.8
Back Pressure, psf		0.0
Cell Pressure, psf		639.4
Fail. Stress, psf		473.3
Strain, %		7.8
Ult. Stress, psf		473.3
Strain, %		7.8
σ_1 Failure, psf		1112.7
σ_3 Failure, psf		639.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(2))

Specific Gravity= 2.7

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

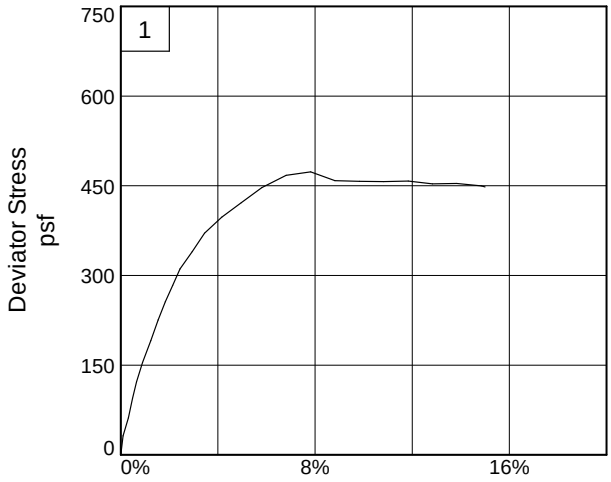
Project: Mobile River Bridge

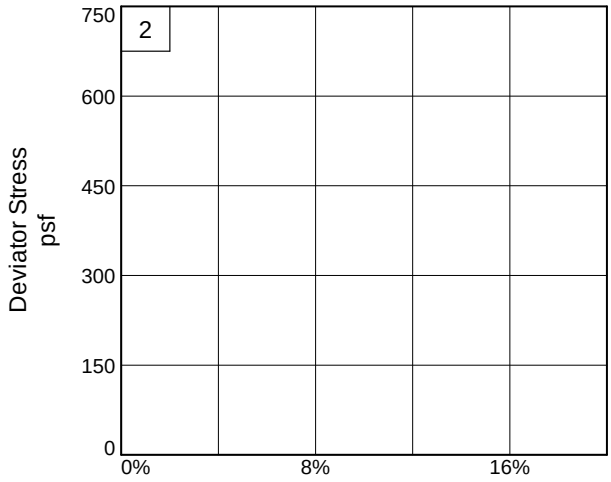
Source of Sample: Lab #8042 **Depth:** 13.0'-15.0'

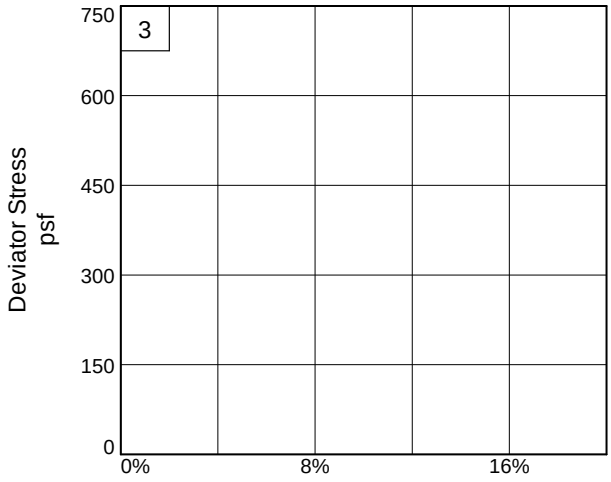
Sample Number: BW-111 T-1

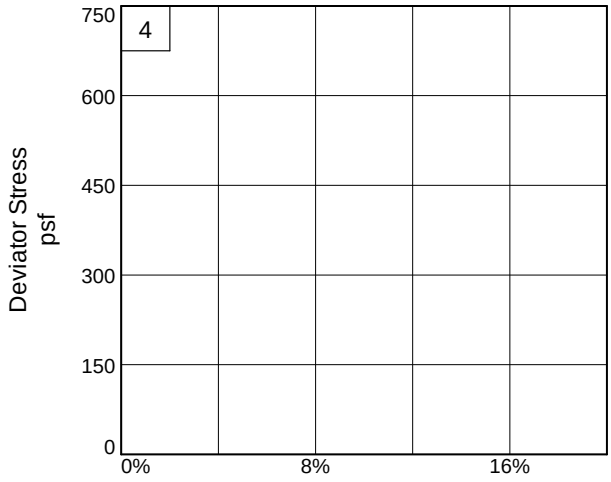
Proj. No.: 1511010228 **Date Sampled:**

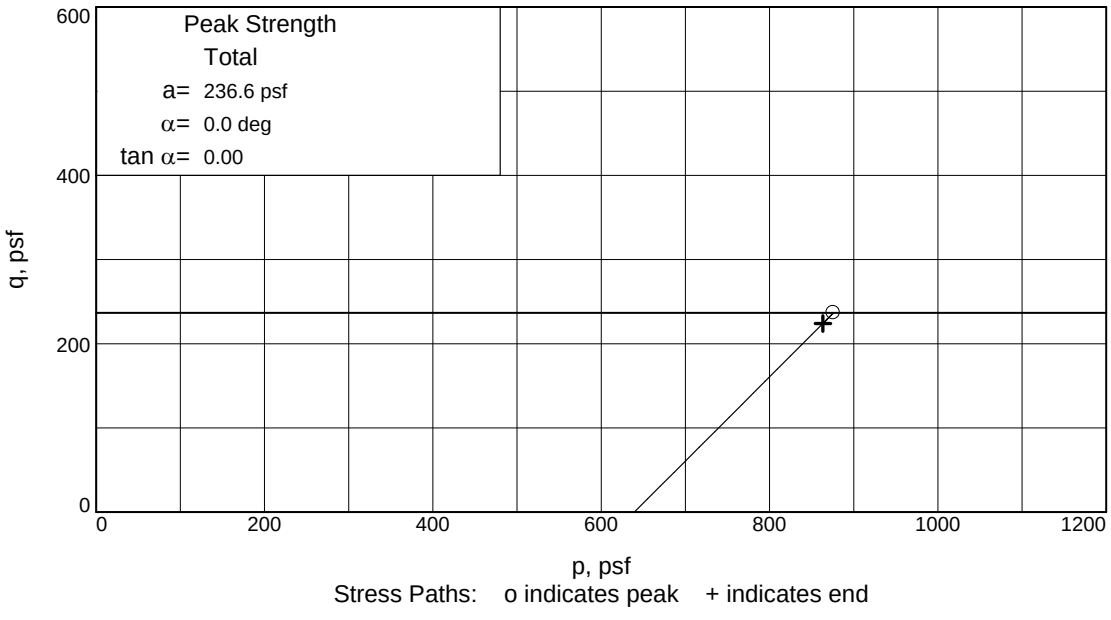
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Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

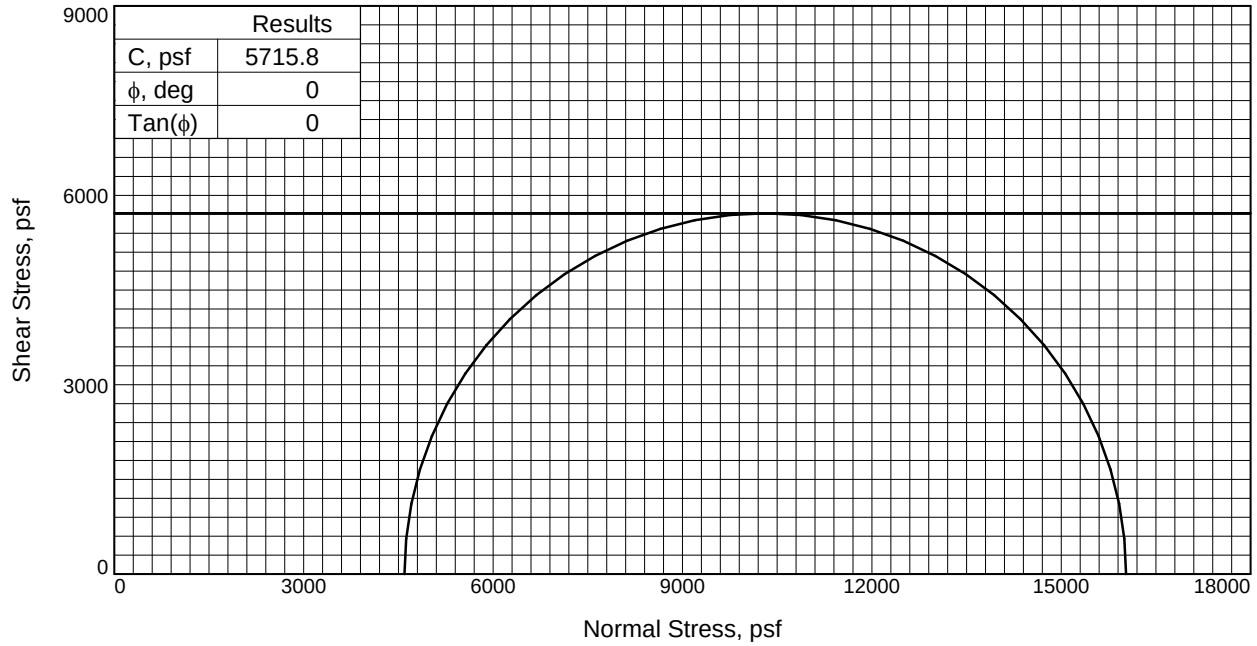
Client: ALDOT

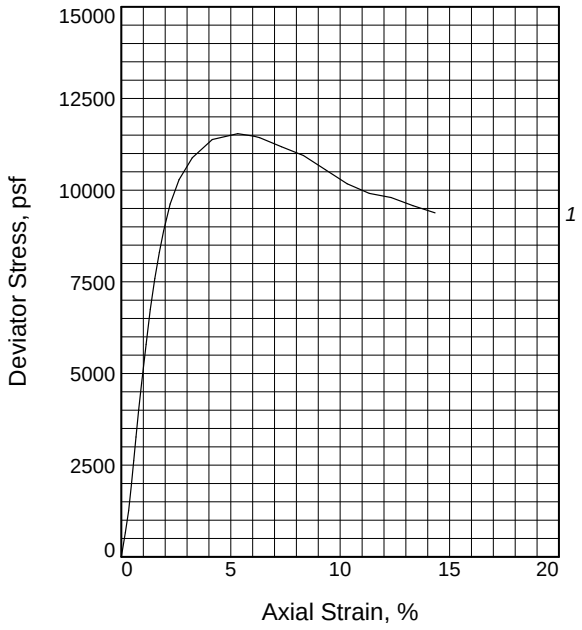
Project: Mobile River Bridge

Source of Sample: Lab #8042 **Depth:** 13.0'-15.0' **Sample Number:** BW-111 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	21.1
	Dry Density, pcf	106.6
	Saturation, %	100.5
	Void Ratio	0.5575
	Diameter, in.	2.870
	Height, in.	5.319
At Test	Water Content, %	22.2
	Dry Density, pcf	106.6
	Saturation, %	105.7
	Void Ratio	0.5575
	Diameter, in.	2.870
	Height, in.	5.319
Strain at peak, %		6.3
Back Pressure, psf		0.0
Cell Pressure, psf		4595.0
Fail. Stress, psf		11431.5
Strain, %		6.3
Ult. Stress, psf		11431.5
Strain, %		6.3
σ_1 Failure, psf		16026.6
σ_3 Failure, psf		4595.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(34))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

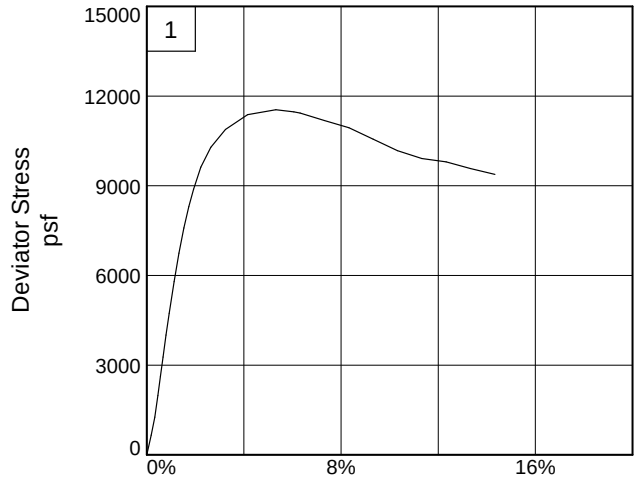
Project: Mobile River Bridge

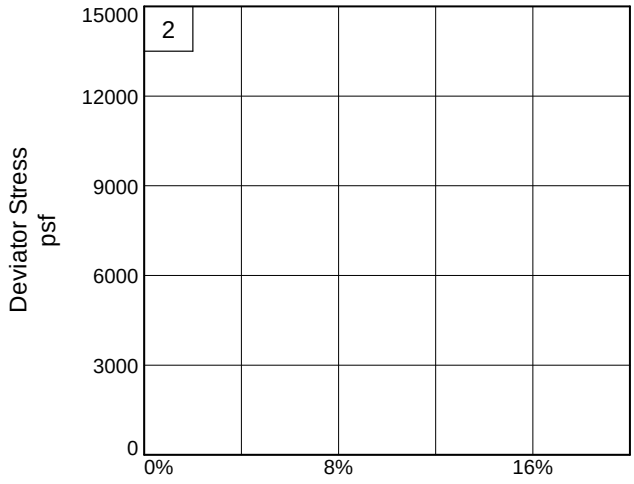
Source of Sample: Lab #8042 **Depth:** 83.0'-85.0'

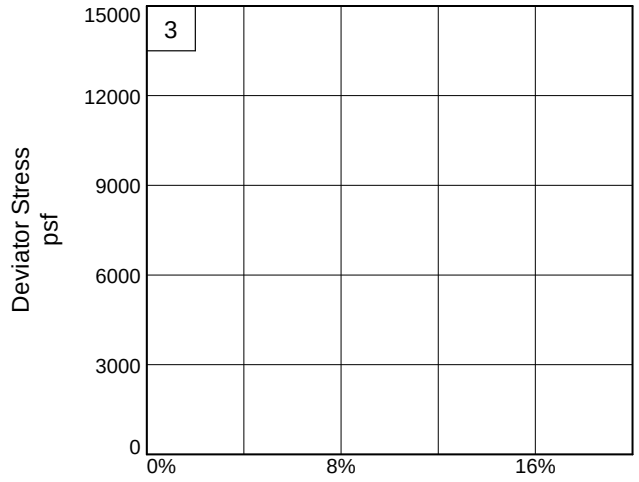
Sample Number: BW-111 T-2

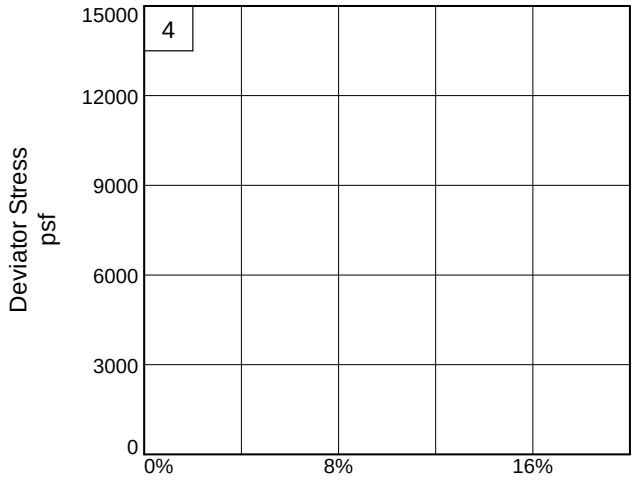
Proj. No.: 1511010228 **Date Sampled:**

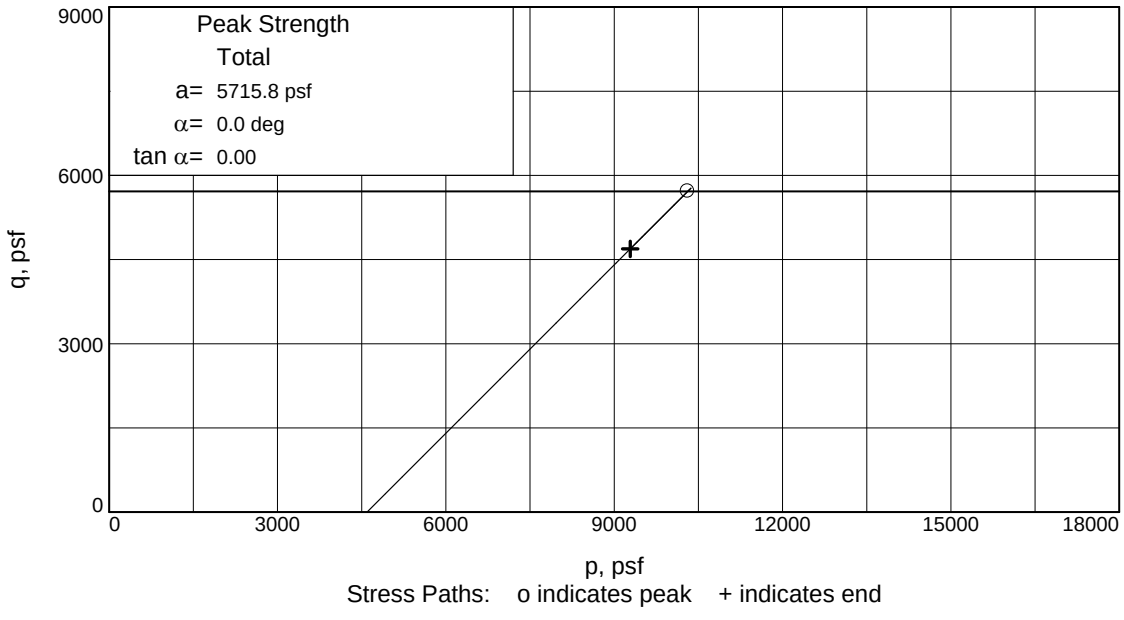
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Mobile, Alabama





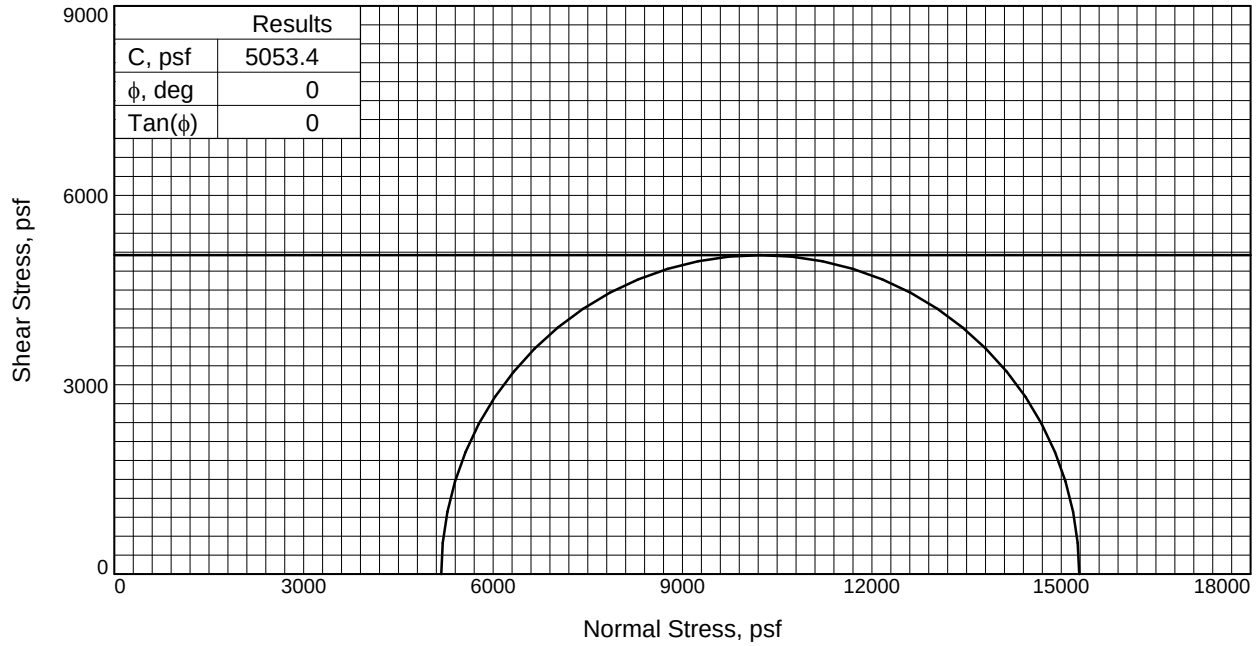


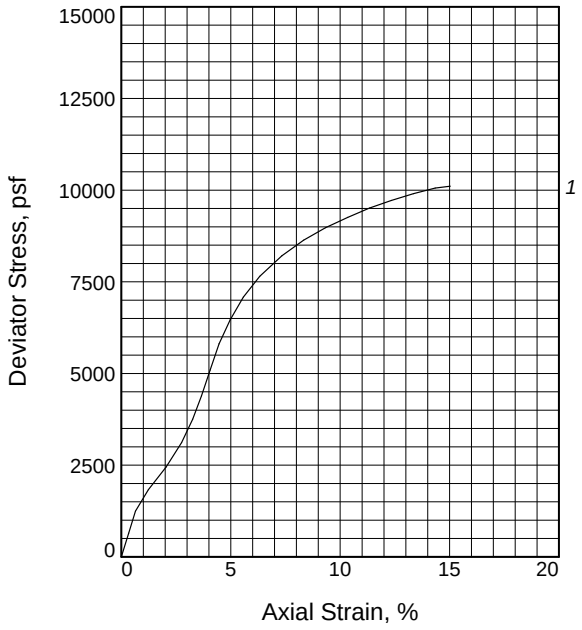




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #8042 **Depth:** 83.0'-85.0' **Sample Number:** BW-111 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	17.6
	Dry Density, pcf	112.9
	Saturation, %	99.4
	Void Ratio	0.4706
	Diameter, in.	2.882
	Height, in.	5.566
At Test	Water Content, %	18.2
	Dry Density, pcf	112.9
	Saturation, %	102.7
	Void Ratio	0.4706
	Diameter, in.	2.882
	Height, in.	5.566
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		5178.2
Fail. Stress, psf		10106.8
Strain, %		15.0
Ult. Stress, psf		10106.8
Strain, %		15.0
σ_1 Failure, psf		15285.0
σ_3 Failure, psf		5178.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(4))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

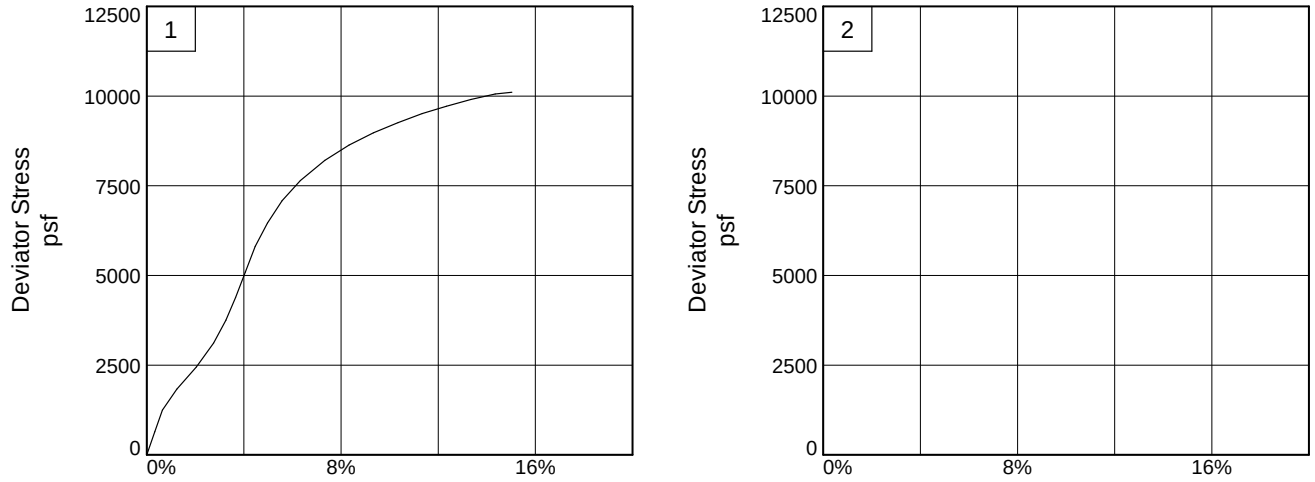
Project: Mobile River Bridge

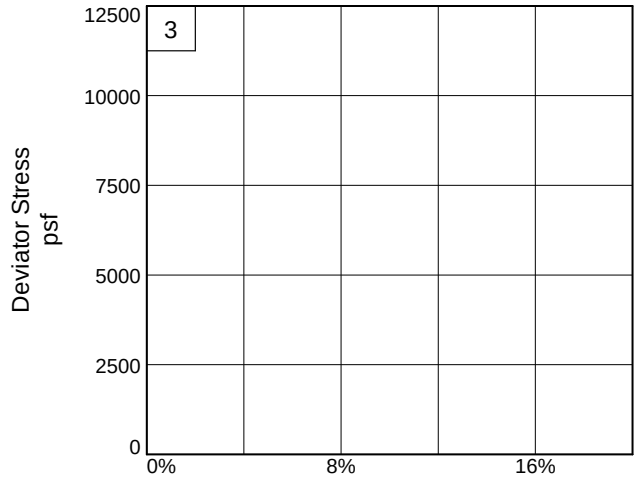
Source of Sample: Lab #8042 **Depth:** 93.0'-95.0'

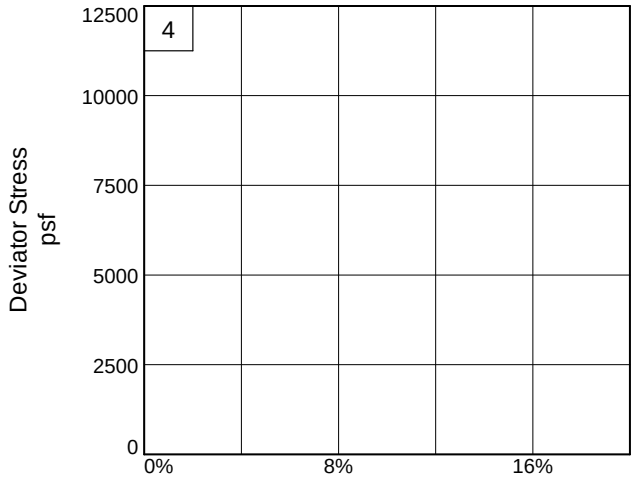
Sample Number: BW-111 T-3

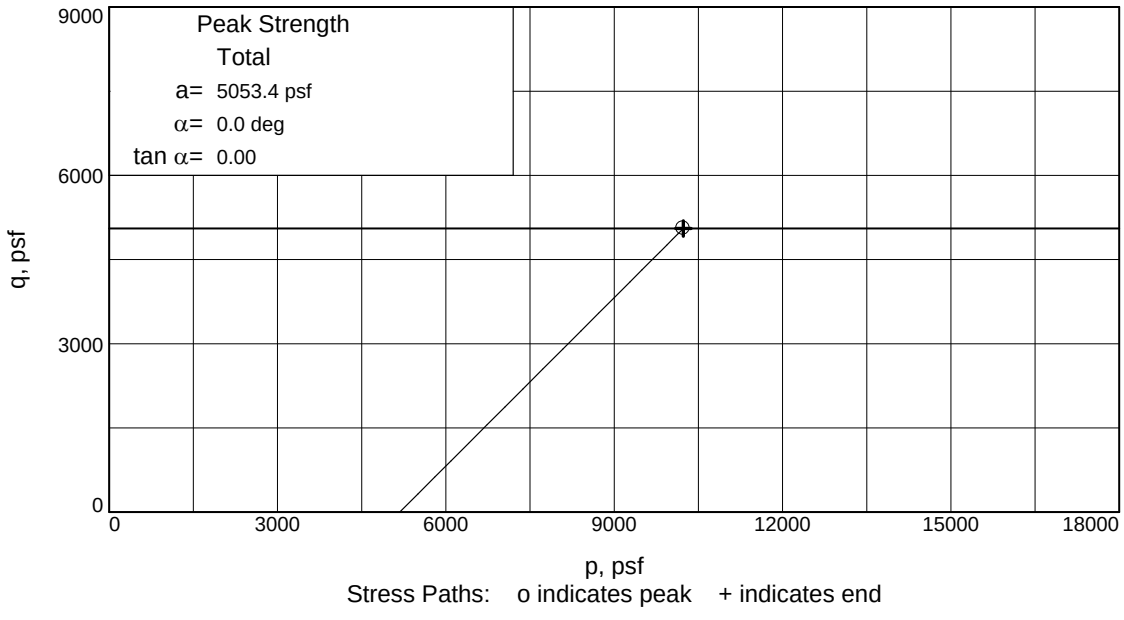
Proj. No.: 1511010228 **Date Sampled:**

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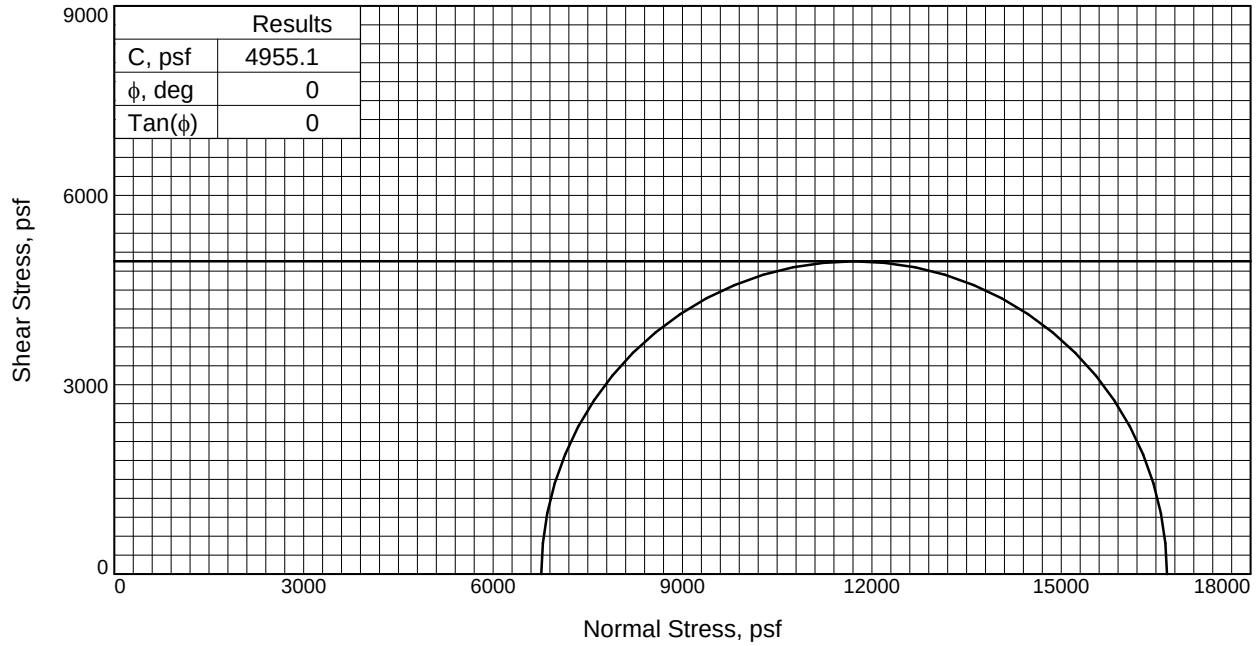


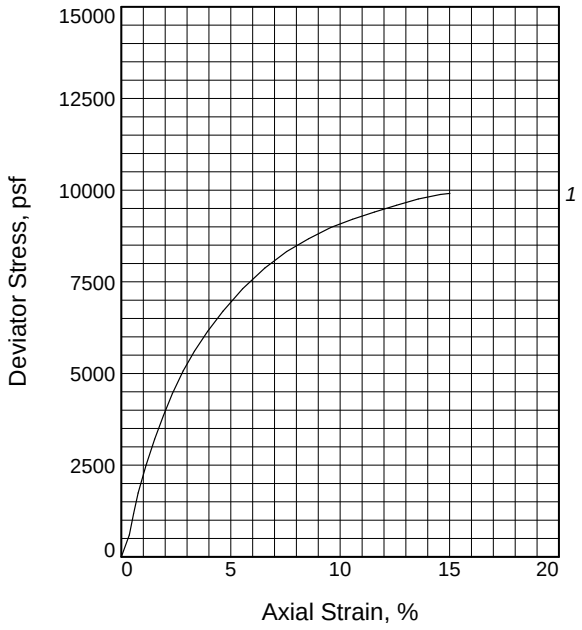


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #8042 **Depth:** 93.0'-95.0' **Sample Number:** BW-111 T-3
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	20.8
	Dry Density, pcf	106.6
	Saturation, %	99.1
	Void Ratio	0.5578
	Diameter, in.	2.853
	Height, in.	5.437
At Test	Water Content, %	21.6
	Dry Density, pcf	106.6
	Saturation, %	103.0
	Void Ratio	0.5578
	Diameter, in.	2.853
	Height, in.	5.437
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		6763.7
Fail. Stress, psf		9910.2
Strain, %		15.0
Ult. Stress, psf		9910.2
Strain, %		15.0
σ_1 Failure, psf		16673.9
σ_3 Failure, psf		6763.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

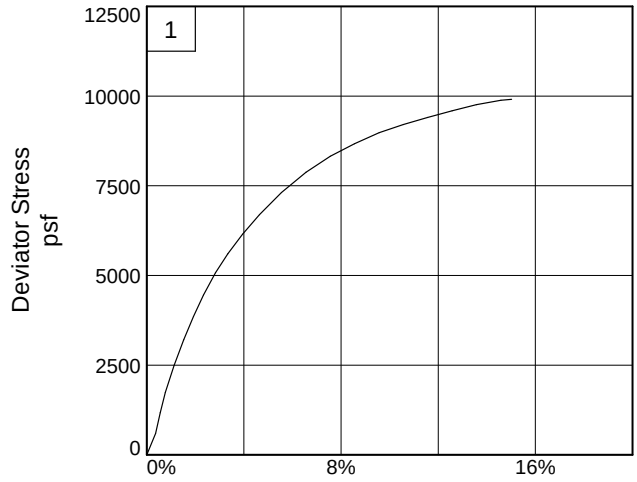
Project: Mobile River Bridge

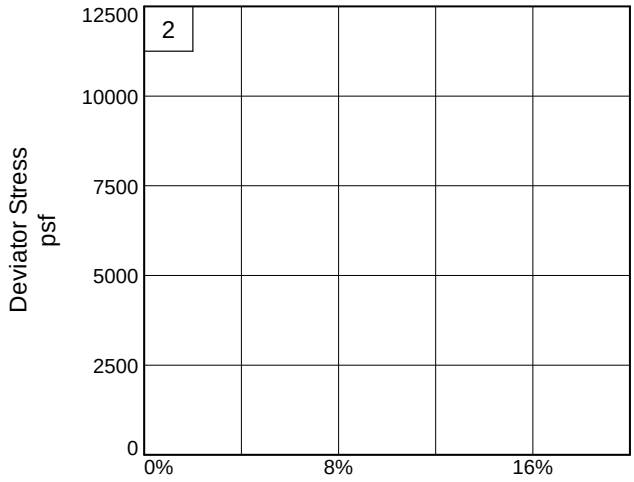
Source of Sample: Lab #8042 **Depth:** 123.0'-125.0'

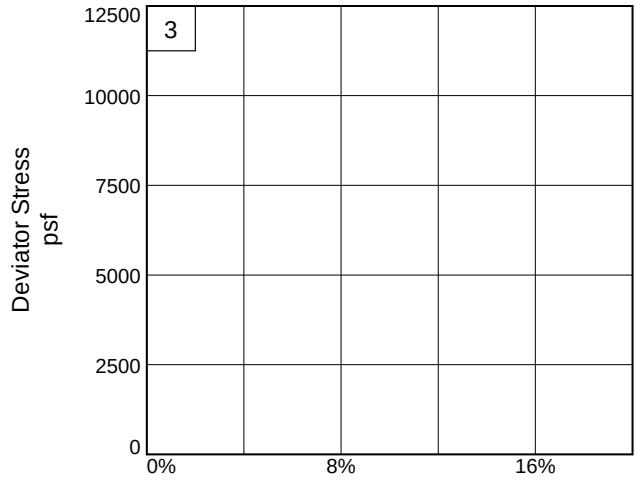
Sample Number: BW-111 T-4

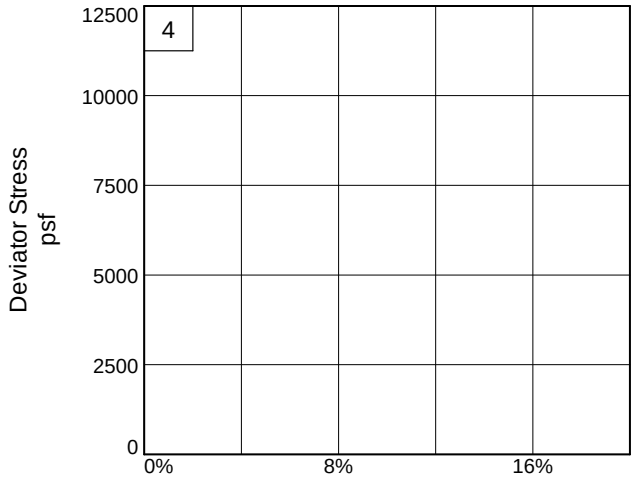
Proj. No.: 1511010228 **Date Sampled:**

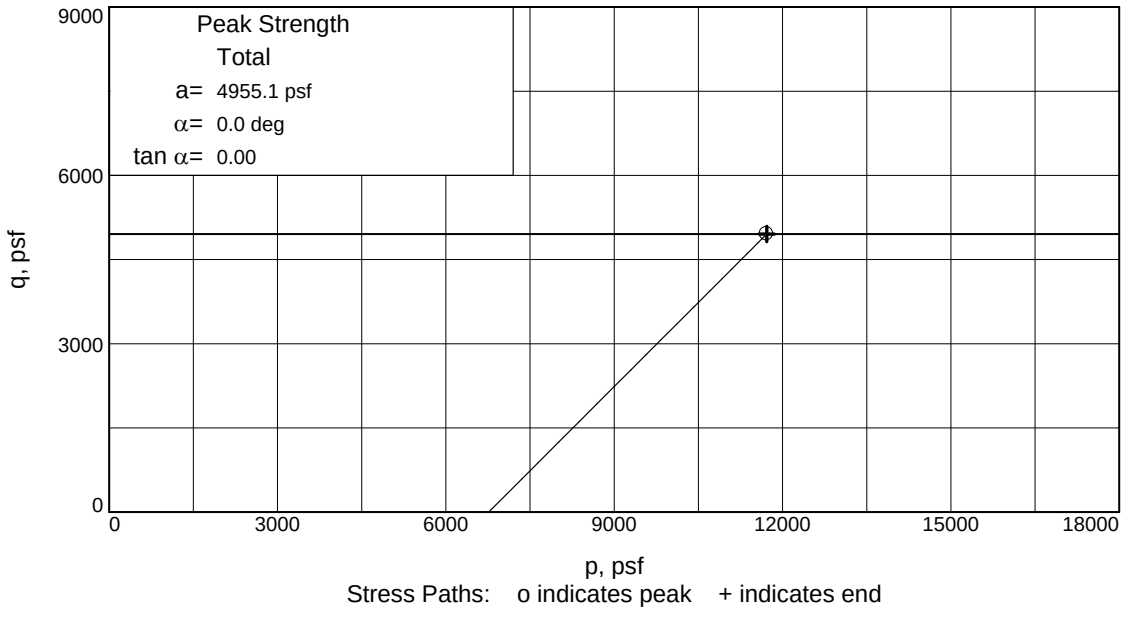
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Thompson Engineering
Mobile, Alabama







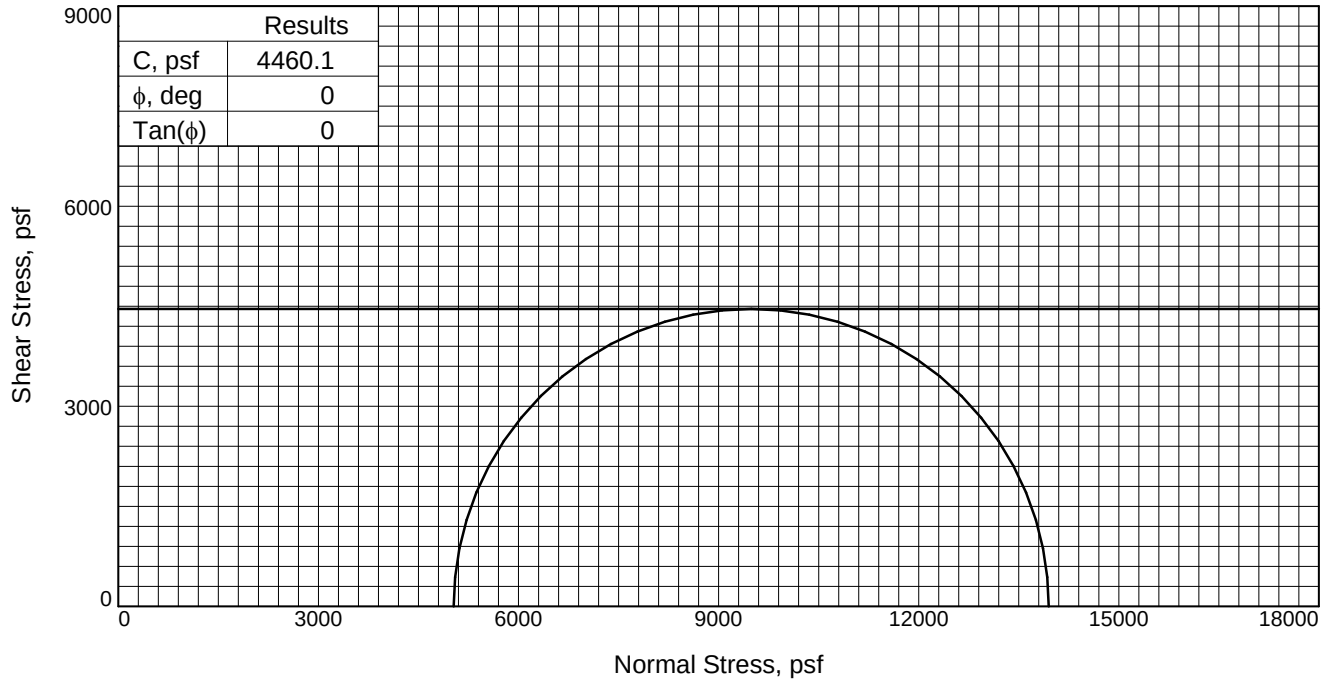


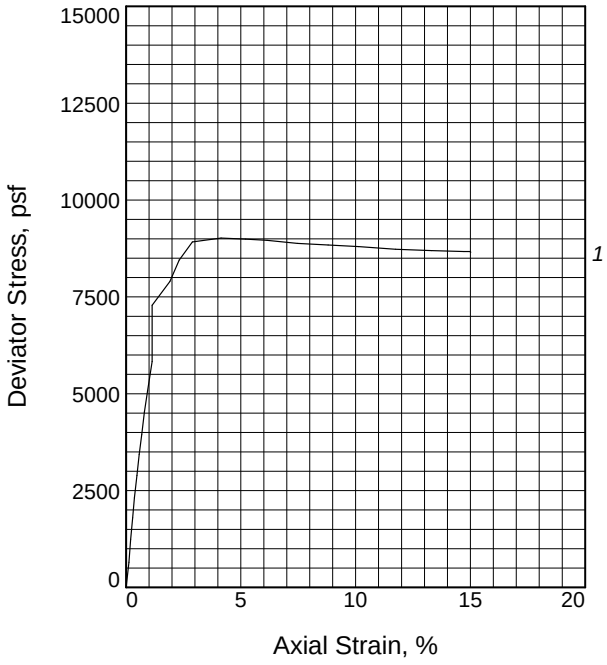


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #8042 **Depth:** 123.0'-125.0' **Sample Number:** BW-111 T-4
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	24.4
	Dry Density, pcf	100.8
	Saturation, %	100.3
	Void Ratio	0.6471
	Diameter, in.	2.873
	Height, in.	5.515
At Test	Water Content, %	26.1
	Dry Density, pcf	100.8
	Saturation, %	107.4
	Void Ratio	0.6471
	Diameter, in.	2.873
	Height, in.	5.515
Strain at peak, %		2.9
Back Pressure, psf		0.0
Cell Pressure, psf		5028.5
Fail. Stress, psf		8920.3
Strain, %		2.9
Ult. Stress, psf		8920.3
Strain, %		2.9
σ_1 Failure, psf		13948.8
σ_3 Failure, psf		5028.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(39))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

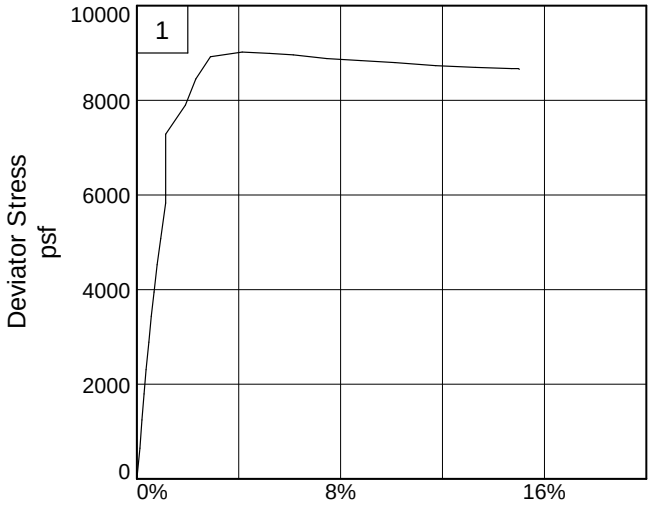
Source of Sample: Lab #8099 **Depth:** 103.5'-105.5'

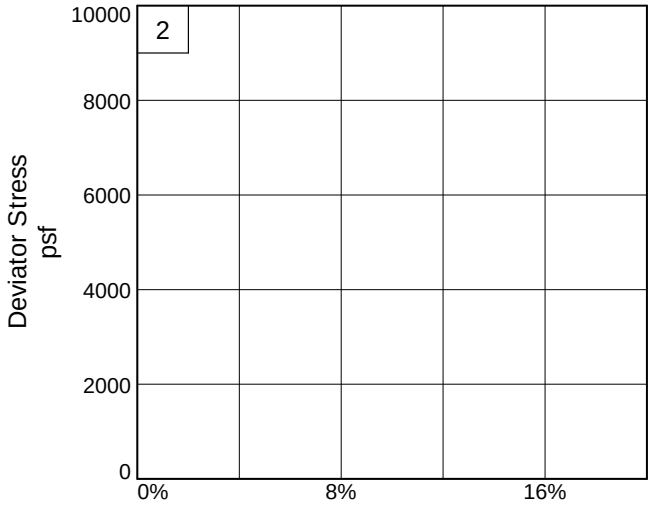
Sample Number: BW-112 T-2

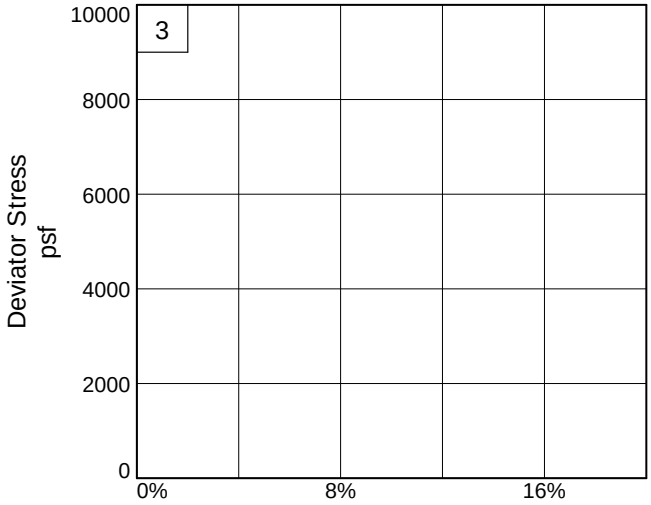
Proj. No.: 1511010228 **Date Sampled:**

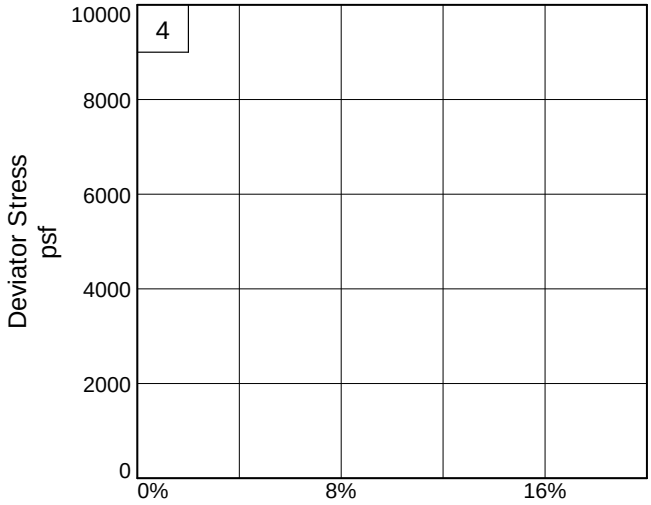
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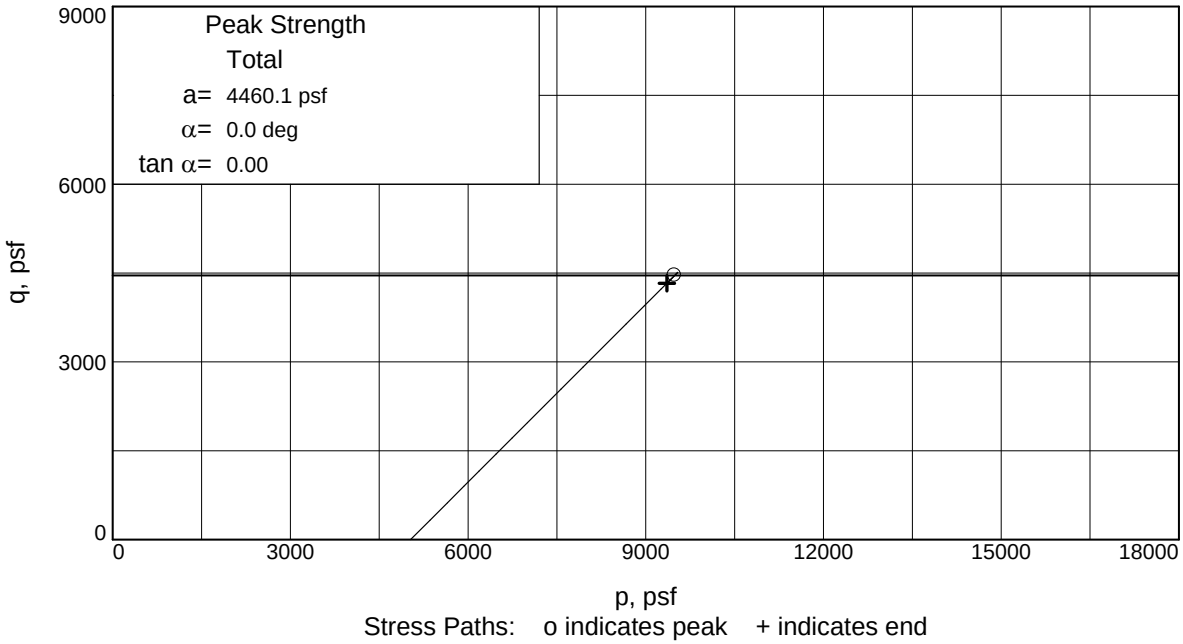
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

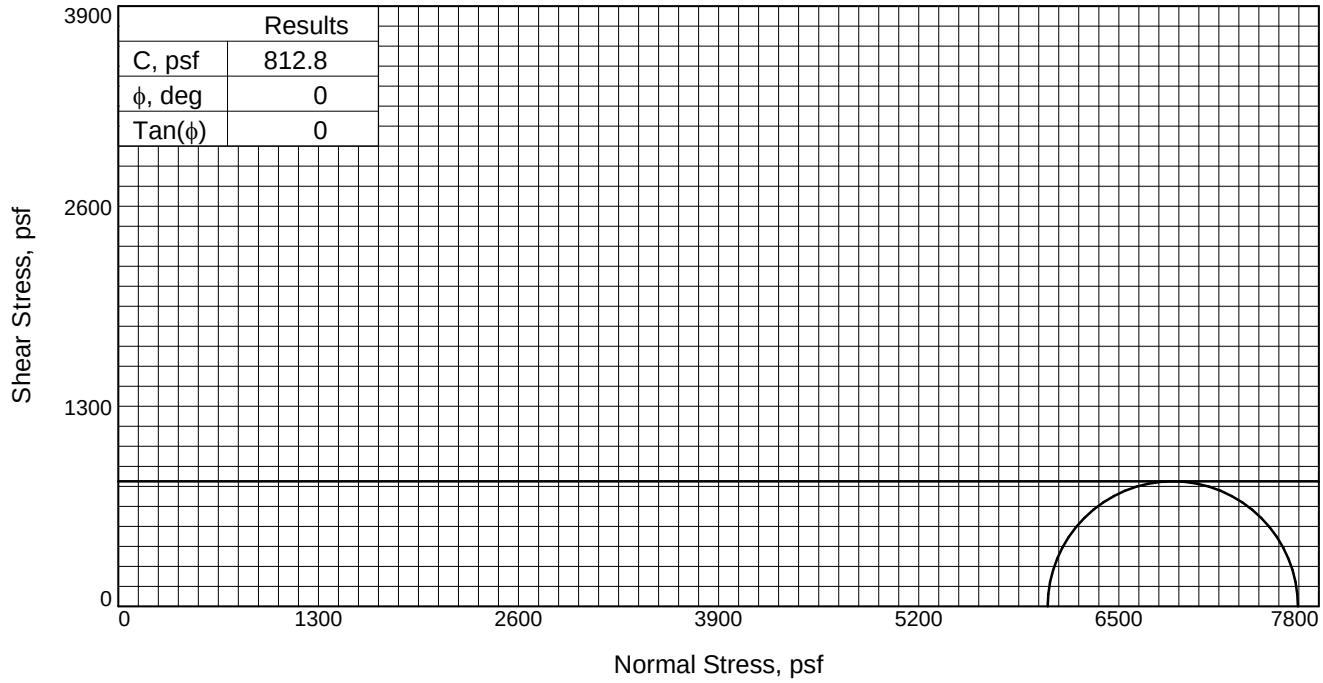
Client: ALDOT

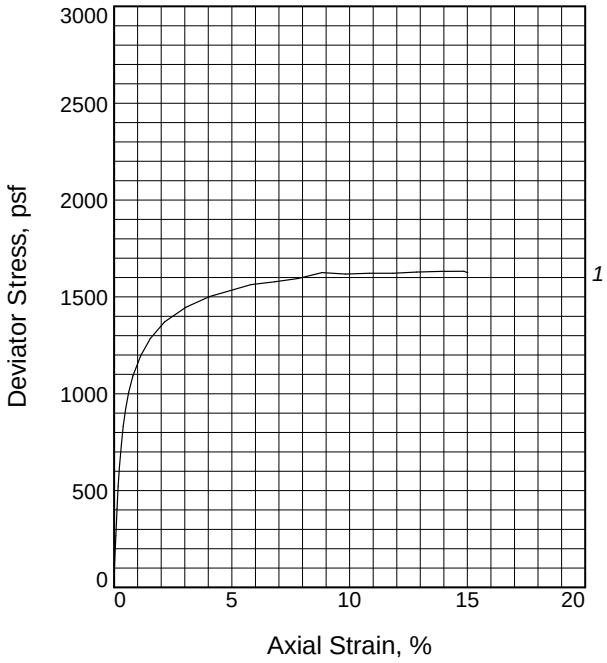
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 103.5'-105.5' **Sample Number:** BW-112 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	22.4
	Dry Density, pcf	105.4
	Saturation, %	103.5
	Void Ratio	0.5749
	Diameter, in.	2.854
	Height, in.	5.338
At Test	Water Content, %	23.8
	Dry Density, pcf	105.4
	Saturation, %	110.1
	Void Ratio	0.5749
	Diameter, in.	2.854
	Height, in.	5.338
Strain at peak, %		8.8
Back Pressure, psf		0.0
Cell Pressure, psf		6037.9
Fail. Stress, psf		1625.7
Strain, %		8.8
Ult. Stress, psf		1625.7
Strain, %		8.8
σ_1 Failure, psf		7663.6
σ_3 Failure, psf		6037.9

Type of Test: Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(19))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 123.0'-125.0'

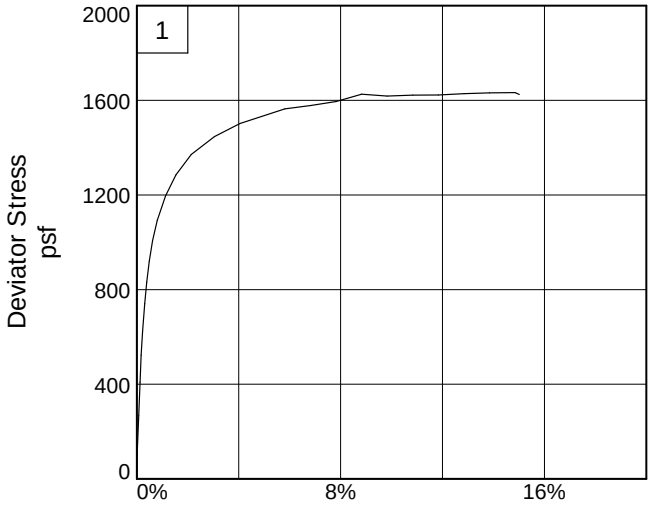
Sample Number: BW-112 T-3

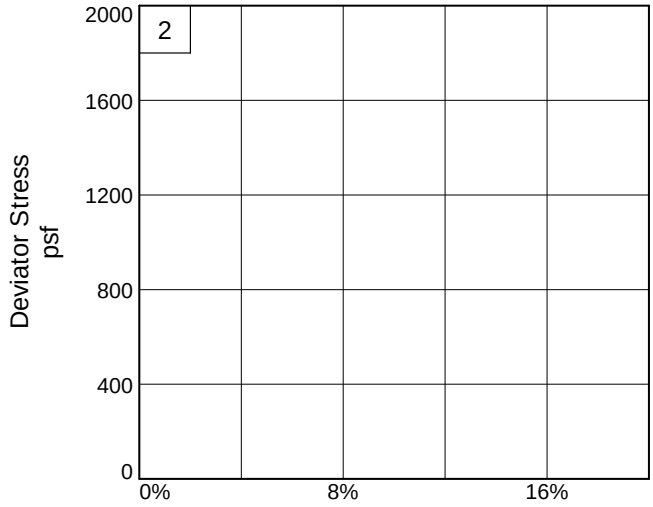
Proj. No.: 1511010228 **Date Sampled:**

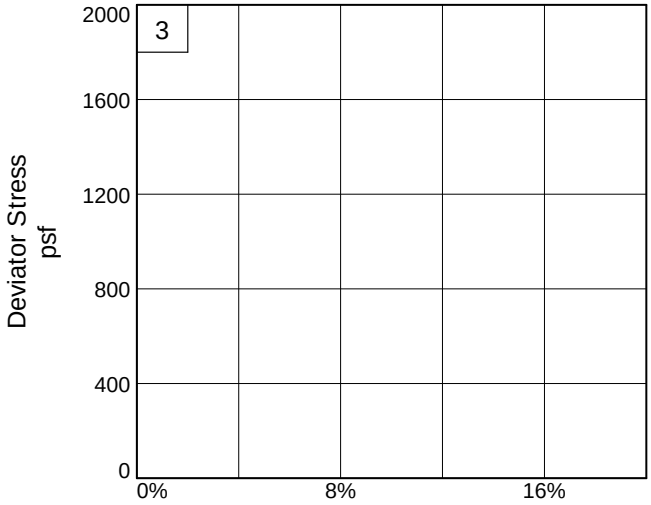
TRIAXIAL SHEAR TEST REPORT

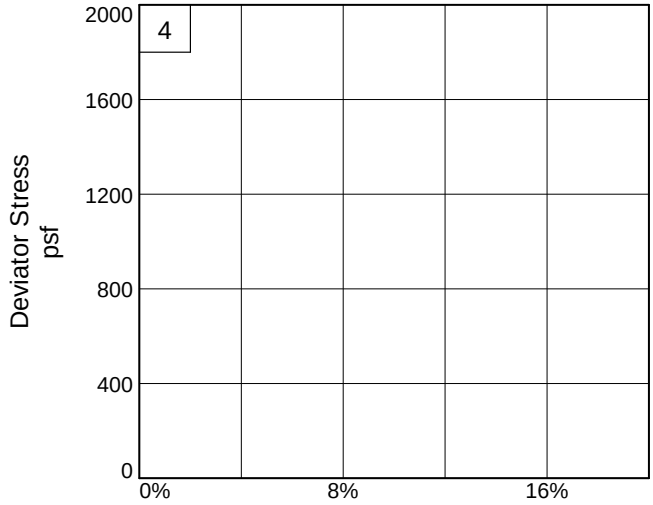
Thompson Engineering

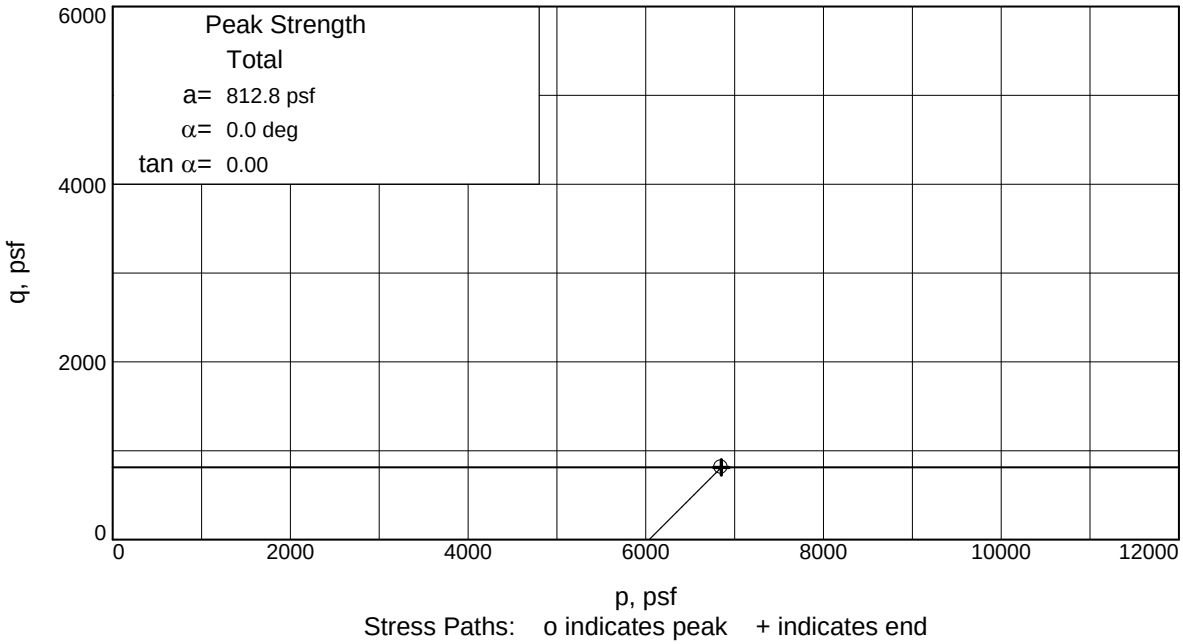
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

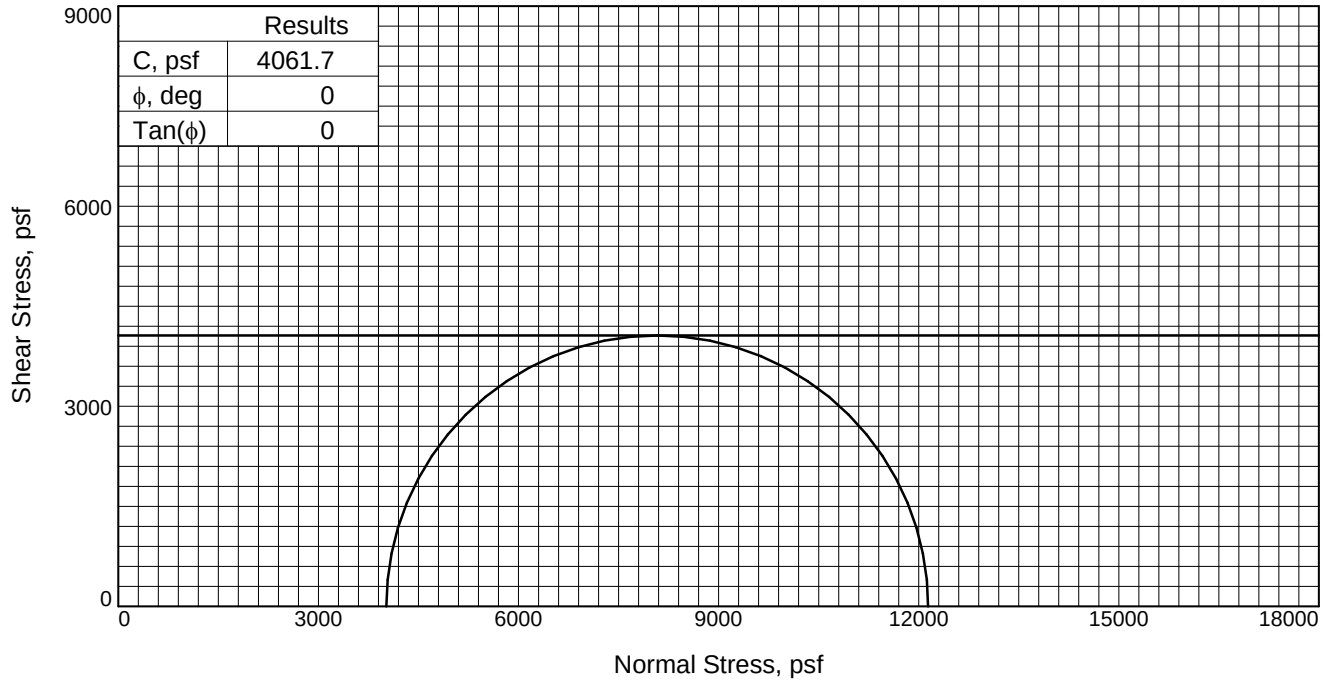
Client: ALDOT

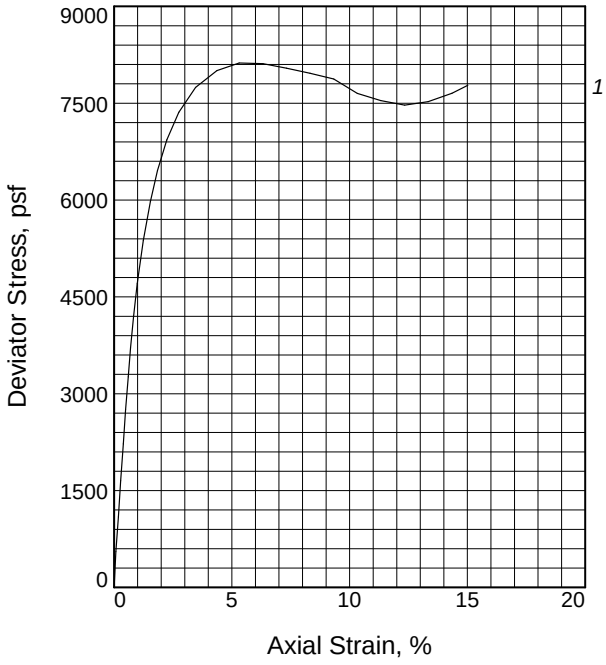
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 123.0'-125.0' **Sample Number:** BW-112 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	24.1
	Dry Density, pcf	106.3
	Saturation, %	114.1
	Void Ratio	0.5616
	Diameter, in.	2.870
	Height, in.	5.574
At Test	Water Content, %	19.1
	Dry Density, pcf	106.3
	Saturation, %	90.4
	Void Ratio	0.5616
	Diameter, in.	2.870
	Height, in.	5.574
Strain at peak, %		5.3
Back Pressure, psf		0.0
Cell Pressure, psf		4017.6
Fail. Stress, psf		8123.3
Strain, %		5.3
Ult. Stress, psf		8123.3
Strain, %		5.3
σ_1 Failure, psf		12140.9
σ_3 Failure, psf		4017.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(31))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

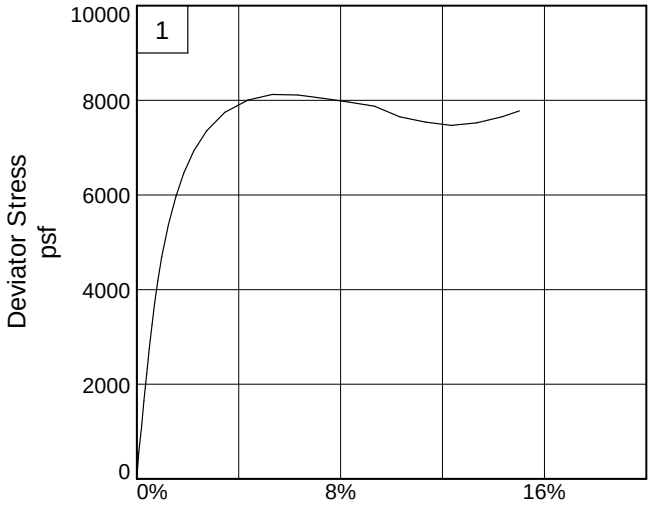
Source of Sample: Lab #8099 **Depth:** 83.0'-85.0'

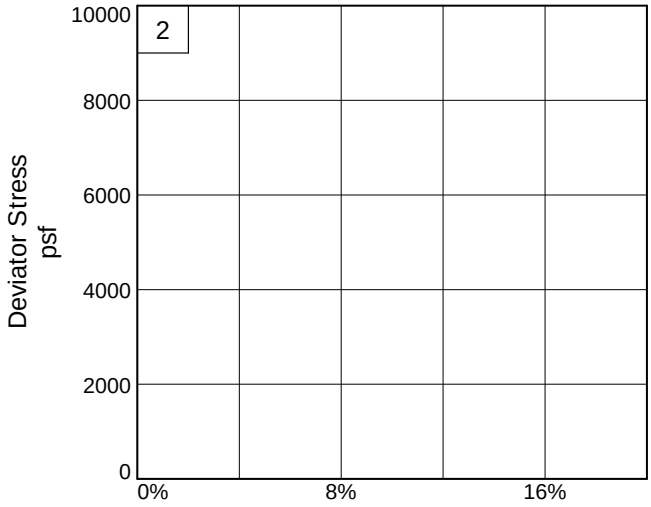
Sample Number: BW-113 T-1

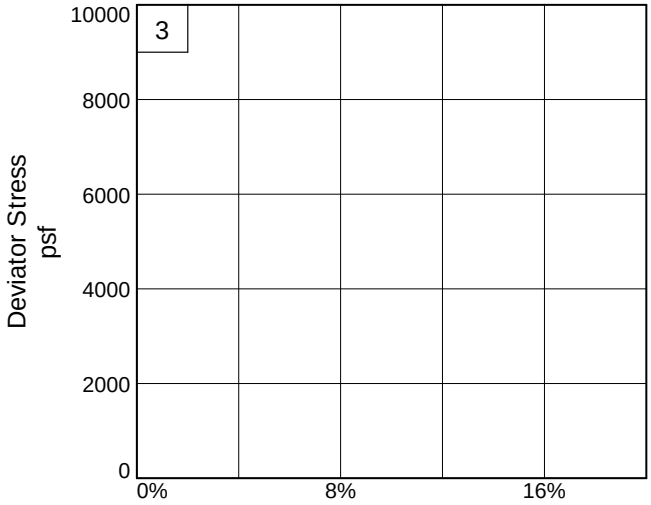
Proj. No.: 1511010228 **Date Sampled:**

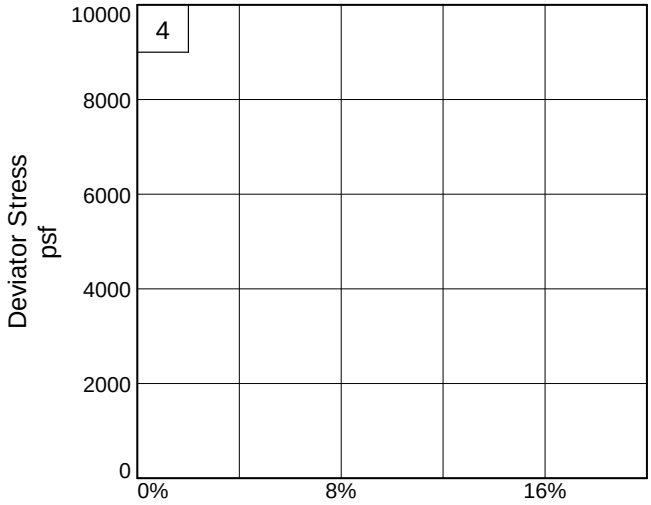
TRIAXIAL SHEAR TEST REPORT

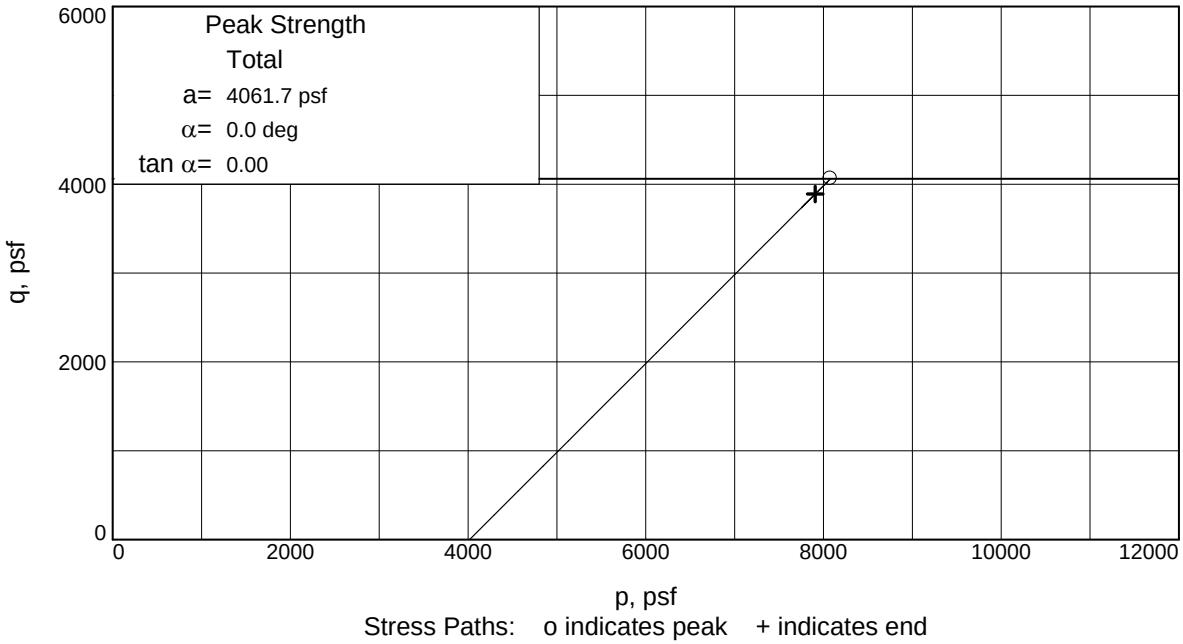
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

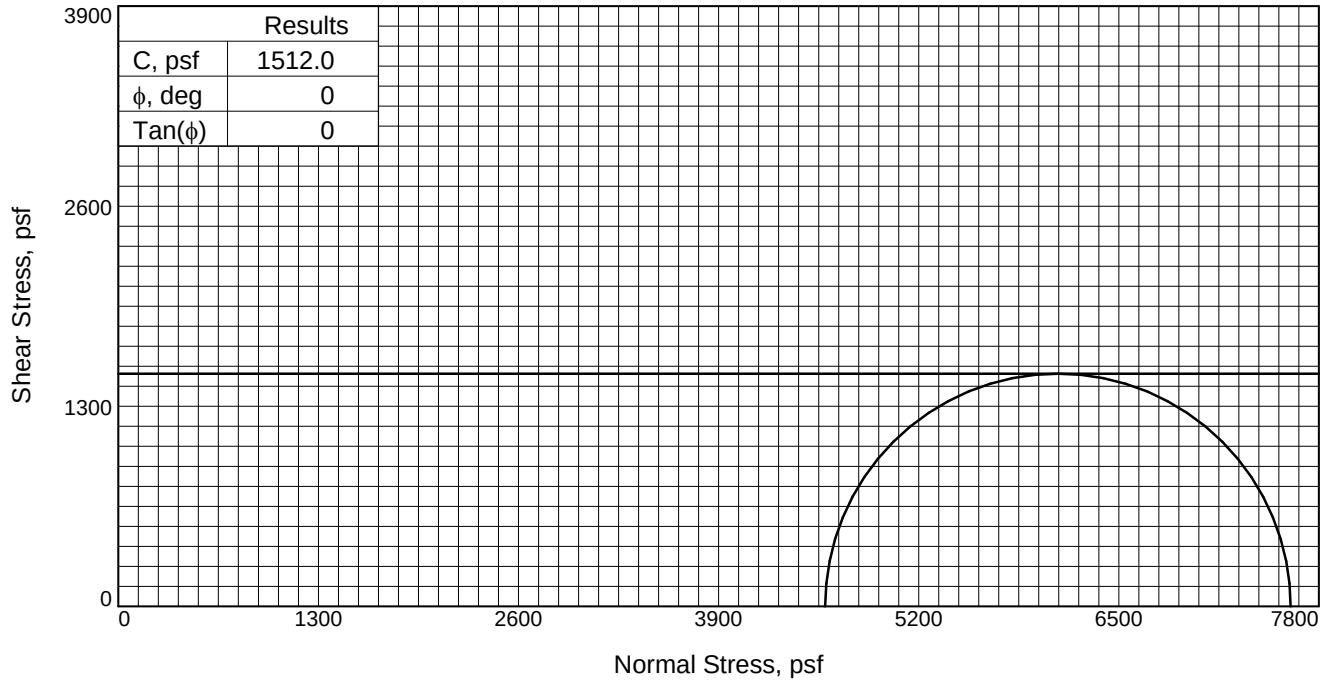
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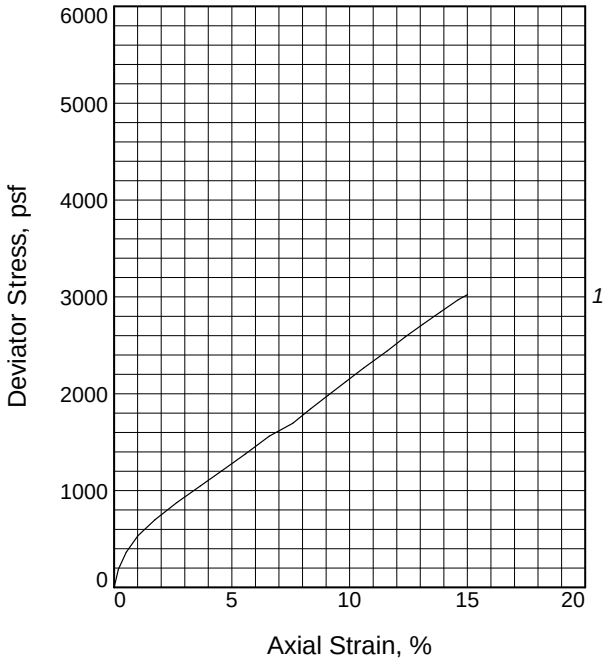
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 83.0'-85.0' **Sample Number:** BW-113 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	25.3
	Dry Density, pcf	104.5
	Saturation, %	114.4
	Void Ratio	0.5887
	Diameter, in.	2.878
	Height, in.	5.185
At Test	Water Content, %	21.1
	Dry Density, pcf	104.5
	Saturation, %	95.5
	Void Ratio	0.5887
	Diameter, in.	2.878
	Height, in.	5.185
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		4592.2
Fail. Stress, psf		3023.9
Strain, %		15.0
Ult. Stress, psf		3023.9
Strain, %		15.0
σ_1 Failure, psf		7616.1
σ_3 Failure, psf		4592.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SILTY SAND(SM A-4(0))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

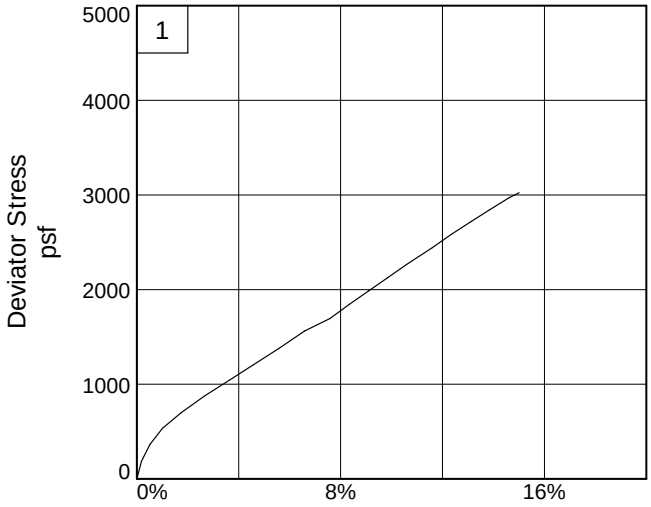
Source of Sample: Lab #8099 **Depth:** 93.5'-95.5'

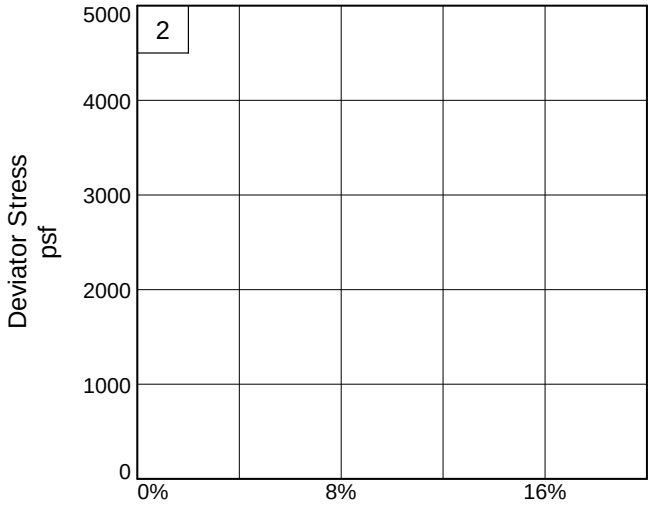
Sample Number: BW-113 T-2

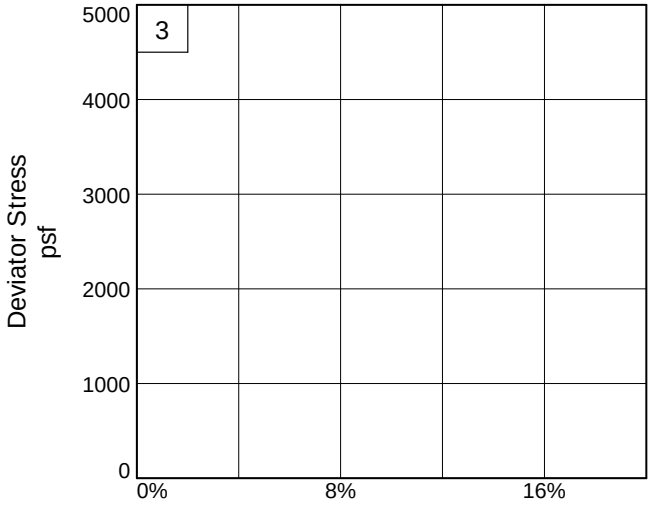
Proj. No.: 1511010228 **Date Sampled:**

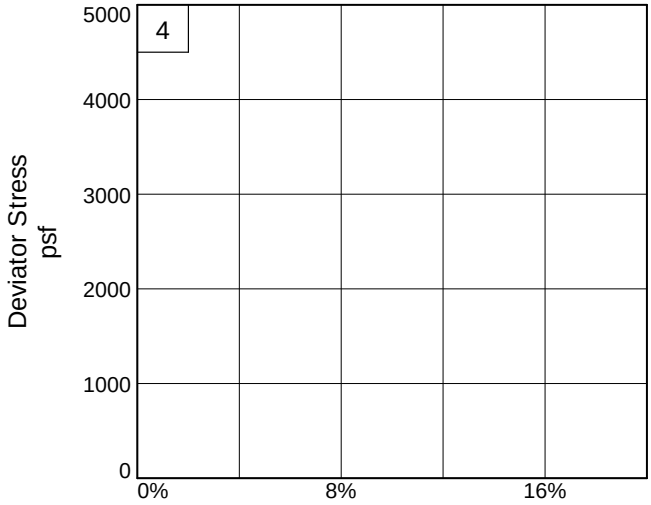
TRIAXIAL SHEAR TEST REPORT

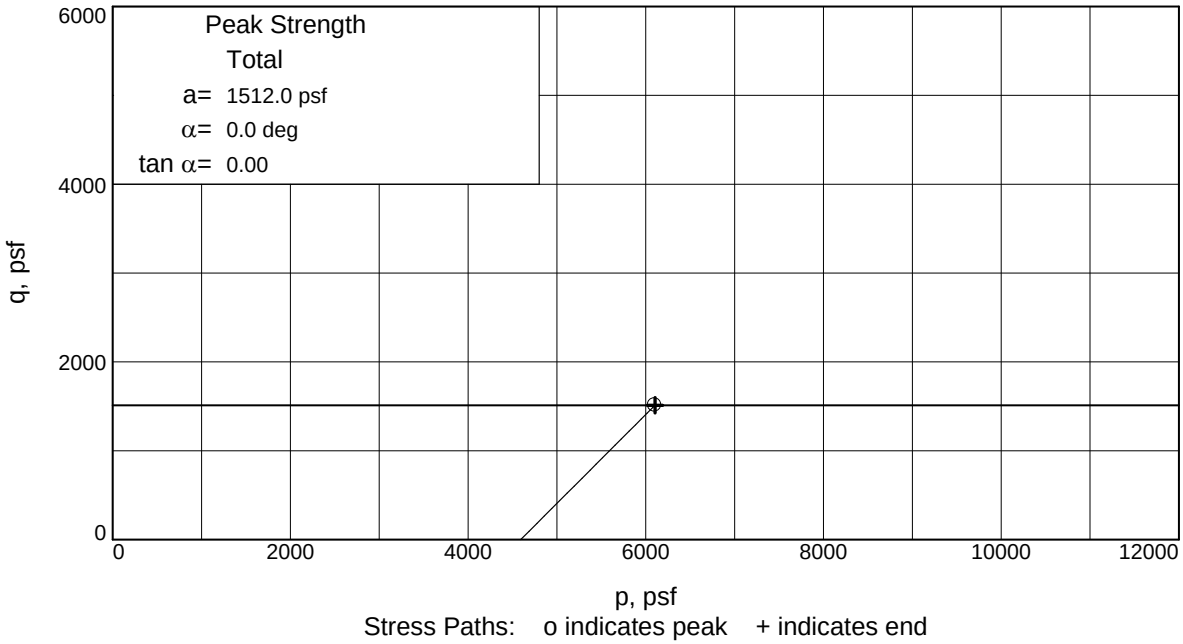
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

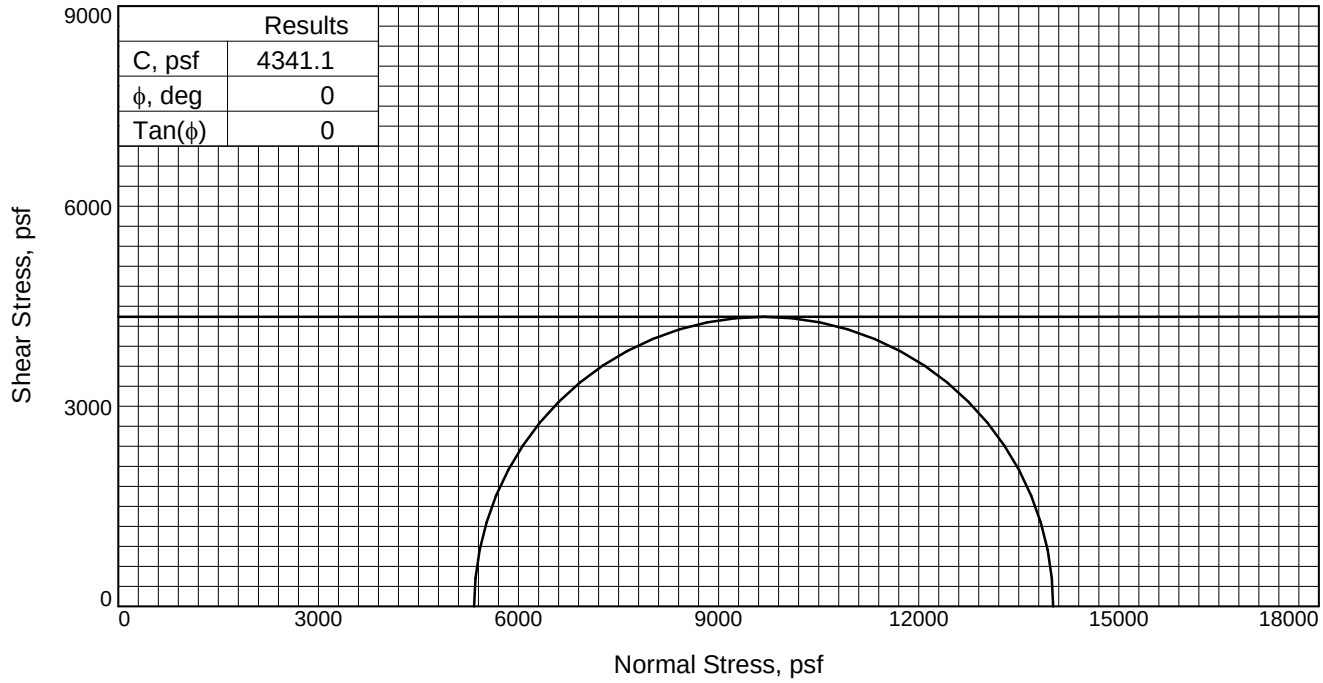
Client: ALDOT

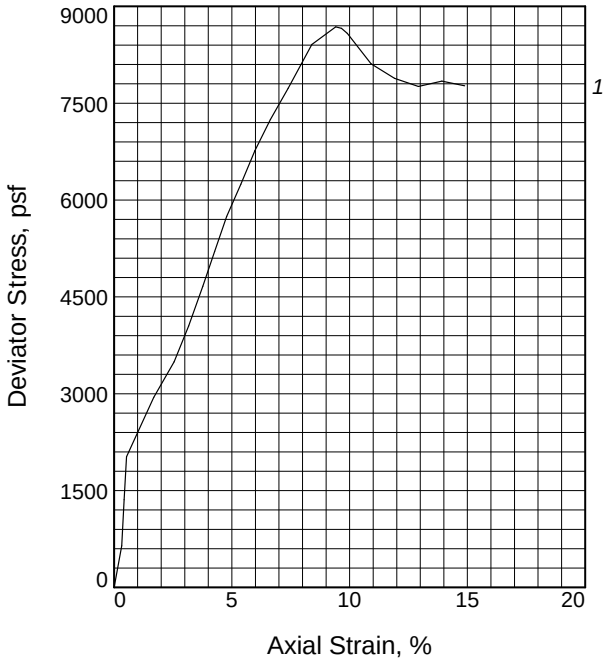
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 93.5'-95.5' **Sample Number:** BW-113 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	22.1
	Dry Density, pcf	106.8
	Saturation, %	106.0
	Void Ratio	0.5550
	Diameter, in.	2.856
	Height, in.	5.345
At Test	Water Content, %	23.1
	Dry Density, pcf	106.8
	Saturation, %	110.9
	Void Ratio	0.5550
	Diameter, in.	2.856
	Height, in.	5.345
Strain at peak, %		9.4
Back Pressure, psf		0.0
Cell Pressure, psf		5333.8
Fail. Stress, psf		8682.2
Strain, %		9.4
Ult. Stress, psf		8682.2
Strain, %		9.4
σ_1 Failure, psf		14016.0
σ_3 Failure, psf		5333.8

Type of Test: Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(44))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 108.5'-110.5'

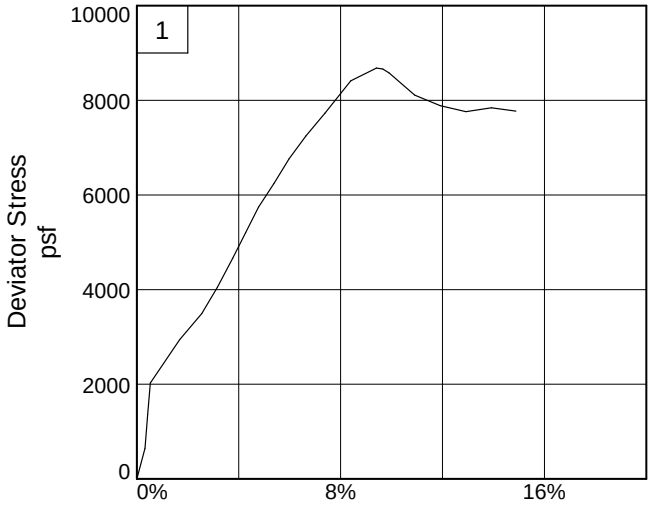
Sample Number: BW-113 T-3

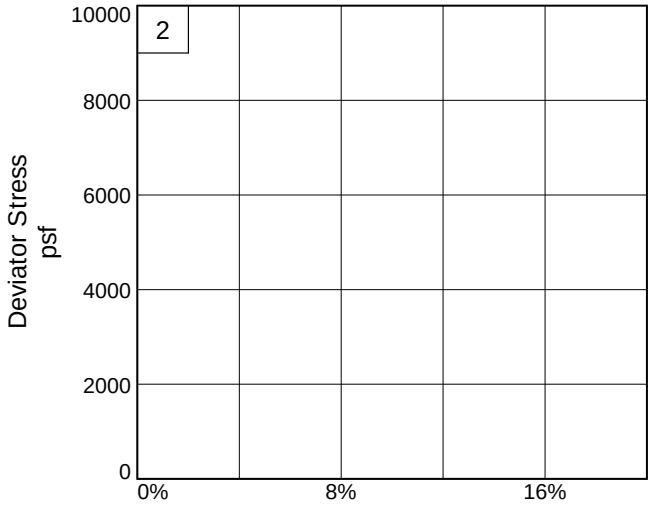
Proj. No.: 1511010228 **Date Sampled:**

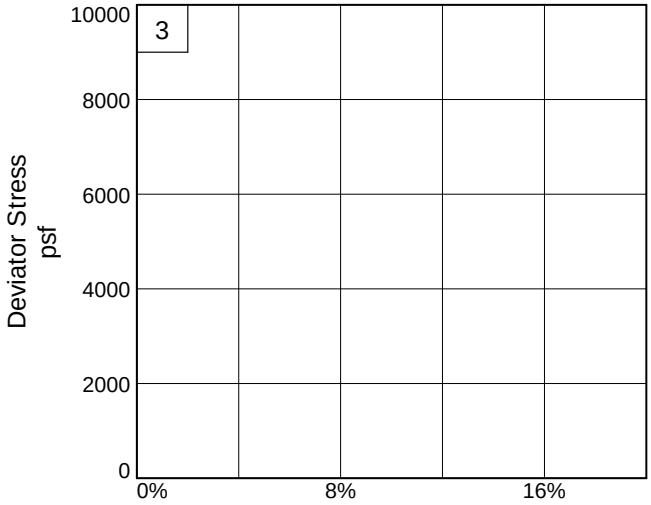
TRIAXIAL SHEAR TEST REPORT

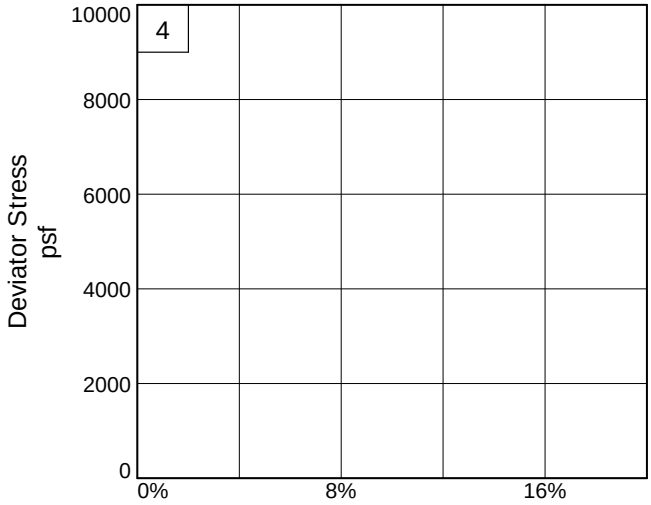
Thompson Engineering

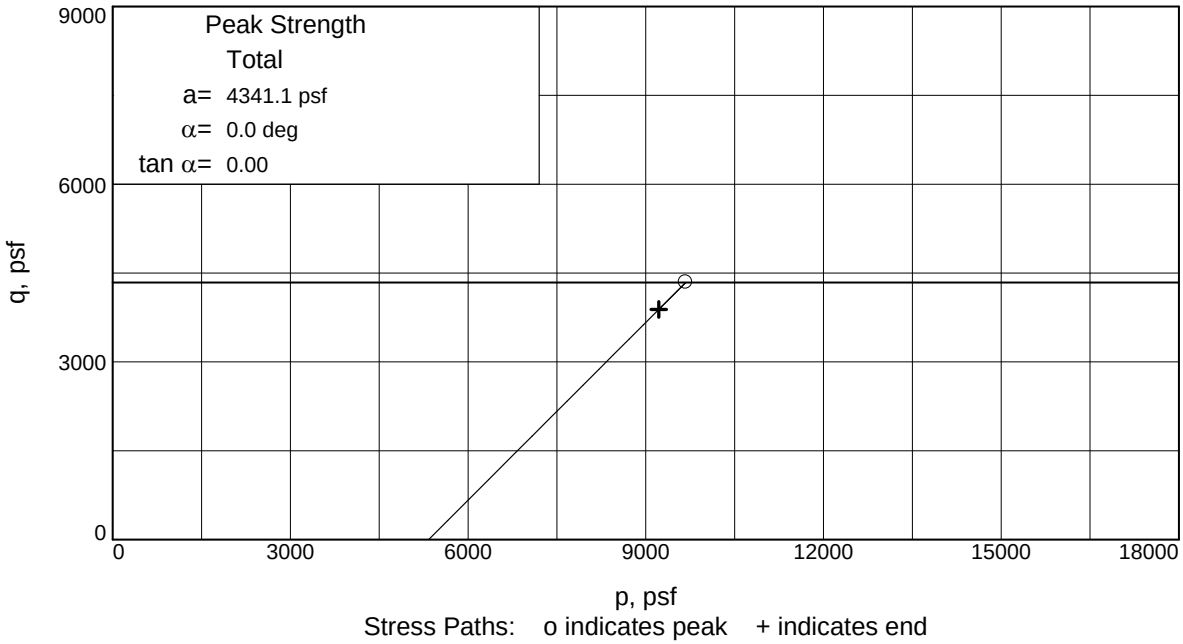
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

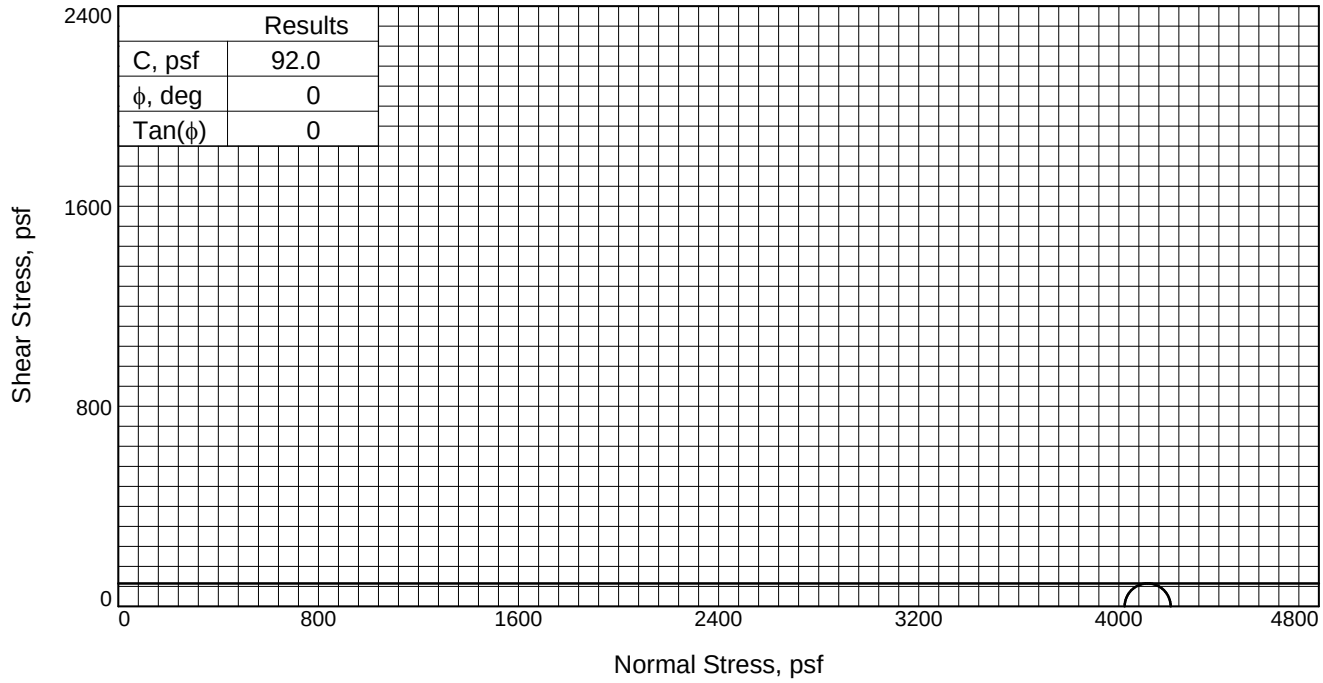
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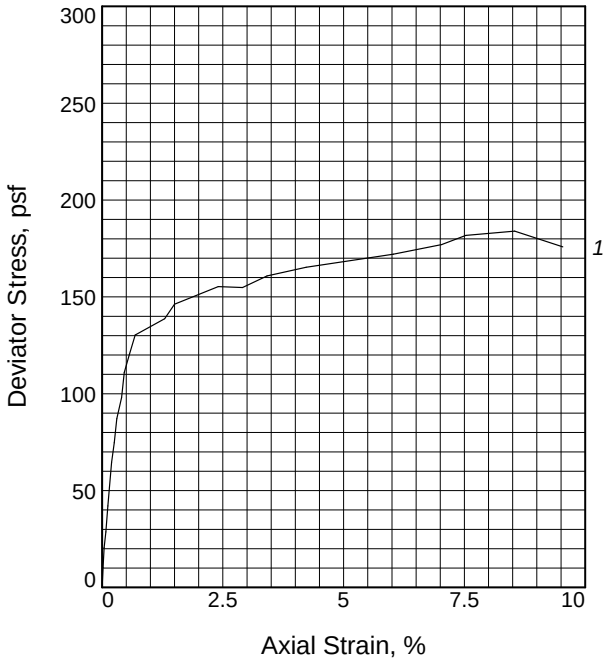
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 108.5'-110.5' **Sample Number:** BW-113 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	33.3
	Dry Density, pcf	91.5
	Saturation, %	108.6
	Void Ratio	0.8145
	Diameter, in.	2.821
	Height, in.	5.218
At Test	Water Content, %	34.4
	Dry Density, pcf	91.5
	Saturation, %	112.3
	Void Ratio	0.8145
	Diameter, in.	2.821
	Height, in.	5.218
Strain at peak, %		8.5
Back Pressure, psf		0.0
Cell Pressure, psf		4023.4
Fail. Stress, psf		183.9
Strain, %		8.5
Ult. Stress, psf		183.9
Strain, %		8.5
σ_1 Failure, psf		4207.3
σ_3 Failure, psf		4023.4

Type of Test: Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-7-6(21))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 83.5'-85.5'

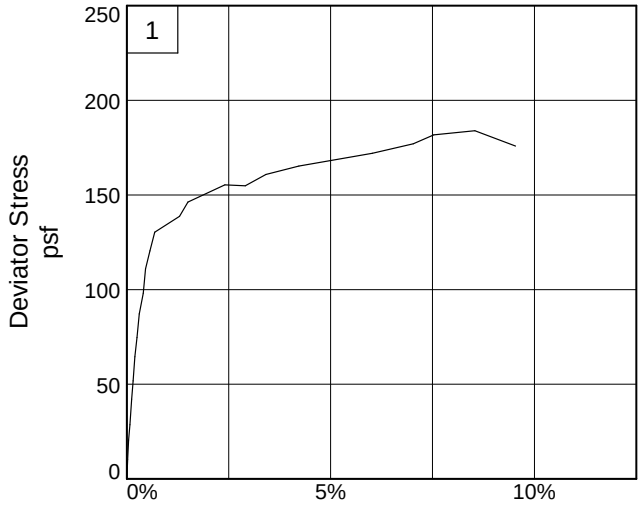
Sample Number: BW-114 T-1

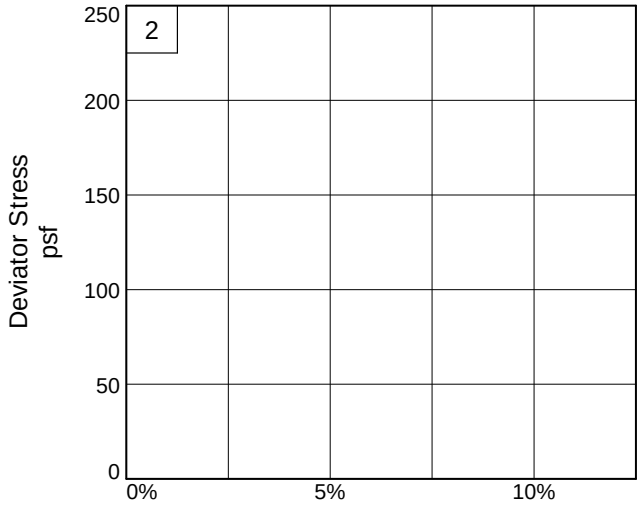
Proj. No.: 1511010228 **Date Sampled:**

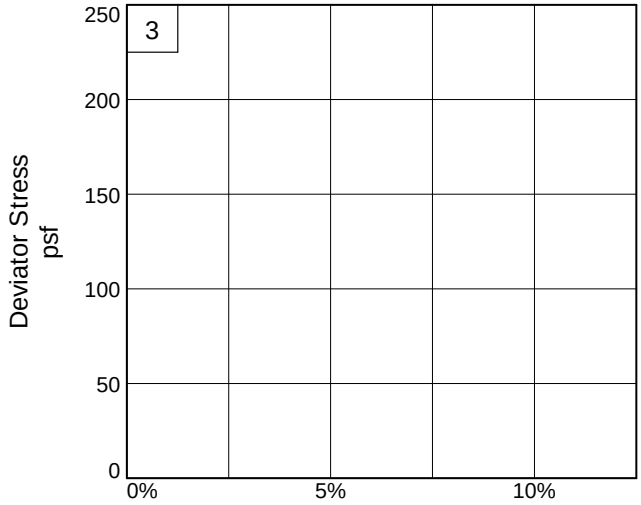
TRIAXIAL SHEAR TEST REPORT

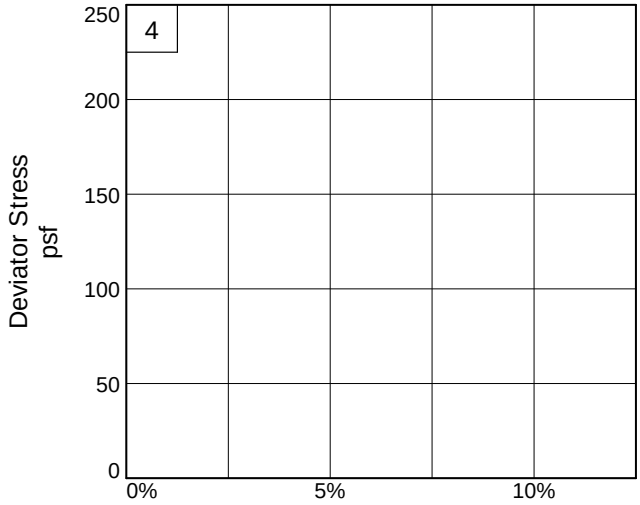
Thompson Engineering

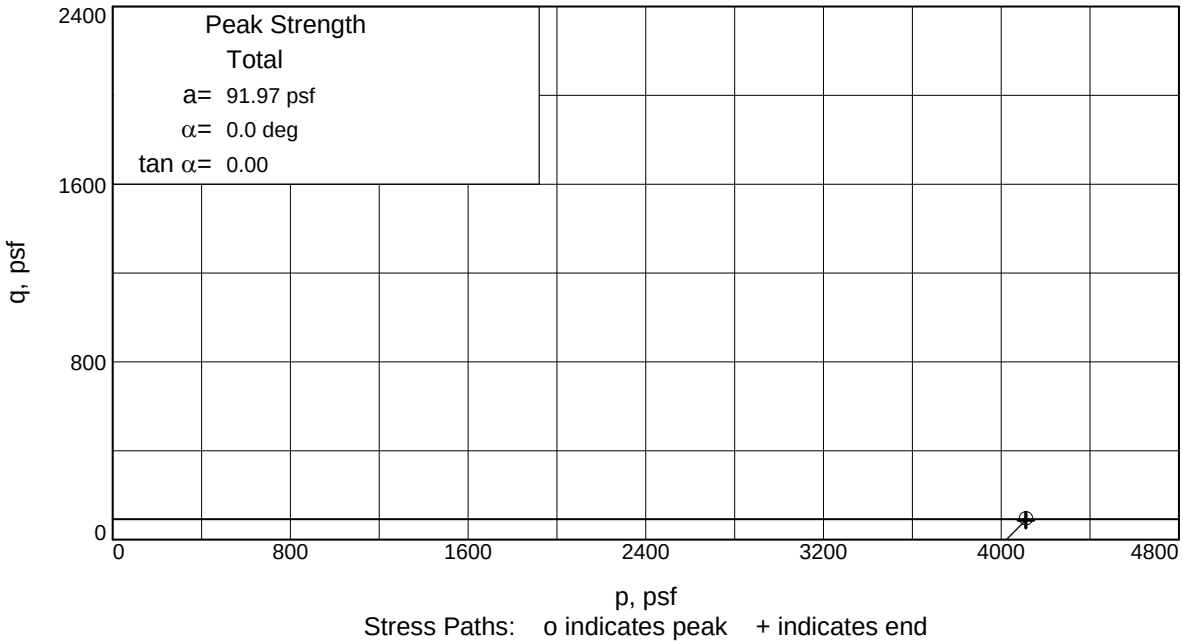
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

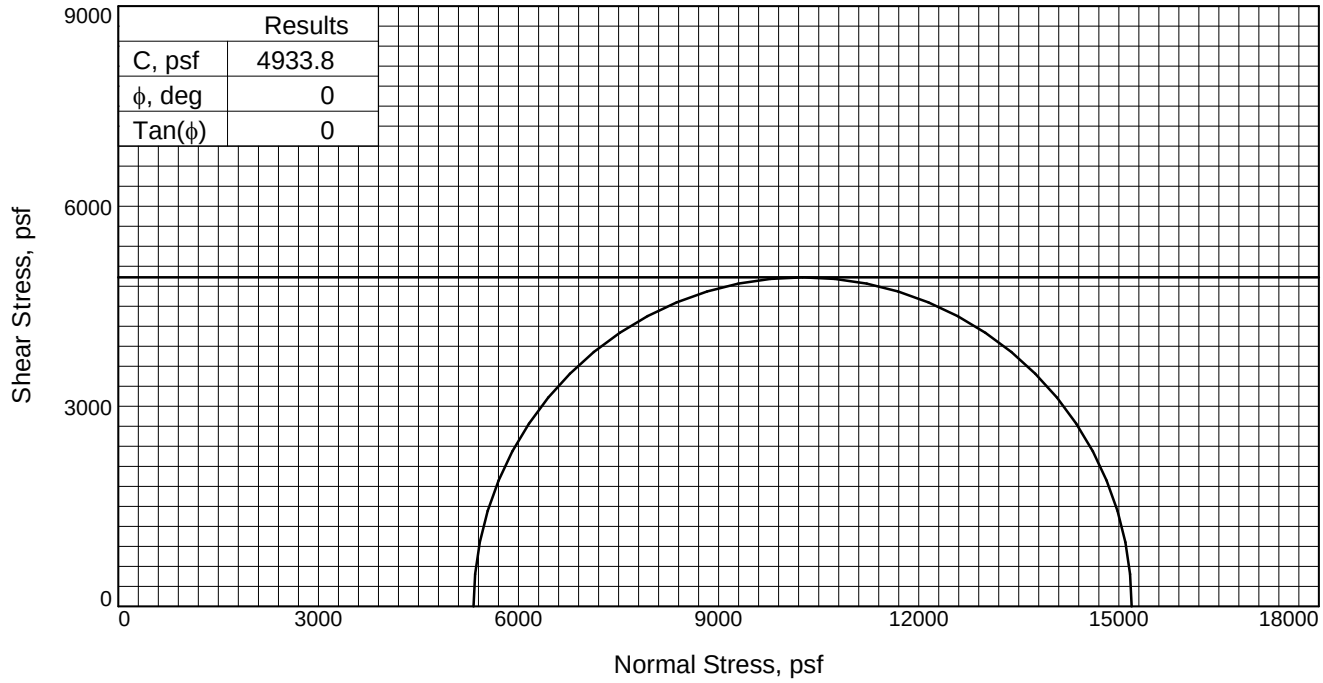
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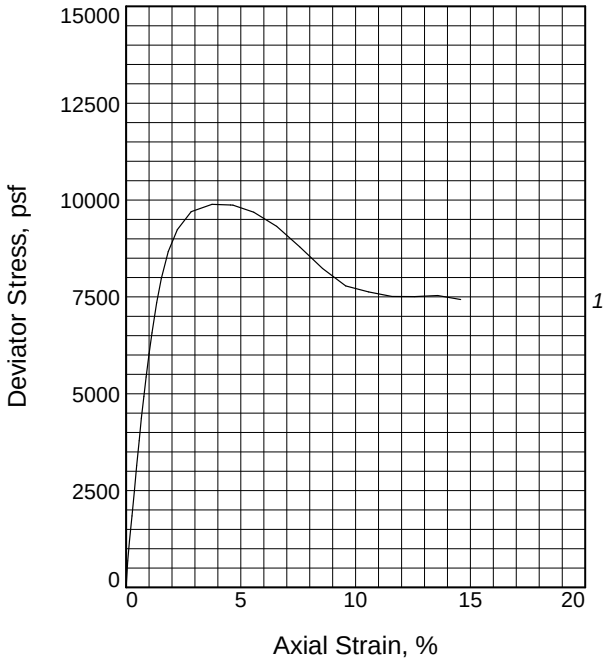
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 83.5'-85.5' **Sample Number:** BW-114 T-1

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	69.5
	Dry Density, pcf	77.6
	Saturation, %	161.9
	Void Ratio	1.1411
	Diameter, in.	2.882
	Height, in.	5.556
At Test	Water Content, %	19.2
	Dry Density, pcf	77.6
	Saturation, %	44.9
	Void Ratio	1.1411
	Diameter, in.	2.882
	Height, in.	5.556
Strain at peak, %		4.7
Back Pressure, psf		0.0
Cell Pressure, psf		5325.1
Fail. Stress, psf		9867.6
Strain, %		4.7
Ult. Stress, psf		9867.6
Strain, %		4.7
σ_1 Failure, psf		15192.7
σ_3 Failure, psf		5325.1

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-7-6(23))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

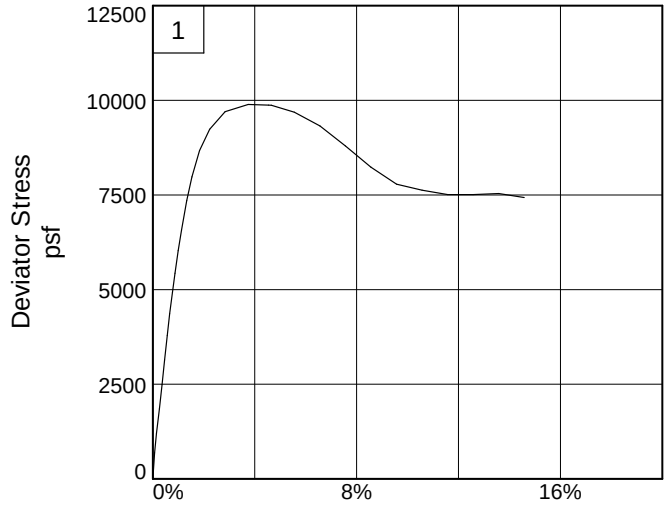
Source of Sample: Lab #8099 **Depth:** 108.5'-110.5'

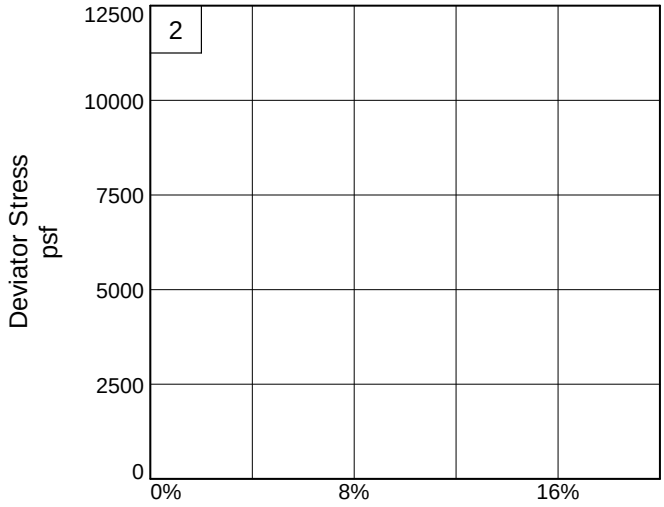
Sample Number: BW-114 T-3

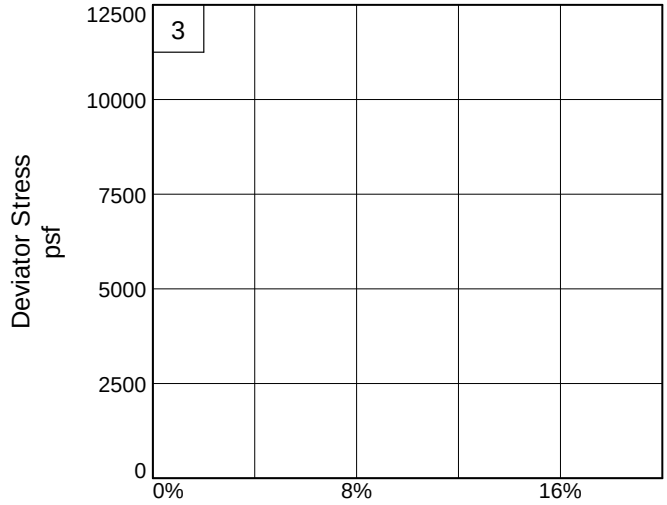
Proj. No.: 1511010228 **Date Sampled:**

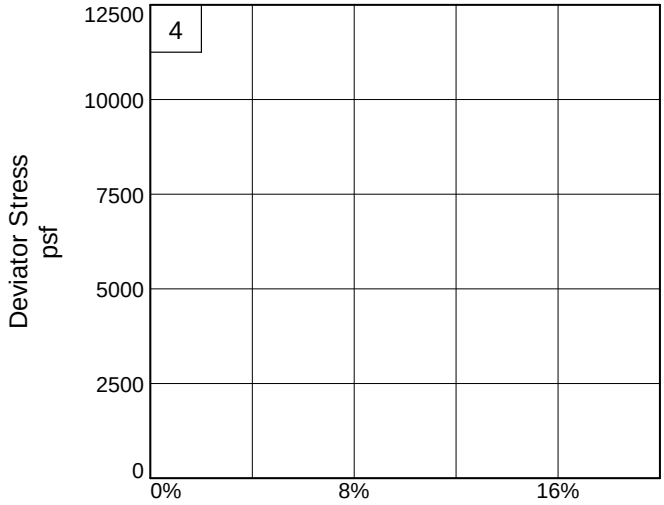
TRIAXIAL SHEAR TEST REPORT

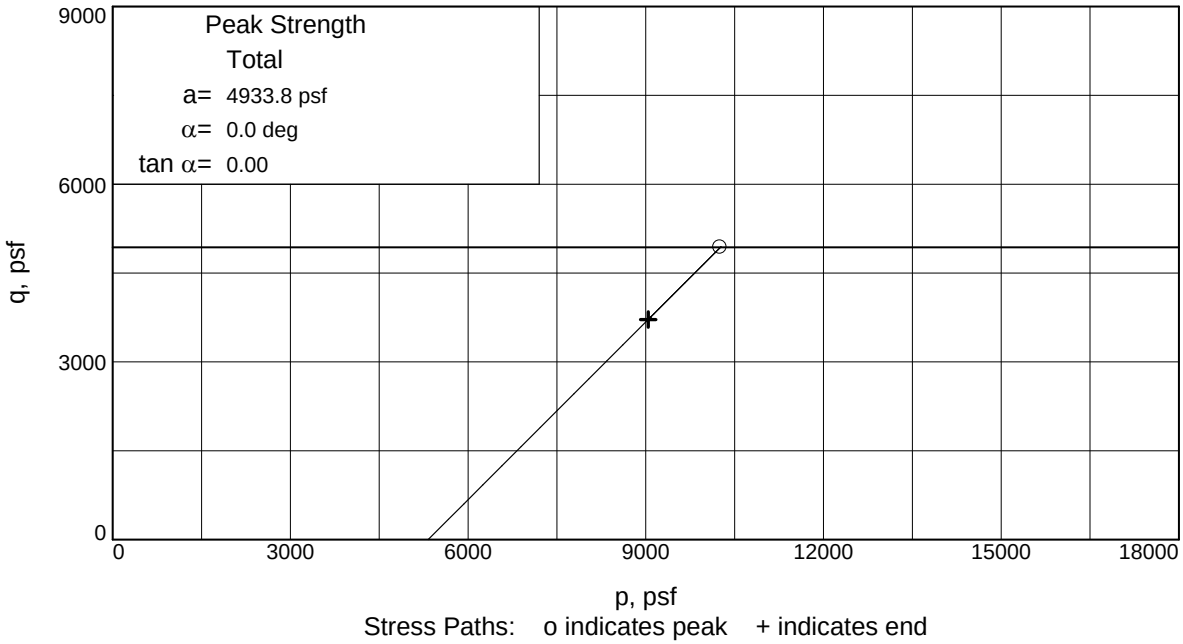
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

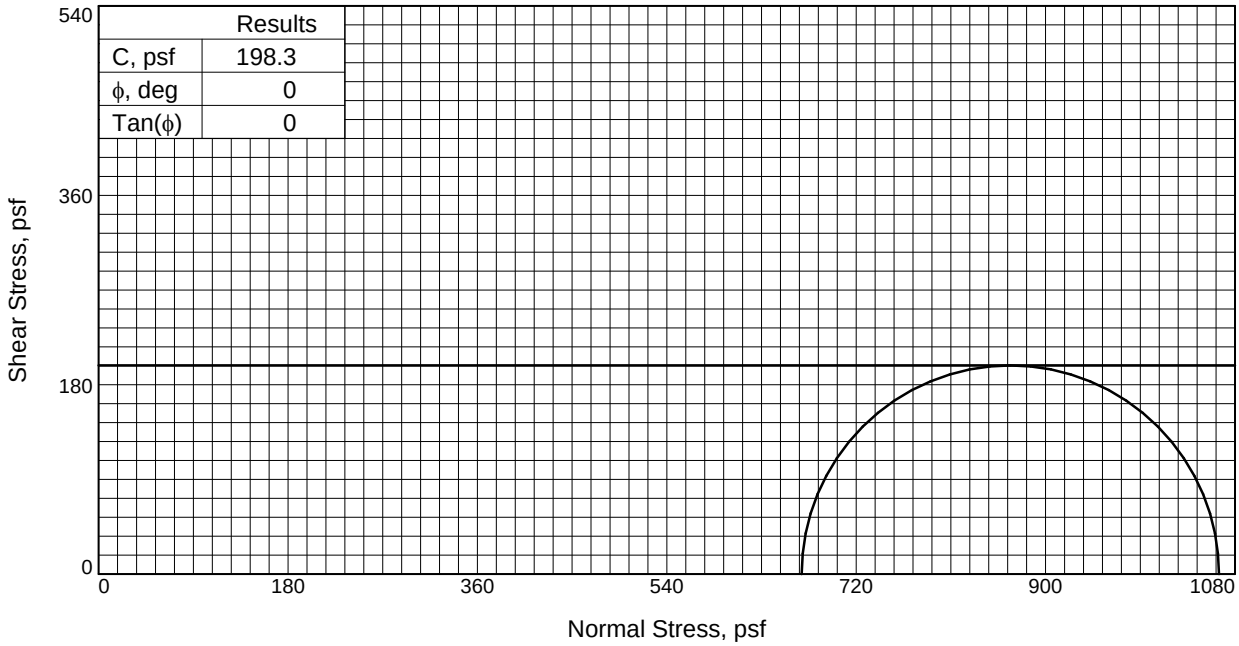
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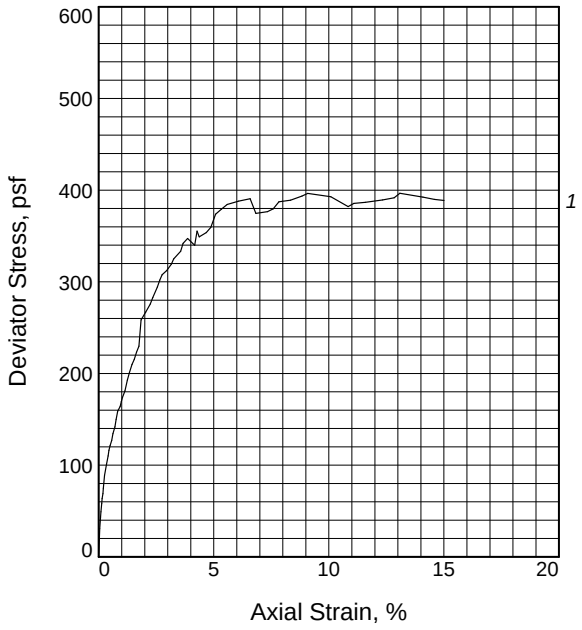
Project: Mobile River Bridge

Source of Sample: Lab #8099 **Depth:** 108.5'-110.5' **Sample Number:** BW-114 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	32.9
	Dry Density, pcf	93.9
	Saturation, %	113.9
	Void Ratio	0.7691
	Diameter, in.	2.820
	Height, in.	5.453
At Test	Water Content, %	32.6
	Dry Density, pcf	93.9
	Saturation, %	112.7
	Void Ratio	0.7691
	Diameter, in.	2.820
	Height, in.	5.453
Strain at peak, %		13.1
Back Pressure, psf		0.0
Cell Pressure, psf		668.2
Fail. Stress, psf		396.6
Strain, %		13.1
Ult. Stress, psf		396.6
Strain, %		13.1
σ_1 Failure, psf		1064.8
σ_3 Failure, psf		668.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(4))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

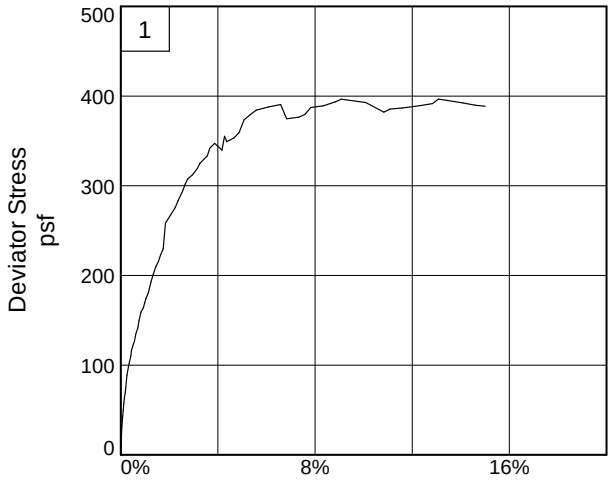
Project: Mobile River Bridge

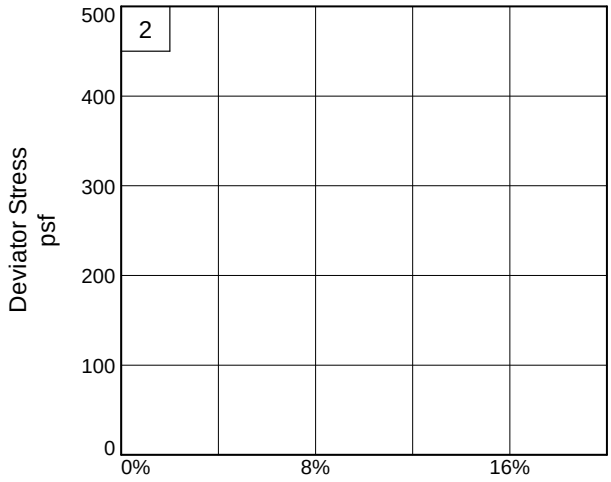
Source of Sample: 1/27/16 **Depth:** 13.0'-15.0'

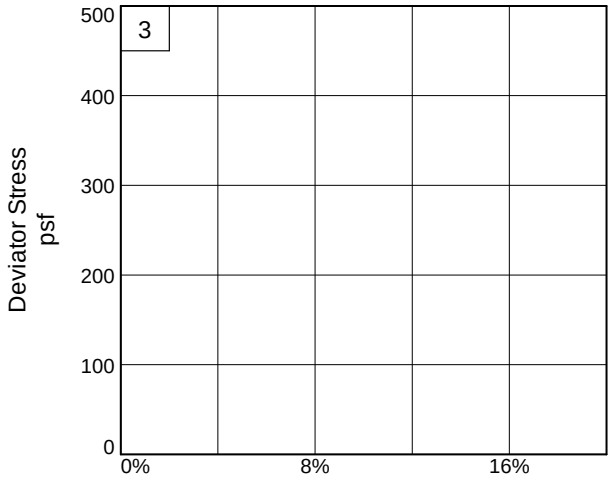
Sample Number: BW-115 T-2

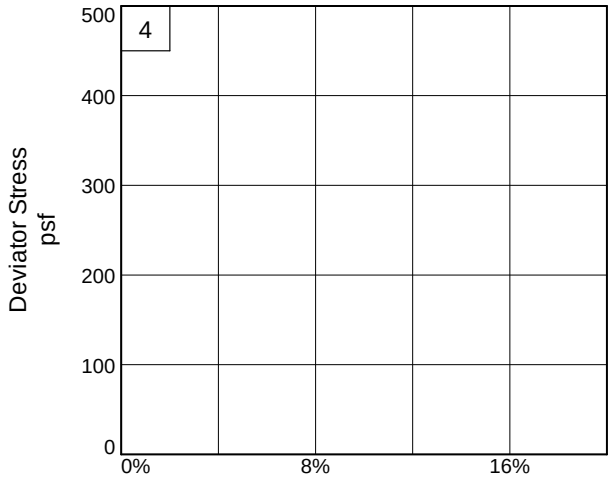
Proj. No.: 1511010228 **Date Sampled:**

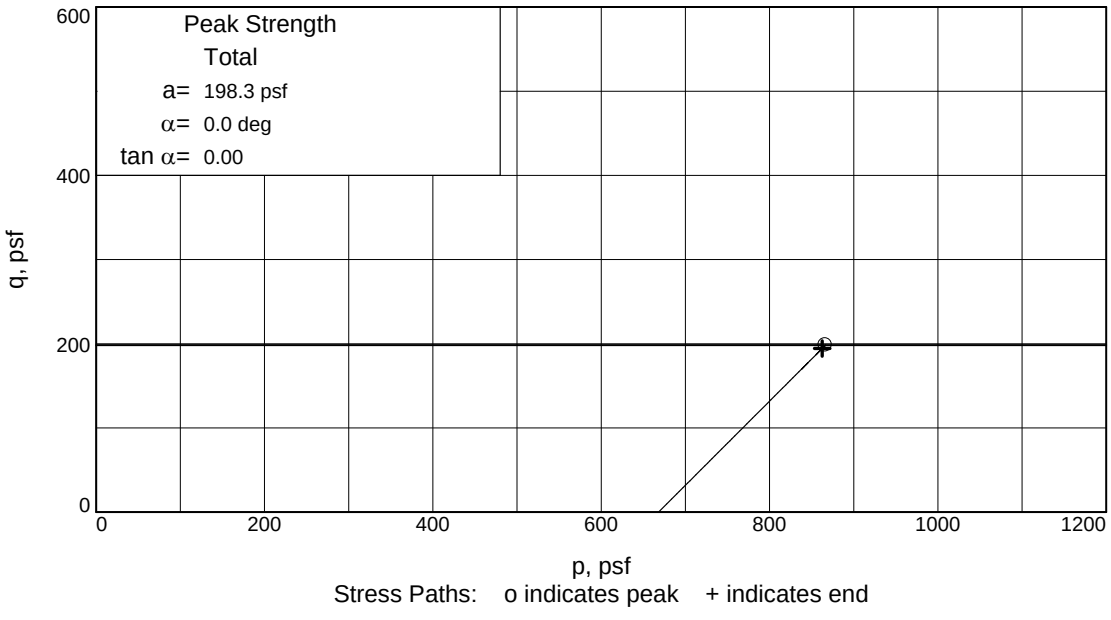
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Thompson Engineering
Mobile, Alabama





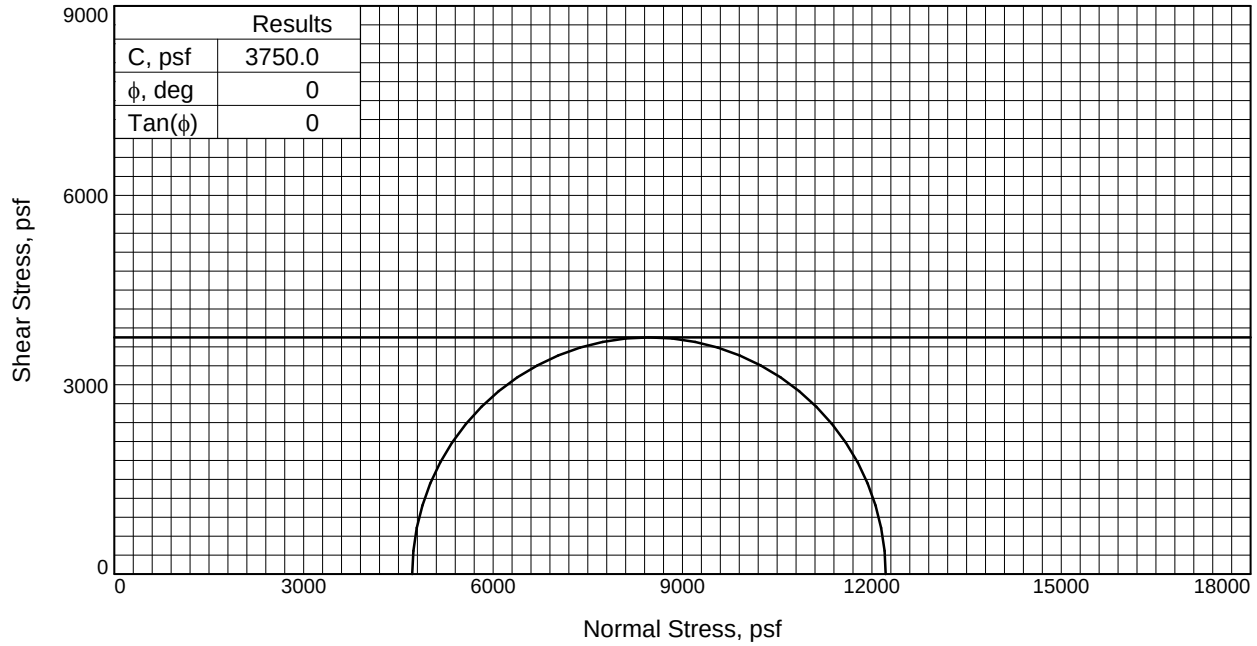


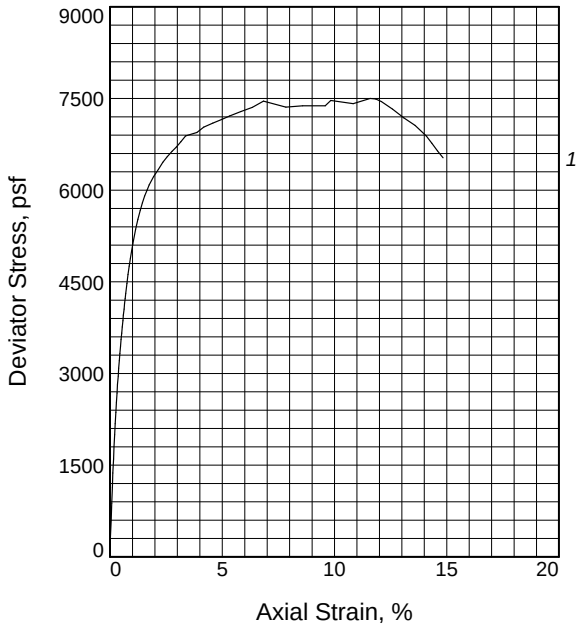




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 13.0'-15.0' **Sample Number:** BW-115 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	27.9
	Dry Density, pcf	98.8
	Saturation, %	109.3
	Void Ratio	0.6800
	Diameter, in.	2.839
	Height, in.	5.628
At Test	Water Content, %	27.1
	Dry Density, pcf	98.8
	Saturation, %	106.2
	Void Ratio	0.6800
	Diameter, in.	2.839
	Height, in.	5.628
Strain at peak, %		11.6
Back Pressure, psf		0.0
Cell Pressure, psf		4718.9
Fail. Stress, psf		7500.0
Strain, %		11.6
Ult. Stress, psf		7500.0
Strain, %		11.6
σ_1 Failure, psf		12218.9
σ_3 Failure, psf		4718.9

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: Yellow brown and pale brown, CLAY, with SAND

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

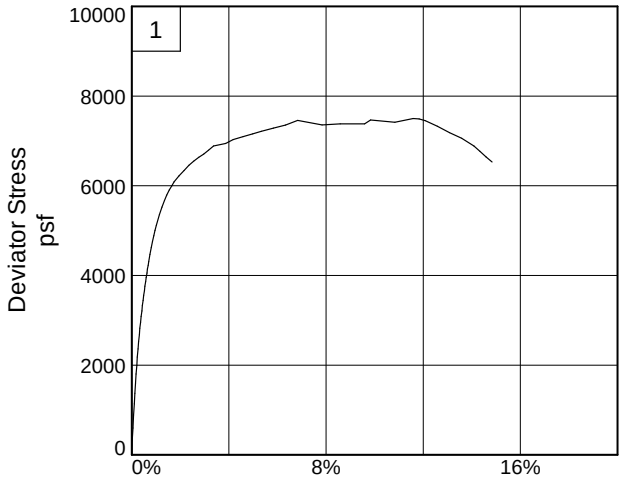
Project: Mobile River Bridge

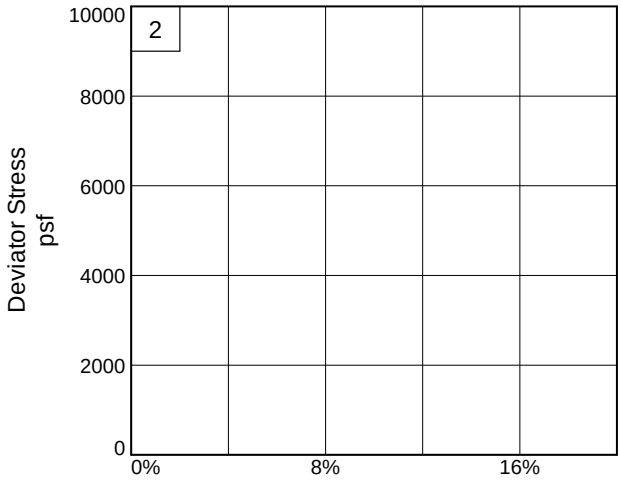
Source of Sample: 1/27/16 **Depth:** 100.0'-102.0'

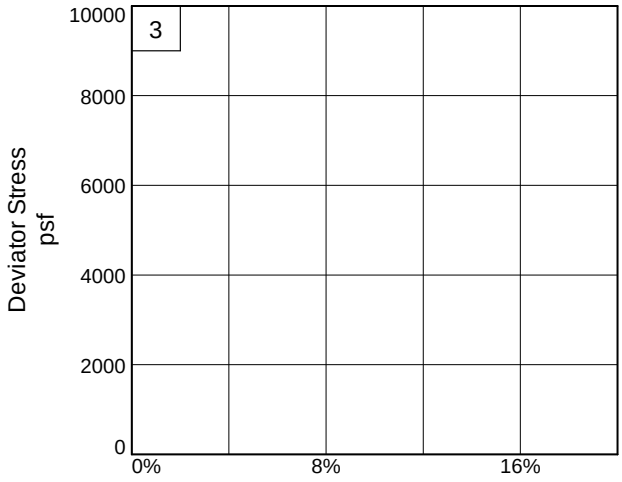
Sample Number: BW-115 T-4

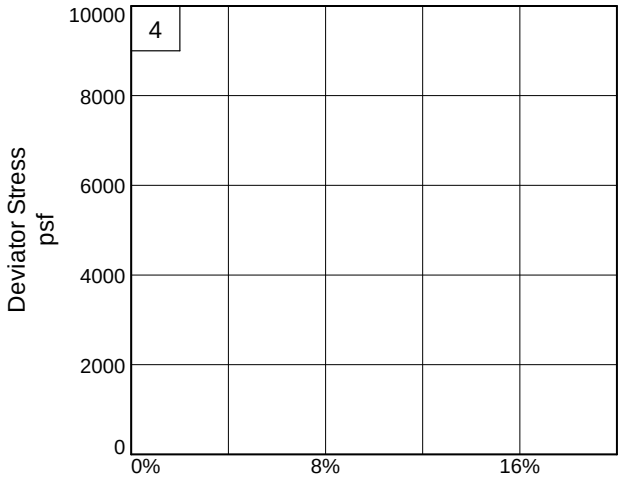
Proj. No.: 1511010228 **Date Sampled:**

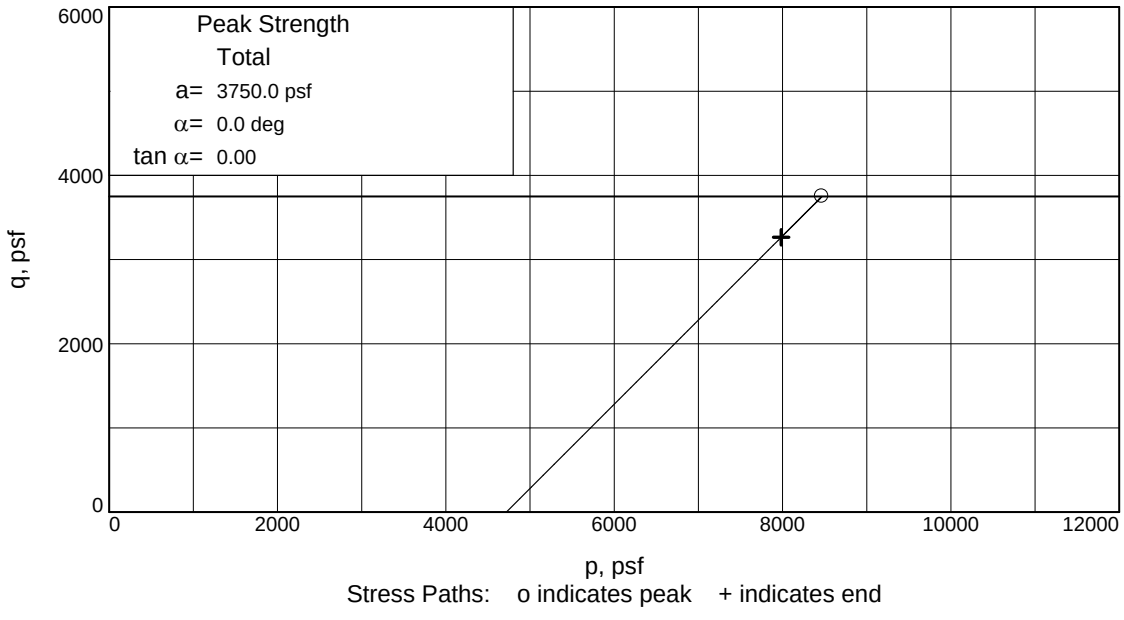
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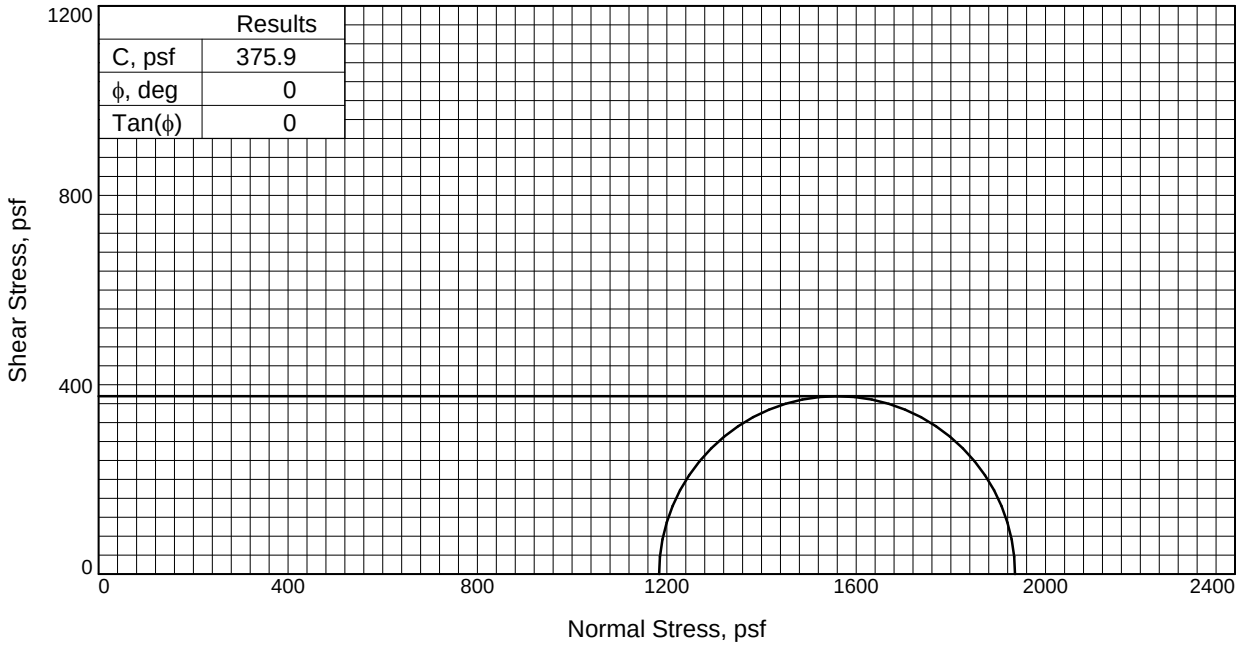


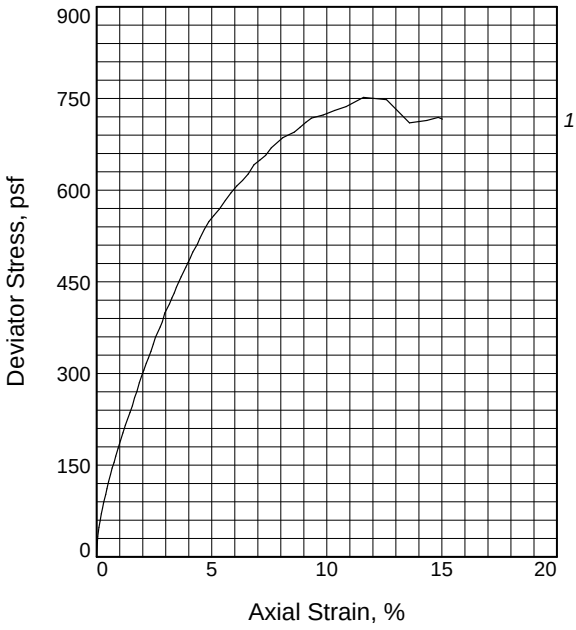


Stress Paths: o indicates peak + indicates end

Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 100.0'-102.0' **Sample Number:** BW-115 T-4
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	24.2
	Dry Density, pcf	105.0
	Saturation, %	110.6
	Void Ratio	0.5813
	Diameter, in.	2.849
	Height, in.	5.175
At Test	Water Content, %	25.6
	Dry Density, pcf	105.0
	Saturation, %	117.0
	Void Ratio	0.5813
	Diameter, in.	2.849
	Height, in.	5.175
Strain at peak, %		11.6
Back Pressure, psf		0.0
Cell Pressure, psf		1183.7
Fail. Stress, psf		751.8
Strain, %		11.6
Ult. Stress, psf		751.8
Strain, %		11.6
σ_1 Failure, psf		1935.4
σ_3 Failure, psf		1183.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY with SAND(CH A-7-6(30))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

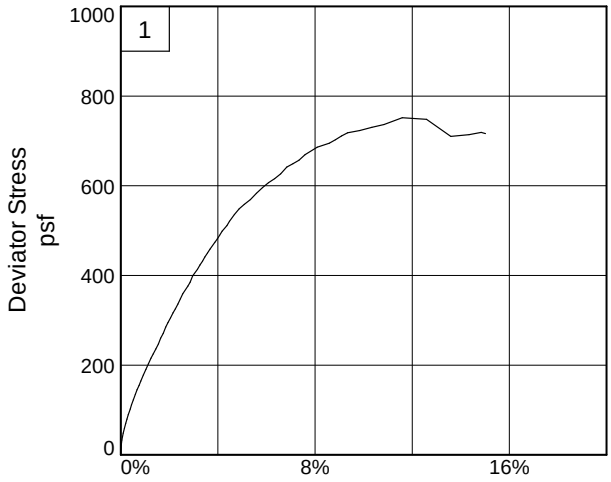
Project: Mobile River Bridge

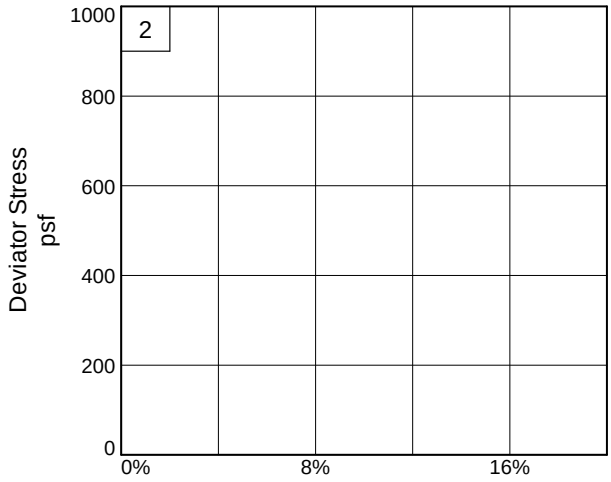
Source of Sample: 1/27/16 **Depth:** 23.5'-25.5'

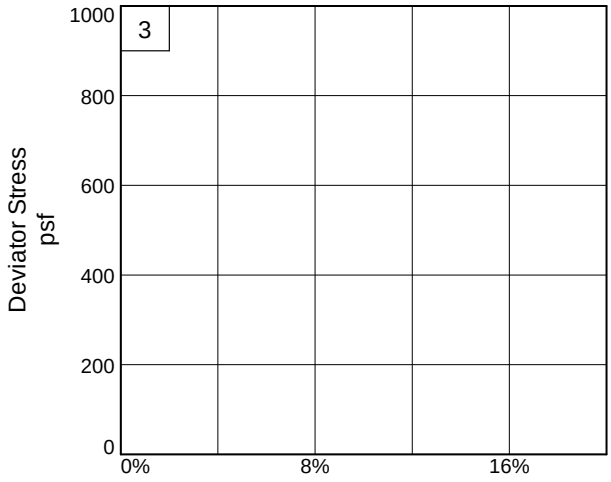
Sample Number: BW-116 T-2

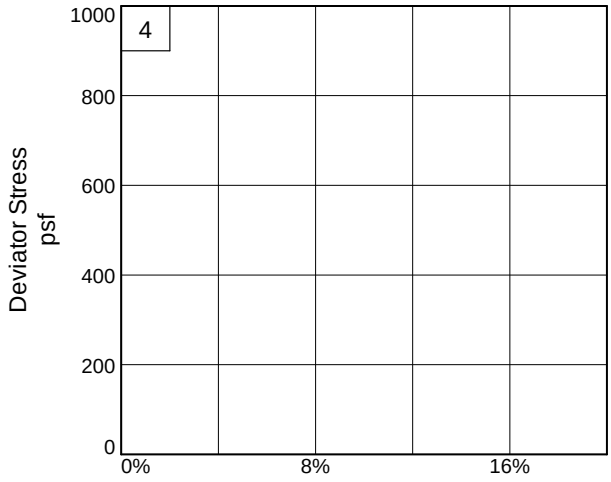
Proj. No.: 1511010228 **Date Sampled:**

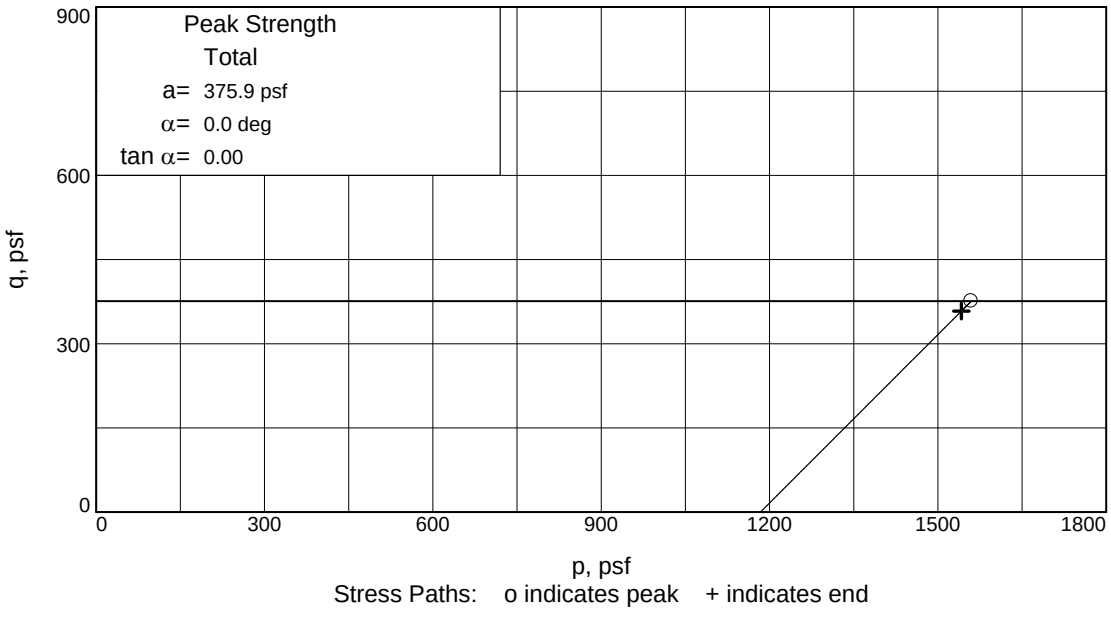
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Thompson Engineering
Mobile, Alabama











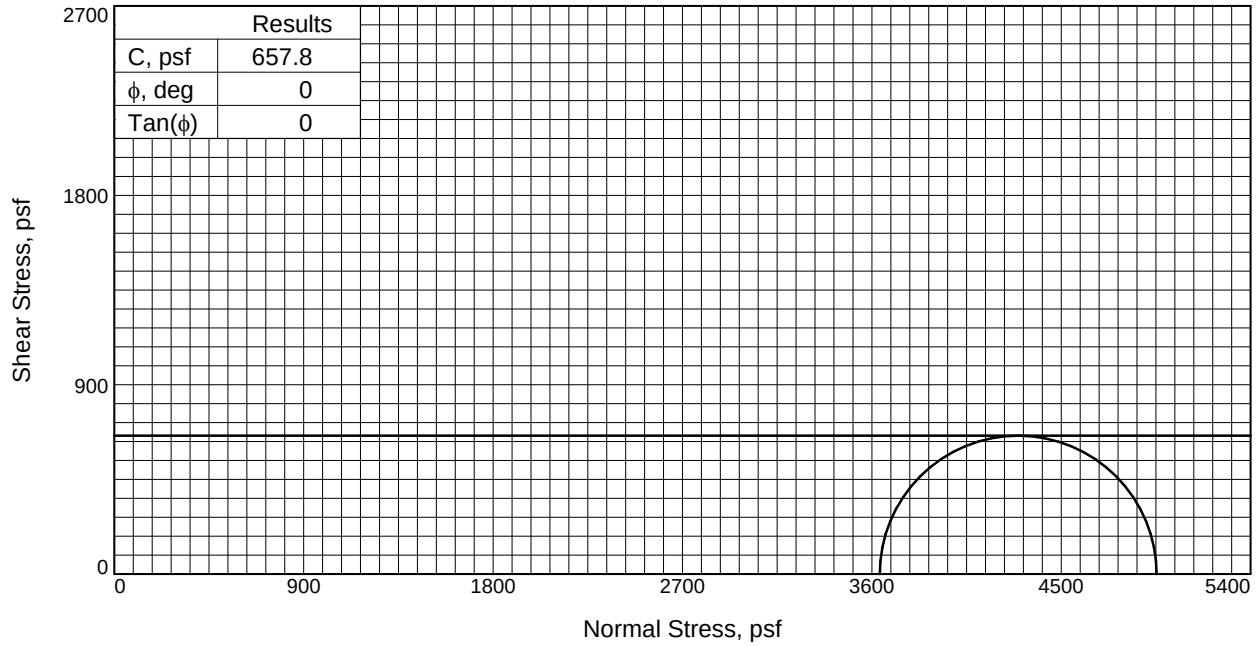
Client: ALDOT

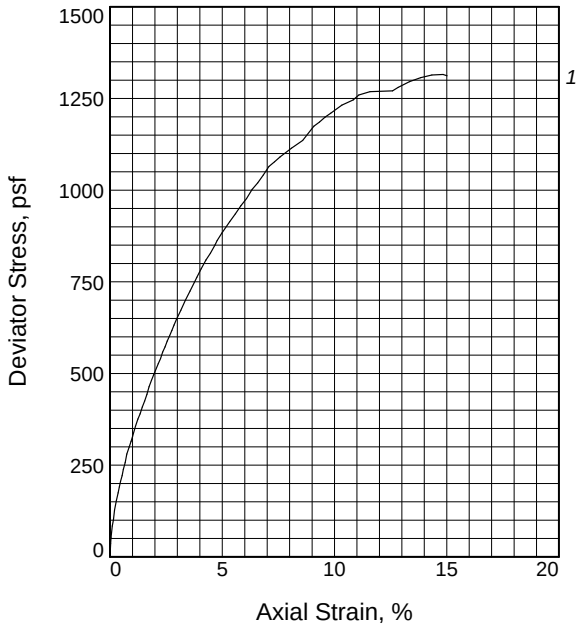
Project: Mobile River Bridge

Source of Sample: 1/27/16 **Depth:** 23.5'-25.5' **Sample Number:** BW-116 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	31.3
	Dry Density, pcf	94.3
	Saturation, %	109.6
	Void Ratio	0.7606
	Diameter, in.	2.805
	Height, in.	5.522
At Test	Water Content, %	32.6
	Dry Density, pcf	94.3
	Saturation, %	114.0
	Void Ratio	0.7606
	Diameter, in.	2.805
	Height, in.	5.522
Strain at peak, %		14.8
Back Pressure, psf		0.0
Cell Pressure, psf		3637.4
Fail. Stress, psf		1315.6
Strain, %		14.8
Ult. Stress, psf		1315.6
Strain, %		14.8
σ_1 Failure, psf		4953.0
σ_3 Failure, psf		3637.4

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY with SAND(CL A-6(7))

Assumed Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

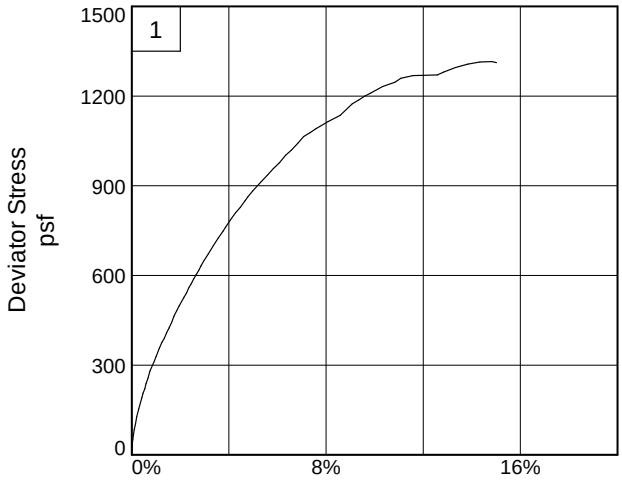
Project: Mobile River Bridge

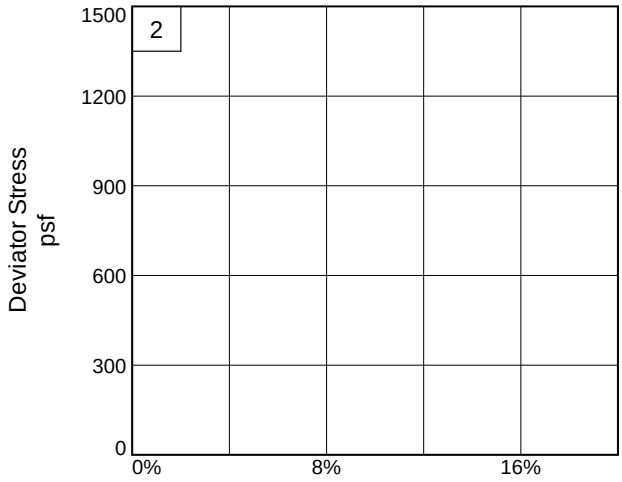
Source of Sample: 1/27/16 **Depth:** 75.5'-77.5'

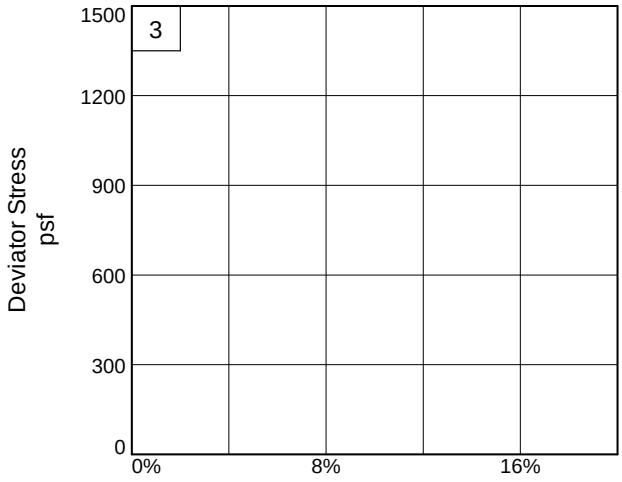
Sample Number: BW-118 T-2

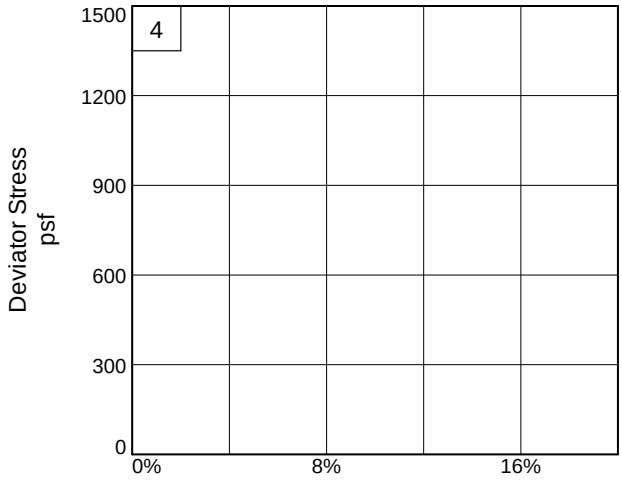
Proj. No.: 1511010228 **Date Sampled:**

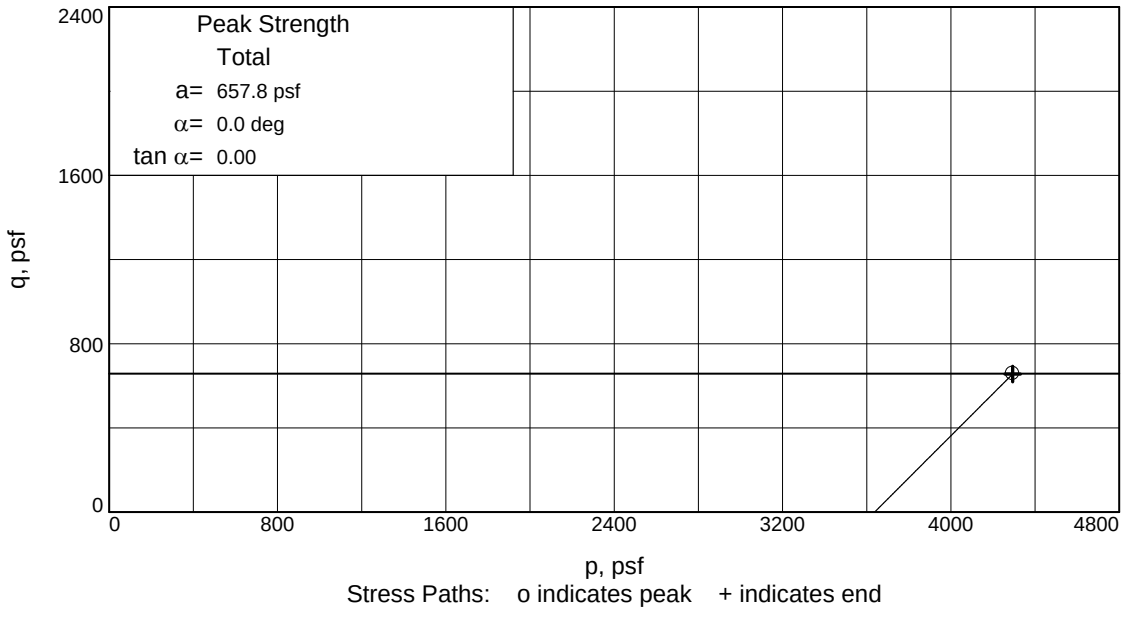
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Mobile, Alabama





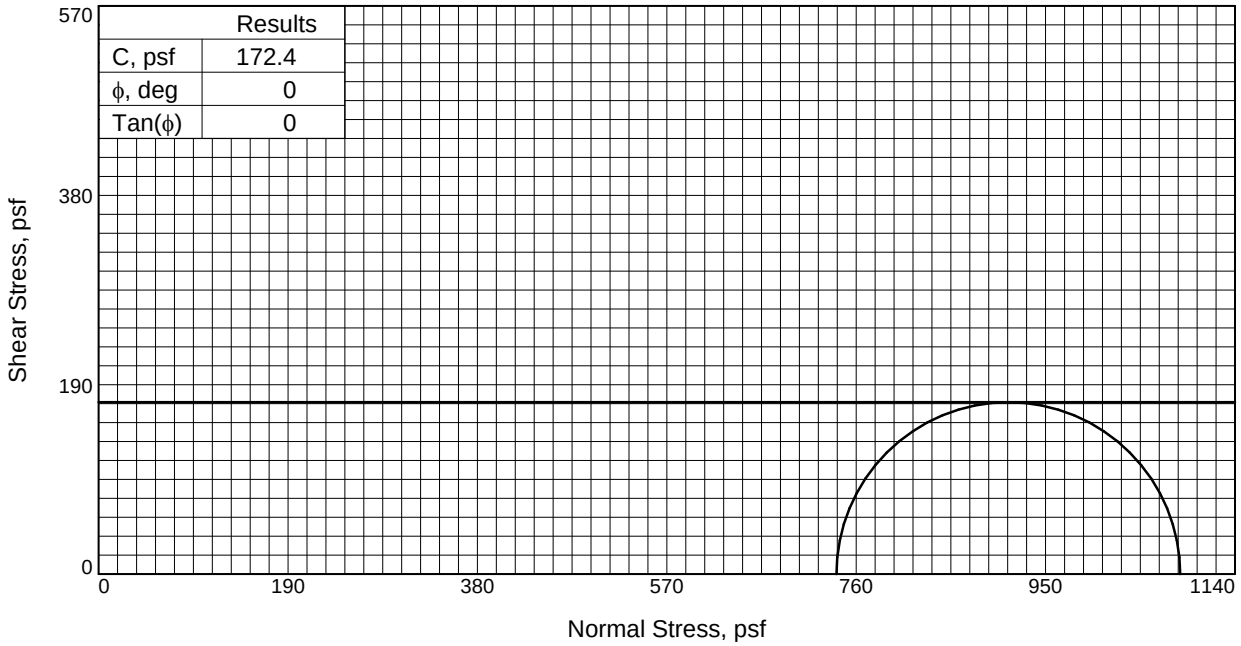


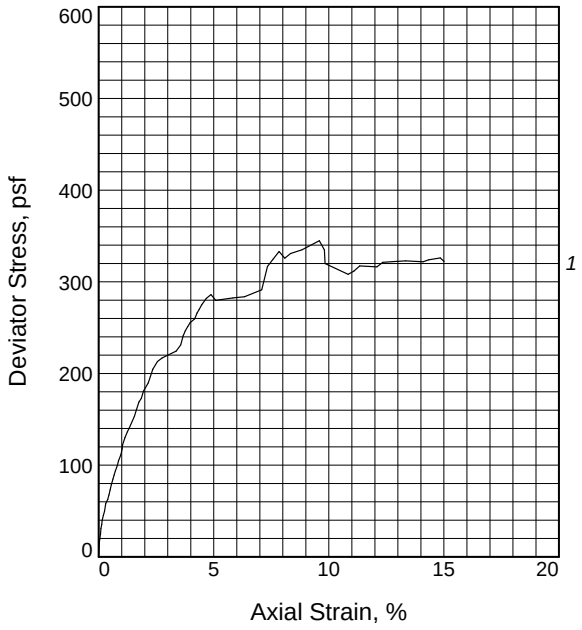




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 1/27/16 **Depth:** 75.5'-77.5' **Sample Number:** BW-118 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	29.2
	Dry Density, pcf	96.6
	Saturation, %	111.5
	Void Ratio	0.6801
	Diameter, in.	2.811
	Height, in.	5.536
At Test	Water Content, %	30.6
	Dry Density, pcf	96.6
	Saturation, %	117.1
	Void Ratio	0.6801
	Diameter, in.	2.811
	Height, in.	5.536
Strain at peak, %		9.6
Back Pressure, psf		0.0
Cell Pressure, psf		740.2
Fail. Stress, psf		344.9
Strain, %		9.6
Ult. Stress, psf		344.9
Strain, %		9.6
σ_1 Failure, psf		1085.0
σ_3 Failure, psf		740.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(12))

Specific Gravity= 2.600

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

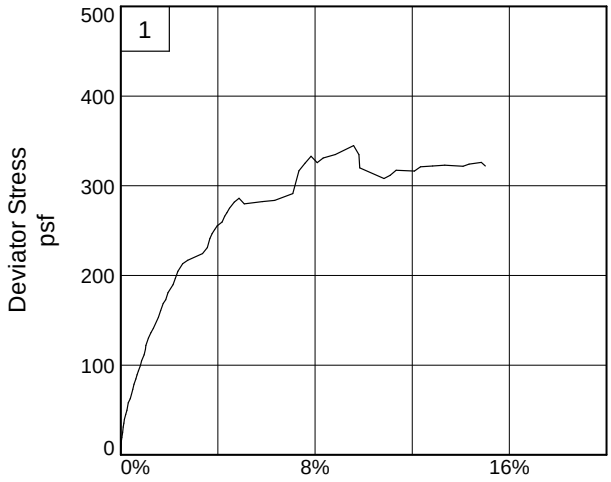
Project: Mobile River Bridge

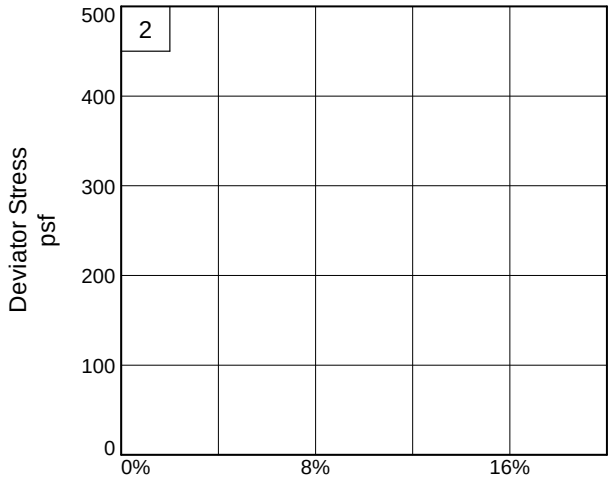
Source of Sample: 11/20/15 **Depth:** 18.5-20.5'

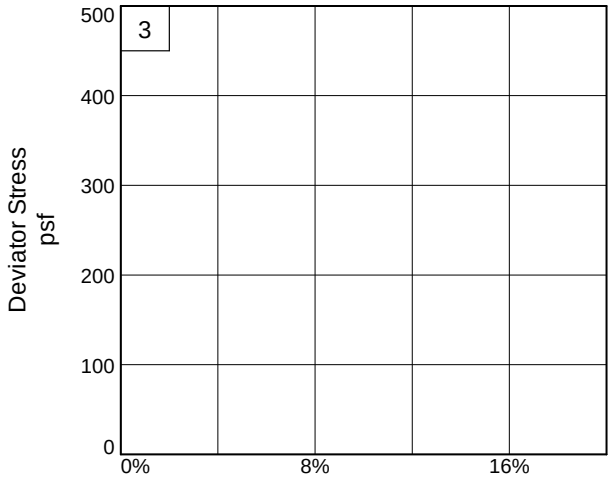
Sample Number: BW-119 T-2

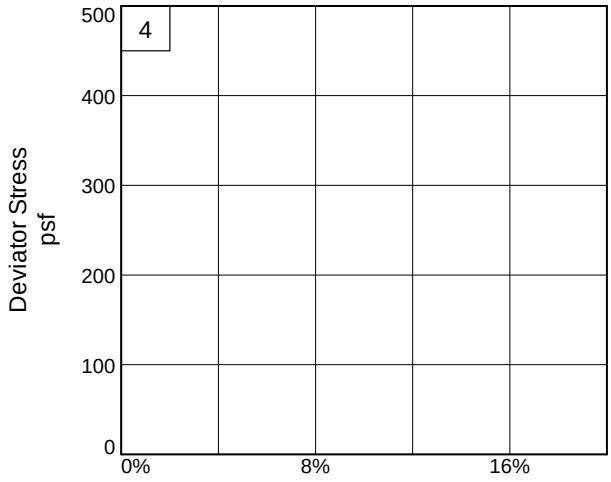
Proj. No.: 1511010228 **Date Sampled:**

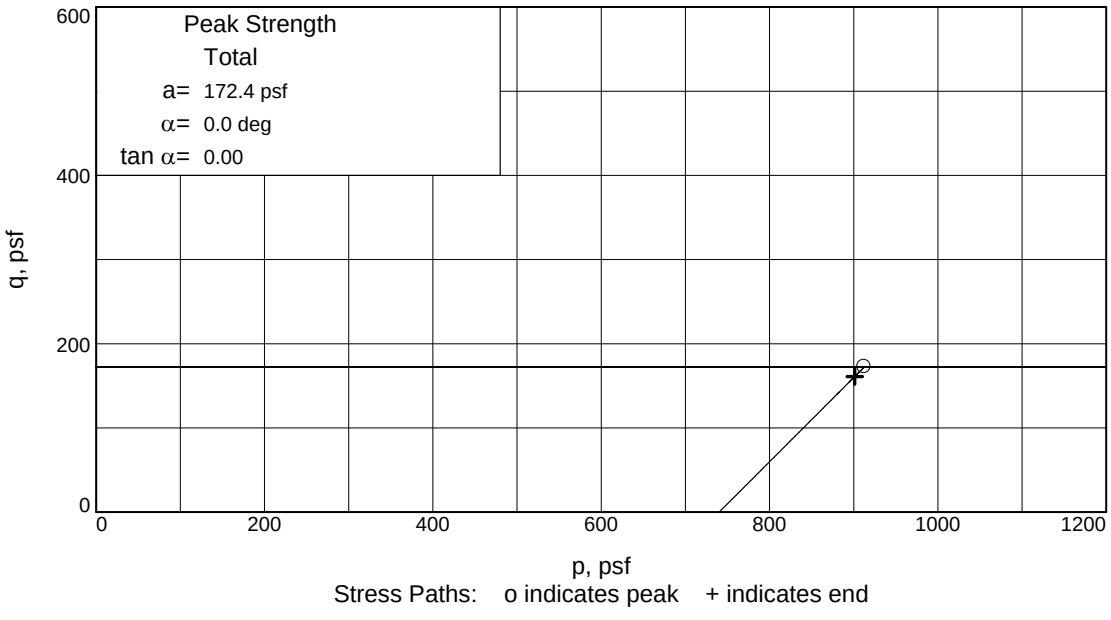
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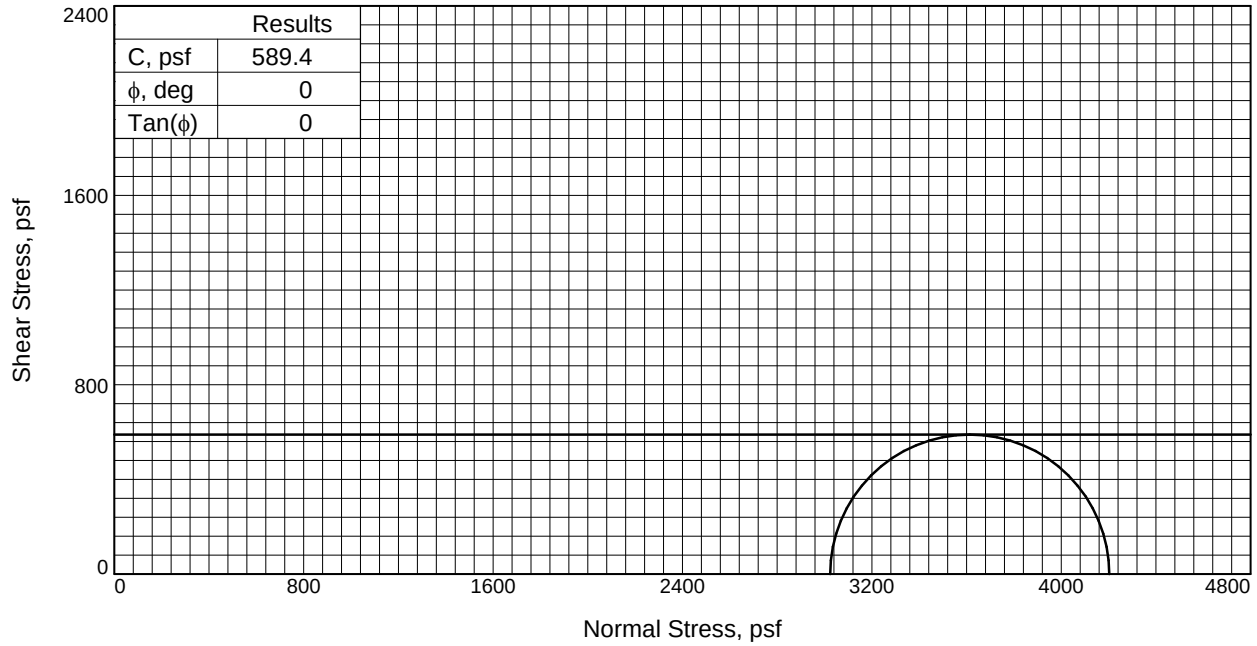


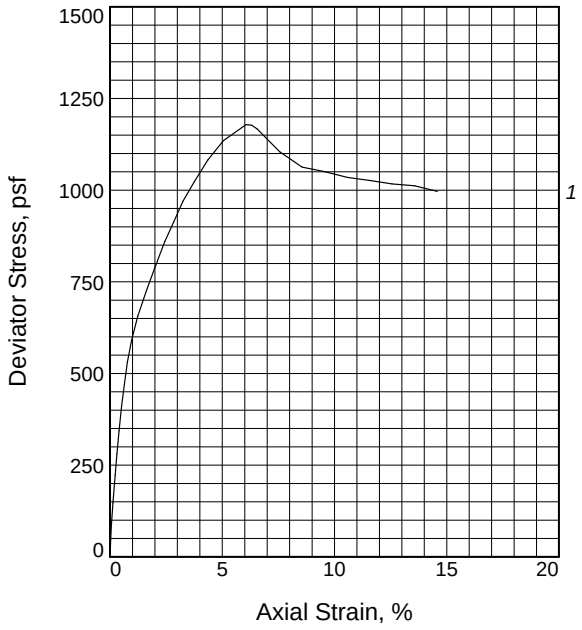




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 11/20/15 **Depth:** 18.5-20.5' **Sample Number:** BW-119 T-2
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	49.7
	Dry Density, pcf	71.3
	Saturation, %	100.4
	Void Ratio	1.2998
	Diameter, in.	2.743
	Height, in.	5.424
At Test	Water Content, %	54.8
	Dry Density, pcf	71.3
	Saturation, %	110.9
	Void Ratio	1.2998
	Diameter, in.	2.743
	Height, in.	5.424
Strain at peak, %		6.1
Back Pressure, psf		0.0
Cell Pressure, psf		3024.0
Fail. Stress, psf		1178.8
Strain, %		6.1
Ult. Stress, psf		1178.8
Strain, %		6.1
σ_1 Failure, psf		4202.8
σ_3 Failure, psf		3024.0

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(53))

Specific Gravity= 2.628

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

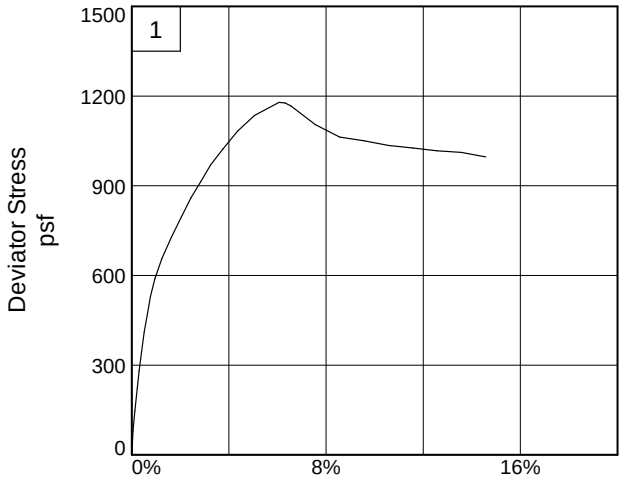
Project: Mobile River Bridge

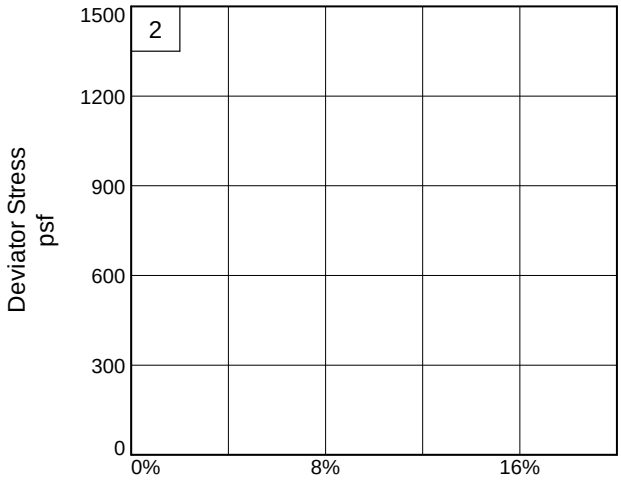
Source of Sample: Lab #7928 **Depth:** 63.0'-65.0'

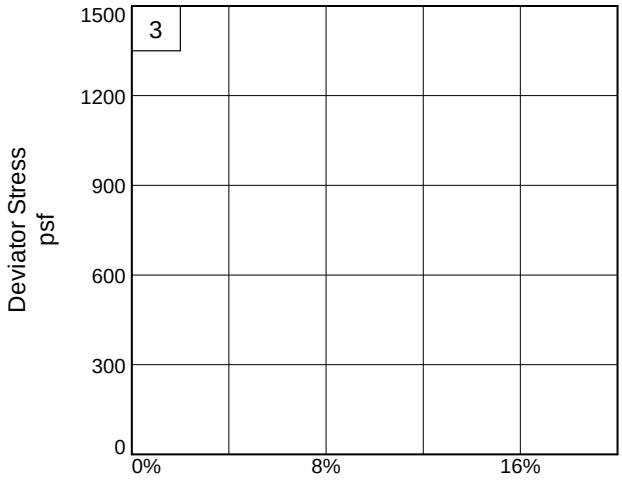
Sample Number: BW-121 T-3

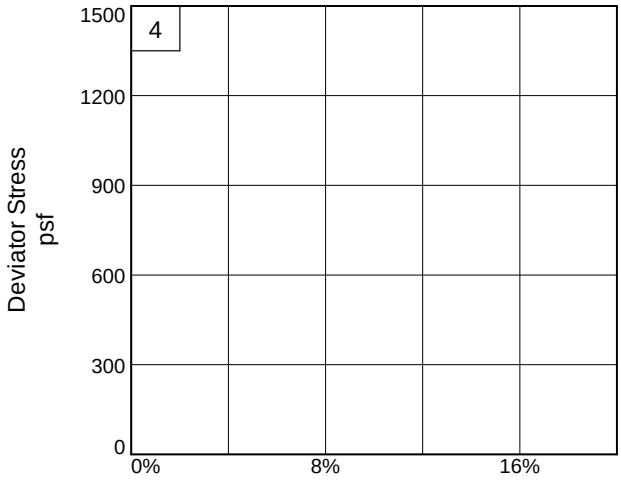
Proj. No.: 1511010228 **Date Sampled:**

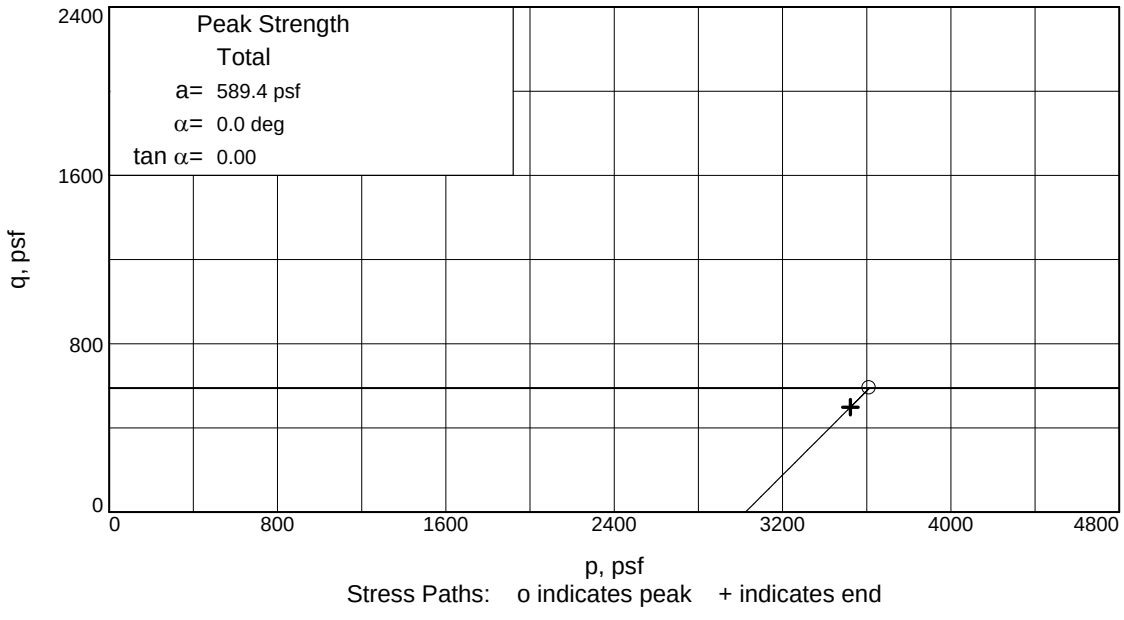
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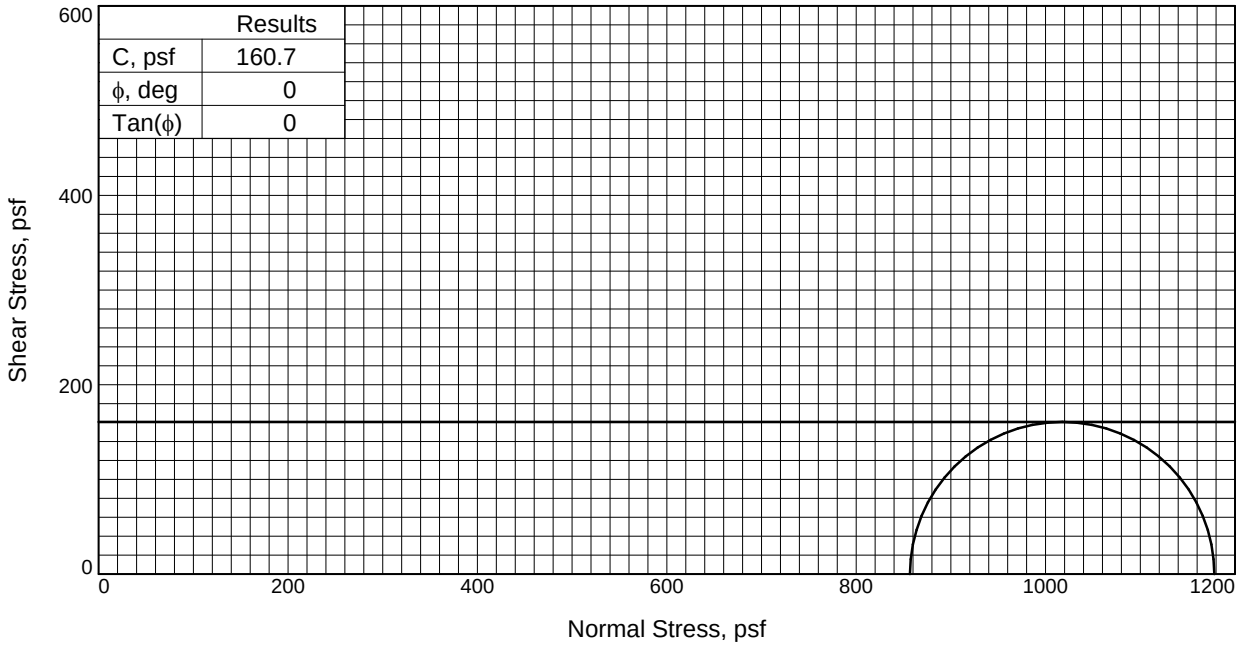


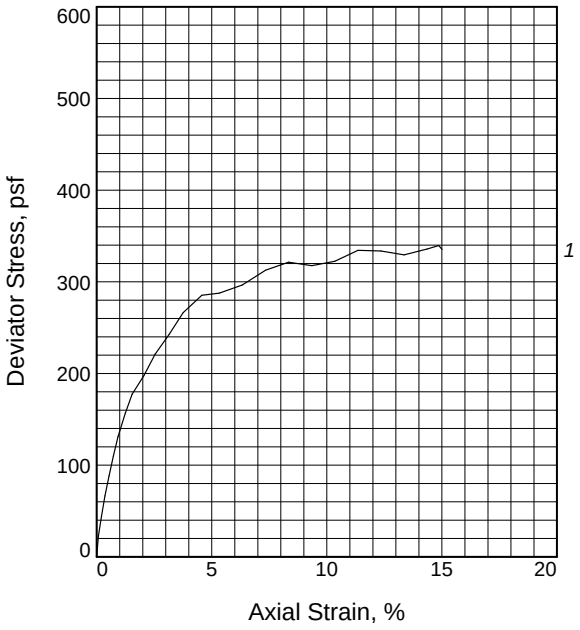




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #7928 **Depth:** 63.0'-65.0' **Sample Number:** BW-121 T-3
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	26.0
	Dry Density, pcf	101.9
	Saturation, %	109.7
	Void Ratio	0.6293
	Diameter, in.	2.782
	Height, in.	5.539
At Test	Water Content, %	27.1
	Dry Density, pcf	101.9
	Saturation, %	114.6
	Void Ratio	0.6293
	Diameter, in.	2.782
	Height, in.	5.539
Strain at peak, %		8.3
Back Pressure, psf		0.0
Cell Pressure, psf		856.8
Fail. Stress, psf		321.4
Strain, %		8.3
Ult. Stress, psf		321.4
Strain, %		8.3
σ_1 Failure, psf		1178.2
σ_3 Failure, psf		856.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(1))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

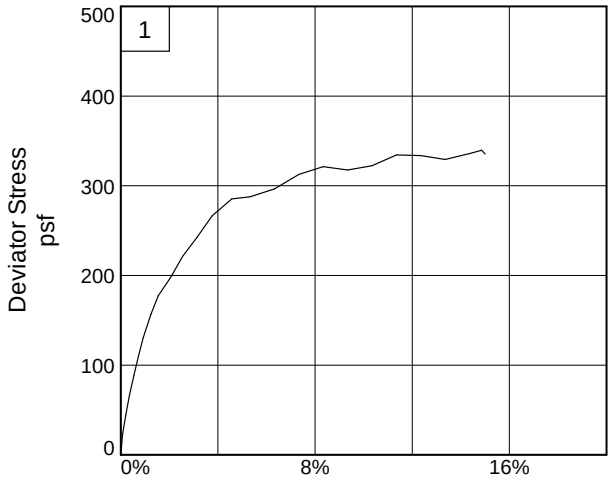
Project: Mobile River Bridge

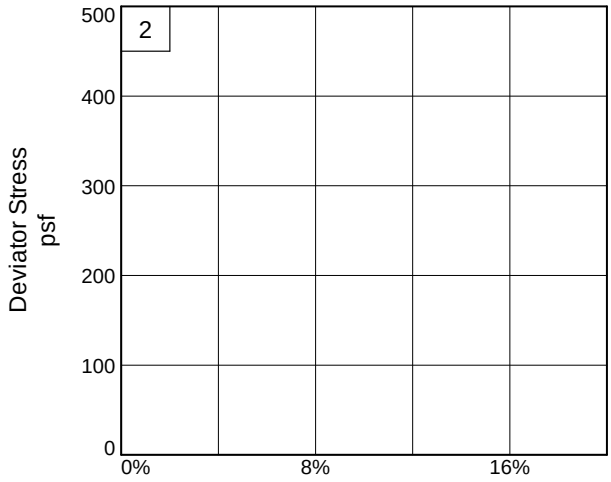
Source of Sample: Lab #8030 **Depth:** 18.0'-20.0'

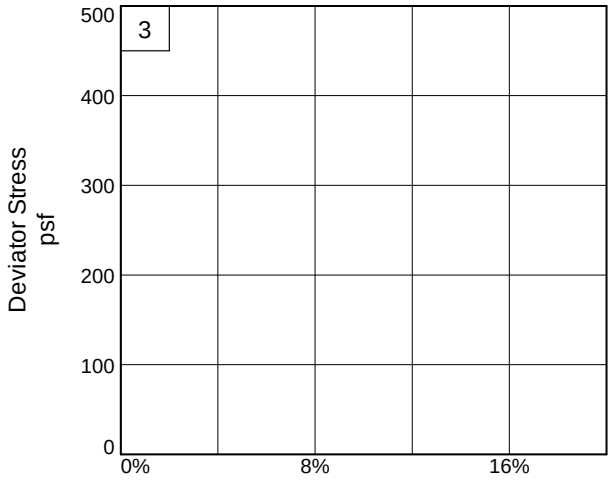
Sample Number: BW-122 T-1

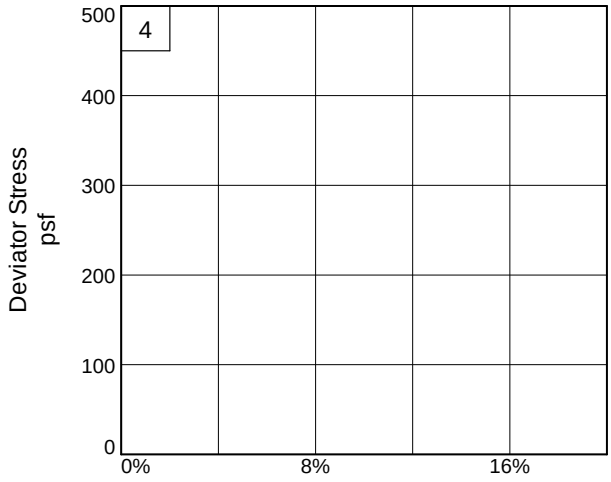
Proj. No.: 1511010228 **Date Sampled:**

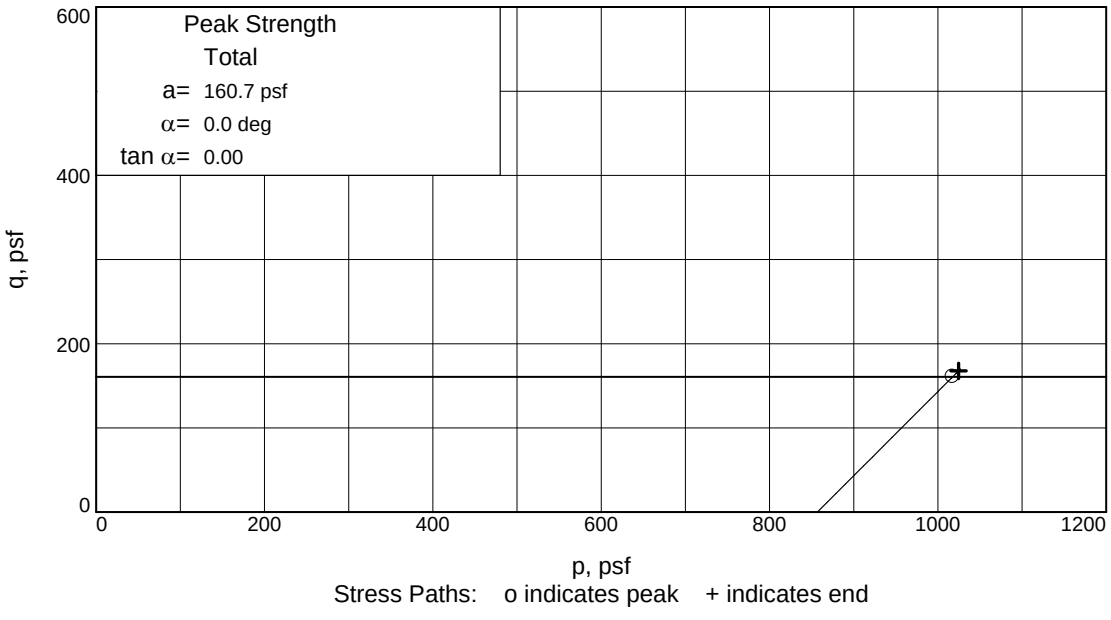
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Thompson Engineering
Mobile, Alabama





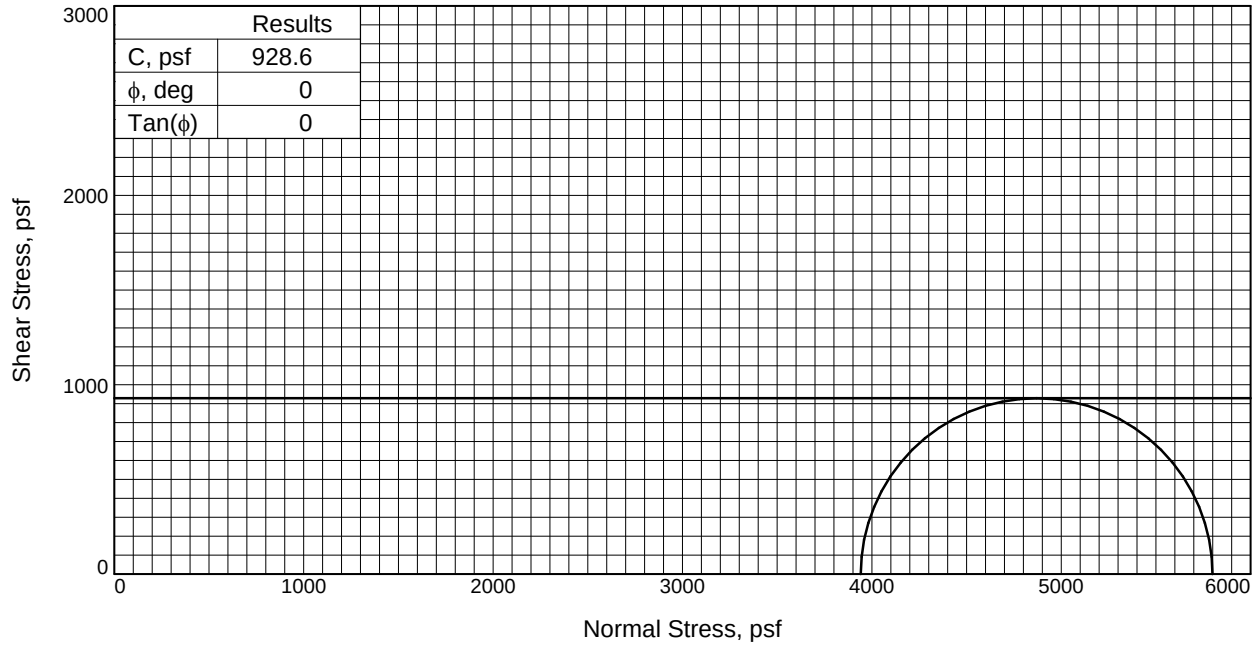


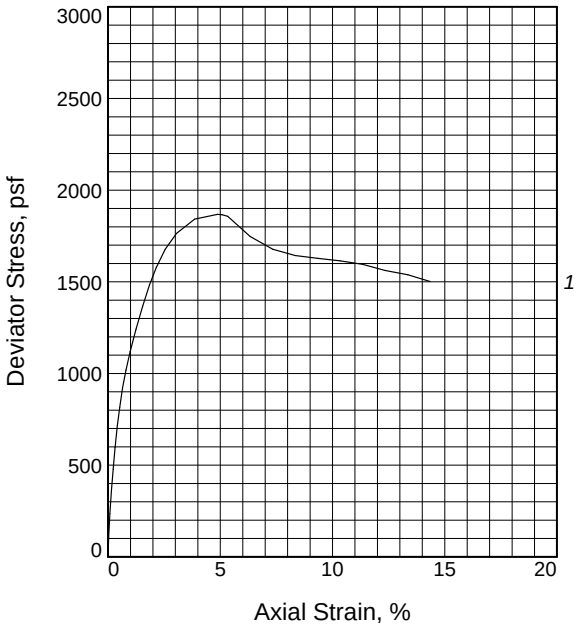




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #8030 **Depth:** 18.0'-20.0' **Sample Number:** BW-122 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	52.4
	Dry Density, pcf	71.5
	Saturation, %	105.5
	Void Ratio	1.3210
	Diameter, in.	2.824
	Height, in.	5.385
At Test	Water Content, %	52.4
	Dry Density, pcf	71.5
	Saturation, %	105.5
	Void Ratio	1.3210
	Diameter, in.	2.824
	Height, in.	5.385
Strain at peak, %		5.3
Back Pressure, psf		0.0
Cell Pressure, psf		3941.3
Fail. Stress, psf		1857.2
Strain, %		5.3
Ult. Stress, psf		1857.2
Strain, %		5.3
σ_1 Failure, psf		5798.5
σ_3 Failure, psf		3941.3

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: FAT CLAY(CH A-7-6(50))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

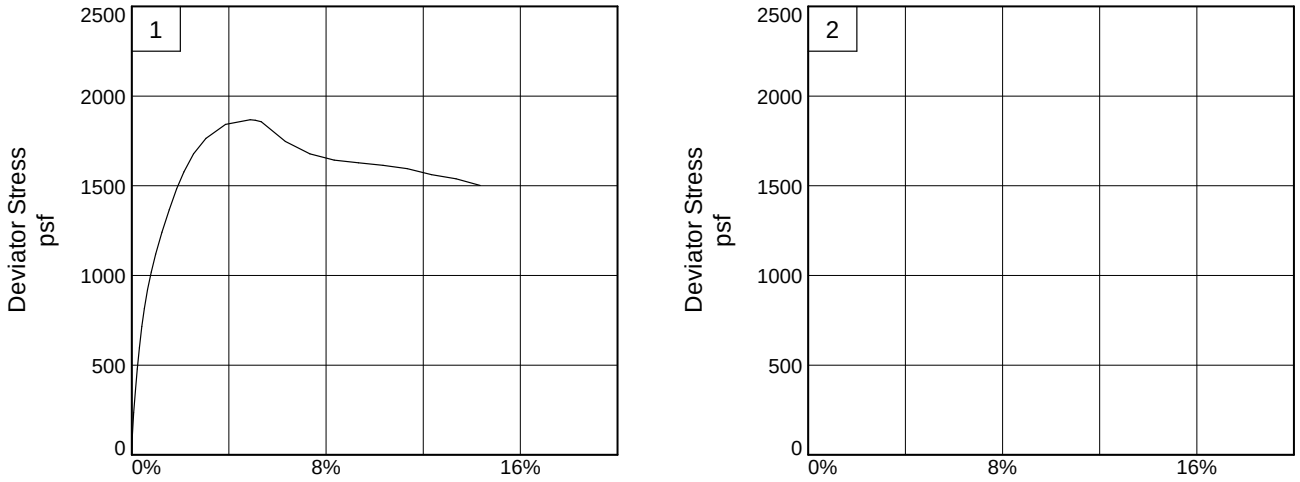
Project: Mobile River Bridge

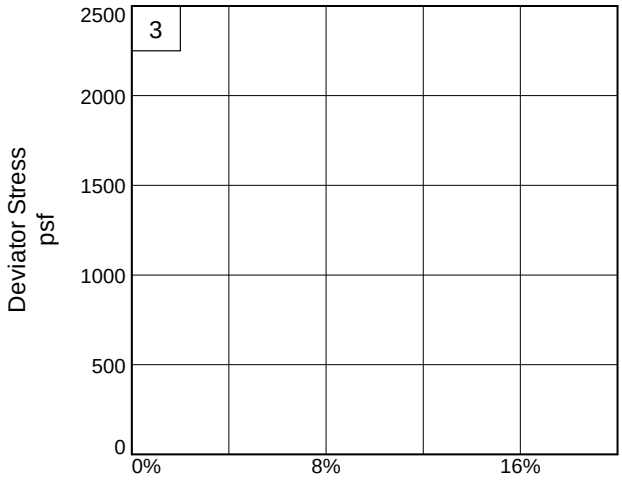
Source of Sample: Lab #8030 **Depth:** 83.0'-85.0'

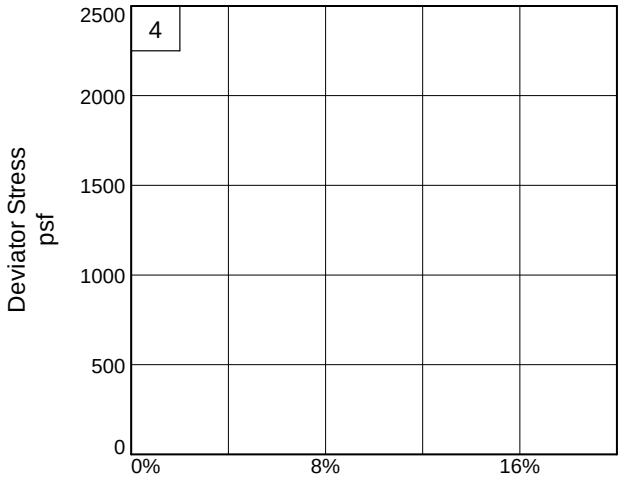
Sample Number: BW-122 T-5

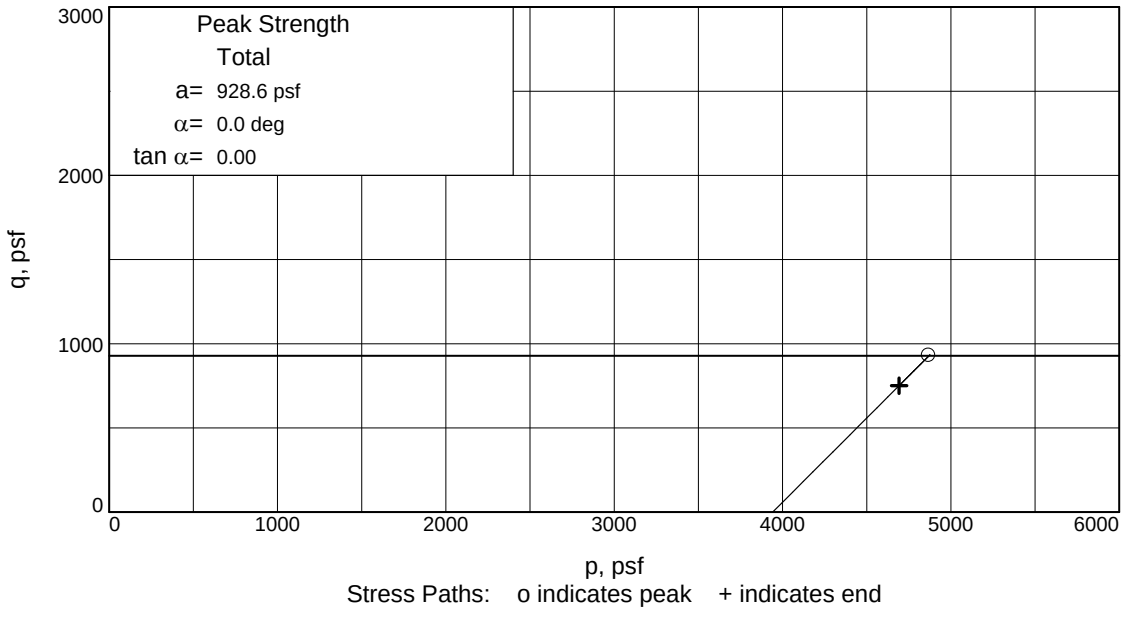
Proj. No.: 1511010228 **Date Sampled:**

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Mobile, Alabama



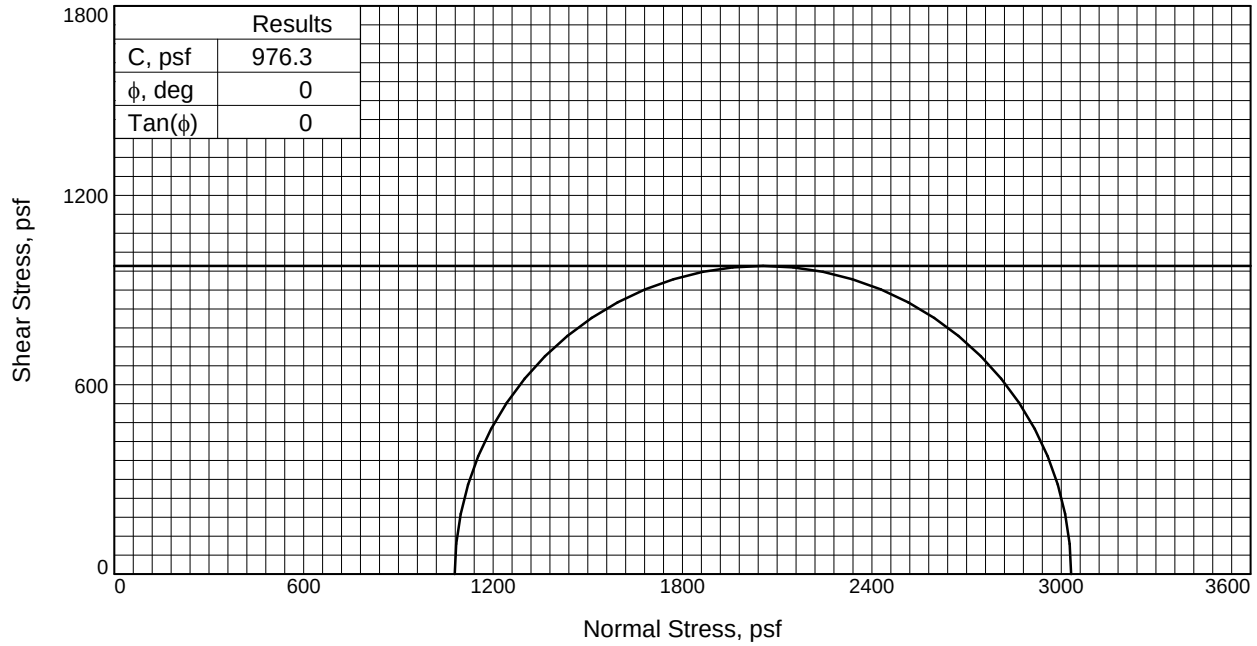


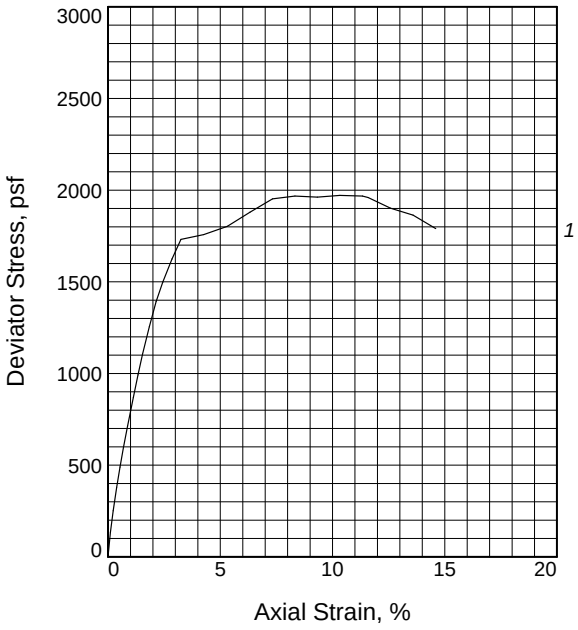




Client: ALDOT
Project: Mobile River Bridge
Source of Sample: Lab #8030 **Depth:** 83.0'-85.0' **Sample Number:** BW-122 T-5
Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	23.8
	Dry Density, pcf	101.3
	Saturation, %	98.9
	Void Ratio	0.6399
	Diameter, in.	2.842
	Height, in.	5.098
At Test	Water Content, %	25.3
	Dry Density, pcf	101.3
	Saturation, %	105.1
	Void Ratio	0.6399
	Diameter, in.	2.842
	Height, in.	5.098
Strain at peak, %		7.3
Back Pressure, psf		0.0
Cell Pressure, psf		1078.6
Fail. Stress, psf		1952.7
Strain, %		7.3
Ult. Stress, psf		1952.7
Strain, %		7.3
σ_1 Failure, psf		3031.2
σ_3 Failure, psf		1078.6

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(6))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

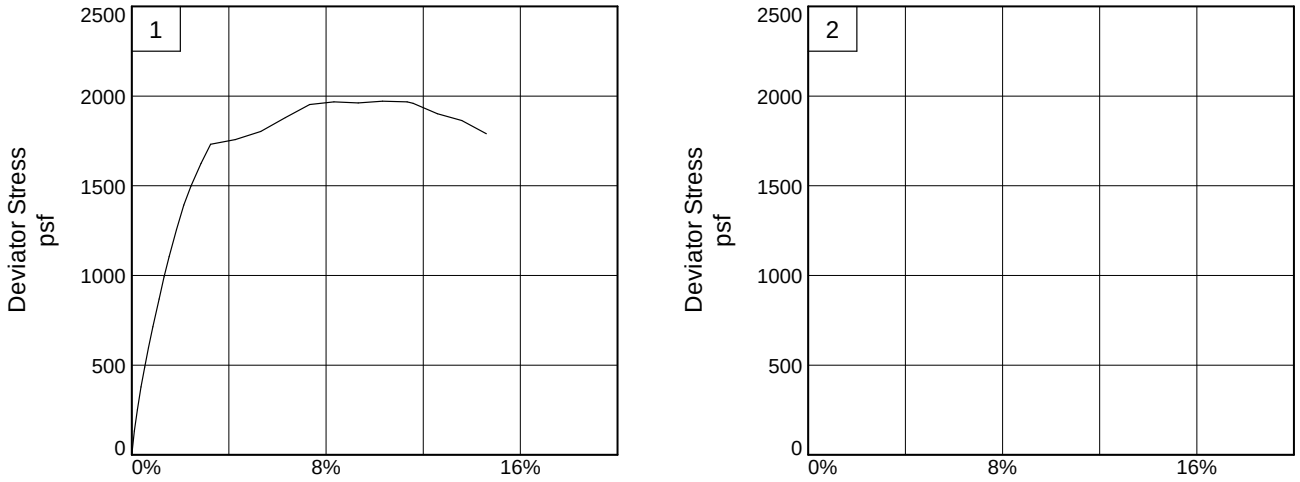
Project: Mobile River Bridge

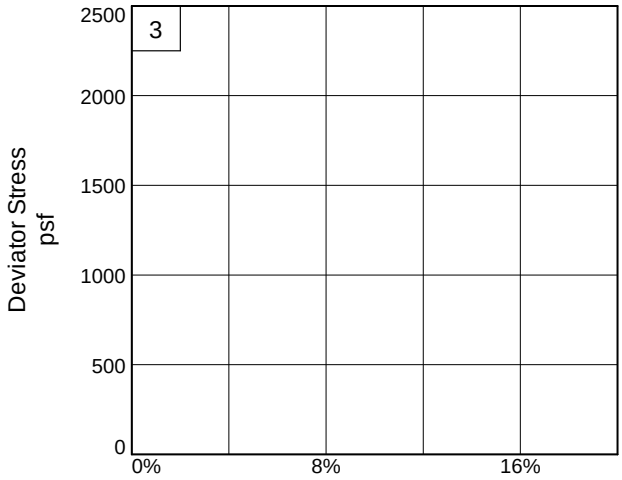
Source of Sample: Lab #8030 **Depth:** 23.0'-25.0'

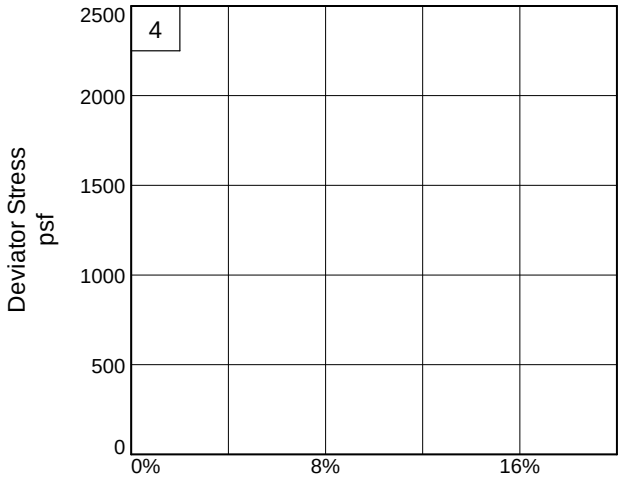
Sample Number: BW-123 T-2

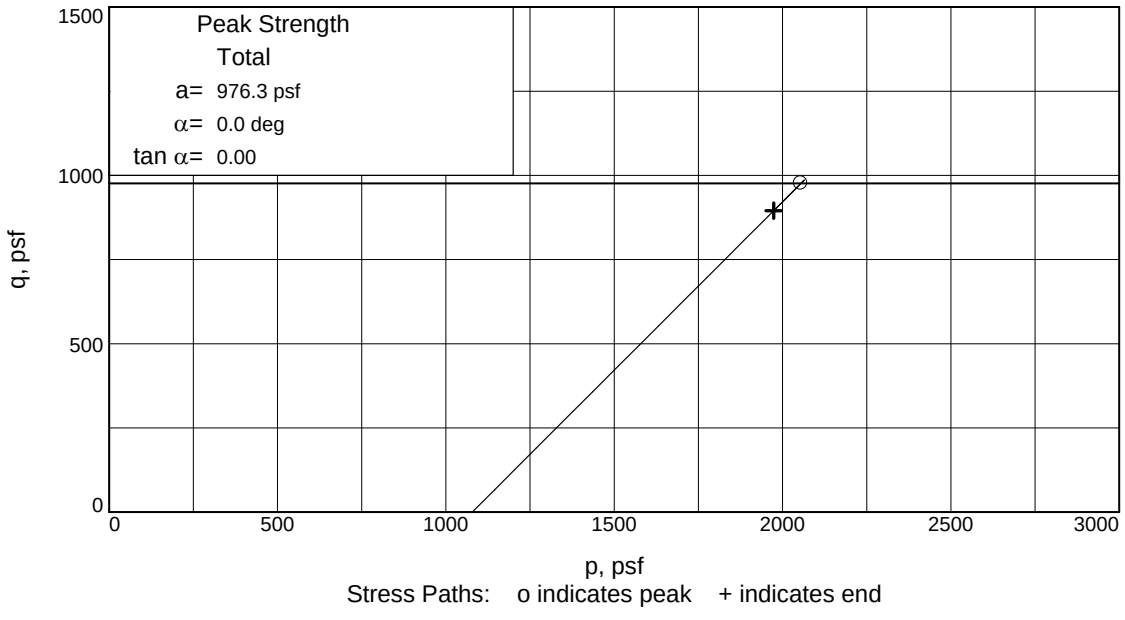
Proj. No.: 1511010228 **Date Sampled:**

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Thompson Engineering
Mobile, Alabama









Stress Paths: o indicates peak + indicates end

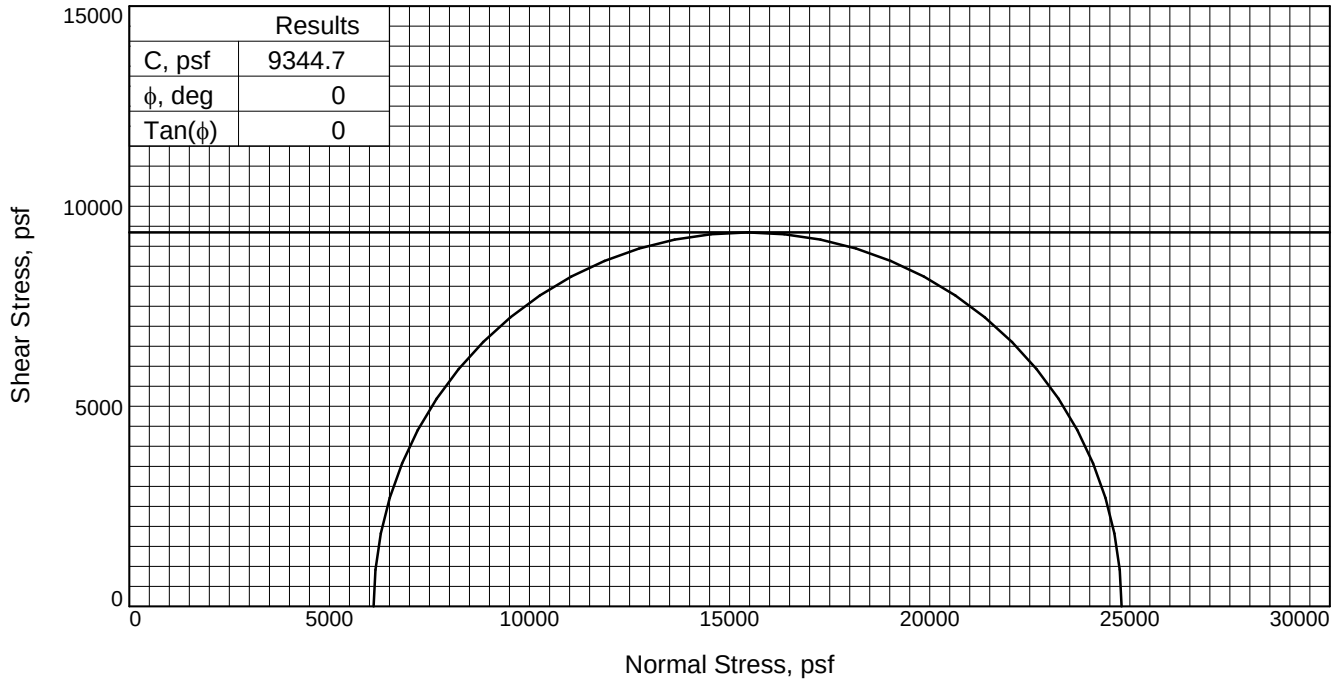
Client: ALDOT

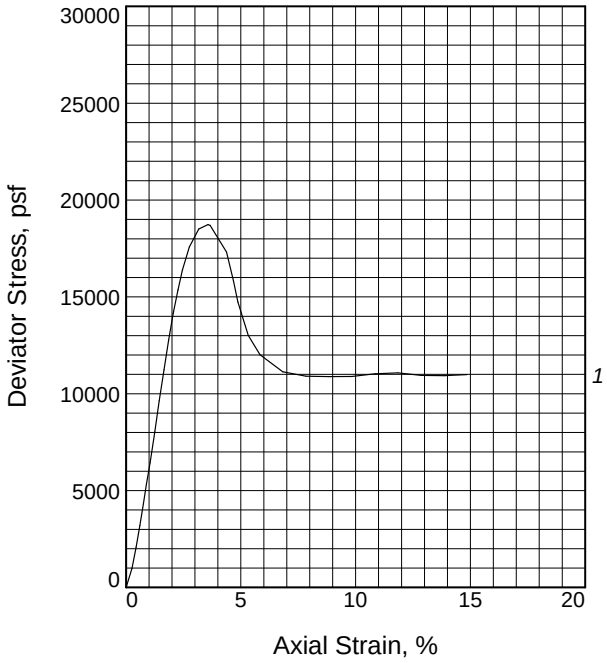
Project: Mobile River Bridge

Source of Sample: Lab #8030 **Depth:** 23.0'-25.0' **Sample Number:** BW-123 T-2

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	19.9
	Dry Density, pcf	109.1
	Saturation, %	101.3
	Void Ratio	0.5226
	Diameter, in.	2.733
	Height, in.	5.416
At Test	Water Content, %	19.3
	Dry Density, pcf	109.1
	Saturation, %	98.1
	Void Ratio	0.5226
	Diameter, in.	2.733
	Height, in.	5.416
Strain at peak, %		3.7
Back Pressure, psf		0.0
Cell Pressure, psf		6104.2
Fail. Stress, psf		18689.3
Strain, %		3.7
Ult. Stress, psf		18689.3
Strain, %		3.7
σ_1 Failure, psf		24793.5
σ_3 Failure, psf		6104.2

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: LEAN CLAY(CL A-6(19))

Specific Gravity= 2.66

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

Project: Mobile River Bridge

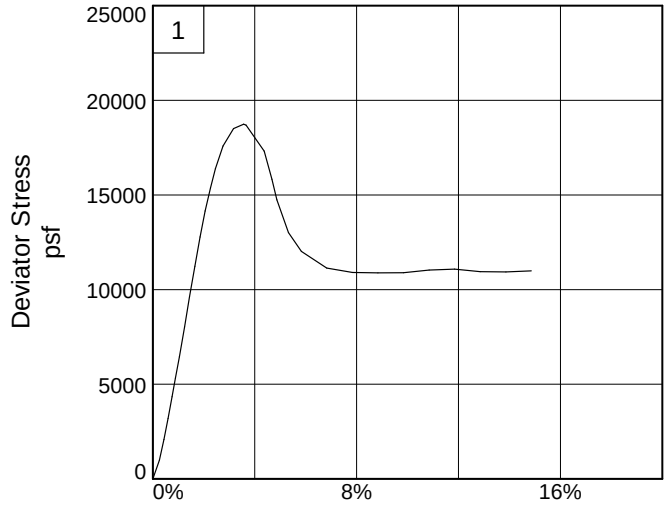
Source of Sample: Lab #8030 **Depth:** 128.0'-130.0'

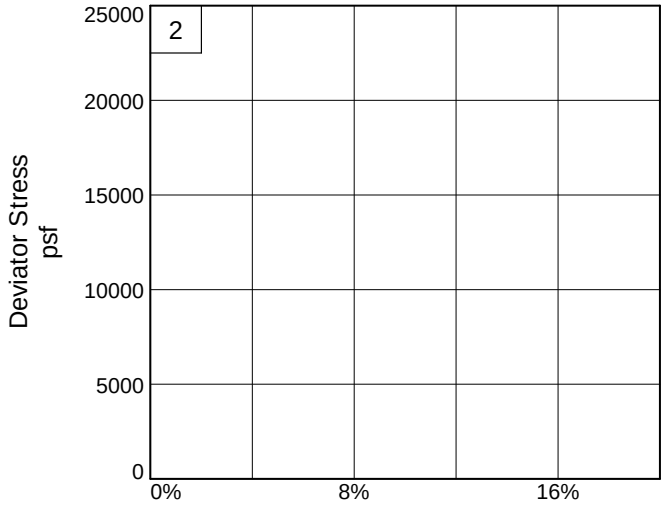
Sample Number: BW-123 T-7

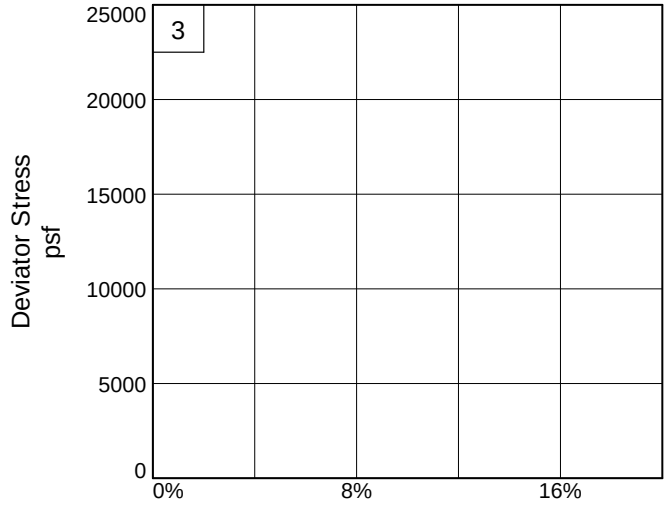
Proj. No.: 1511010228 **Date Sampled:**

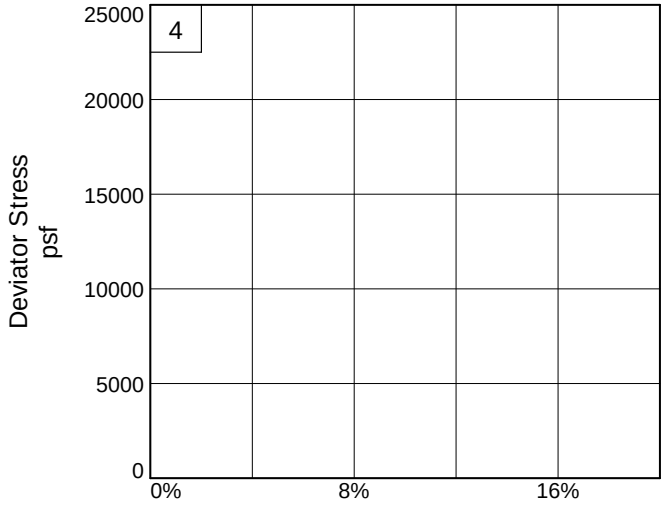
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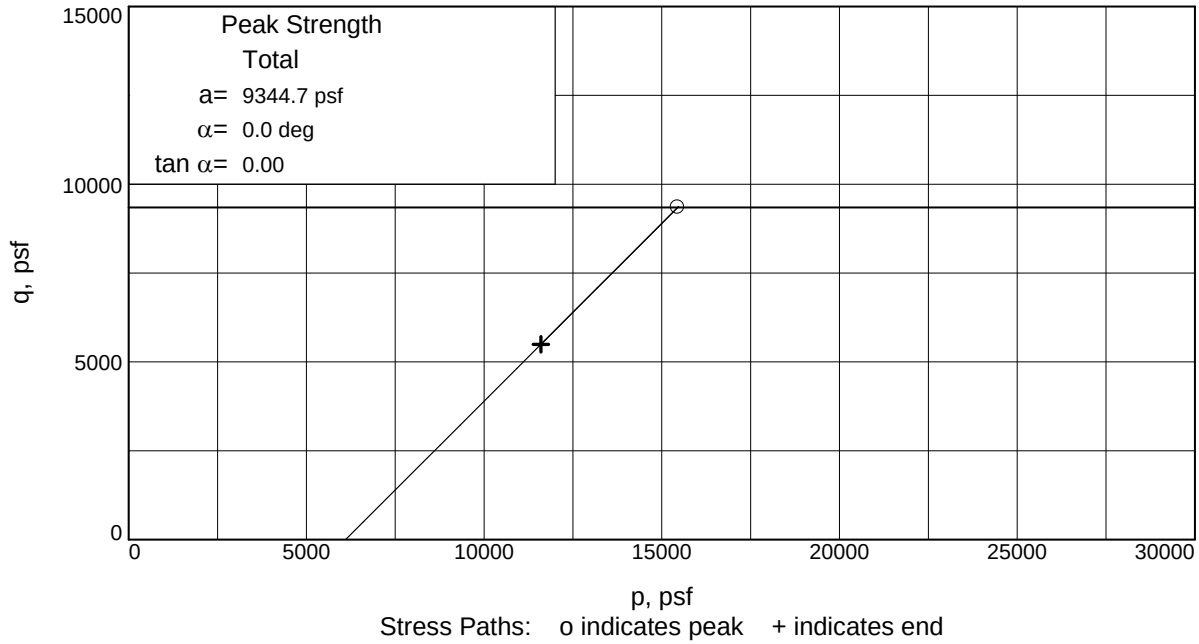
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

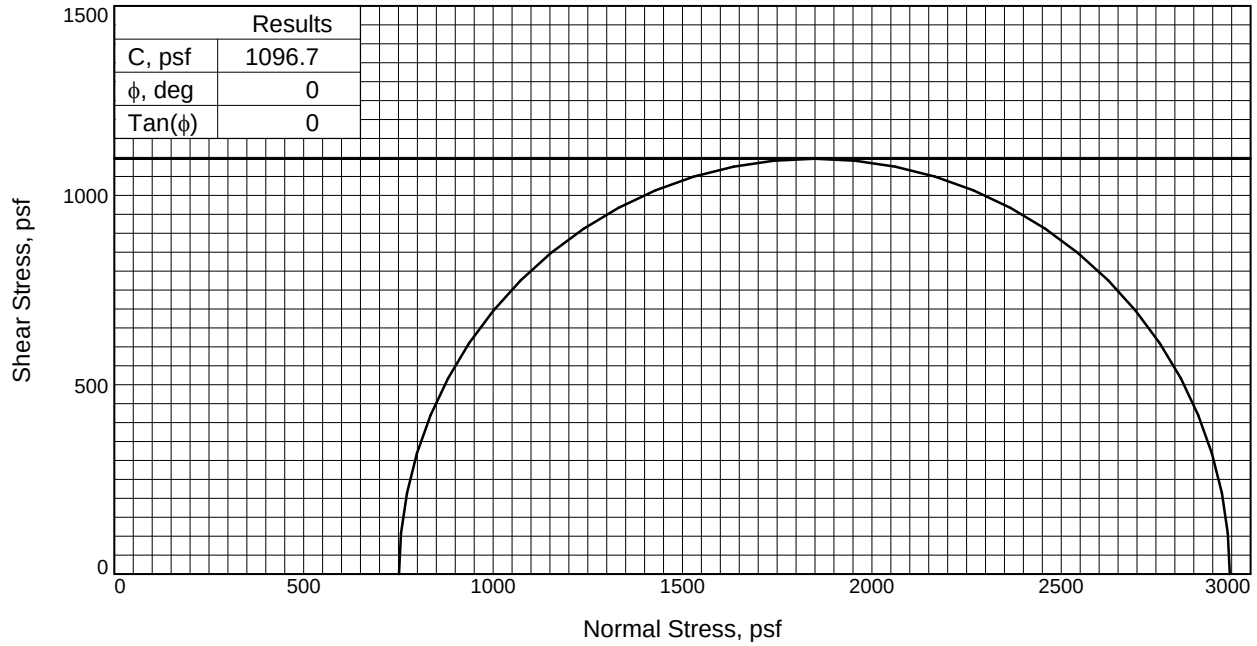
Client: ALDOT

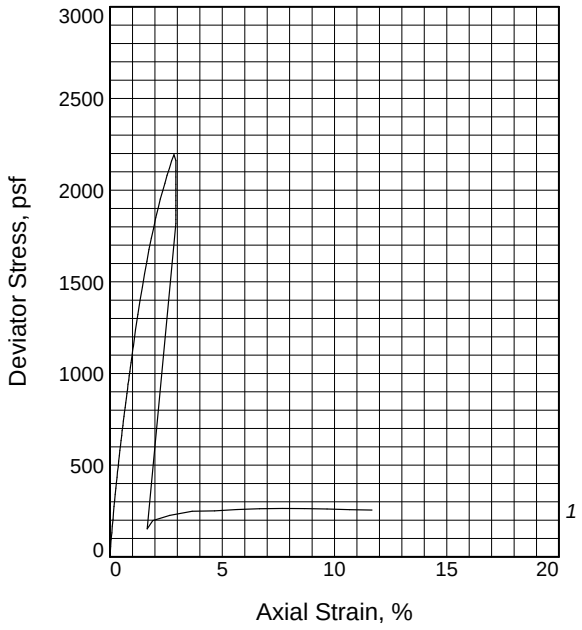
Project: Mobile River Bridge

Source of Sample: Lab #8030 **Depth:** 128.0'-130.0' **Sample Number:** BW-123 T-7

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	26.7
	Dry Density, pcf	99.3
	Saturation, %	109.3
	Void Ratio	0.6336
	Diameter, in.	2.834
	Height, in.	5.524
At Test	Water Content, %	26.2
	Dry Density, pcf	99.3
	Saturation, %	107.5
	Void Ratio	0.6336
	Diameter, in.	2.834
	Height, in.	5.524
Strain at peak, %		2.8
Back Pressure, psf		0.0
Cell Pressure, psf		751.7
Fail. Stress, psf		2193.4
Strain, %		2.8
Ult. Stress, psf		2193.4
Strain, %		2.8
σ_1 Failure, psf		2945.1
σ_3 Failure, psf		751.7

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(4))

Specific Gravity= 2.598

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

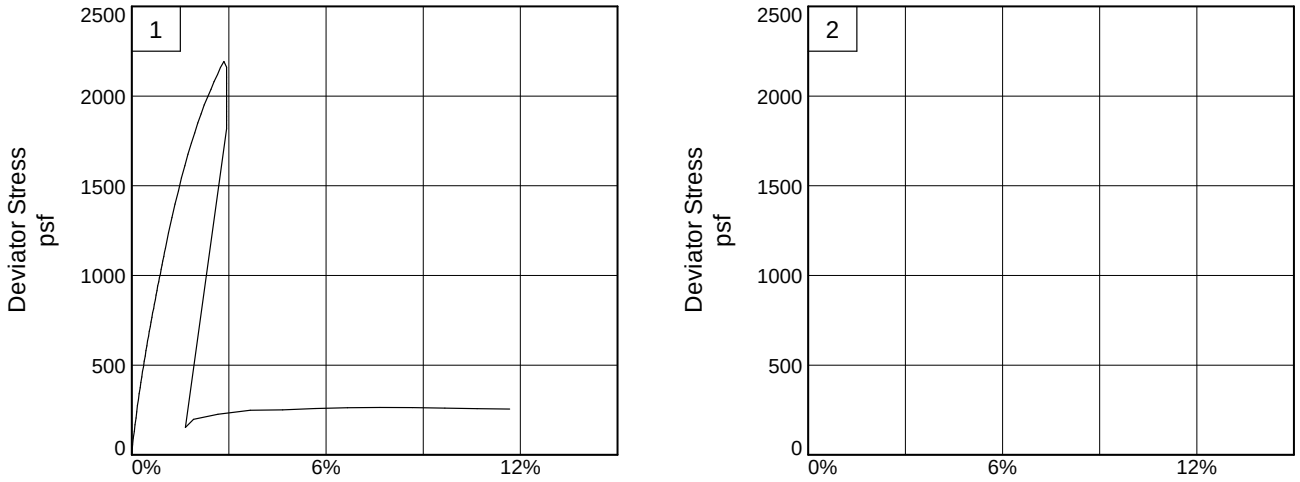
Project: Mobile River Bridge

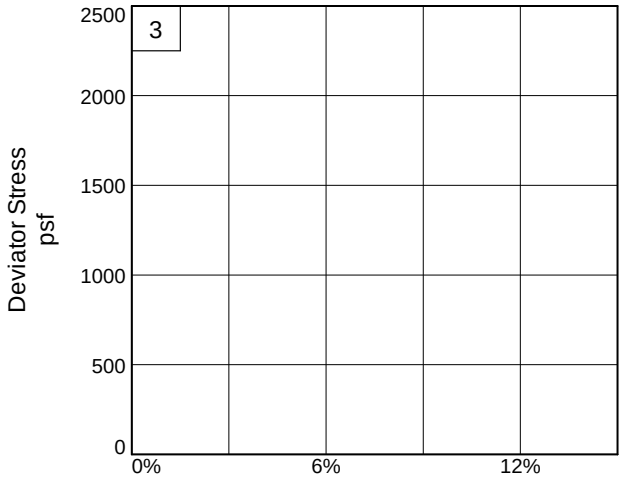
Source of Sample: 11/20/15 **Depth:** 18.5-20.5'

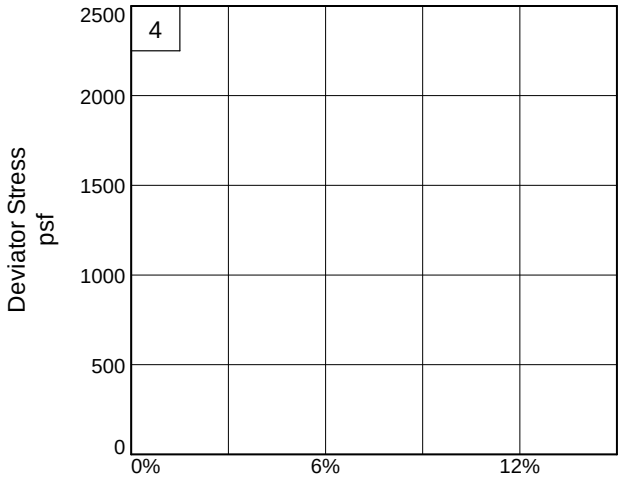
Sample Number: BW-126 T-2

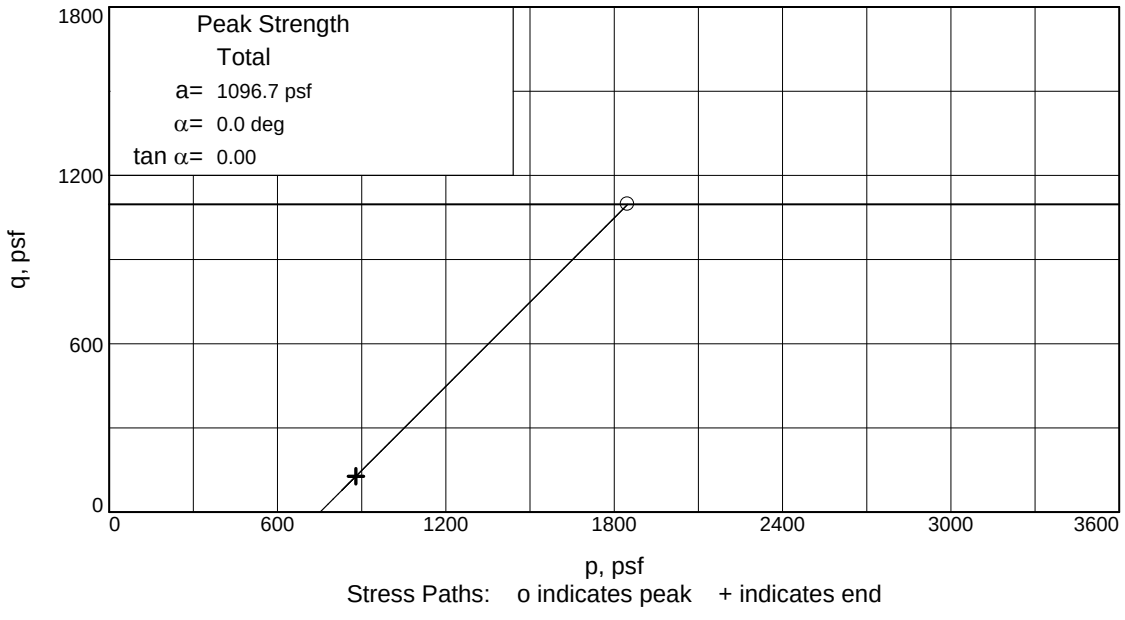
Proj. No.: 1511010228 **Date Sampled:**

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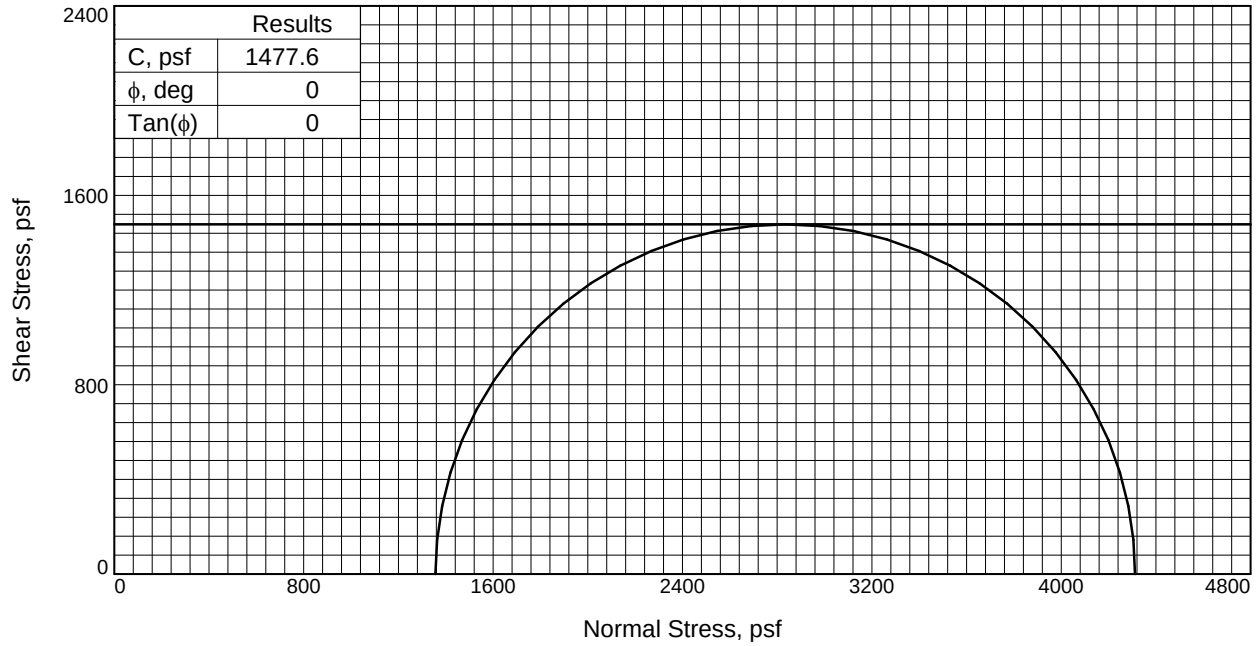
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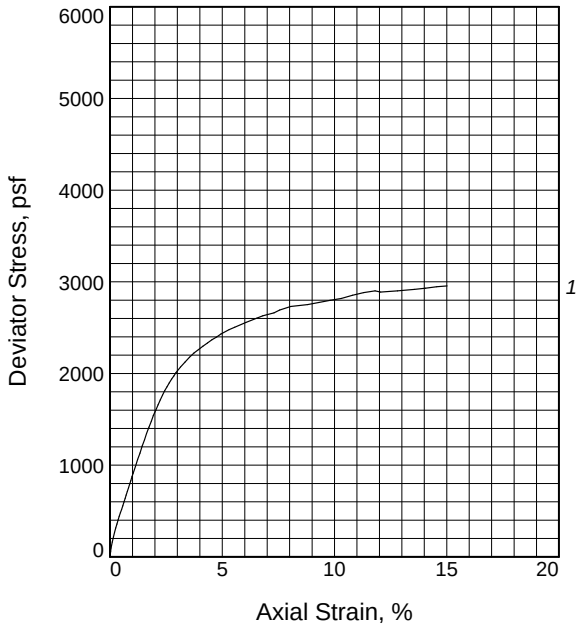
Project: Mobile River Bridge

Source of Sample: 11/20/15 **Depth:** 18.5-20.5' **Sample Number:** BW-126 T-2

Project No.: 1511010228 **Figure** _____

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Specimen No.		1
Initial	Water Content, %	25.5
	Dry Density, pcf	99.8
	Saturation, %	105.8
	Void Ratio	0.6291
	Diameter, in.	2.847
	Height, in.	5.509
At Test	Water Content, %	26.9
	Dry Density, pcf	99.8
	Saturation, %	111.2
	Void Ratio	0.6291
	Diameter, in.	2.847
	Height, in.	5.509
Strain at peak, %		15.0
Back Pressure, psf		0.0
Cell Pressure, psf		1356.5
Fail. Stress, psf		2955.2
Strain, %		15.0
Ult. Stress, psf		2955.2
Strain, %		15.0
σ_1 Failure, psf		4311.6
σ_3 Failure, psf		1356.5

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: SANDY LEAN CLAY(CL A-6(4))

Specific Gravity= 2.605

Remarks: Compression Failure Mode: Asymmetrical Shear Plane

Figure _____

Client: ALDOT

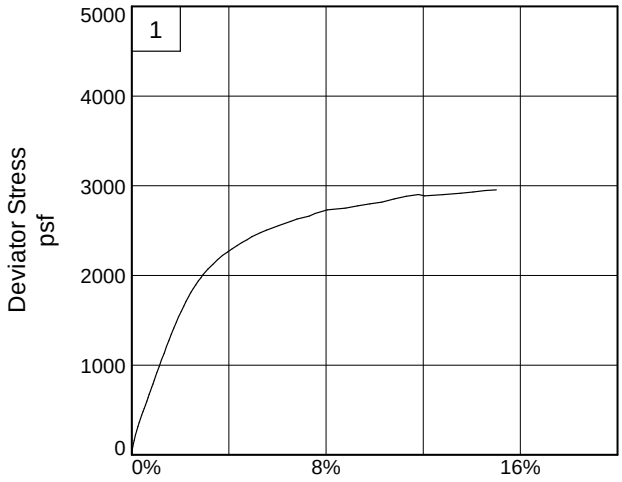
Project: Mobile River Bridge

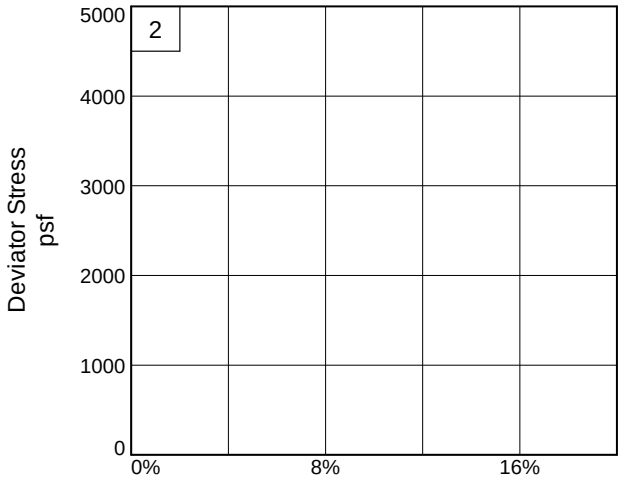
Source of Sample: 11/20/15 **Depth:** 25.5-27.5'

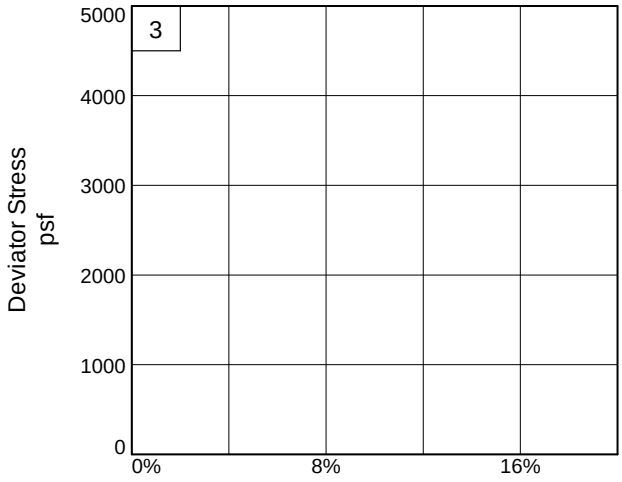
Sample Number: BW-126 T-3

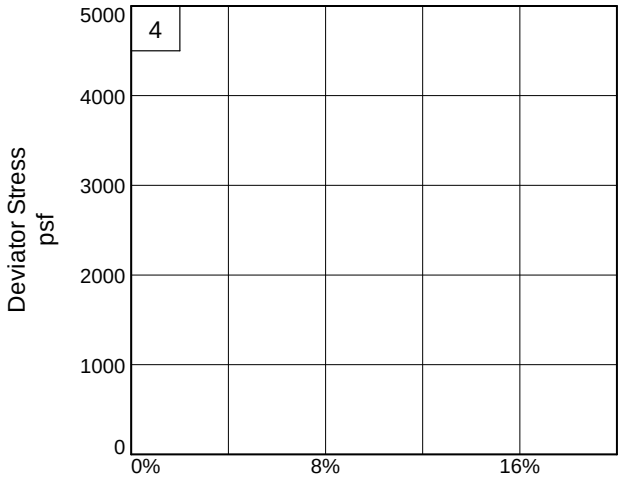
Proj. No.: 1511010228 **Date Sampled:**

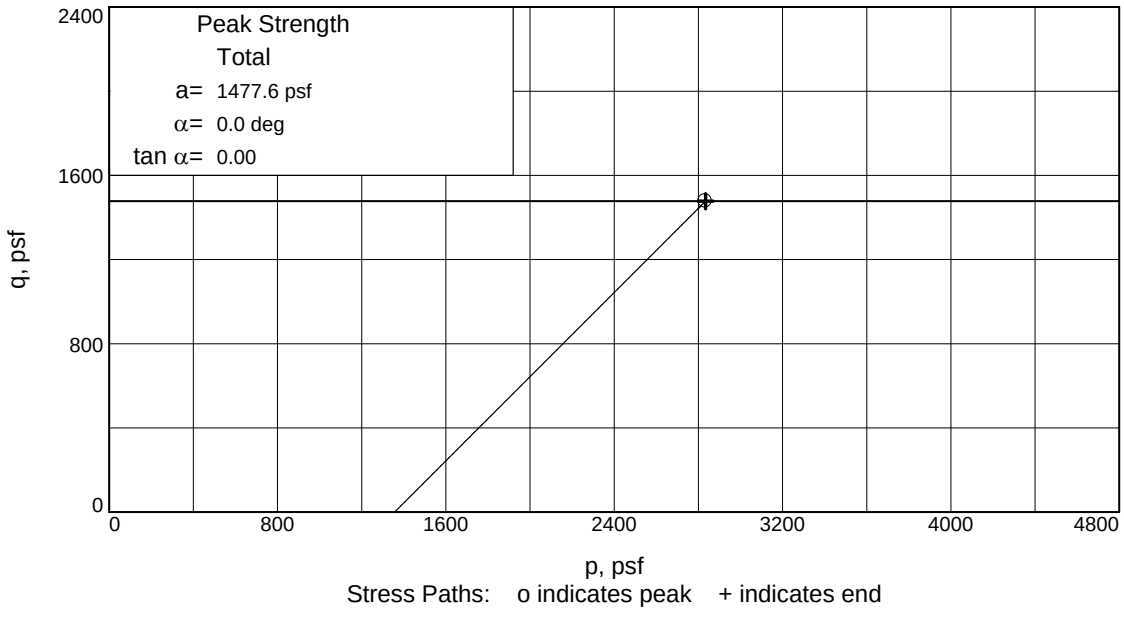
TRIAXIAL SHEAR TEST REPORT
Thompson Engineering
Mobile, Alabama











Stress Paths: o indicates peak + indicates end

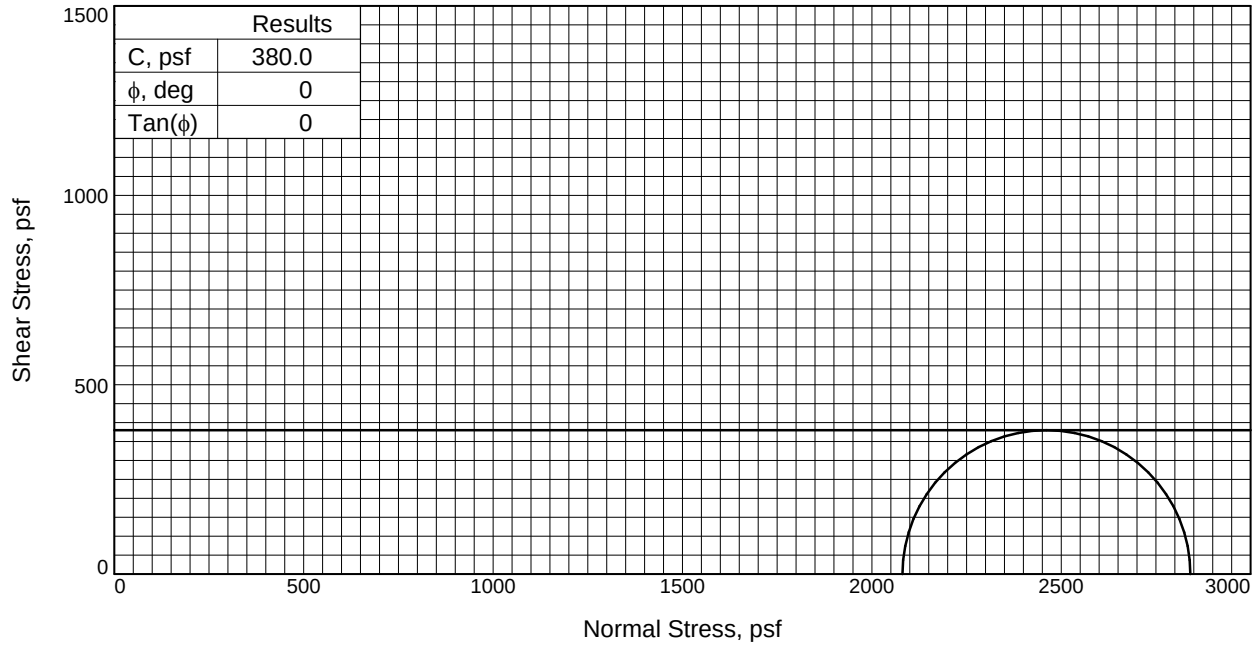
Client: ALDOT

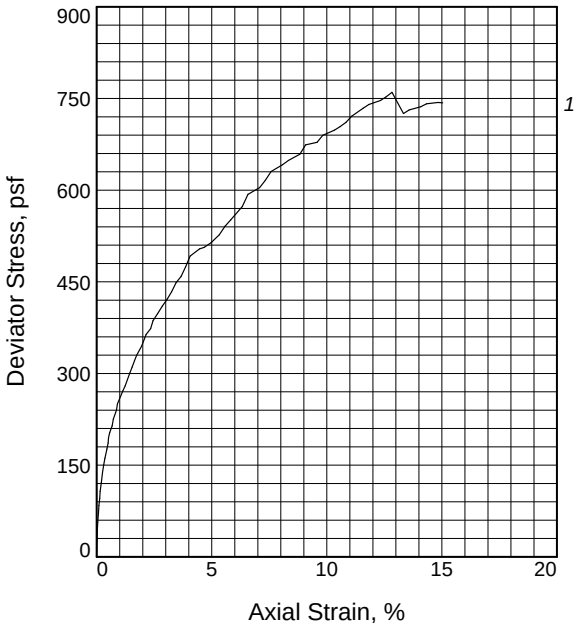
Project: Mobile River Bridge

Source of Sample: 11/20/15 **Depth:** 25.5-27.5' **Sample Number:** BW-126 T-3

Project No.: 1511010228 **Figure** _____

Thompson Engineering





Specimen No.		1
Initial	Water Content, %	22.0
	Dry Density, pcf	105.3
	Saturation, %	98.7
	Void Ratio	0.6035
	Diameter, in.	2.828
	Height, in.	5.417
At Test	Water Content, %	23.3
	Dry Density, pcf	105.3
	Saturation, %	104.3
	Void Ratio	0.6035
	Diameter, in.	2.828
	Height, in.	5.417
Strain at peak, %		12.8
Back Pressure, psf		0.0
Cell Pressure, psf		2080.8
Fail. Stress, psf		760.1
Strain, %		12.8
Ult. Stress, psf		760.1
Strain, %		12.8
σ_1 Failure, psf		2840.9
σ_3 Failure, psf		2080.8

Type of Test:
Unconsolidated Undrained

Sample Type: 3-in. Shelby Tube

Description: CLAYEY SAND(SC A-6(3))

Specific Gravity= 2.706

Remarks: Compression Failure Mode: Symmetrical Bulge

Figure _____

Client: ALDOT

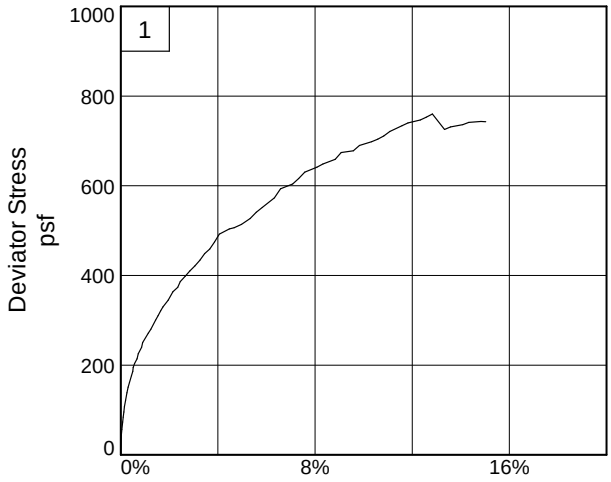
Project: Mobile River Bridge

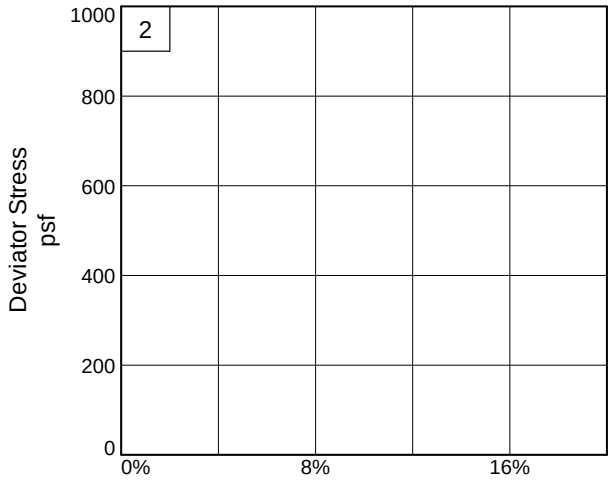
Source of Sample: 11/20/15 **Depth:** 39.0-41.0'

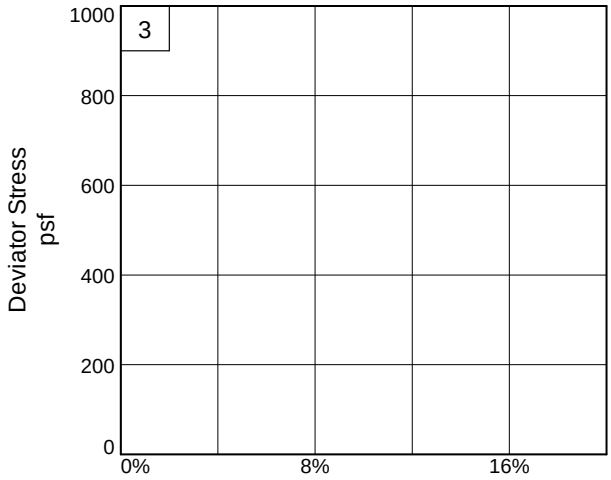
Sample Number: BW-127 T-1

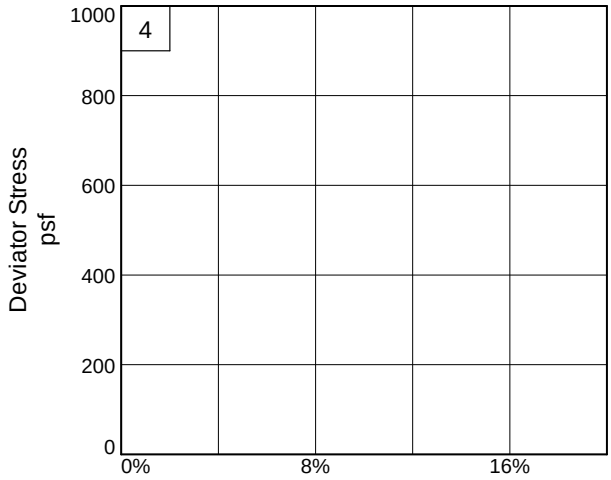
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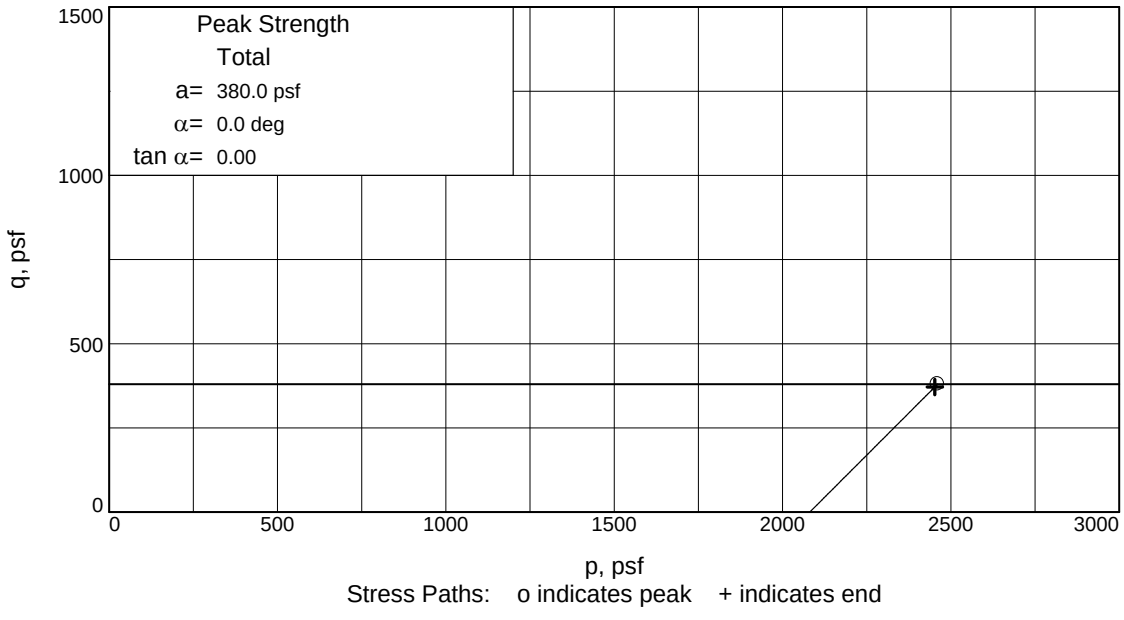
TRIAXIAL SHEAR TEST REPORT
Thompson Engineering
Mobile, Alabama











Client: ALDOT
Project: Mobile River Bridge
Source of Sample: 11/20/15 **Depth:** 39.0-41.0' **Sample Number:** BW-127 T-1
Project No.: 1511010228 **Figure** _____

Thompson Engineering

Thompson Engineering

Direct Shear Test (ASTM D3080)

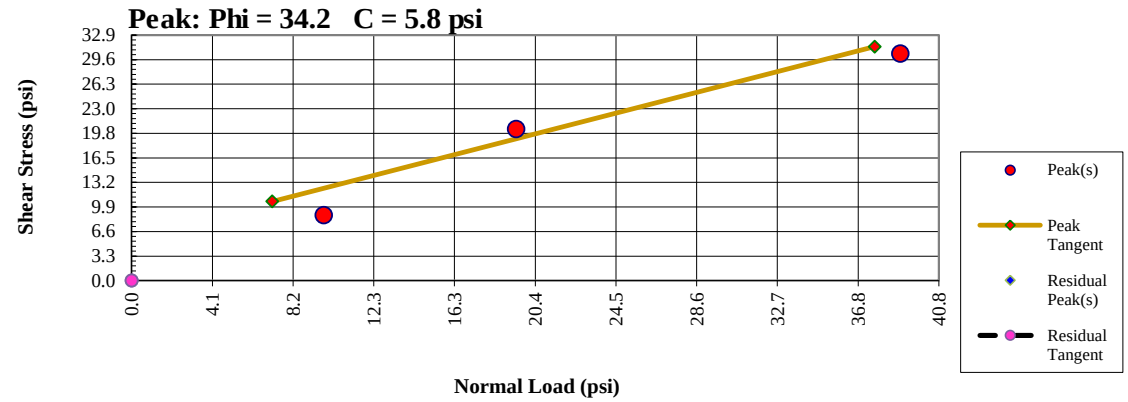
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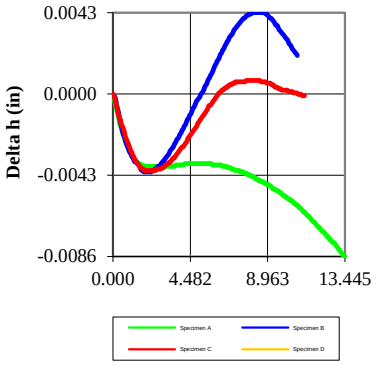
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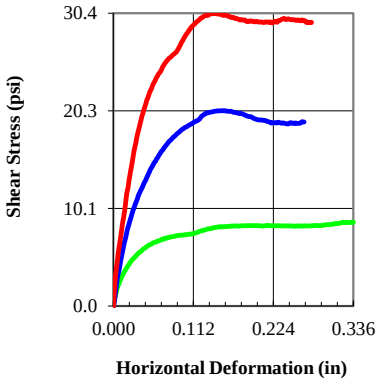
Date

Date

Tested By





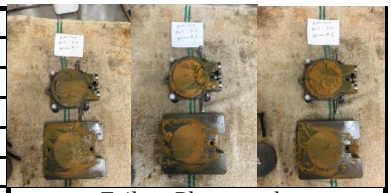


Initial	Specimen A	B	C	D
Moisture (%)	24.17	25.25	24.00	
Density (pcf)	95.67	95.74	95.86	
Void Ratio	0.697	0.695	0.693	
Saturation (%)	90.22	94.43	90.02	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	27.42	27.04	27.96	
Density (pcf)	97.58	98.17	96.78	
Void Ratio	0.663	0.653	0.677	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.978	0.968	0.958	
Normal Stress (psi)	9.7	19.4	38.9	
Peak Stress (psi)	8.8	20.3	30.4	
Residual Stress (psi)				
Strain (%)	13.387	10.682	11.098	
Rate (in/min)	0.00906	0.00957	0.00851	

Project Date	
Date	6/6/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7905
Boring Number	BW-3
Sample Number:	T-2
Depth:	28.5-30.5 ft.
Sample Type:	Undisturbed
Description:	POORLY GRADED SAND with SILT(SP-SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

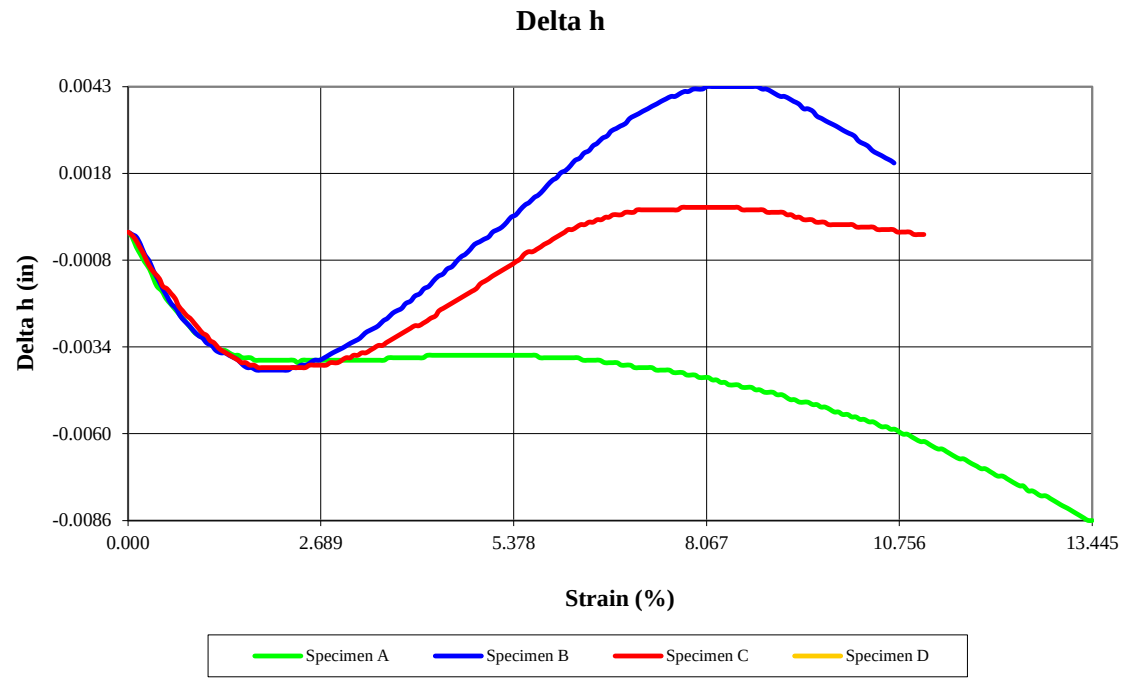
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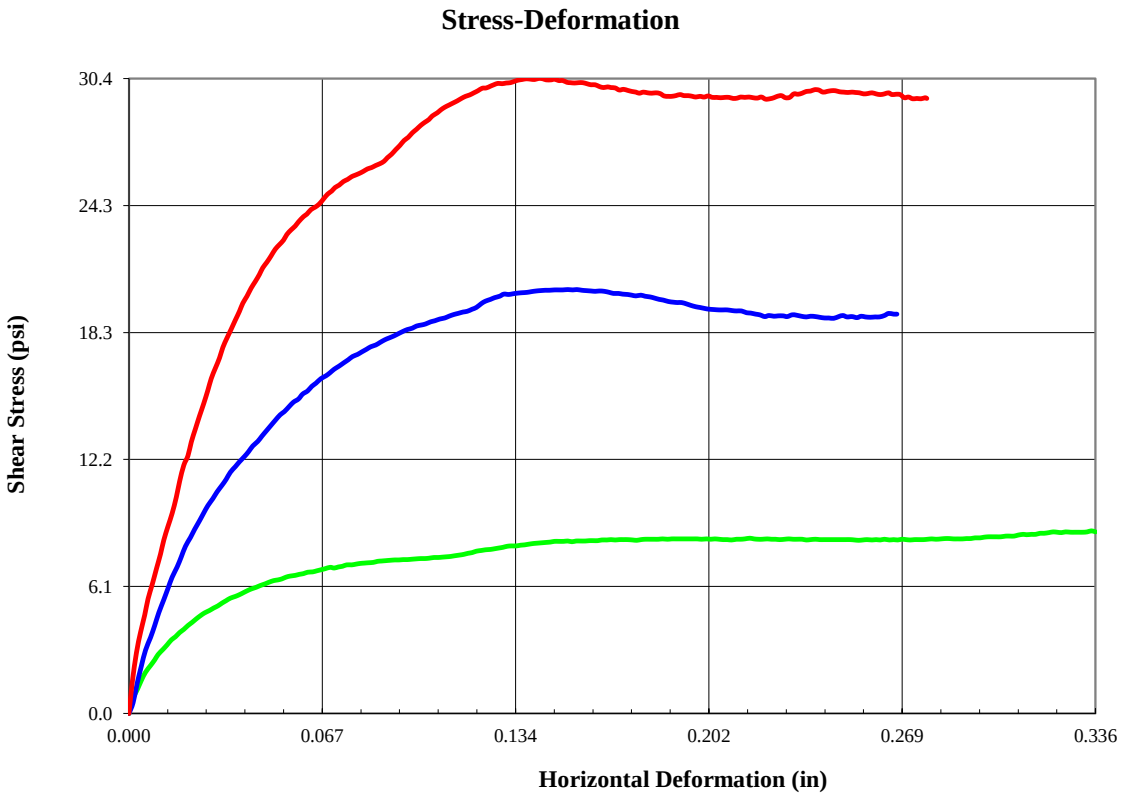
Checked By

Date

Date

Tested By





DS 16-1101-0176 BW-3 T-2.HSD

Thompson Engineering

Direct Shear Test

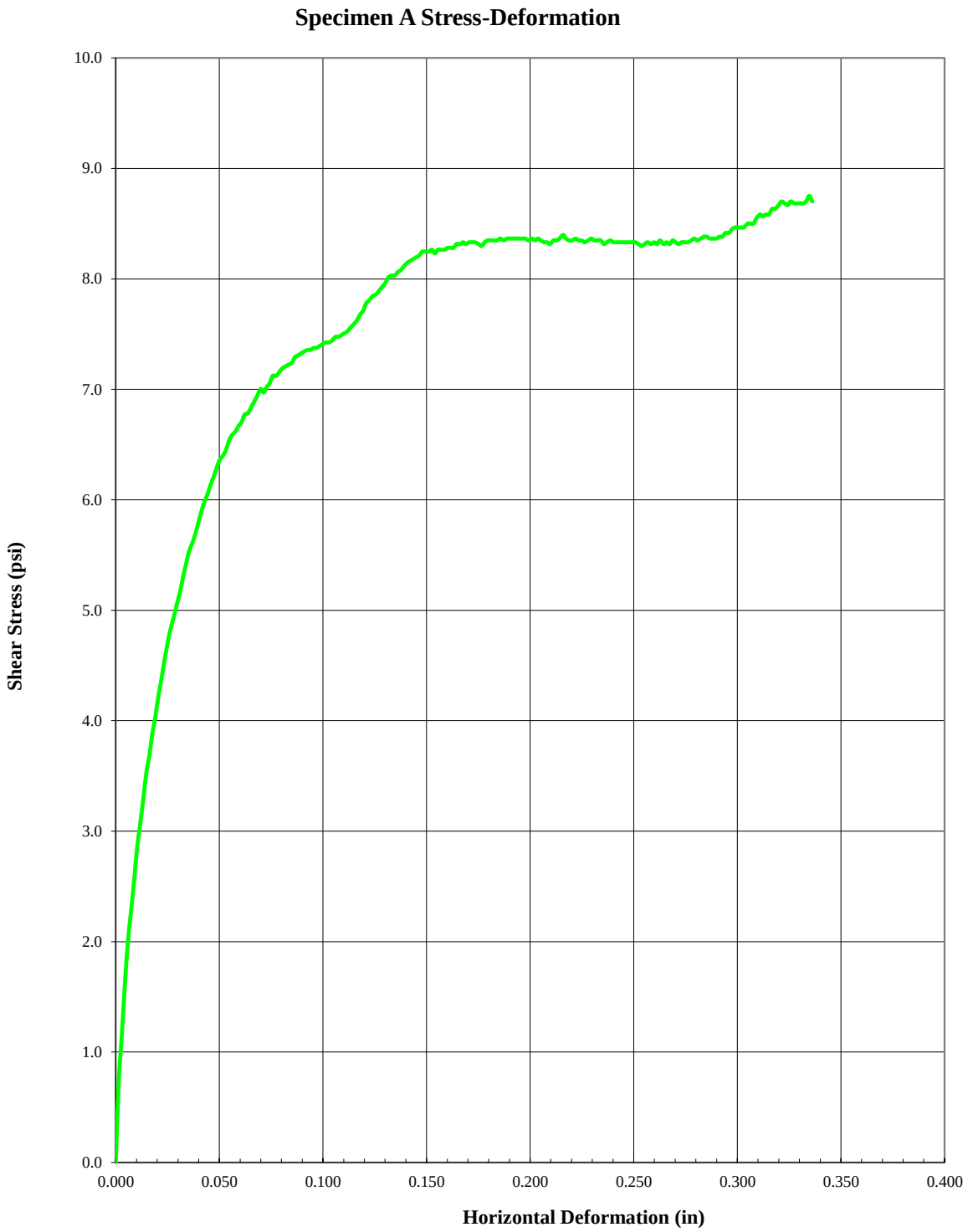
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Tested By



DS 16-1101-0176 BW-3 T-2.HSD

Thompson Engineering

Direct Shear Test

Date

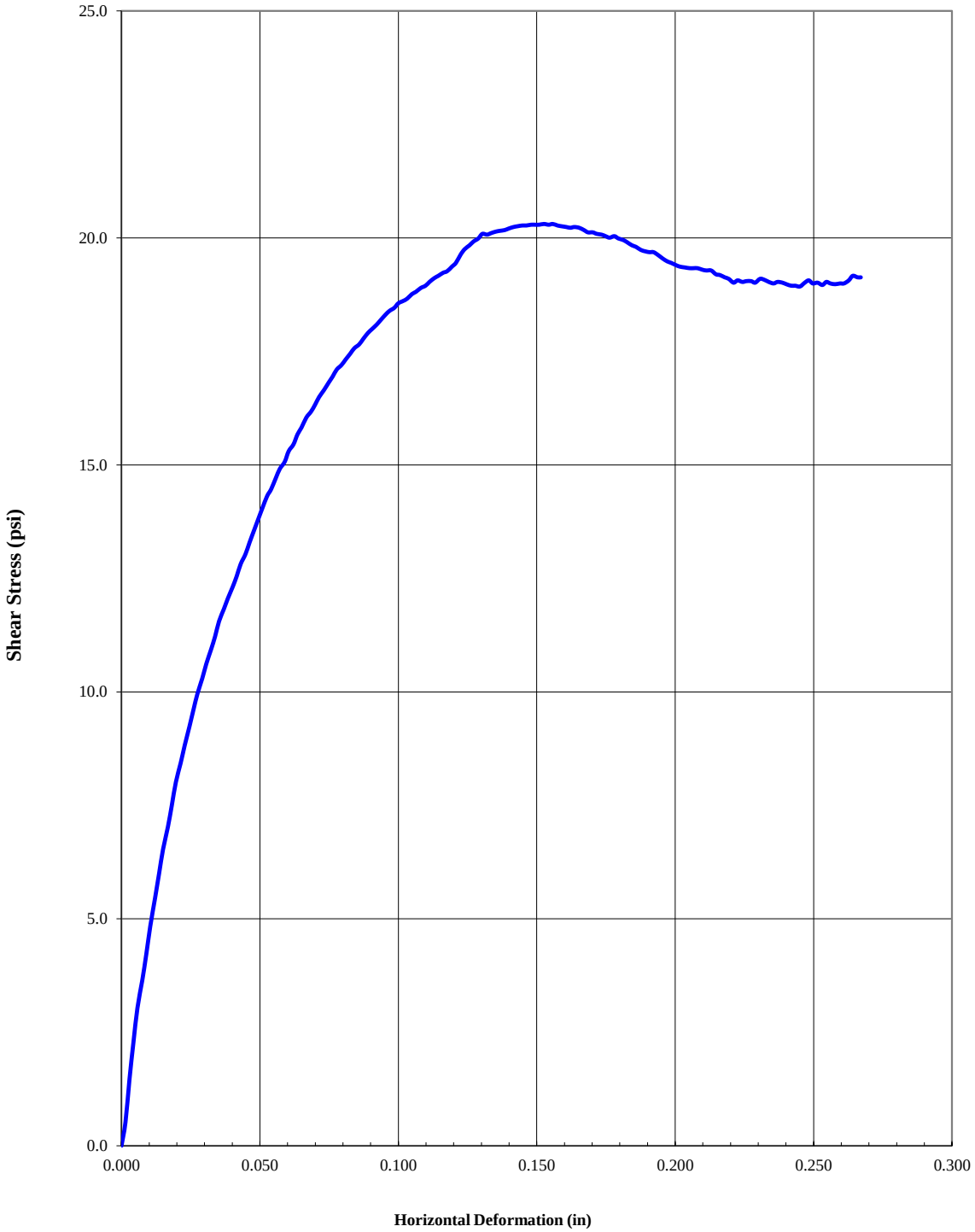
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-3 T-2.HSD

Thompson Engineering

Direct Shear Test

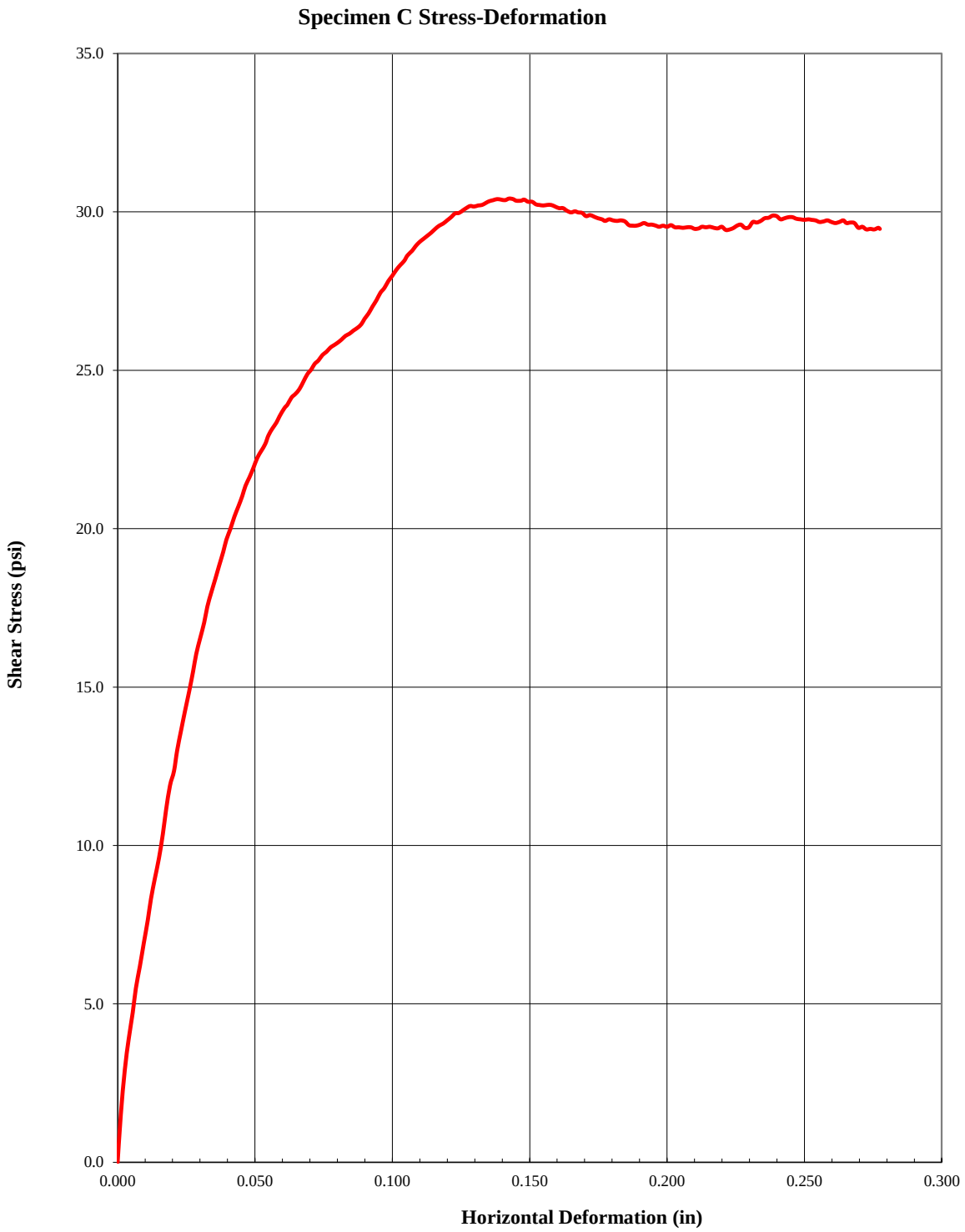
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Date

Tested By



DS 16-1101-0176 BW-3 T-2.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

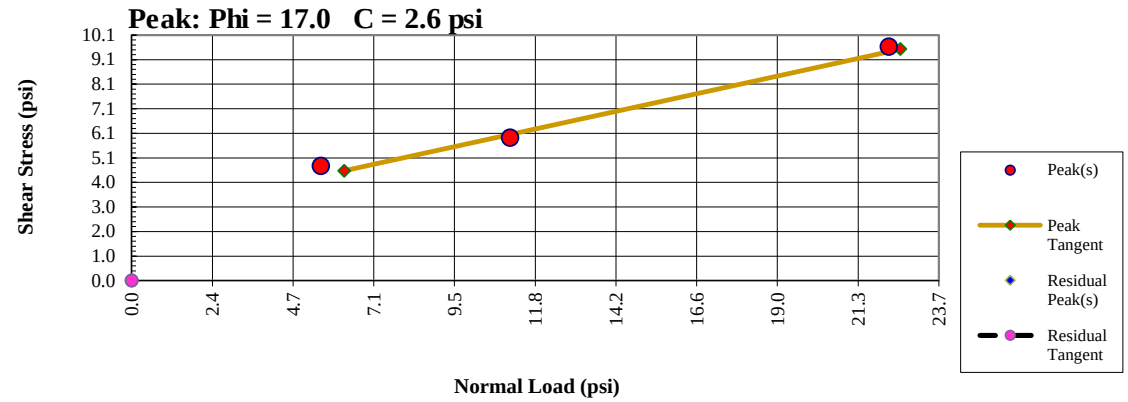
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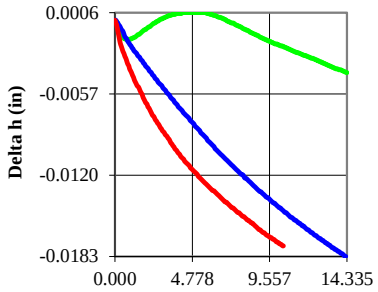
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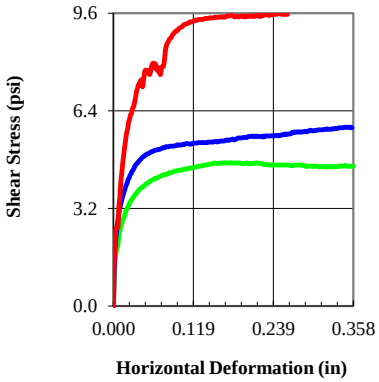
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Tested By







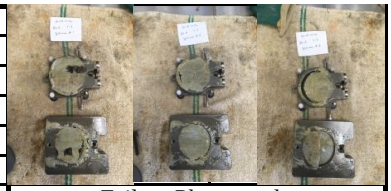


Initial	Specimen A	B	C	D
Moisture (%)	27.98	29.13	28.70	
Density (pcf)	95.03	91.28	93.13	
Void Ratio	0.708	0.778	0.743	
Saturation (%)	100.00	97.31	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	27.68	29.96	26.72	
Density (pcf)	98.81	93.90	98.18	
Void Ratio	0.643	0.729	0.653	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.980	0.944	0.932	
Normal Stress (psi)	5.6	11.1	22.2	
Peak Stress (psi)	4.7	5.9	9.6	
Residual Stress (psi)				
Strain (%)	14.335	14.023	10.405	
Rate (in/min)	0.00658	0.006	0.006	

Project Date	
Date	6/7/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7905
Boring Number	BW-6
Sample Number:	T-3
Depth:	33.5-35.5 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-7-6(10))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

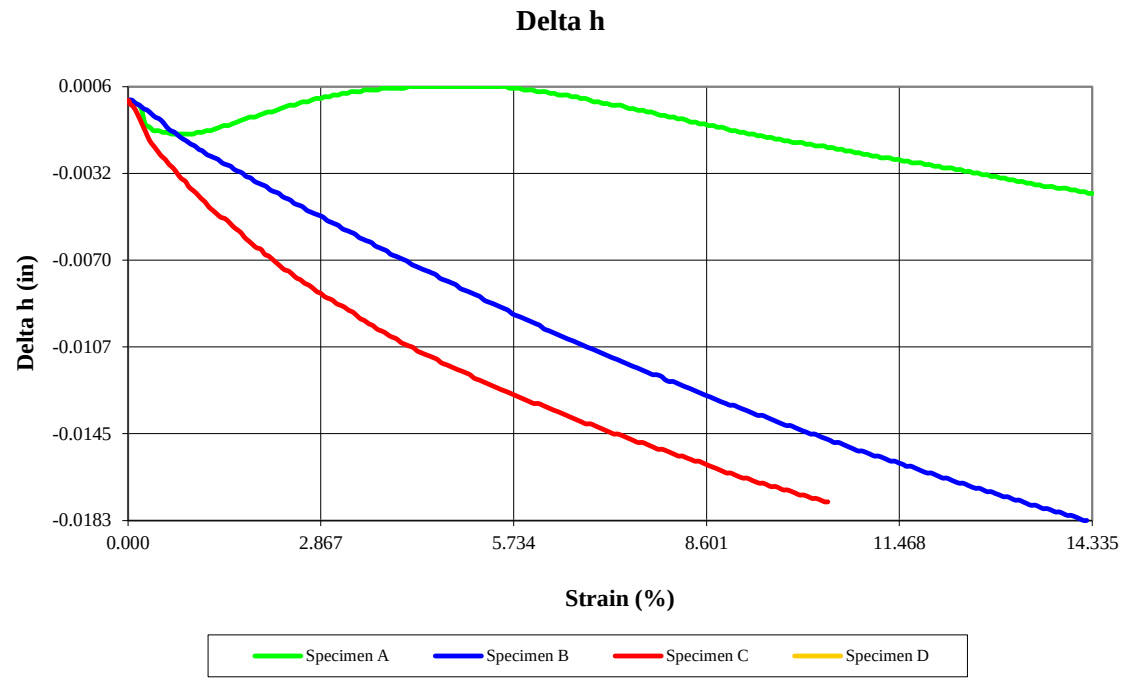
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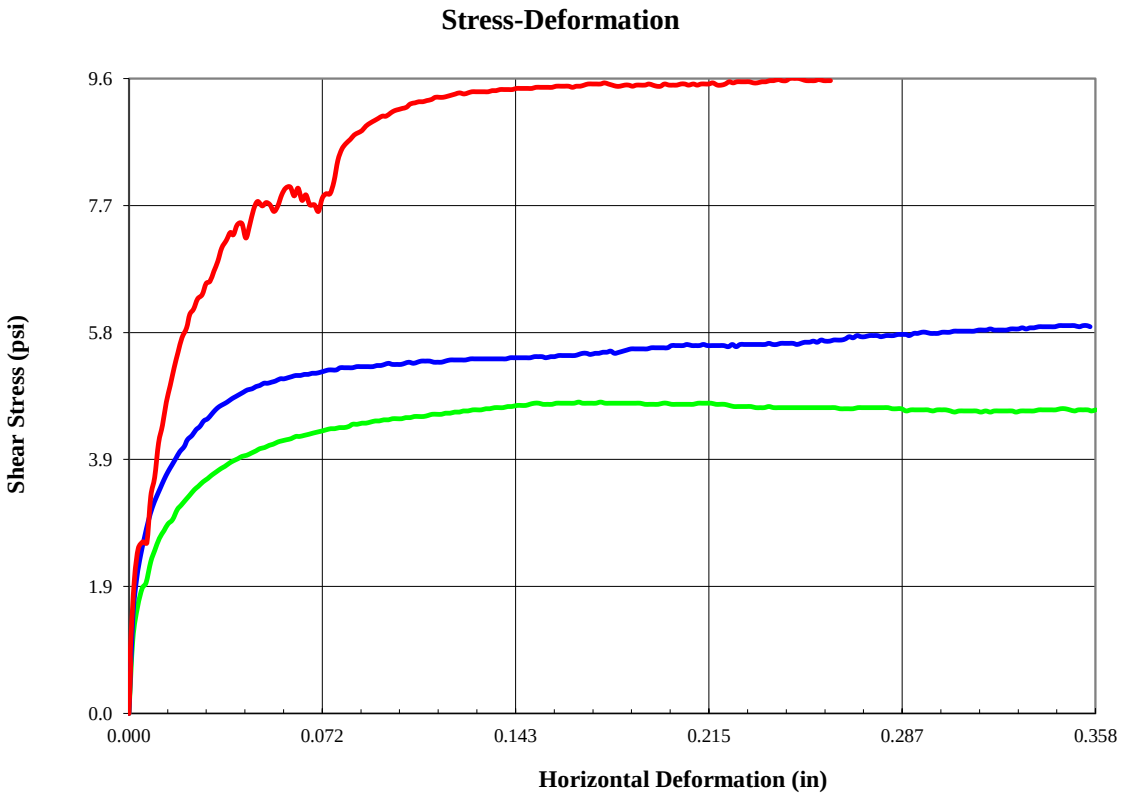
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Date

Date

Tested By





Thompson Engineering

Direct Shear Test

Date

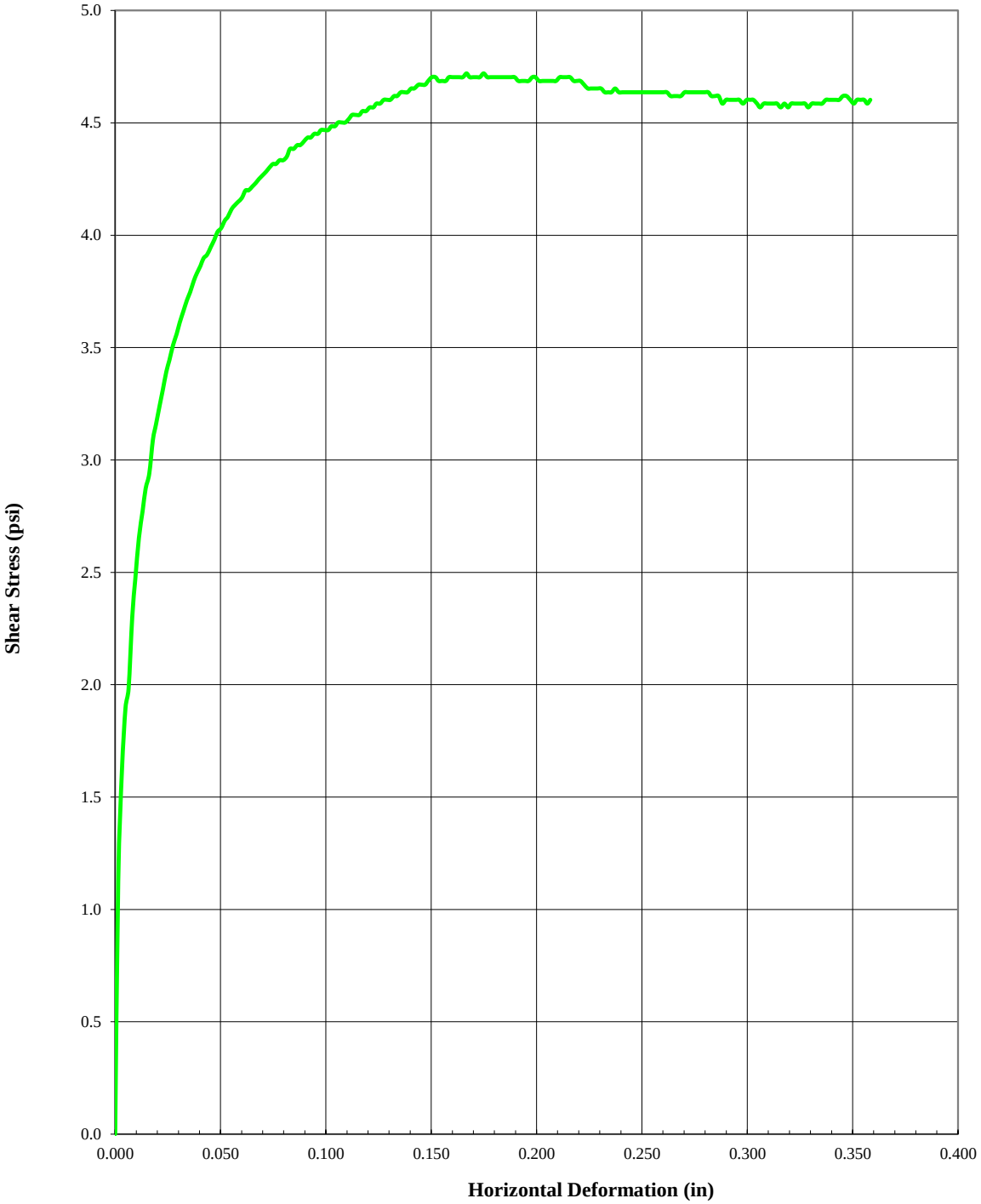
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-6 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

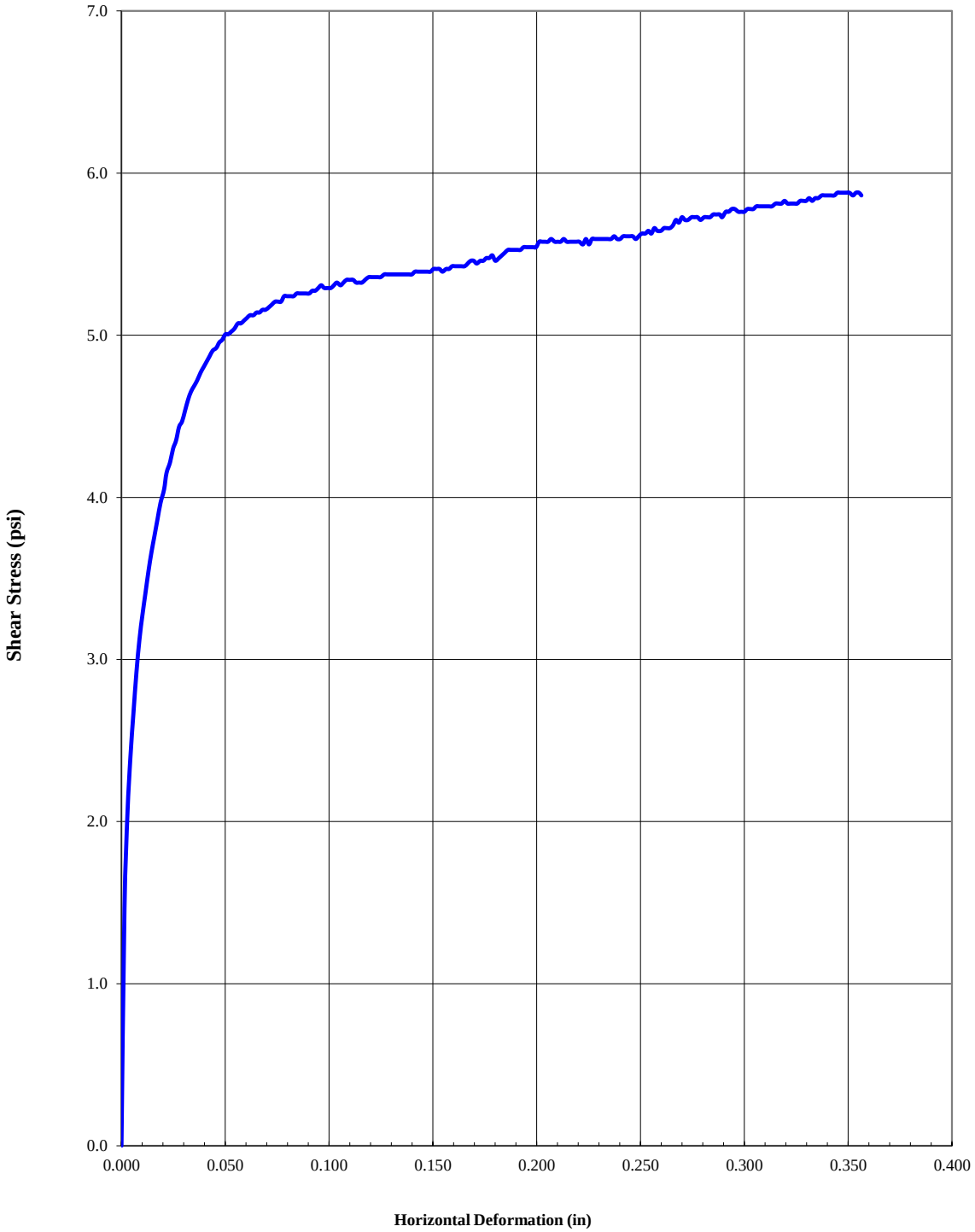
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-6 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

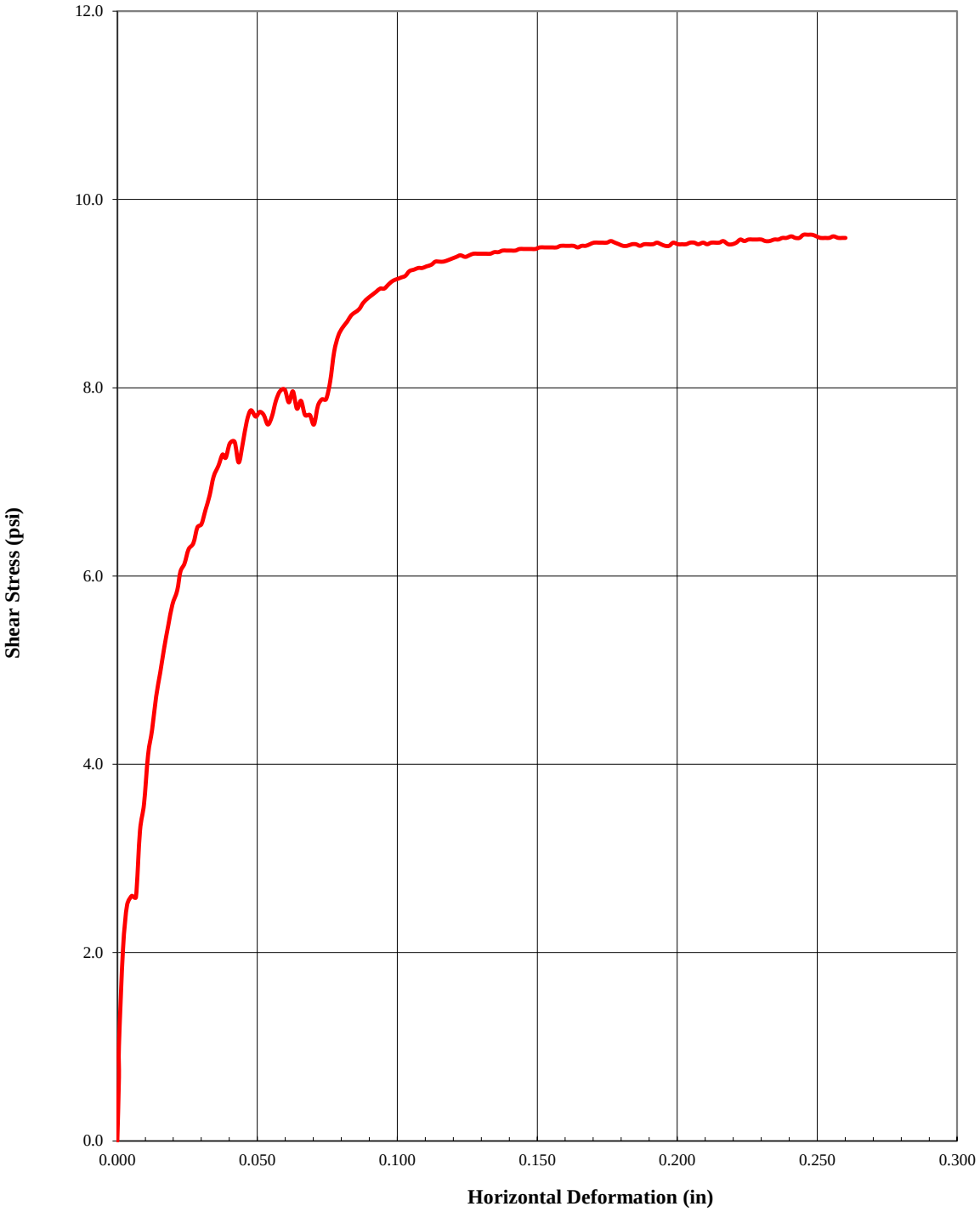
Checked By

Date

Date

Tested By

Specimen C Stress-Deformation



DS 16-1101-0176 BW-6 T-3.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

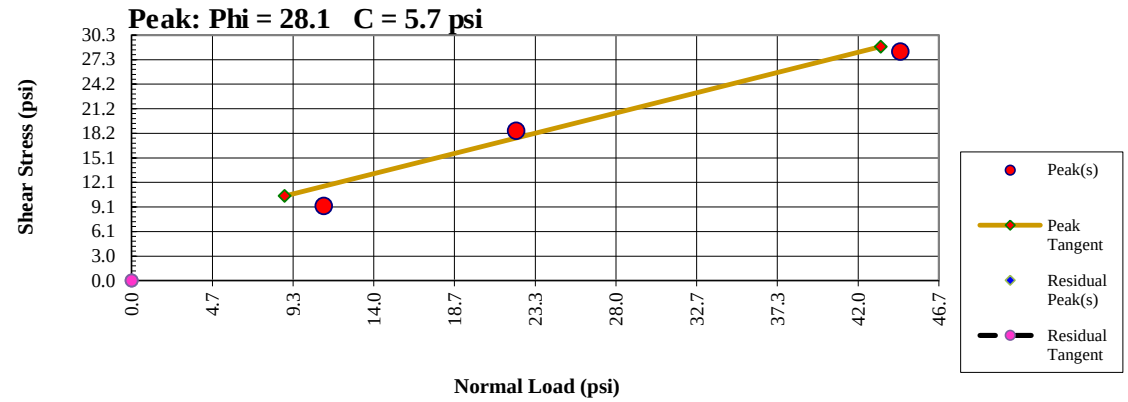
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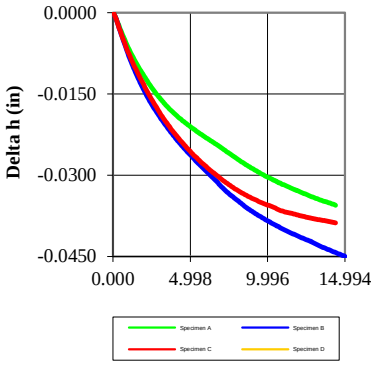
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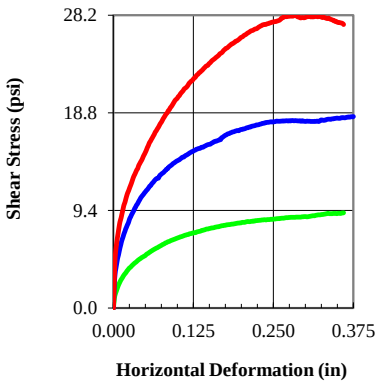
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Tested By





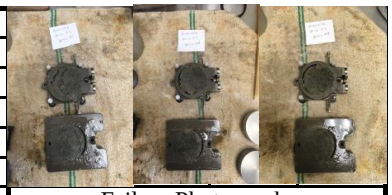


Initial	Specimen A	B	C	D
Moisture (%)	25.14	25.42	24.41	
Density (pcf)	97.09	95.32	95.86	
Void Ratio	0.672	0.703	0.693	
Saturation (%)	97.30	94.04	91.57	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	22.99	25.42	21.53	
Density (pcf)	106.08	93.68	98.20	
Void Ratio	0.530	0.733	0.653	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.946	0.897	0.887	
Normal Stress (psi)	11.1	22.2	44.4	
Peak Stress (psi)	9.2	18.5	28.2	
Residual Stress (psi)				
Strain (%)	14.382	14.994	14.382	
Rate (in/min)	0.00835	0.00792	0.00936	

Project Date	
Date	6/12/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-10
Sample Number:	T-3
Depth:	33.0-35.0 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-6(1))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

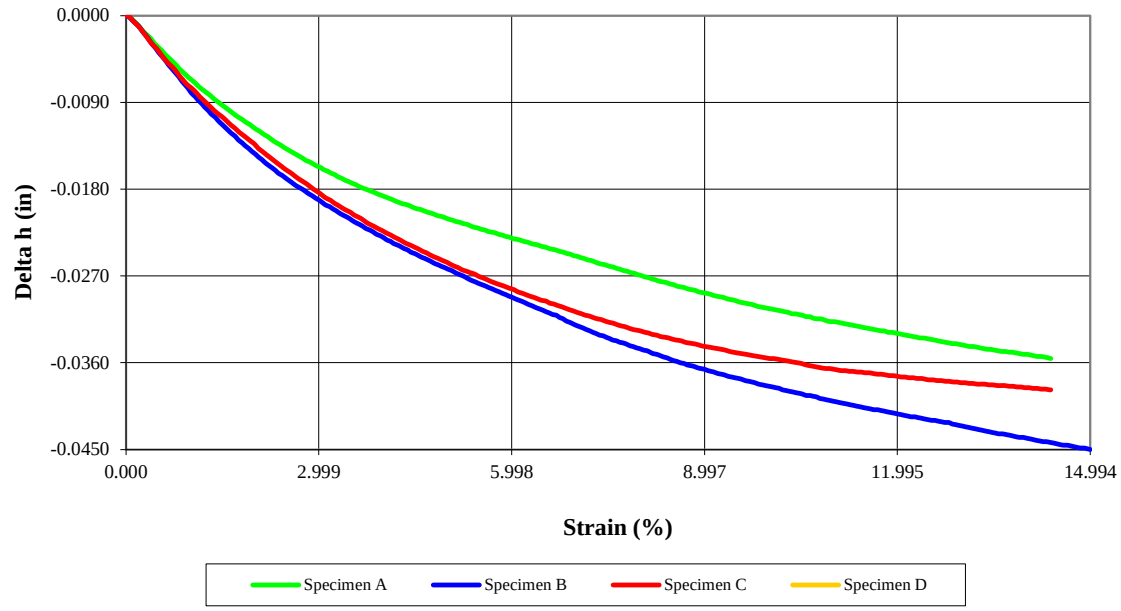
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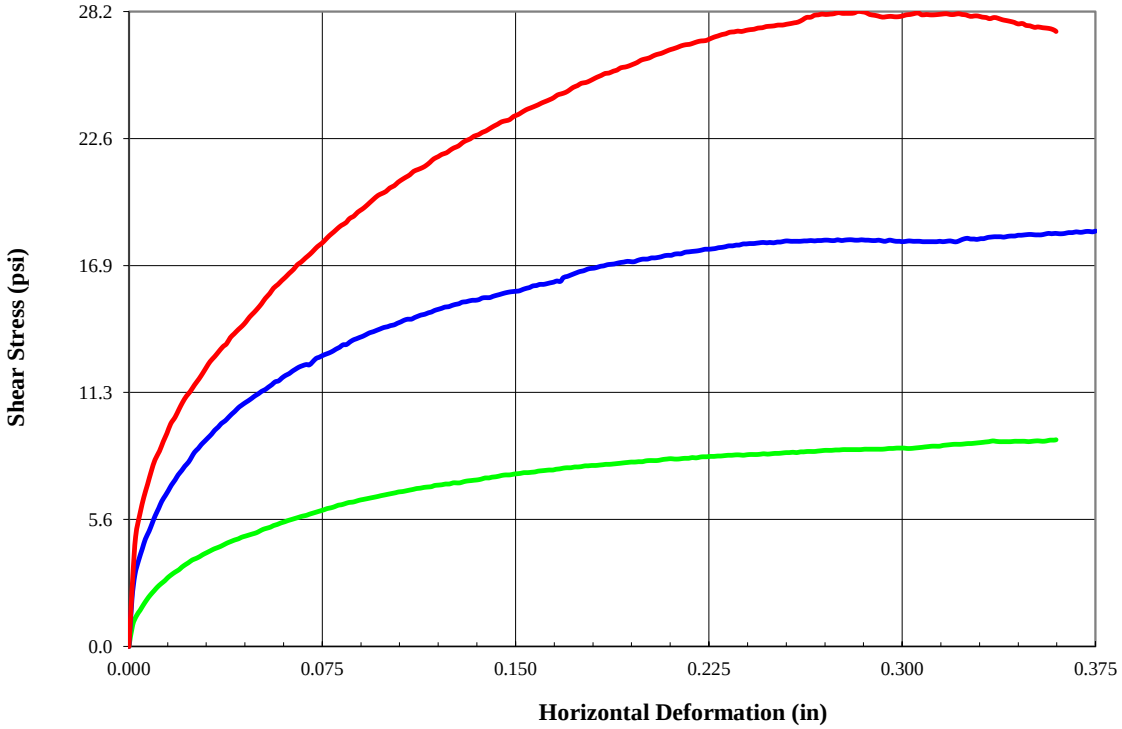
Date

Tested By

Delta h



Stress-Deformation



DS 16-1101-0176 BW-10 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

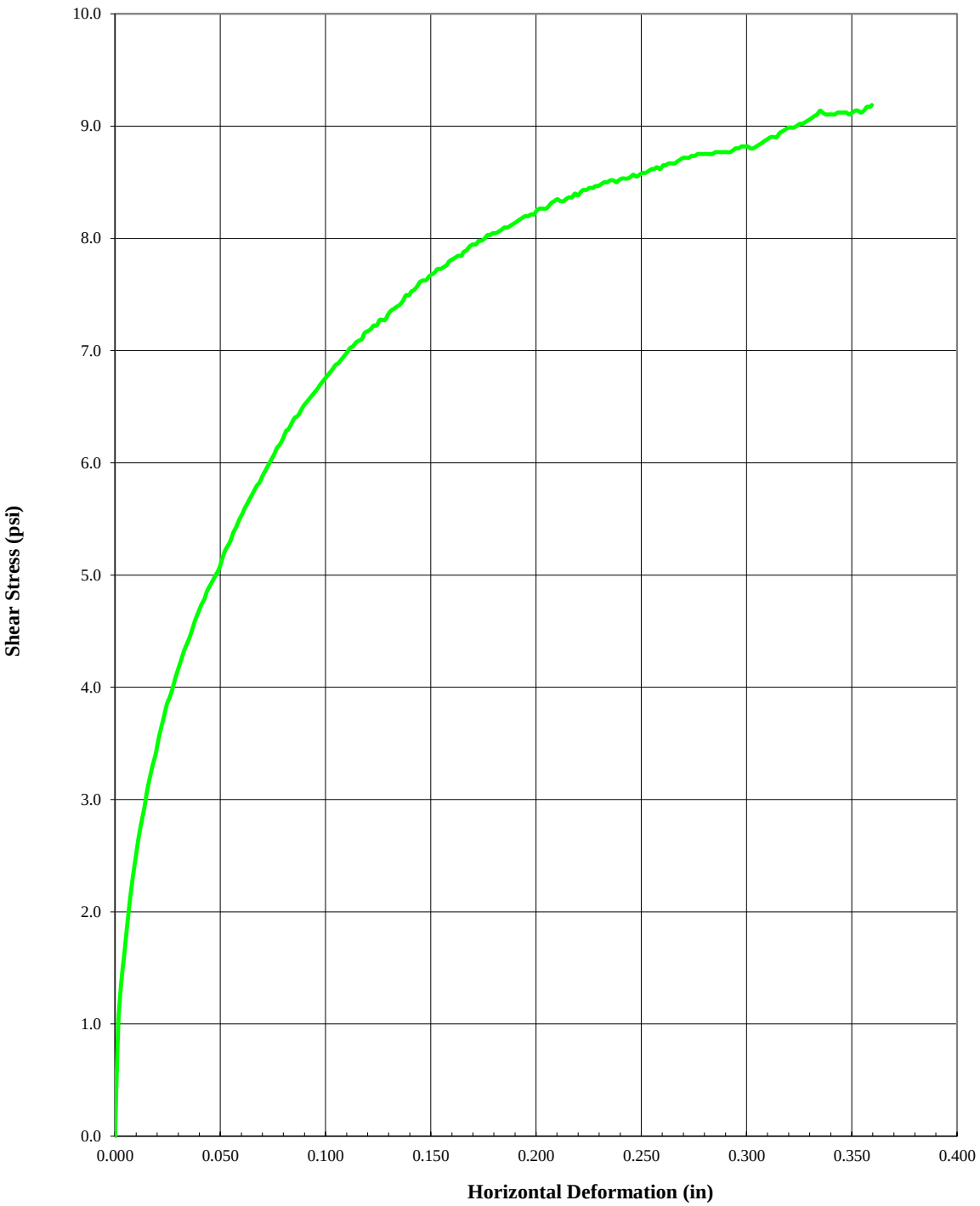
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-10 T-3.HSD

Thompson Engineering

Direct Shear Test

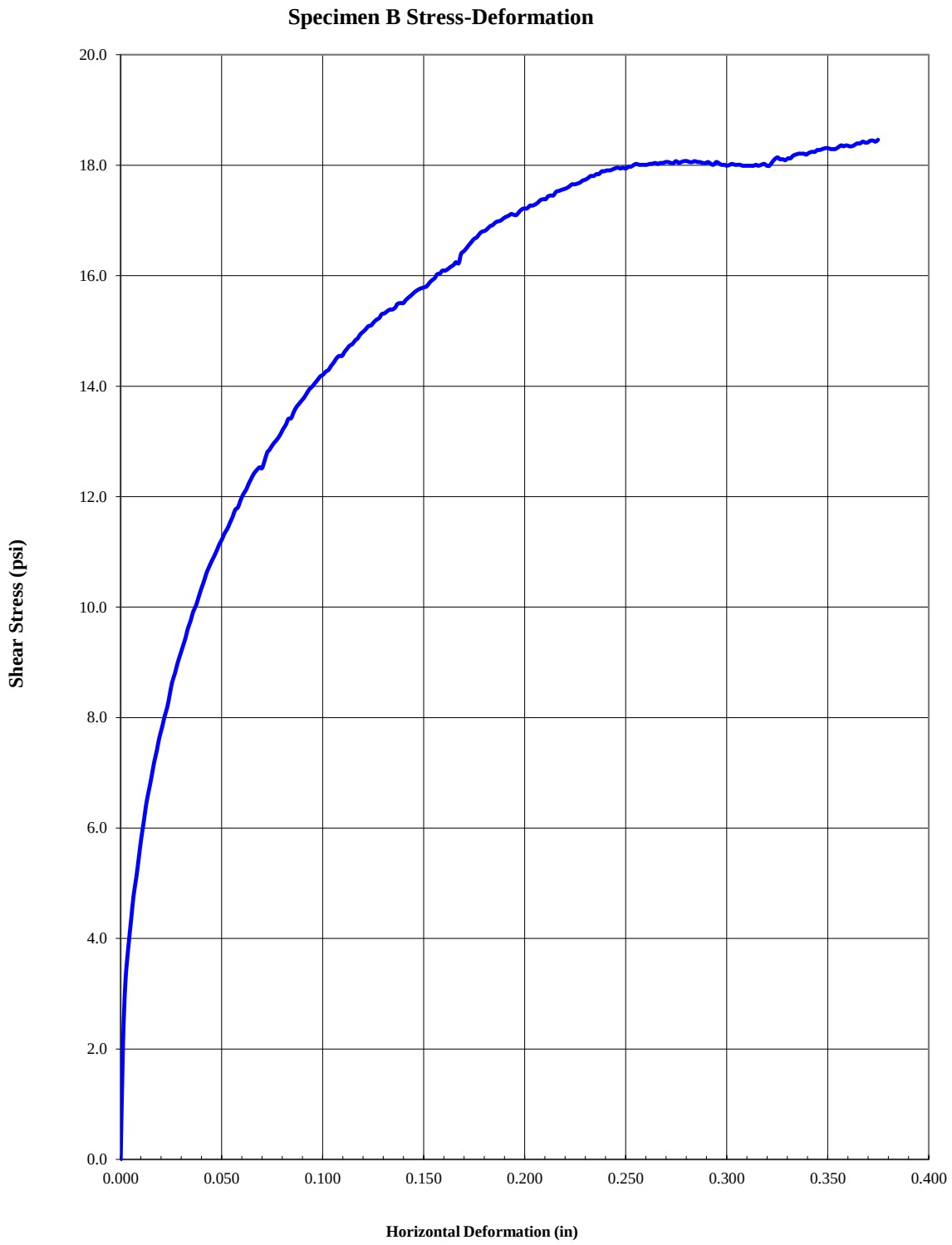
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Tested By



DS 16-1101-0176 BW-10 T-3.HSD

Thompson Engineering

Direct Shear Test

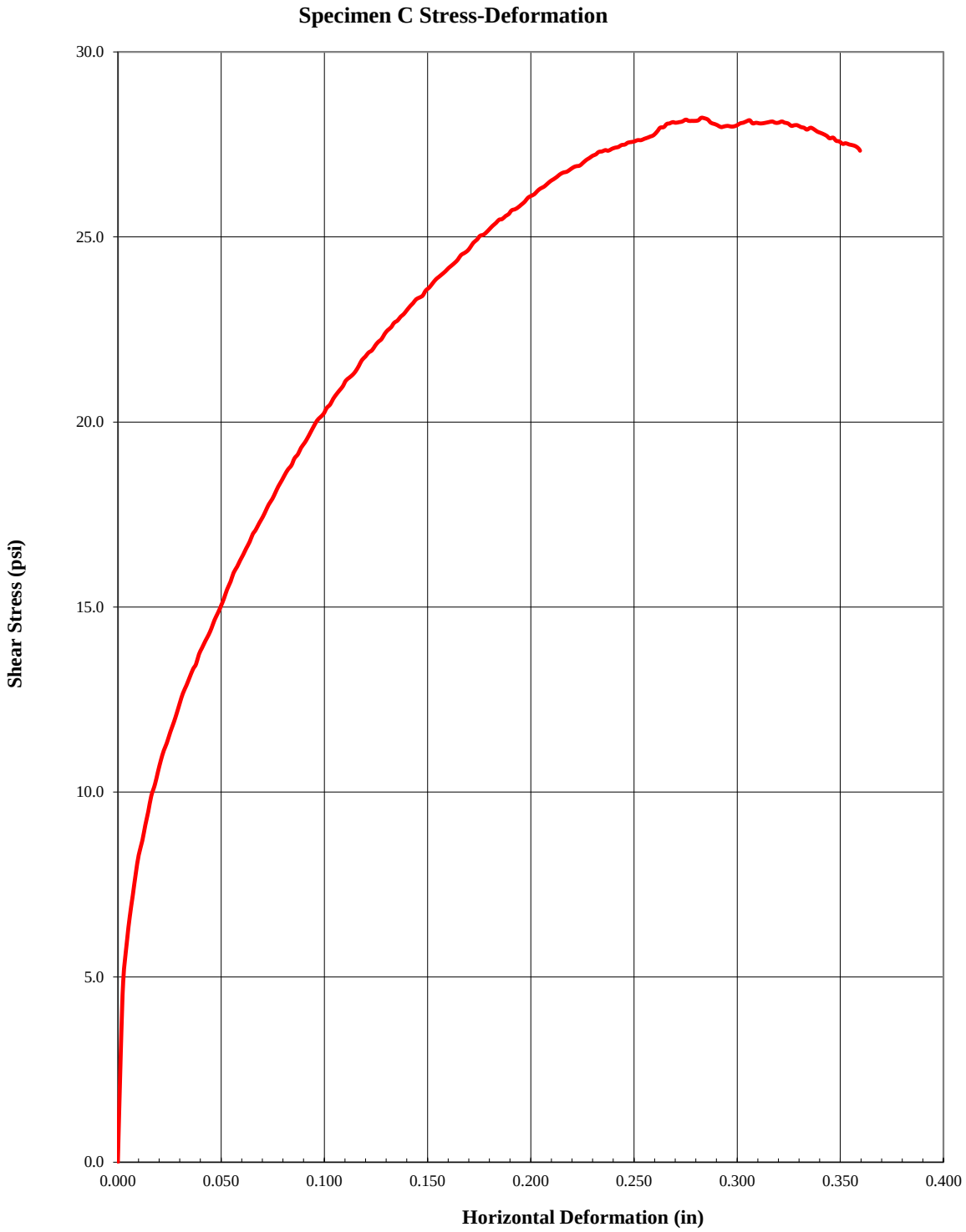
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Checked By

Date

Date

Tested By



DS 16-1101-0176 BW-10 T-3.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

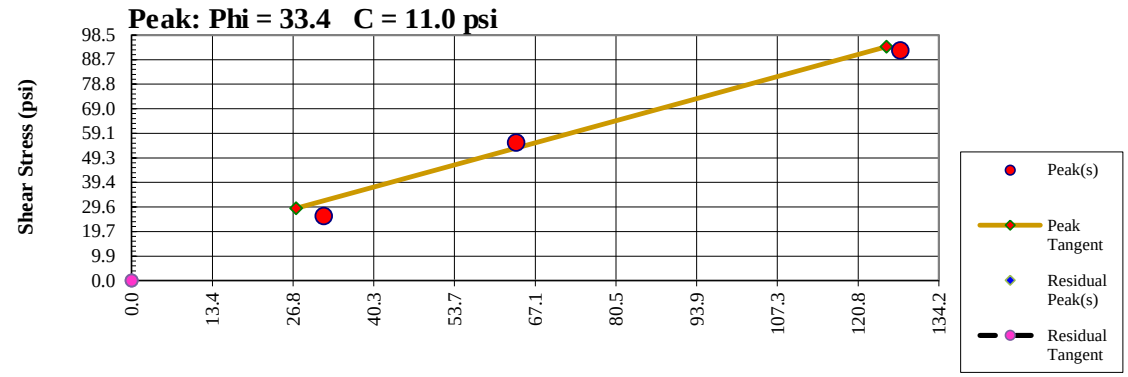
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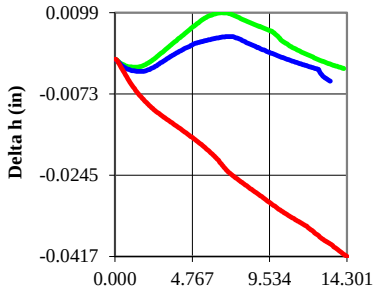
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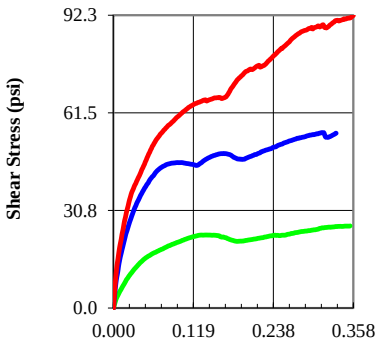
Date

Date

Tested By





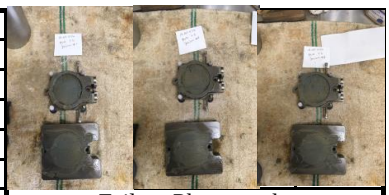


Initial	Specimen A	B	C	D
Moisture (%)	22.62	21.03	24.23	
Density (pcf)	98.61	99.51	86.78	
Void Ratio	0.646	0.631	0.870	
Saturation (%)	91.04	86.67	72.38	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	26.82	25.97	24.63	
Density (pcf)	101.96	100.86	92.09	
Void Ratio	0.592	0.609	0.763	
Saturation (%)	100.00	100.00	99.99	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.962	0.968	0.931	
Normal Stress (psi)	31.9	63.9	127.8	
Peak Stress (psi)	25.9	55.3	92.3	
Residual Stress (psi)				
Strain (%)	14.104	13.272	14.301	
Rate (in/min)	0.00758	0.00763	0.00812	

Project Date	
Date	6/13/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-10
Sample Number:	T-6
Depth:	98.0-100.0 ft.
Sample Type:	Undisturbed
Description:	POORLY GRADED SAND with SILT(SP-SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

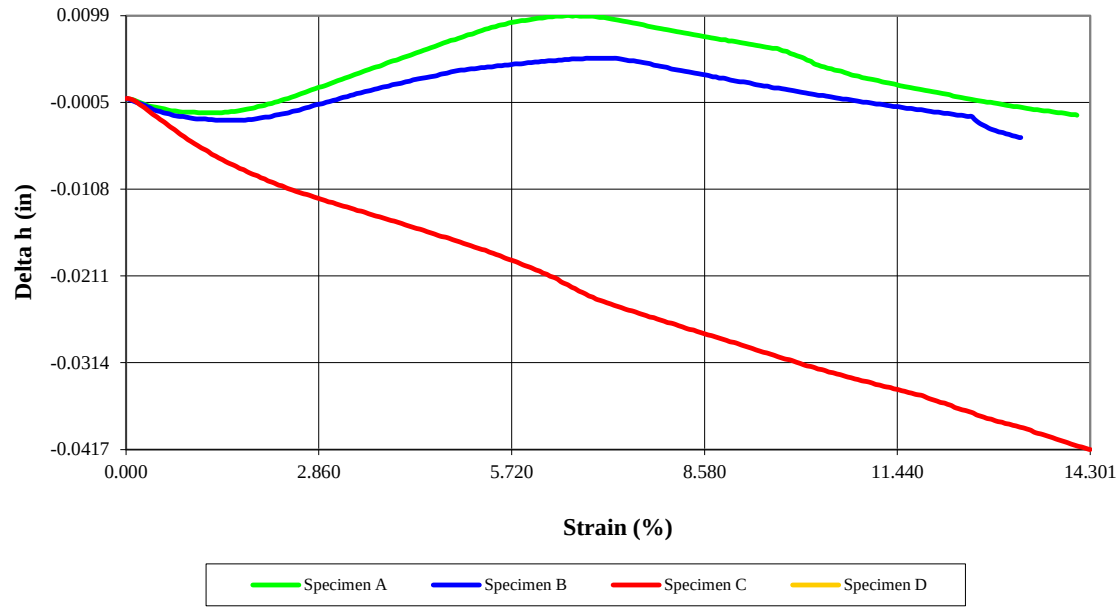
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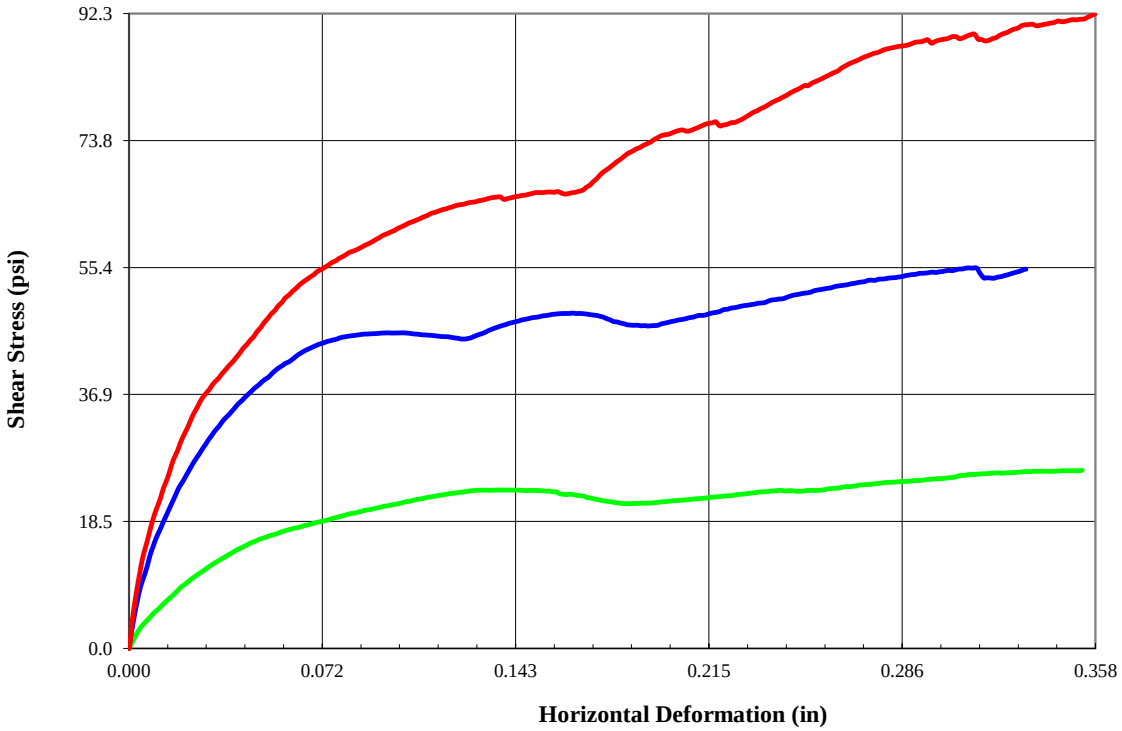
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-10 T-6.HSD

Thompson Engineering

Direct Shear Test

Date

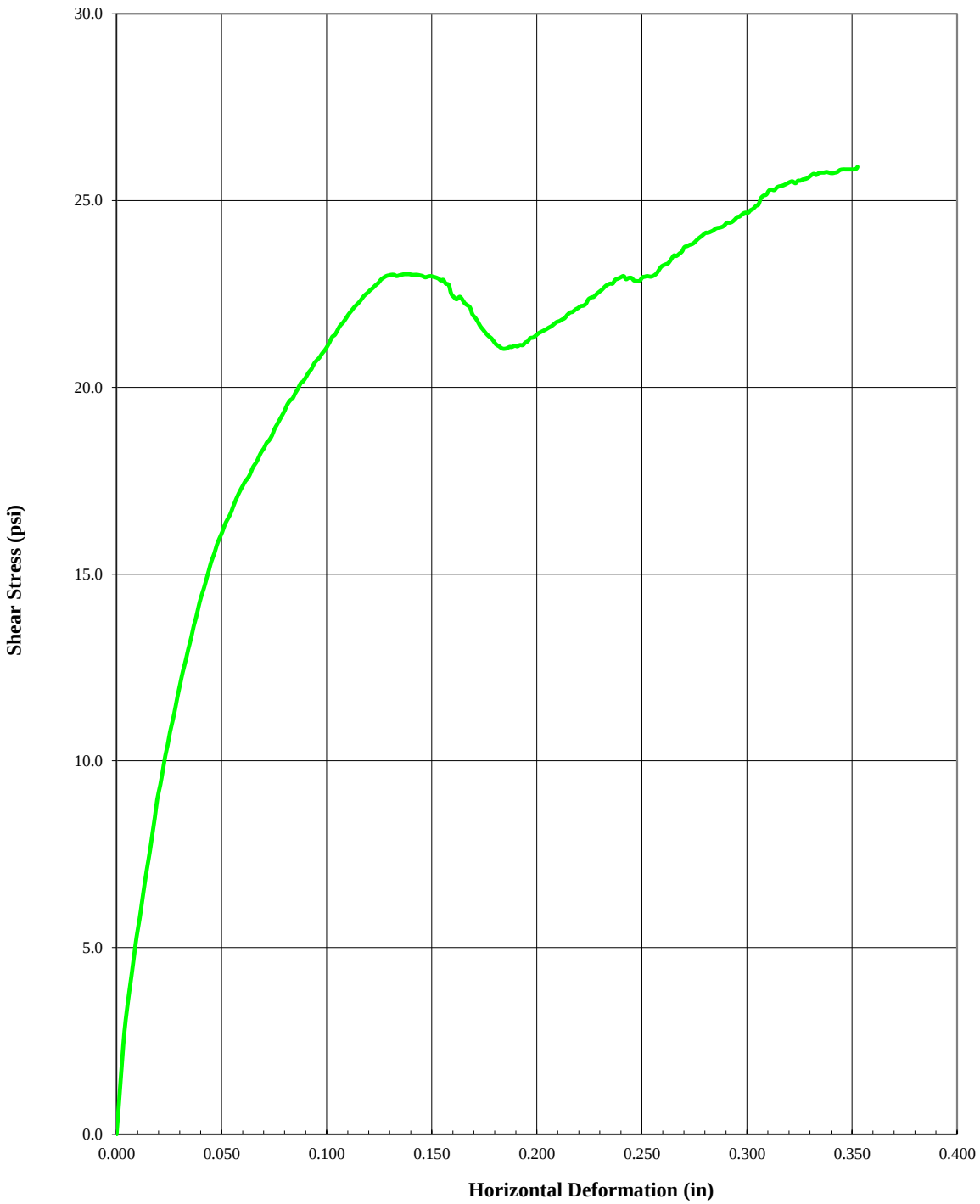
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-10 T-6.HSD

Thompson Engineering

Direct Shear Test

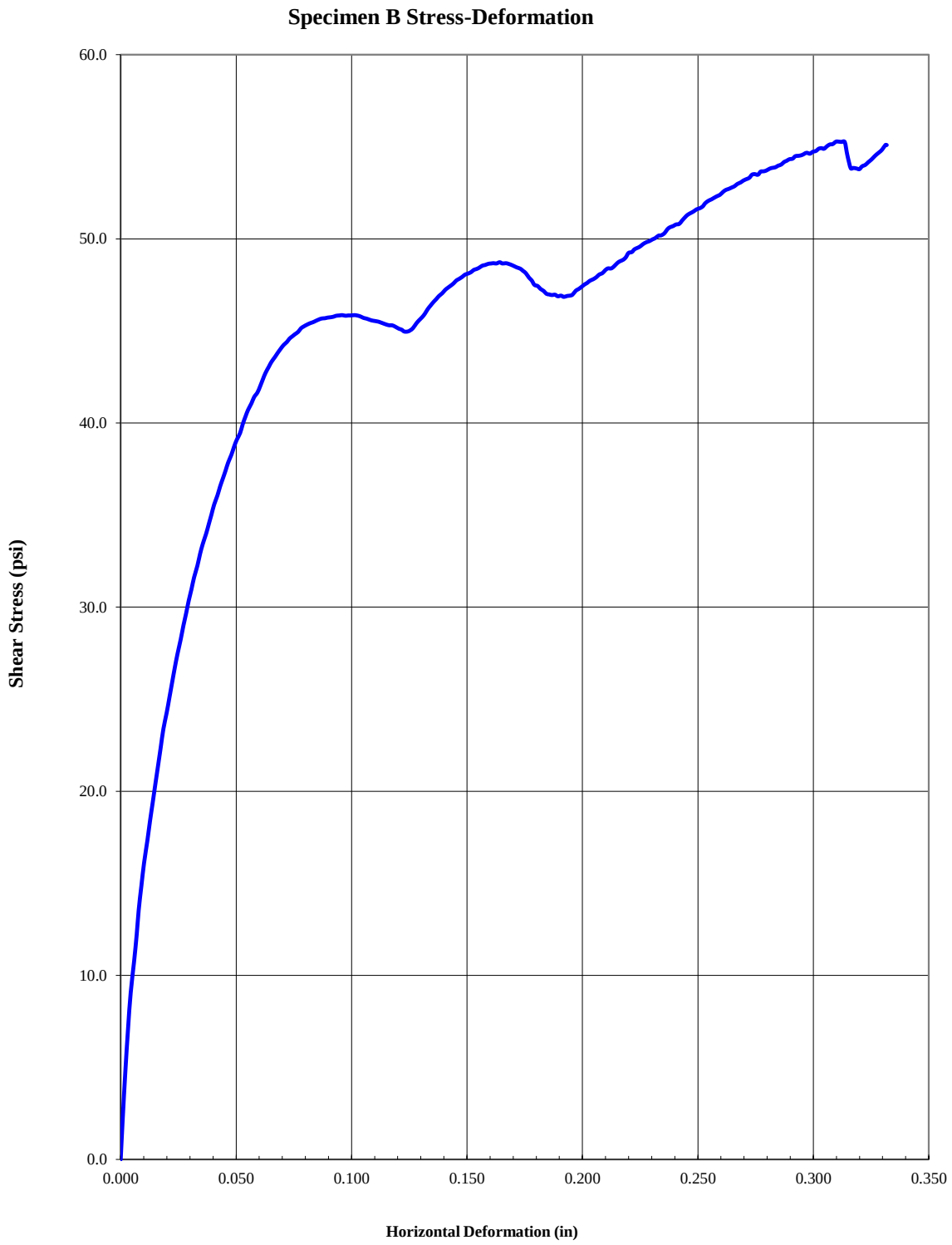
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Date

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Tested By



DS 16-1101-0176 BW-10 T-6.HSD

Thompson Engineering

Direct Shear Test

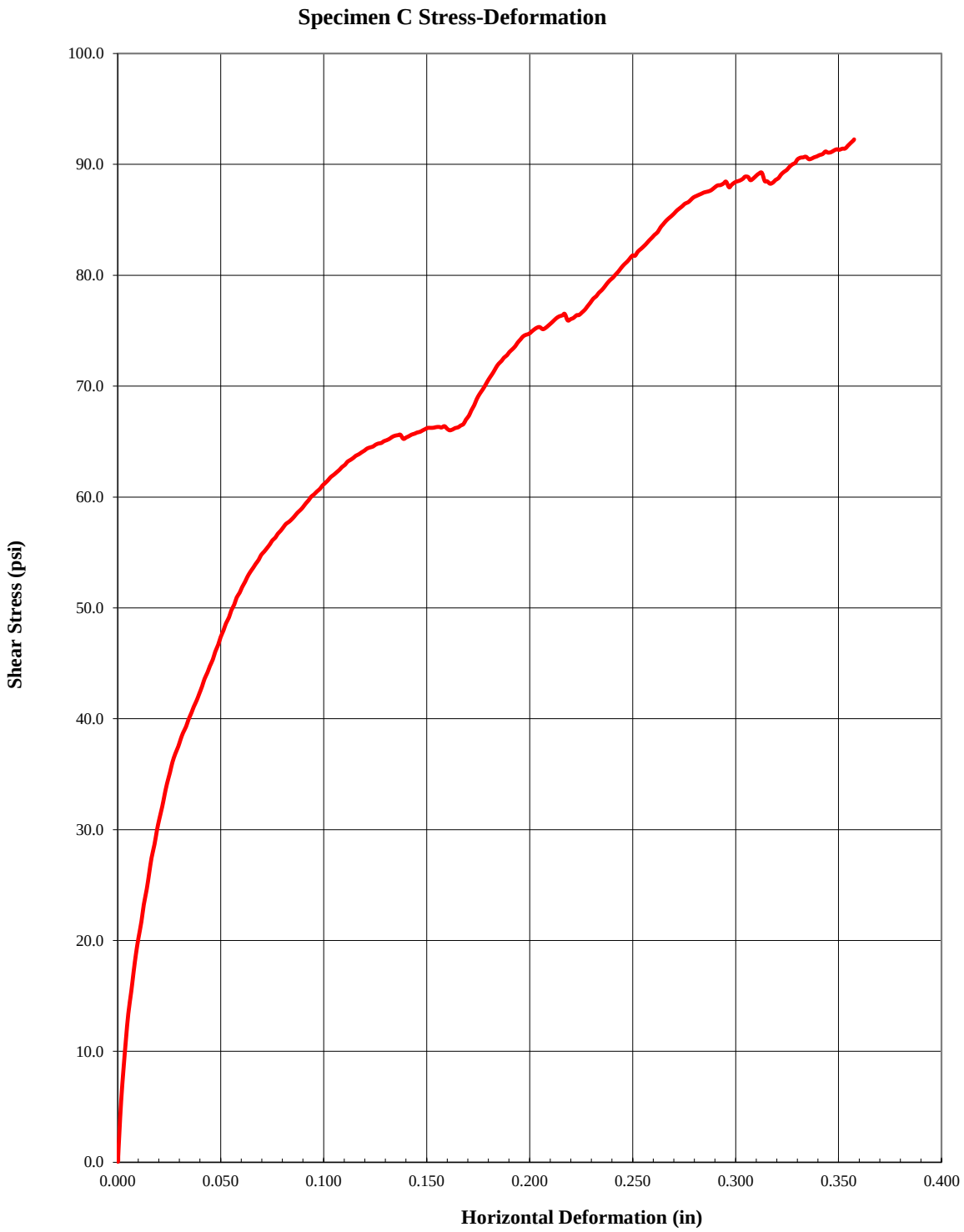
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Date

Tested By



DS 16-1101-0176 BW-10 T-6.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

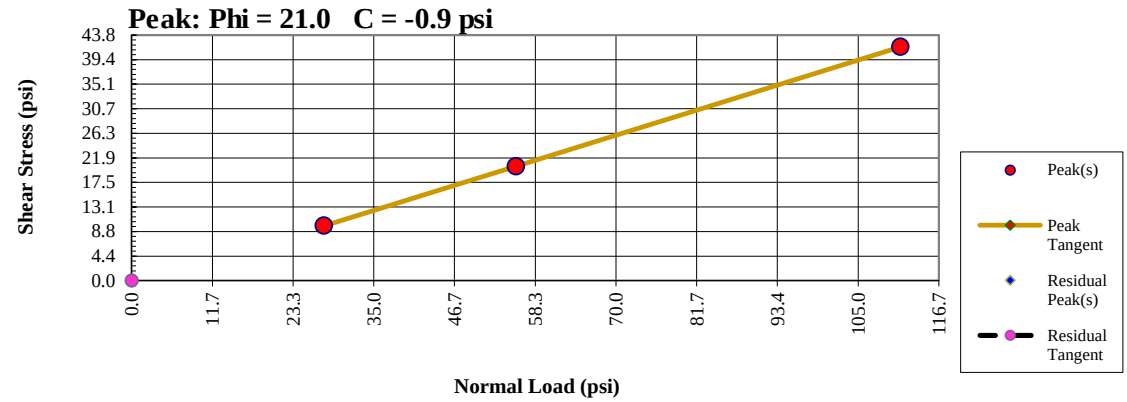
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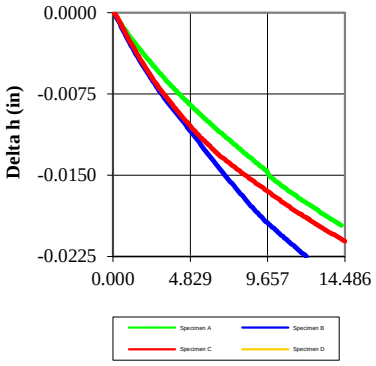
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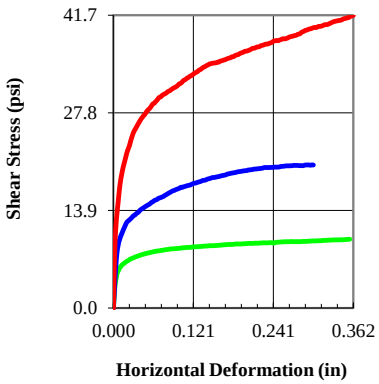
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	36.50	38.58	35.85	
Density (pcf)	86.26	83.99	85.29	
Void Ratio	0.882	0.932	0.903	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	24.59	20.41	18.36	
Density (pcf)	93.98	92.45	90.69	
Void Ratio	0.727	0.756	0.790	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.806	0.736	0.714	
Normal Stress (psi)	27.8	55.6	111.1	
Peak Stress (psi)	9.8	20.4	41.7	
Residual Stress (psi)				
Strain (%)	14.266	11.977	14.486	
Rate (in/min)	0.008	0.008	0.008	

Project Date	
Date	6/20/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-12
Sample Number:	T-5
Depth:	98.0-100.0 ft.
Sample Type:	Undisturbed
Description:	LEAN CLAY with SAND(CL A-7-6(16))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

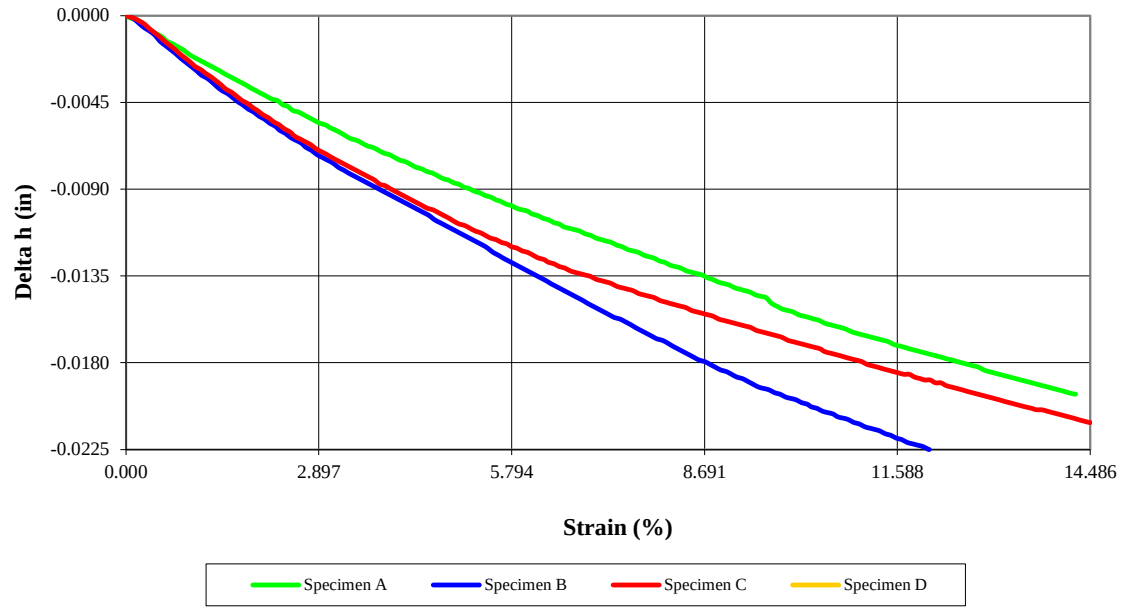
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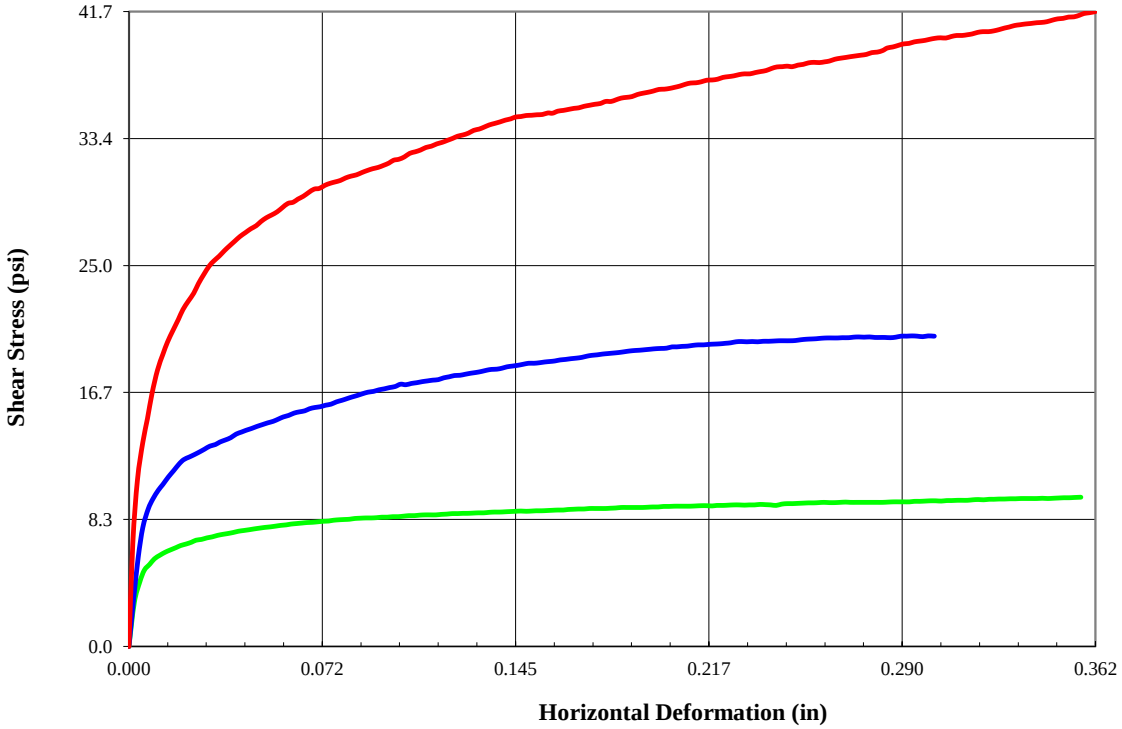
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-12 T-5.HSD

Thompson Engineering

Direct Shear Test

Date

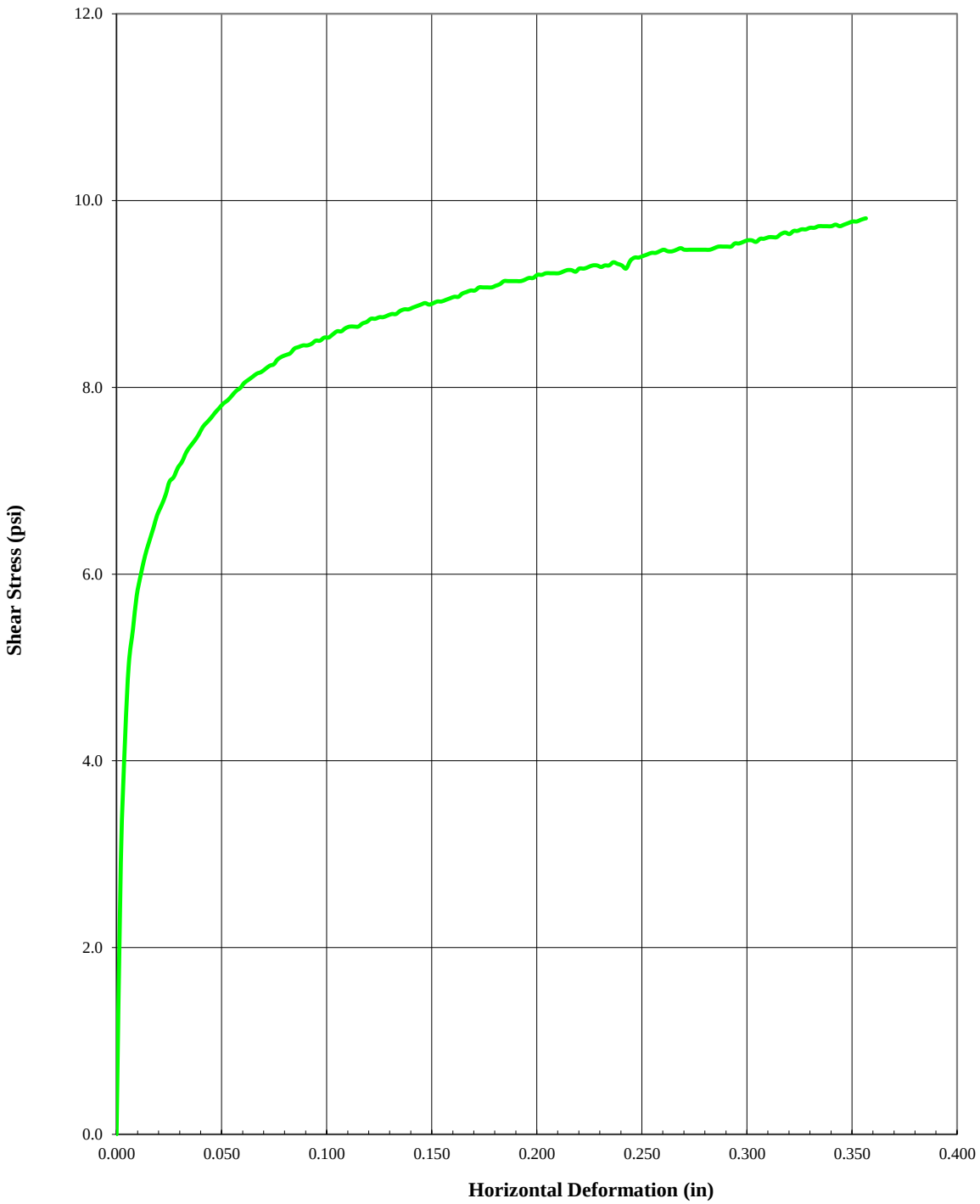
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-12 T-5.HSD

Thompson Engineering

Direct Shear Test

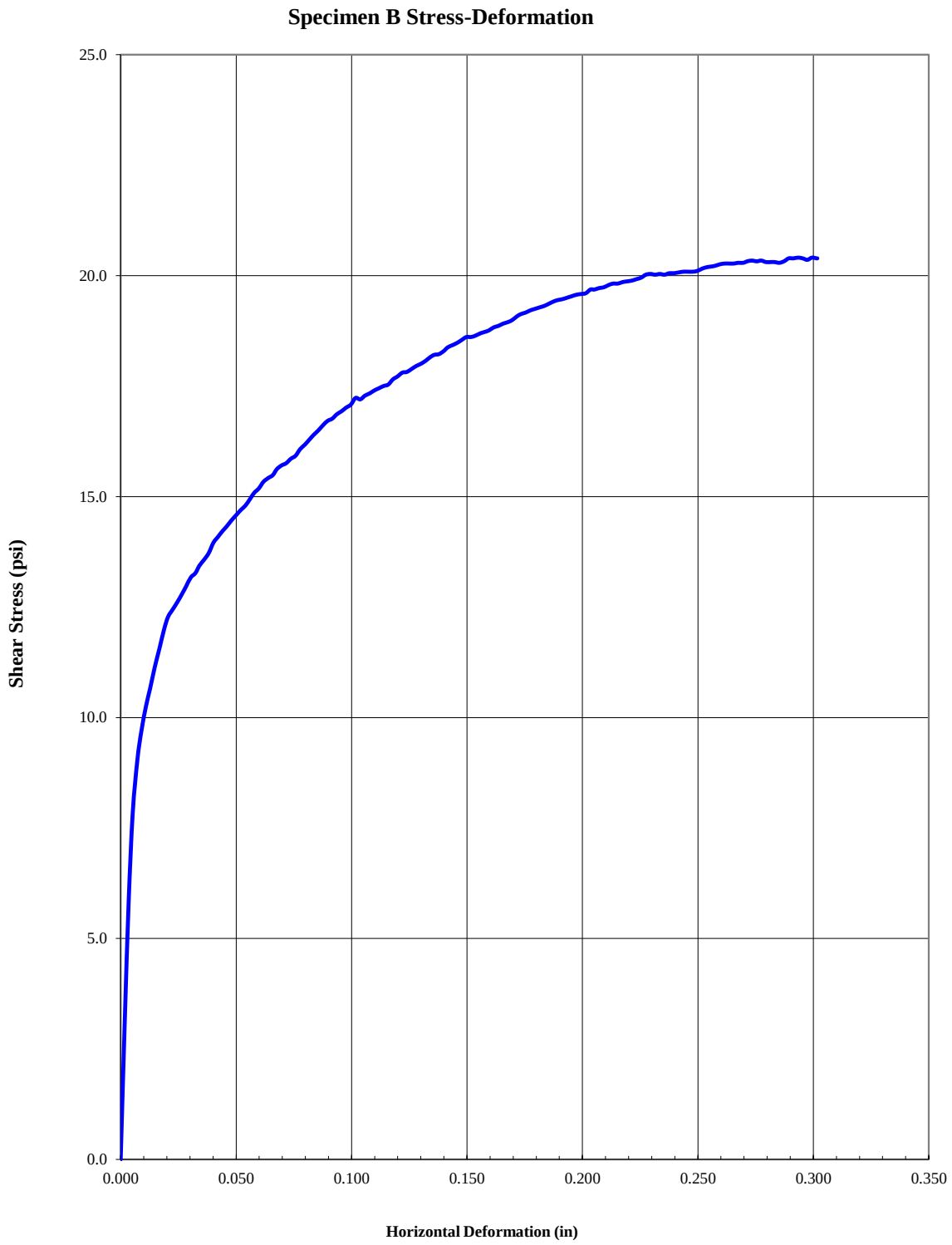
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Tested By



DS 16-1101-0176 BW-12 T-5.HSD

Thompson Engineering

Direct Shear Test

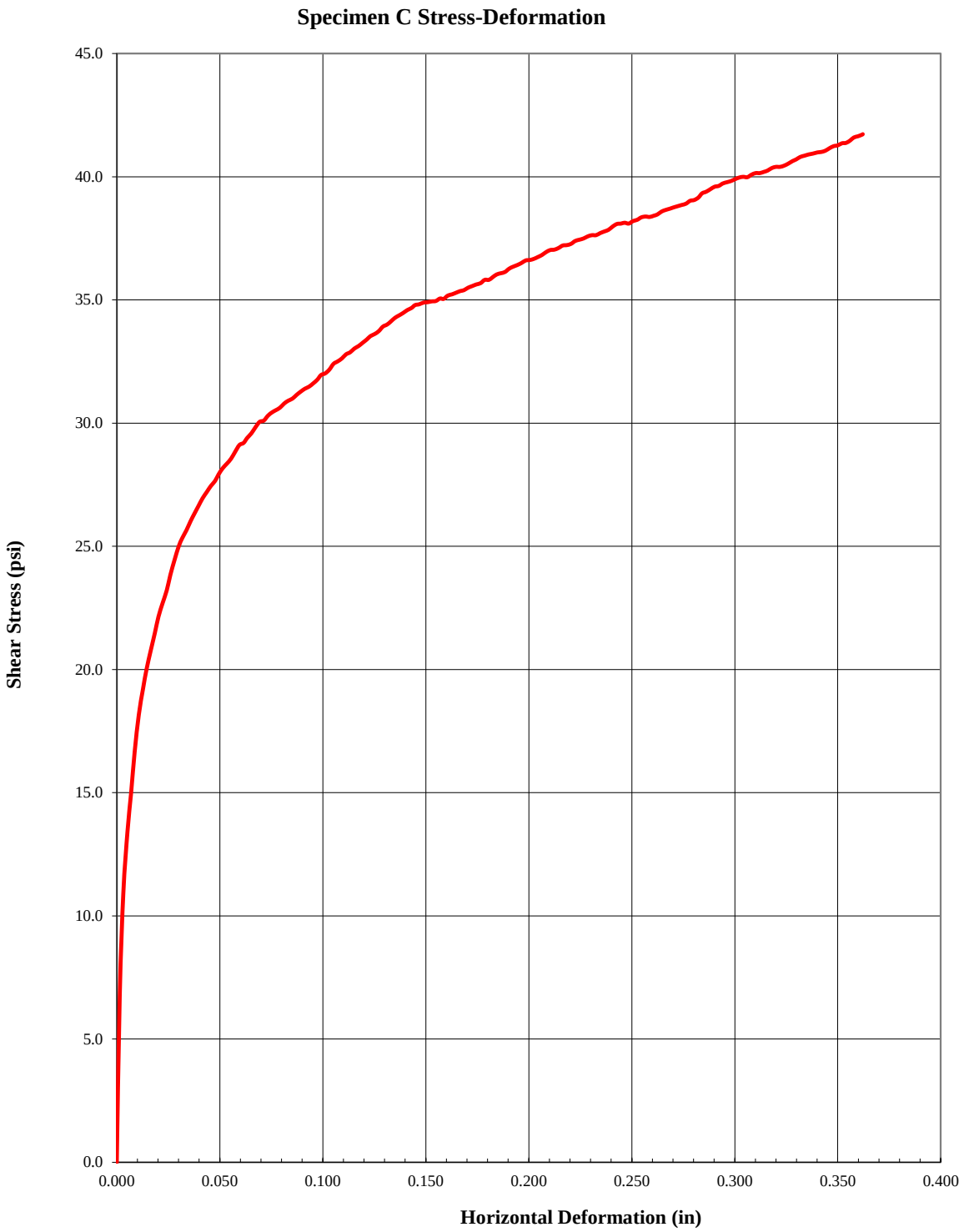
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Tested By



DS 16-1101-0176 BW-12 T-5.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

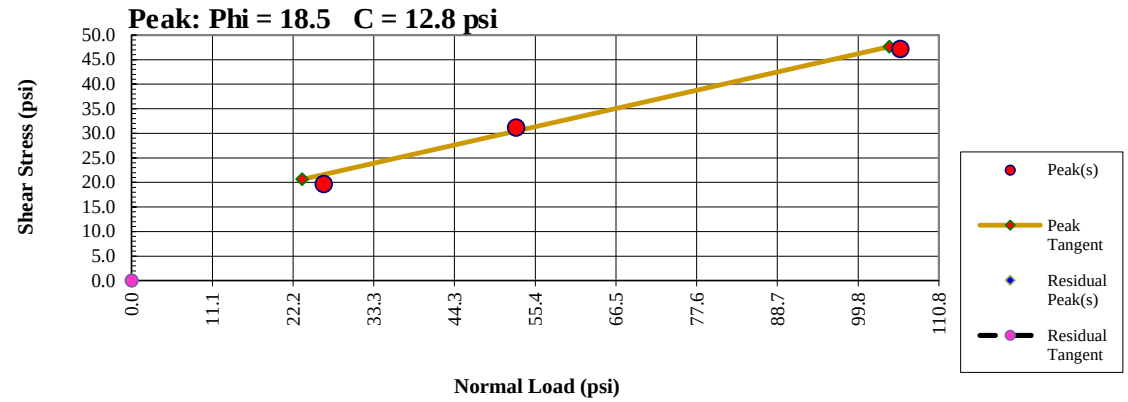
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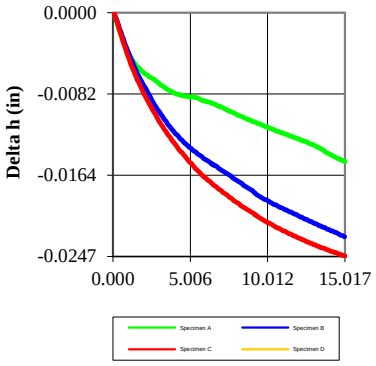
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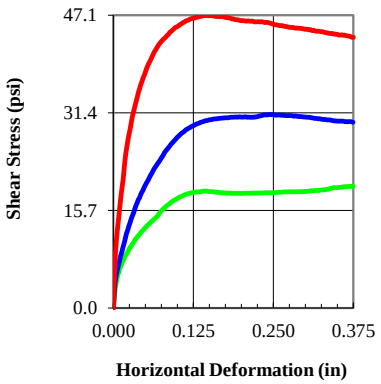
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	17.10	18.26	18.98	
Density (pcf)	103.14	100.45	102.41	
Void Ratio	0.574	0.616	0.585	
Saturation (%)	77.51	77.11	84.36	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	21.27	20.48	19.42	
Density (pcf)	105.36	107.46	105.35	
Void Ratio	0.541	0.510	0.541	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.946	0.917	0.893	
Normal Stress (psi)	26.4	52.8	105.6	
Peak Stress (psi)	19.6	31.1	47.1	
Residual Stress (psi)				
Strain (%)	15.006	14.994	15.017	
Rate (in/min)	0.00892	0.0077	0.00766	

Project Date	
Date	6/23/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-12
Sample Number:	T-11
Depth:	158.0-160.0 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-6(5))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

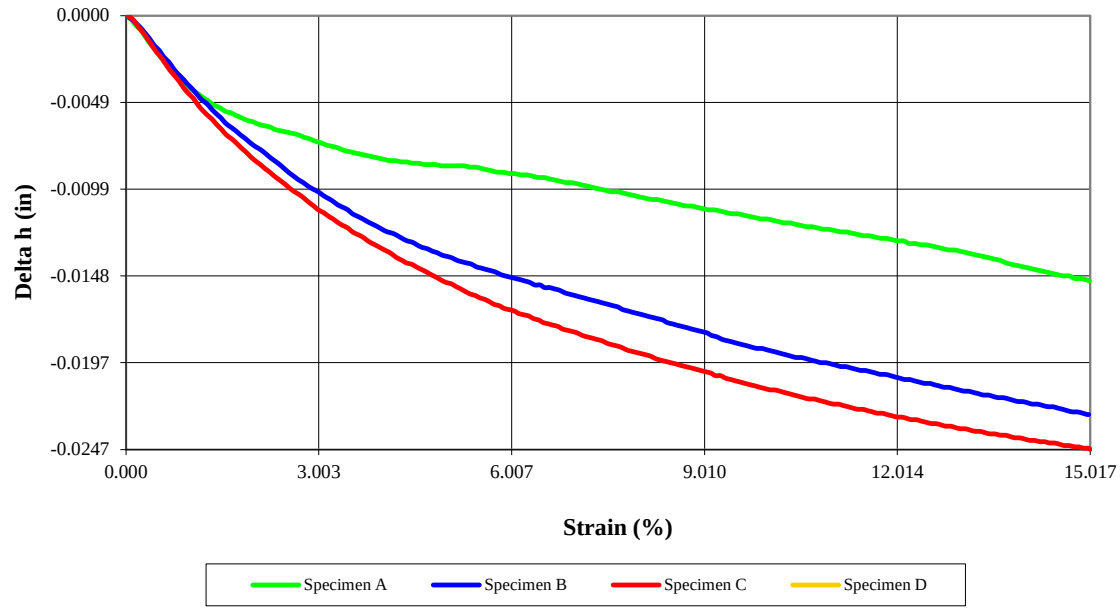
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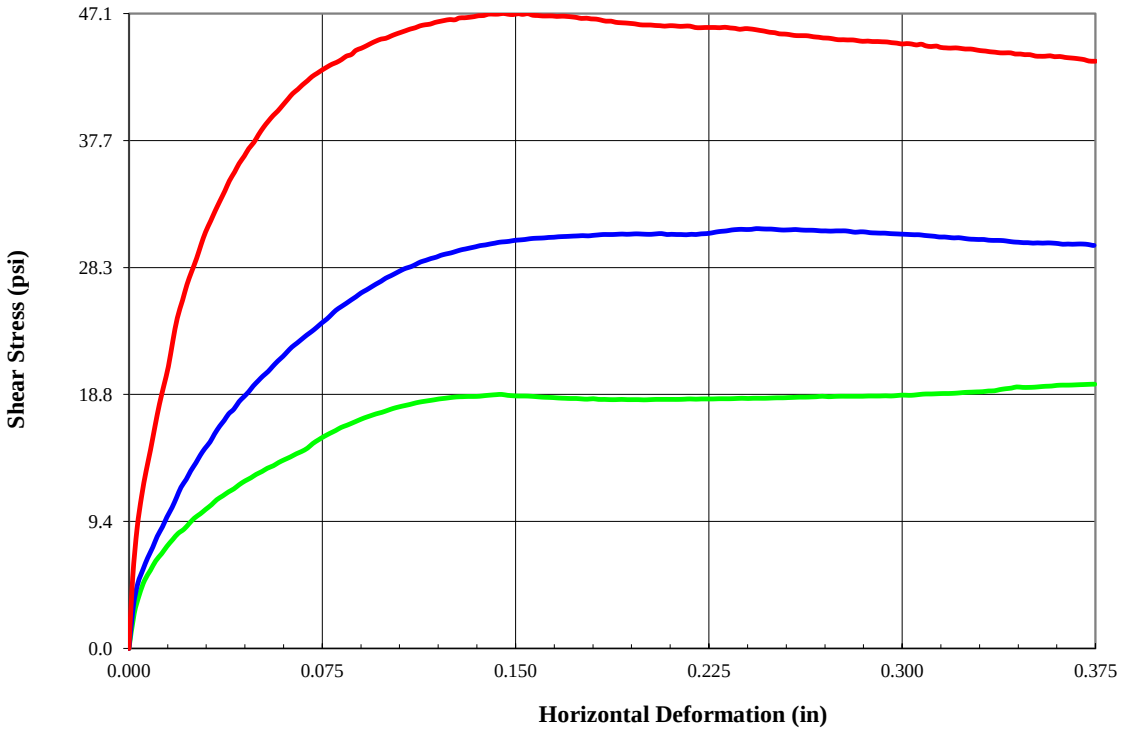
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-12 T-11.HSD

Thompson Engineering

Direct Shear Test

Date

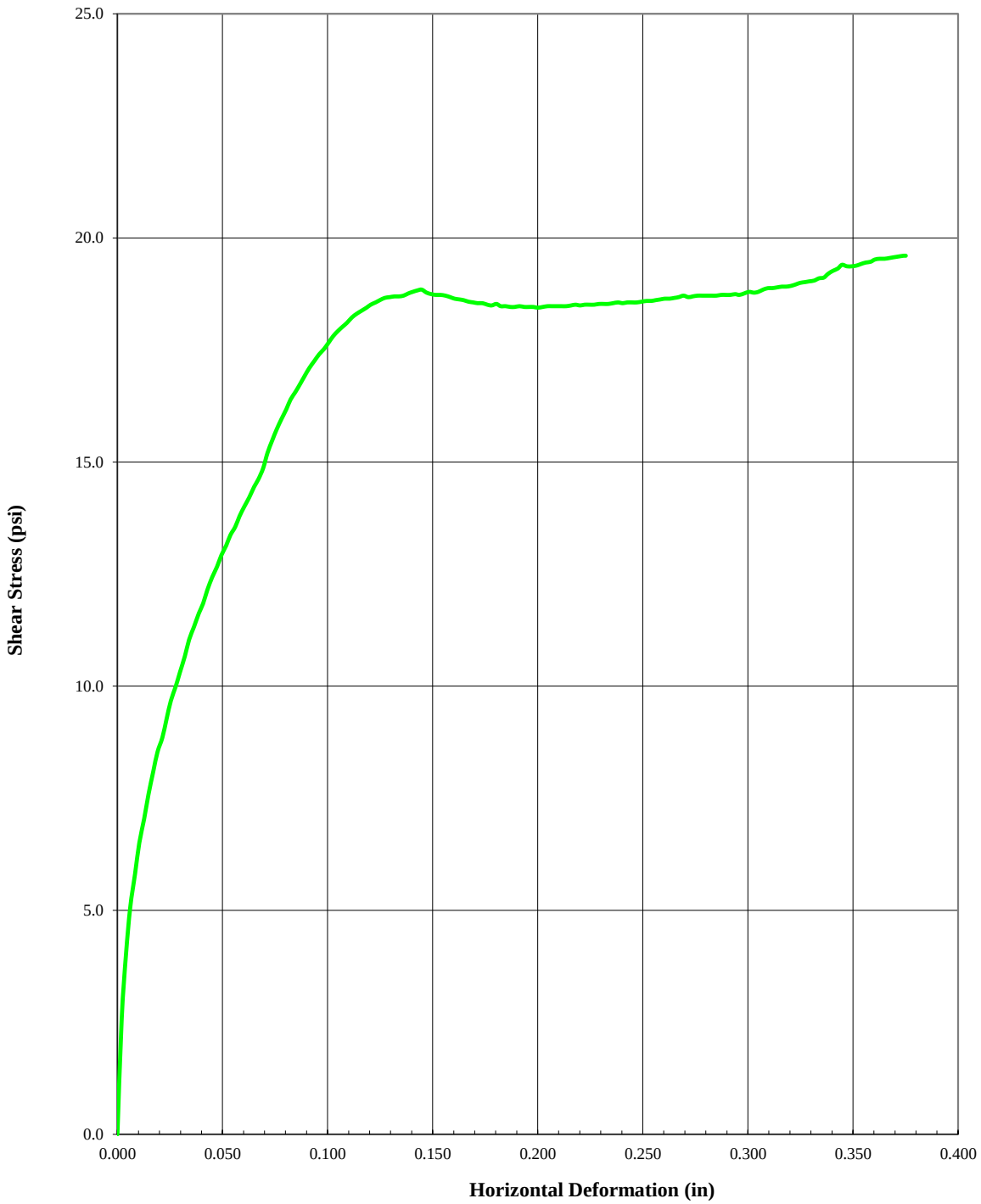
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-12 T-11.HSD

Thompson Engineering

Direct Shear Test

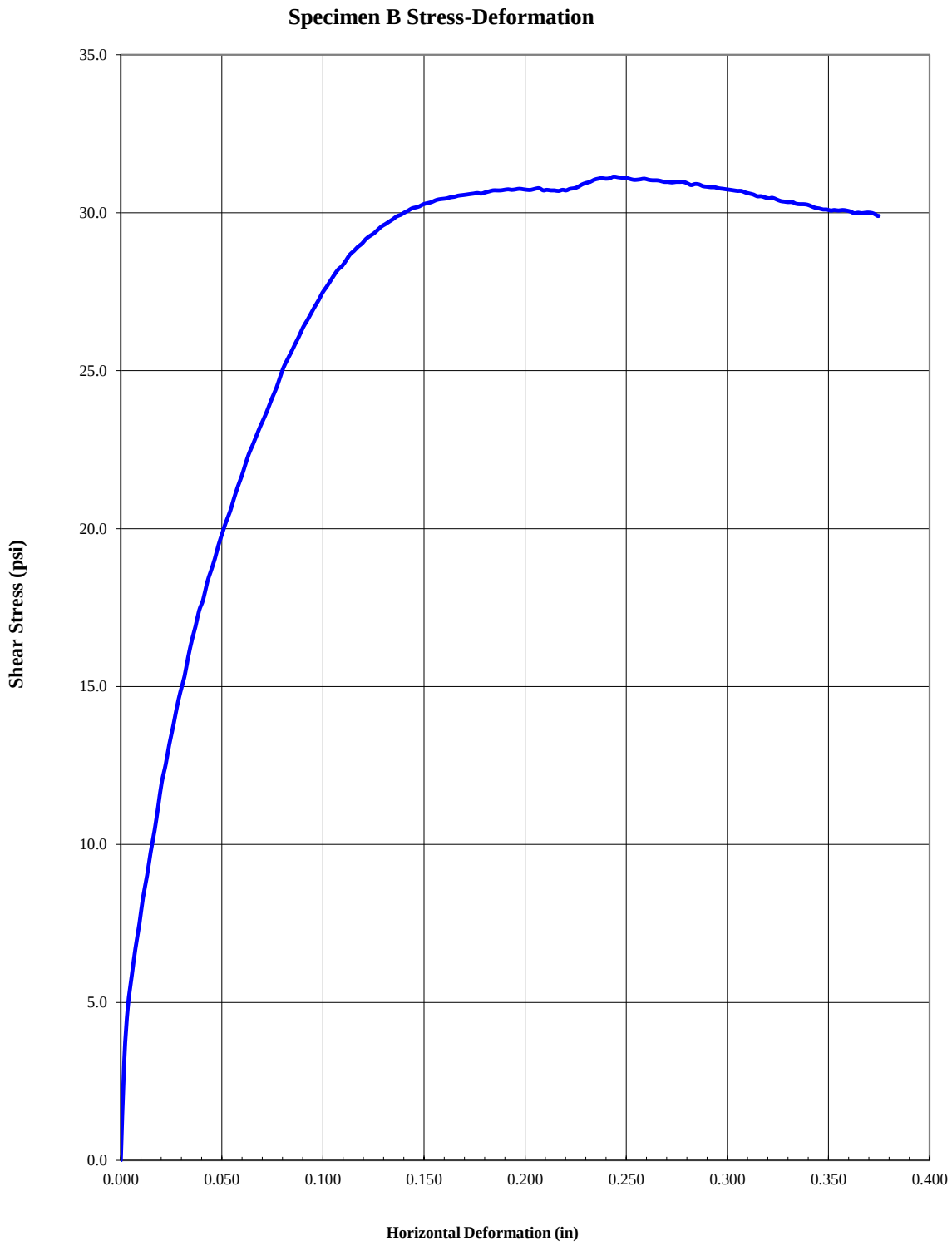
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Date

Tested By



DS 16-1101-0176 BW-12 T-11.HSD

Thompson Engineering

Direct Shear Test

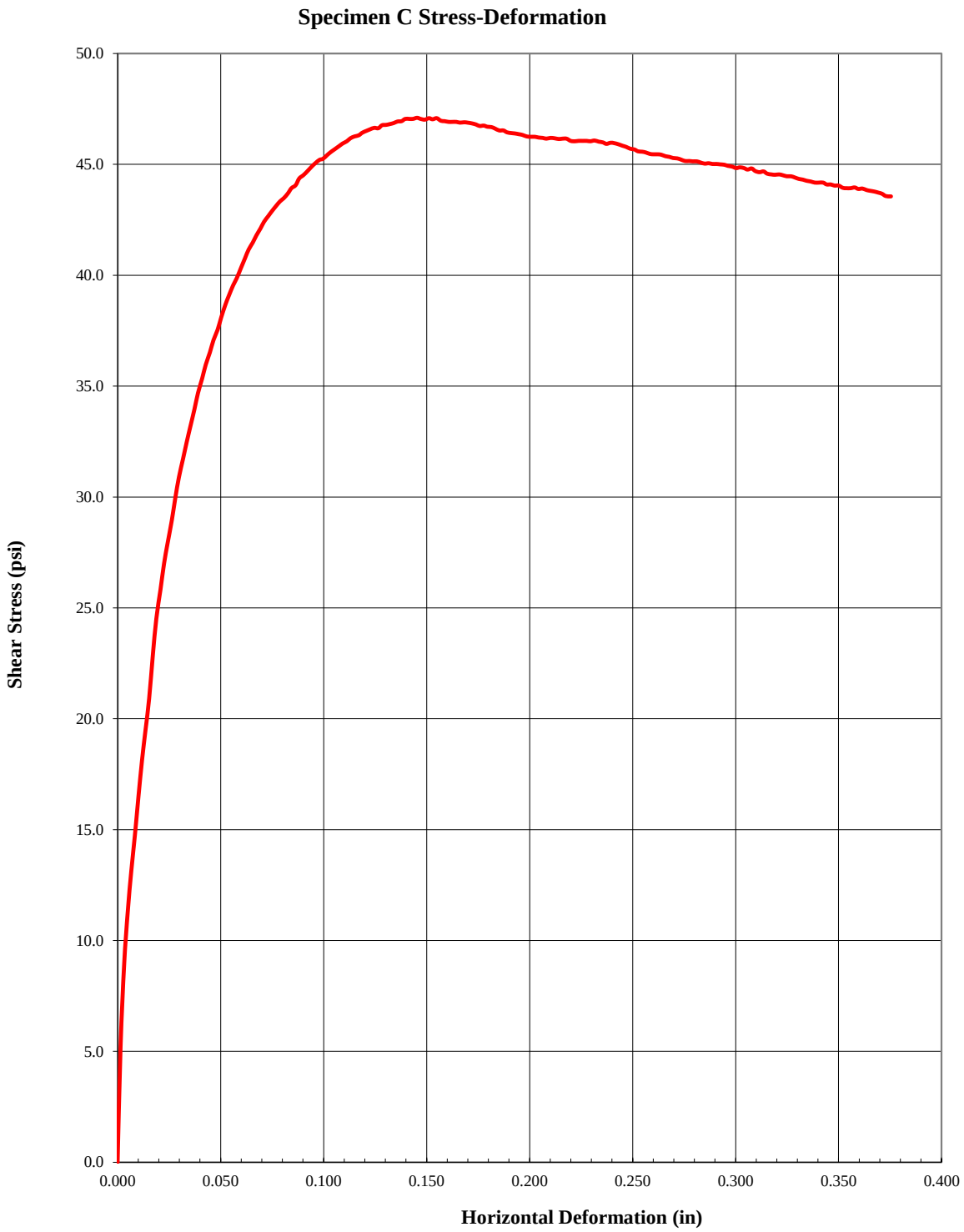
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Date

Tested By



DS 16-1101-0176 BW-12 T-11.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

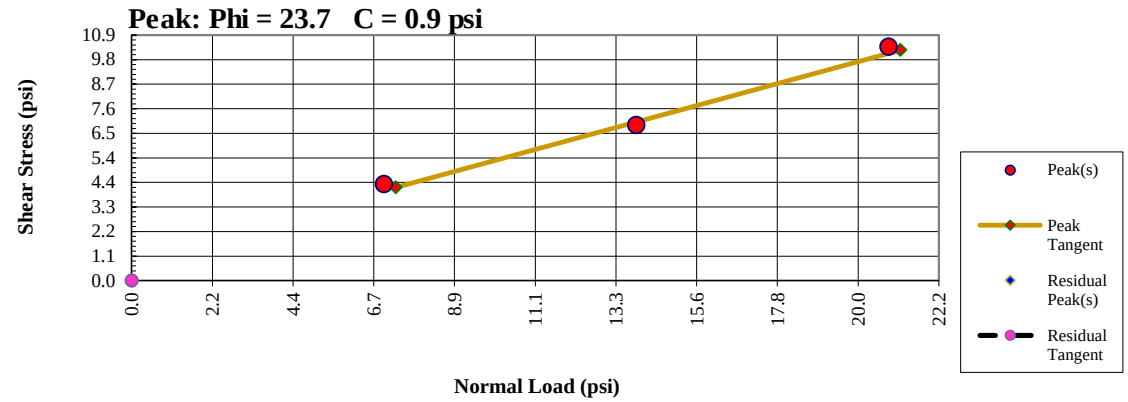
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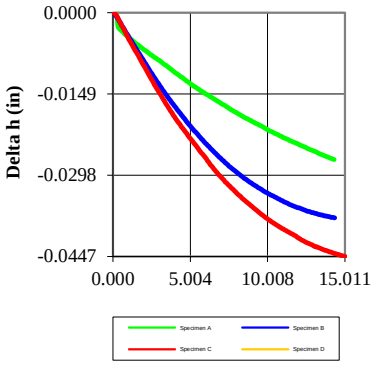
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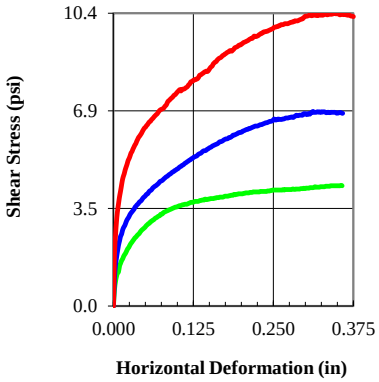
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	31.39	31.81	31.64	
Density (pcf)	88.34	88.15	86.24	
Void Ratio	0.911	0.915	0.957	
Saturation (%)	93.19	94.01	89.37	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	31.17	27.82	31.79	
Density (pcf)	91.53	94.89	85.04	
Void Ratio	0.844	0.779	0.985	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.946	0.933	0.899	
Normal Stress (psi)	6.9	13.9	20.8	
Peak Stress (psi)	4.3	6.9	10.4	
Residual Stress (psi)				
Strain (%)	14.249	14.341	15.011	
Rate (in/min)	0.00651	0.00658	0.00616	

Project Date	
Date	2/25/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7852
Boring Number	BW-14
Sample Number:	T-1
Depth:	23.0-25.0 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-6(2))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

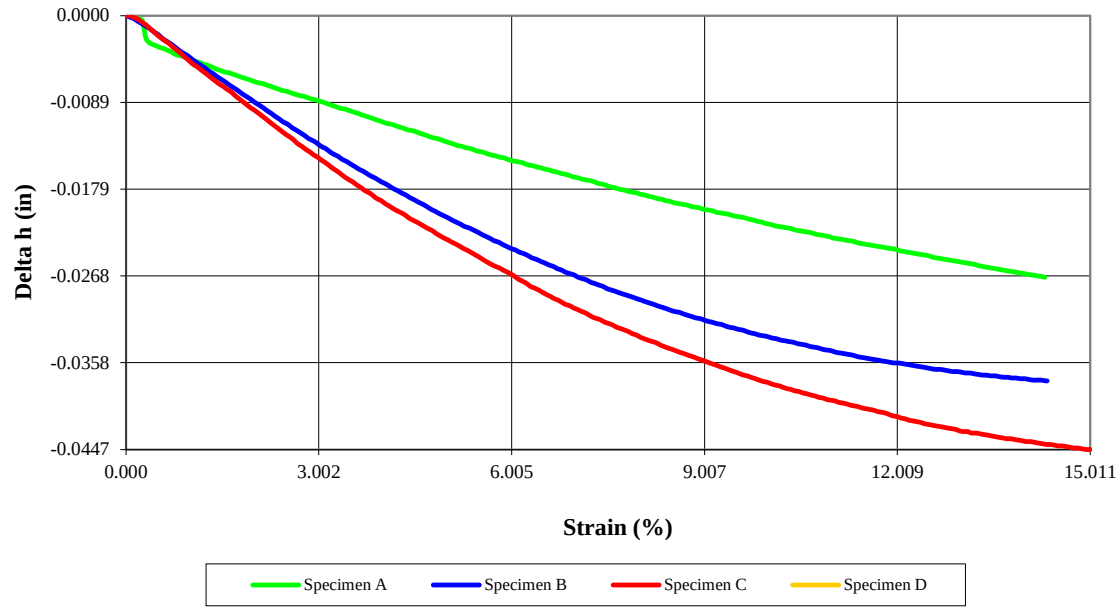
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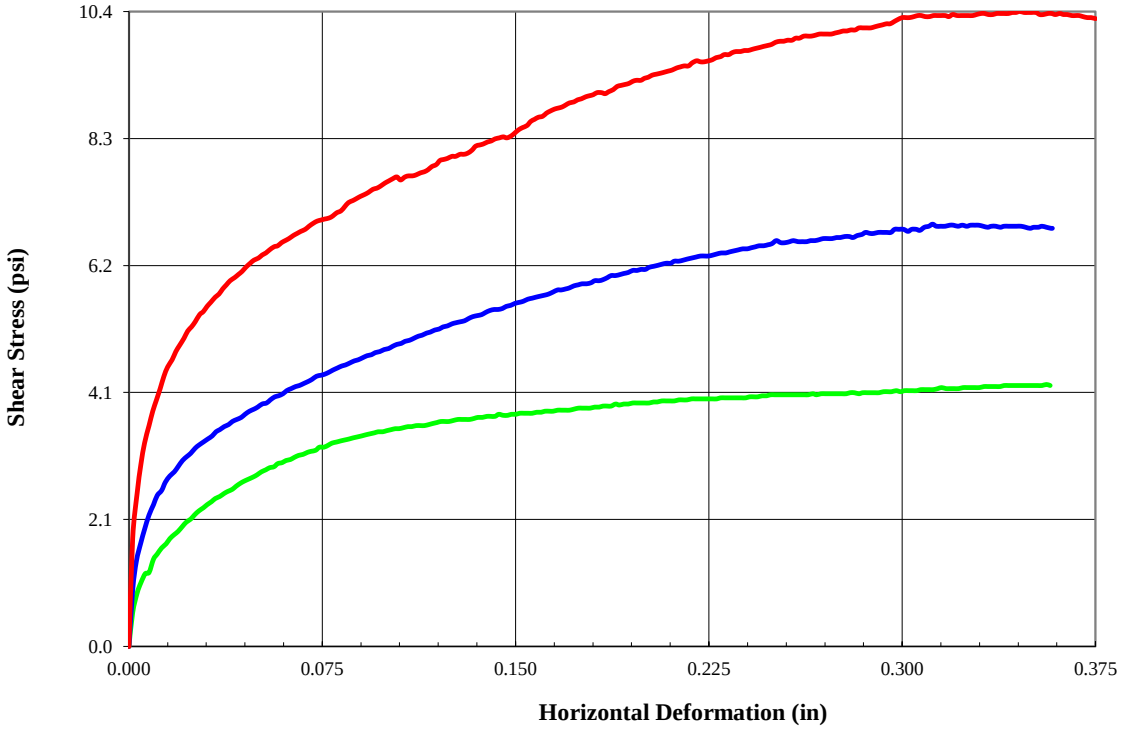
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-14 T-1.HSD

Thompson Engineering

Direct Shear Test

Date

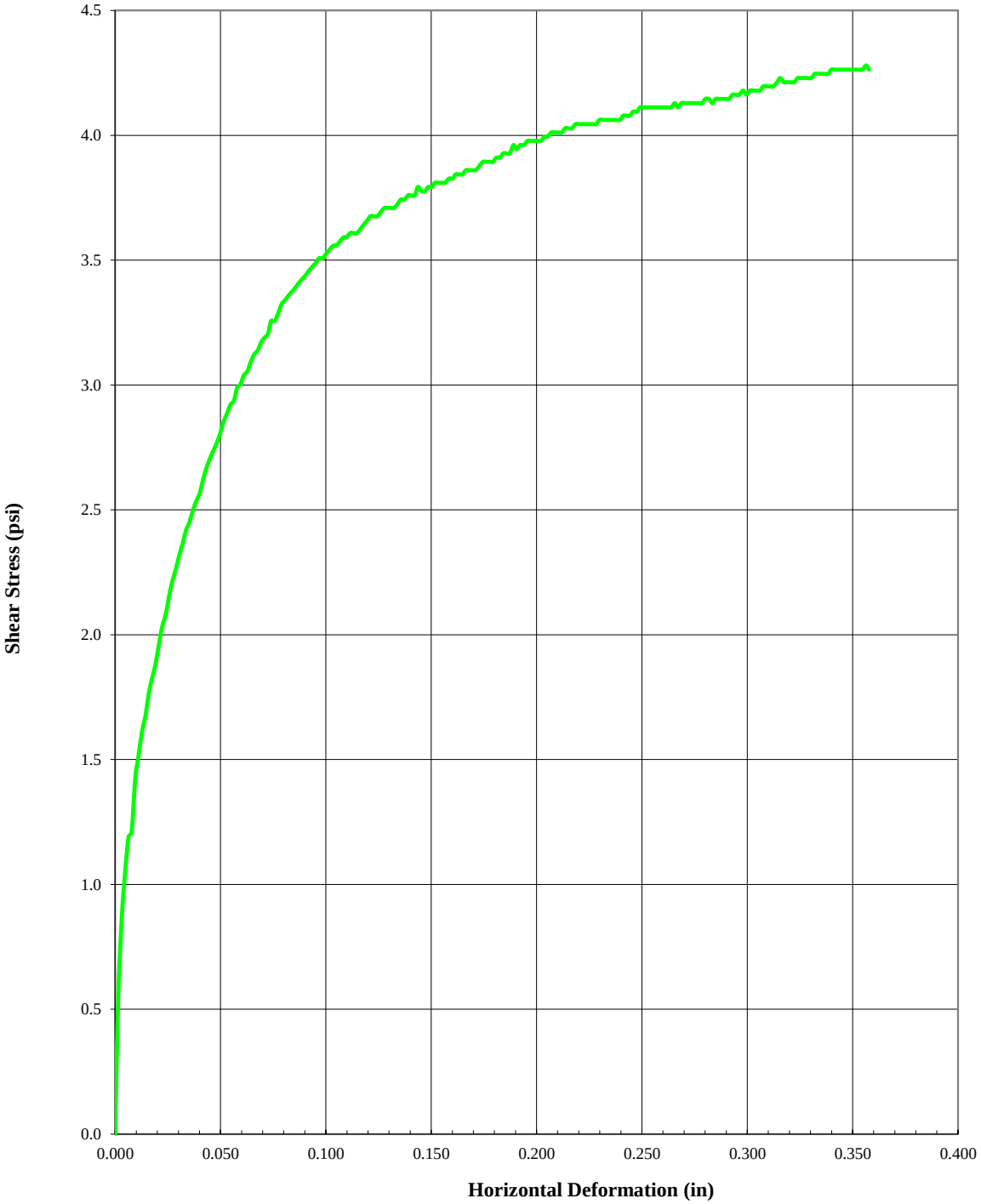
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-14 T-1.HSD

Thompson Engineering

Direct Shear Test

Date

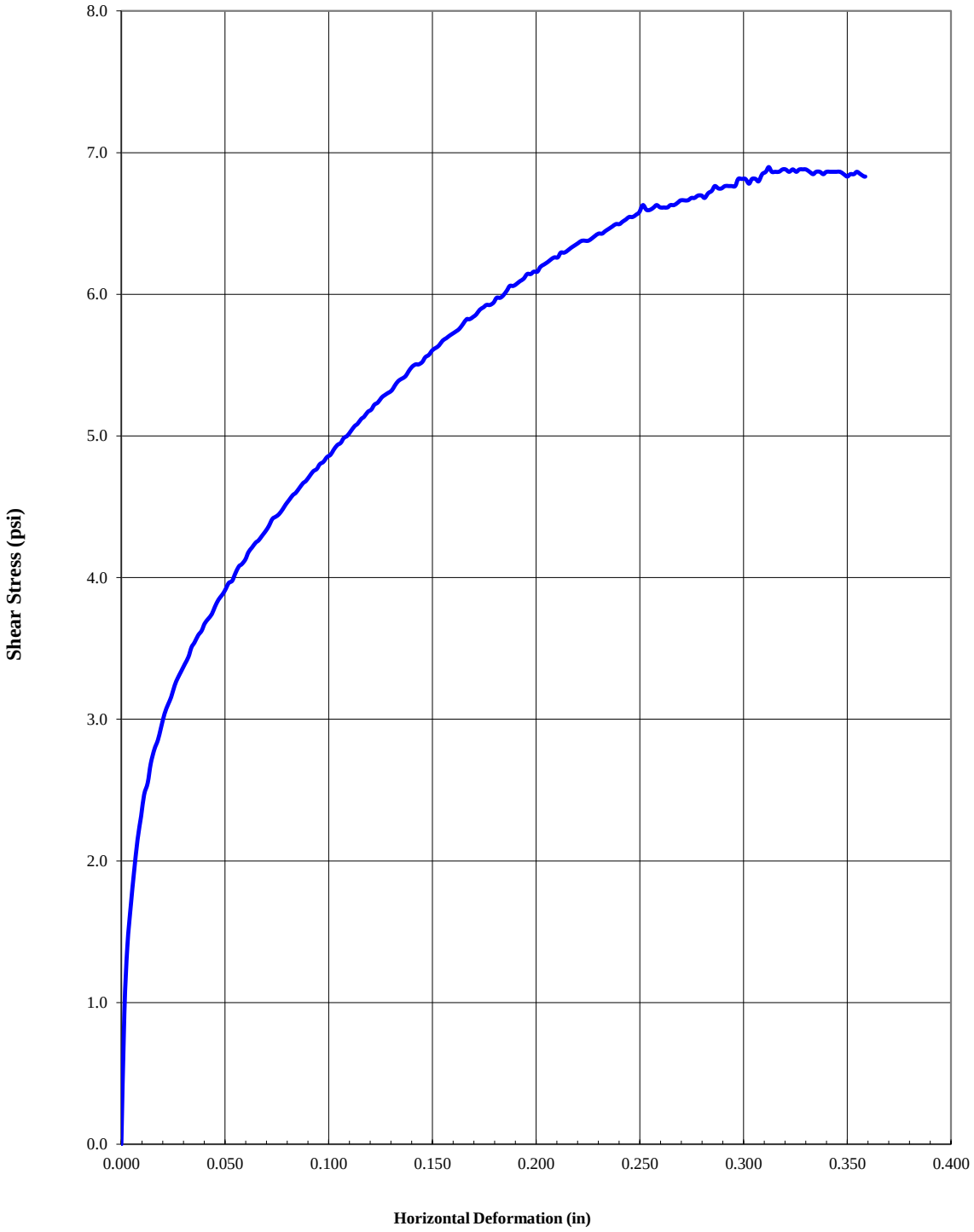
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-14 T-1.HSD

Thompson Engineering

Direct Shear Test

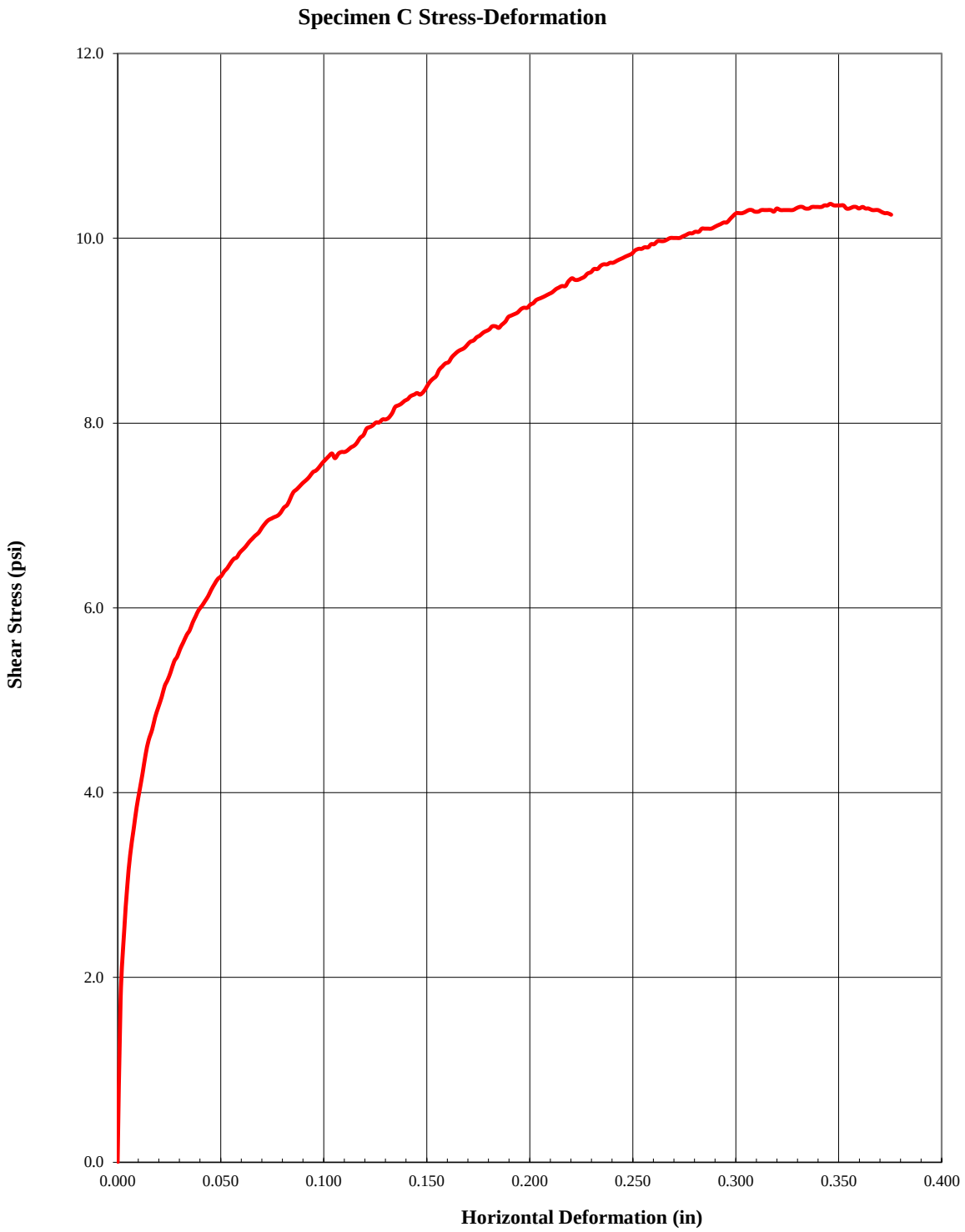
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Checked By

Date

Date

Tested By



DS 16-1101-0176 BW-14 T-1.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

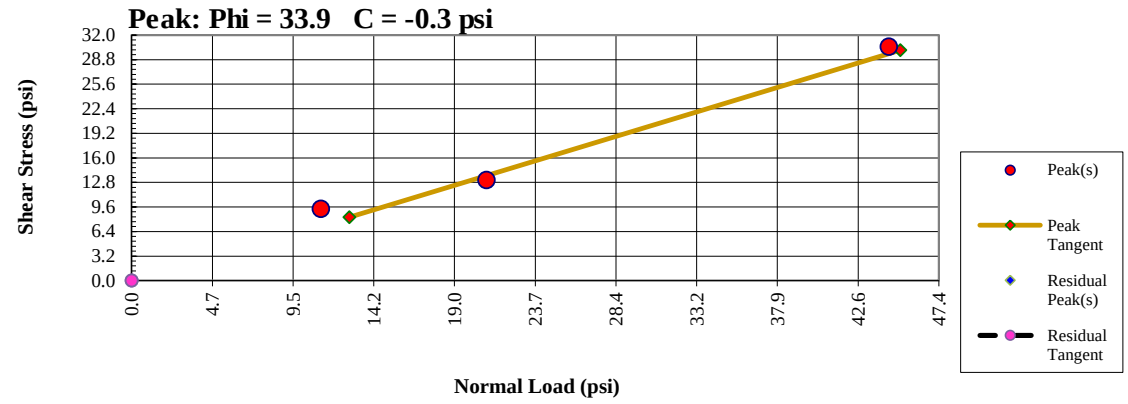
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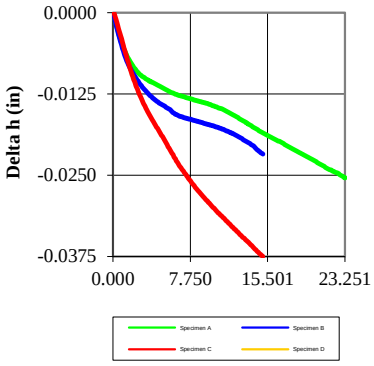
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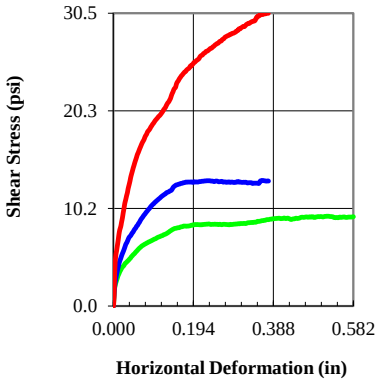
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	25.99	25.61	29.65	
Density (pcf)	94.85	94.42	90.80	
Void Ratio	0.790	0.719	0.788	
Saturation (%)	89.47	92.62	97.89	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	25.87	27.38	25.65	
Density (pcf)	98.77	94.80	95.47	
Void Ratio	0.719	0.712	0.700	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.937	0.923	0.912	
Normal Stress (psi)	11.1	20.8	44.4	
Peak Stress (psi)	9.3	13.1	30.5	
Residual Stress (psi)				
Strain (%)	23.251	15.023	15.011	
Rate (in/min)	0.00891	0.00874	0.00826	

Project Date	
Date	3/2/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7852
Boring Number	BW-14
Sample Number:	T-2
Depth:	33.0-35.0 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

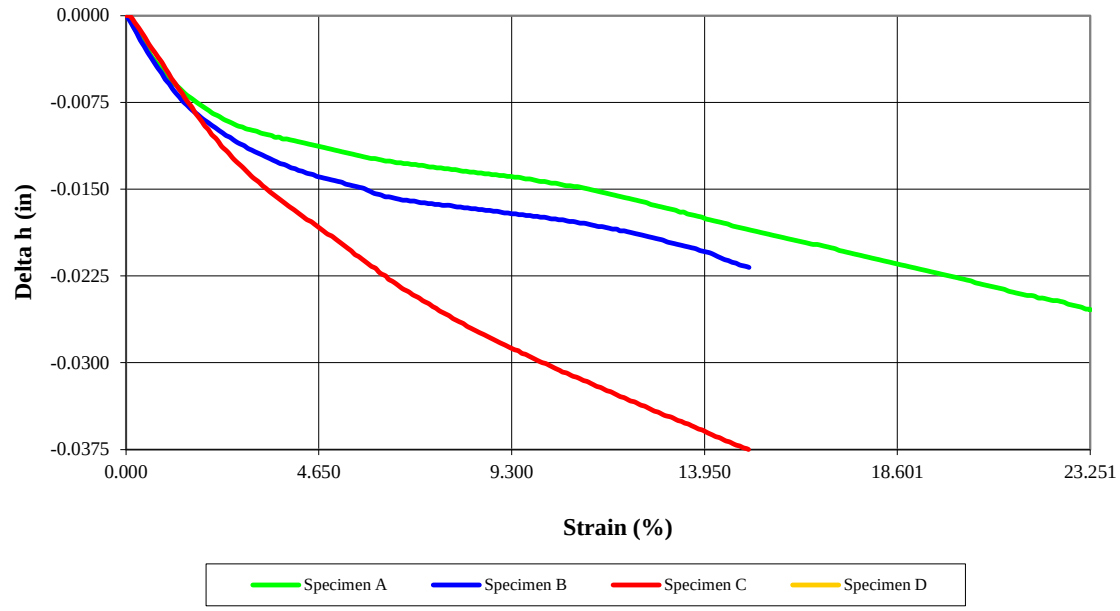
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Date

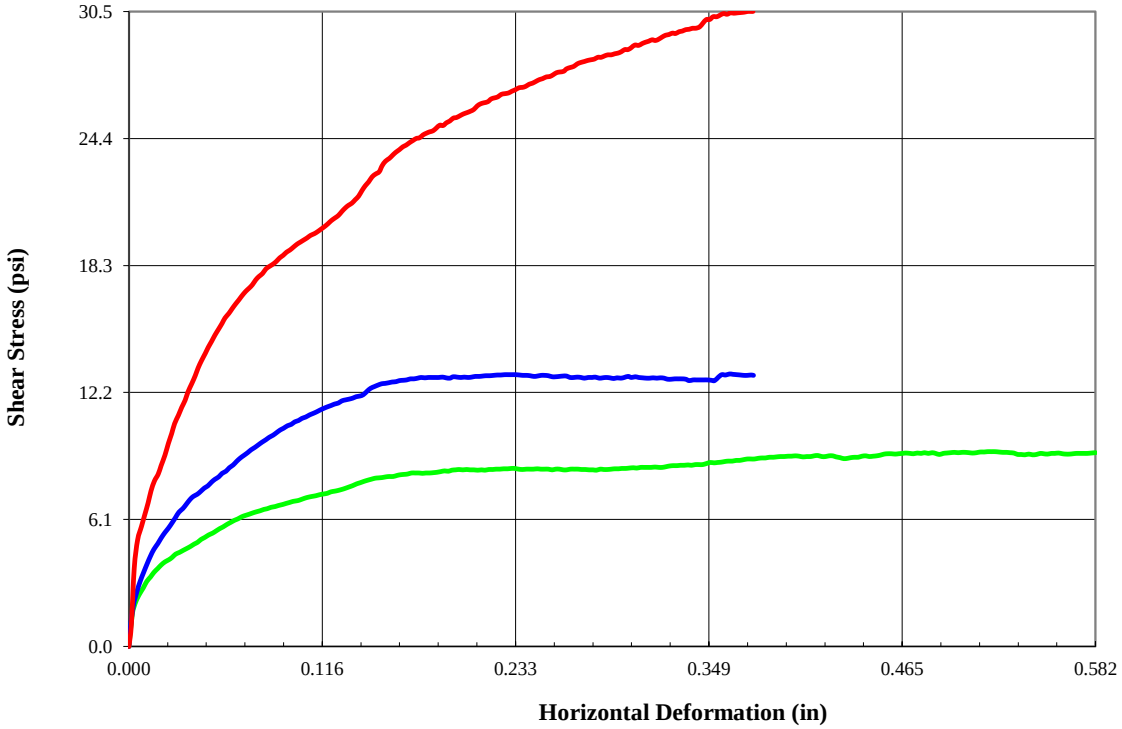
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-14 T-2.HSD

Thompson Engineering

Direct Shear Test

Date

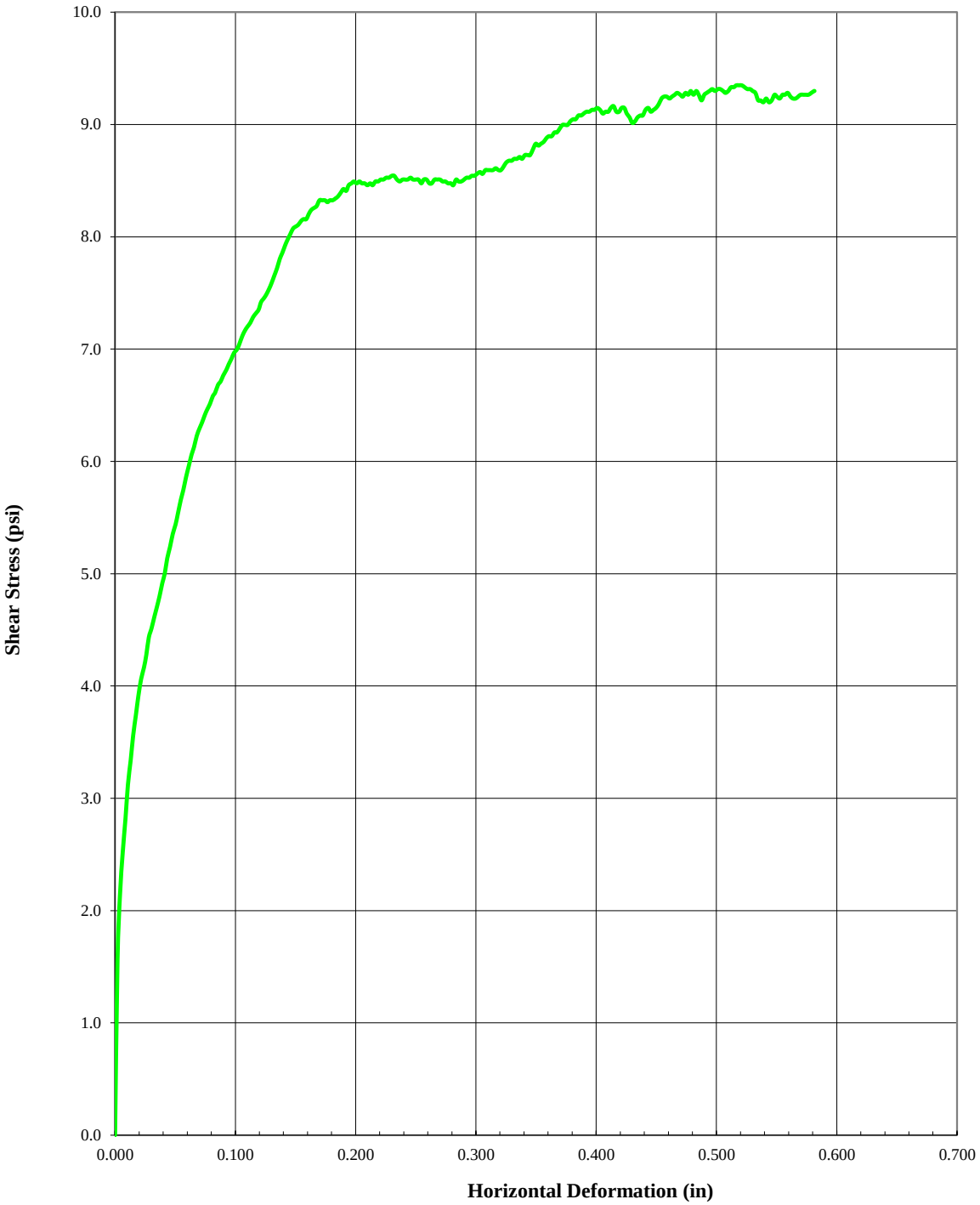
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-14 T-2.HSD

Thompson Engineering

Direct Shear Test

Date

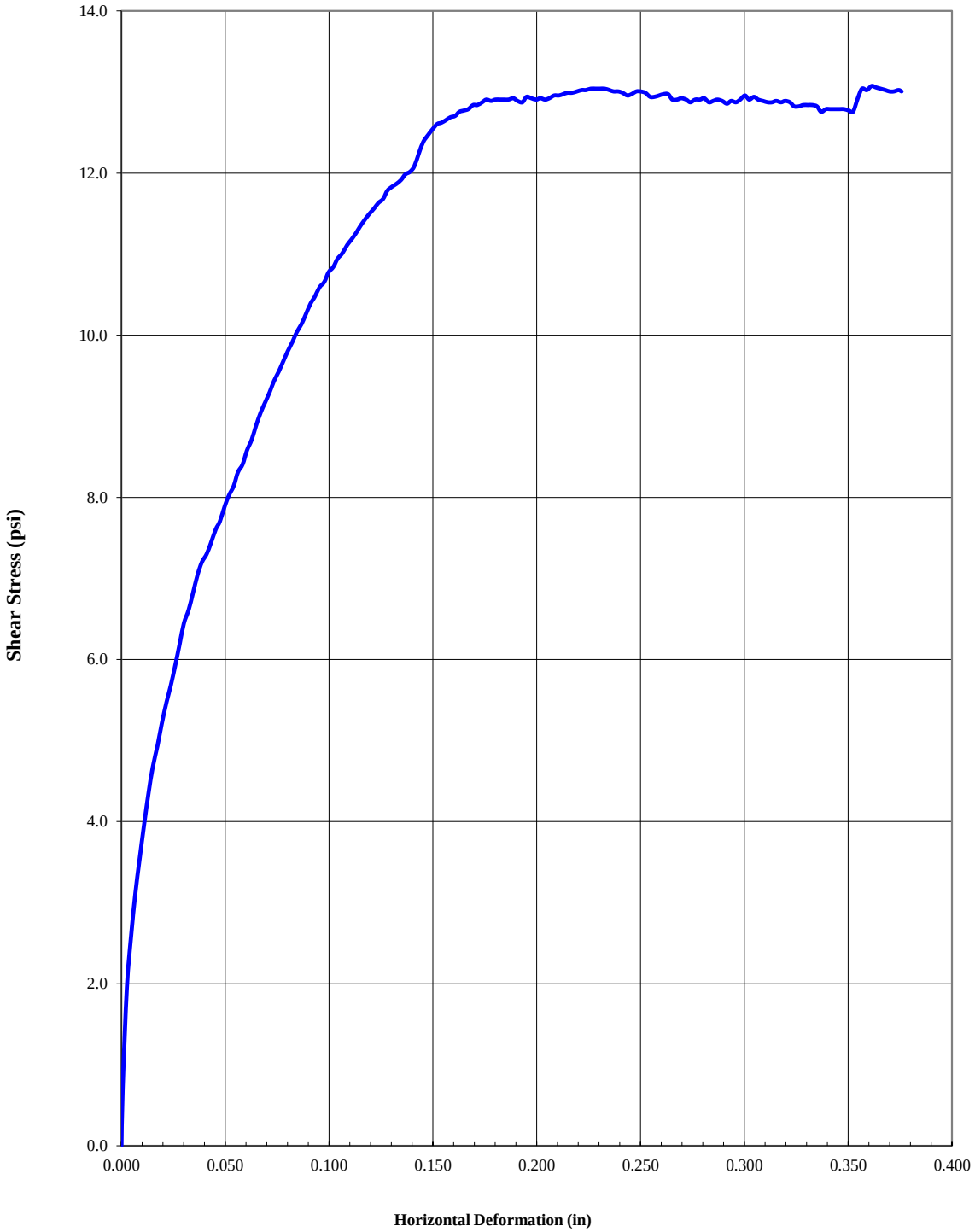
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-14 T-2.HSD

Thompson Engineering

Direct Shear Test

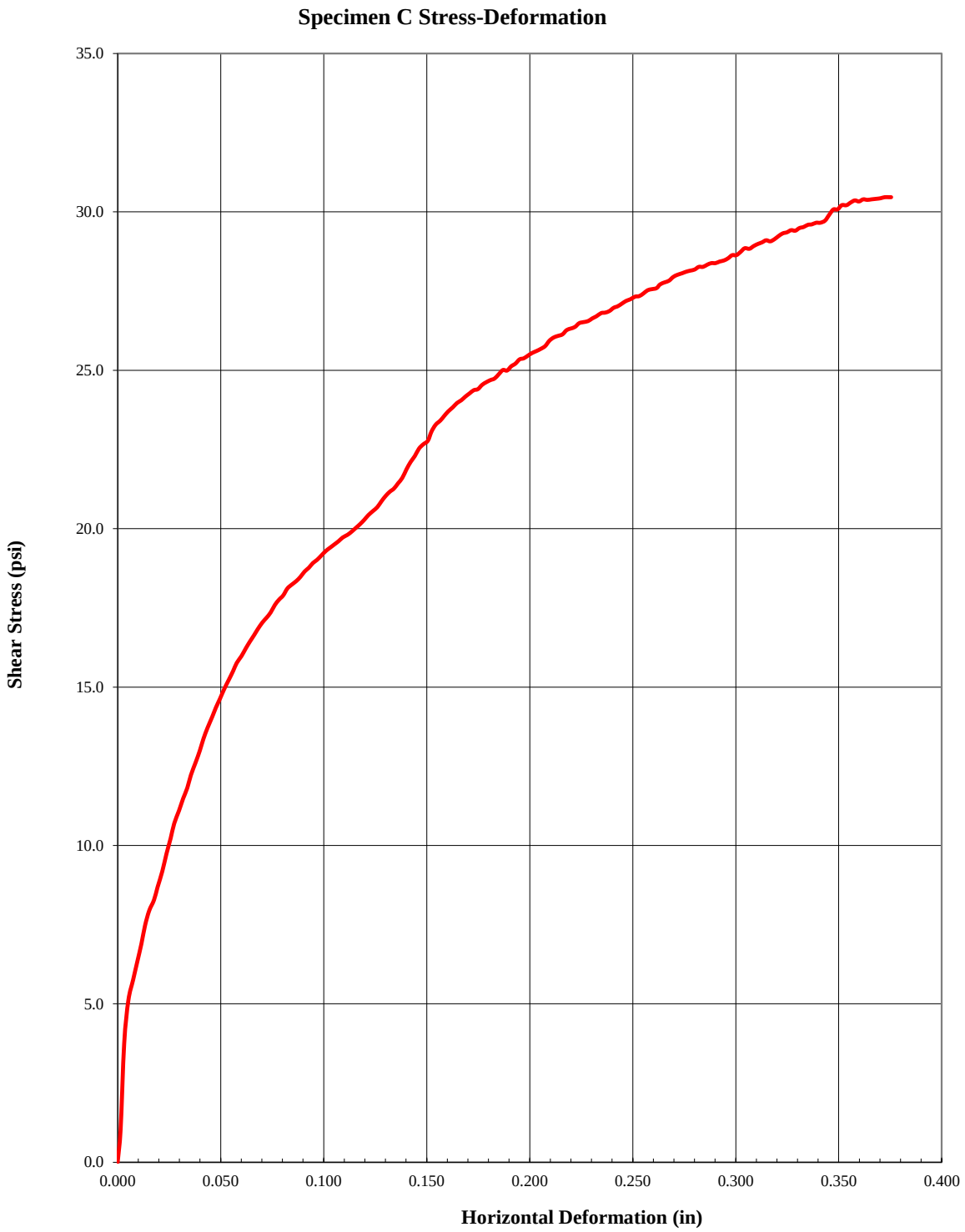
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Checked By

Date

Date

Tested By



DS 16-1101-0176 BW-14 T-2.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

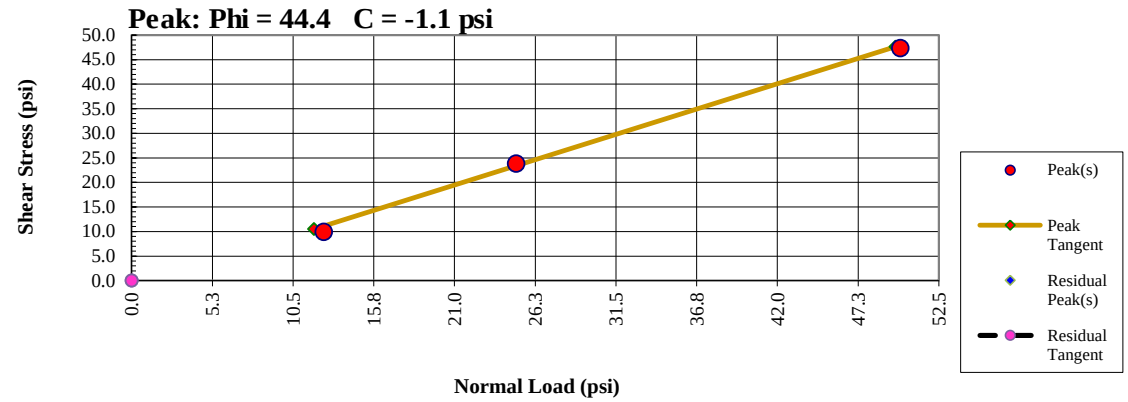
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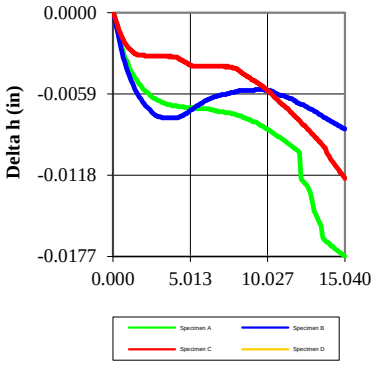
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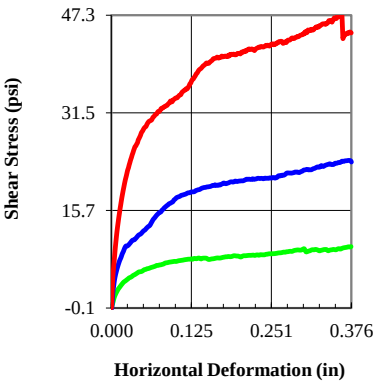
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	22.43	27.06	23.45	
Density (pcf)	83.17	87.96	90.46	
Void Ratio	0.952	0.845	0.794	
Saturation (%)	61.29	83.23	76.76	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	24.72	24.76	25.60	
Density (pcf)	85.82	92.66	92.20	
Void Ratio	0.891	0.752	0.760	
Saturation (%)	75.42	91.27	93.57	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.979	0.974	0.972	
Normal Stress (psi)	12.5	25.0	50.0	
Peak Stress (psi)	9.9	23.8	47.3	
Residual Stress (psi)				
Strain (%)	15.017	14.913	15.029	
Rate (in/min)	0.0087	0.00762	0.00489	

Project Date	
Date	8/2/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7985
Boring Number	BW-17
Sample Number:	T-3
Depth:	38.0-40.0 ft.
Sample Type:	Undisturbed
Description:	POORLY GRADED SAND(SP A-3(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

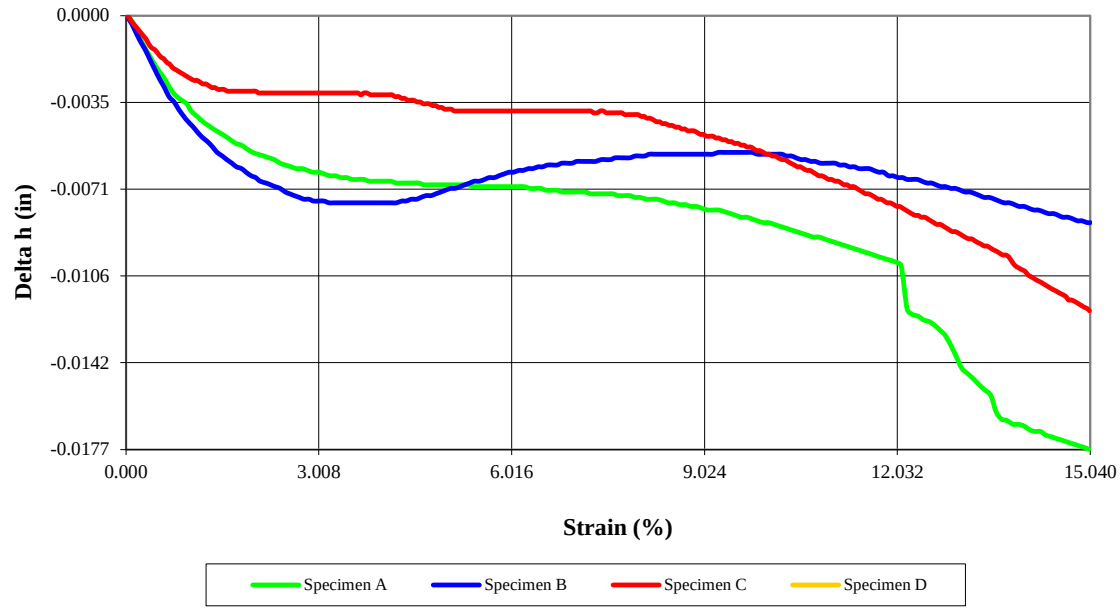
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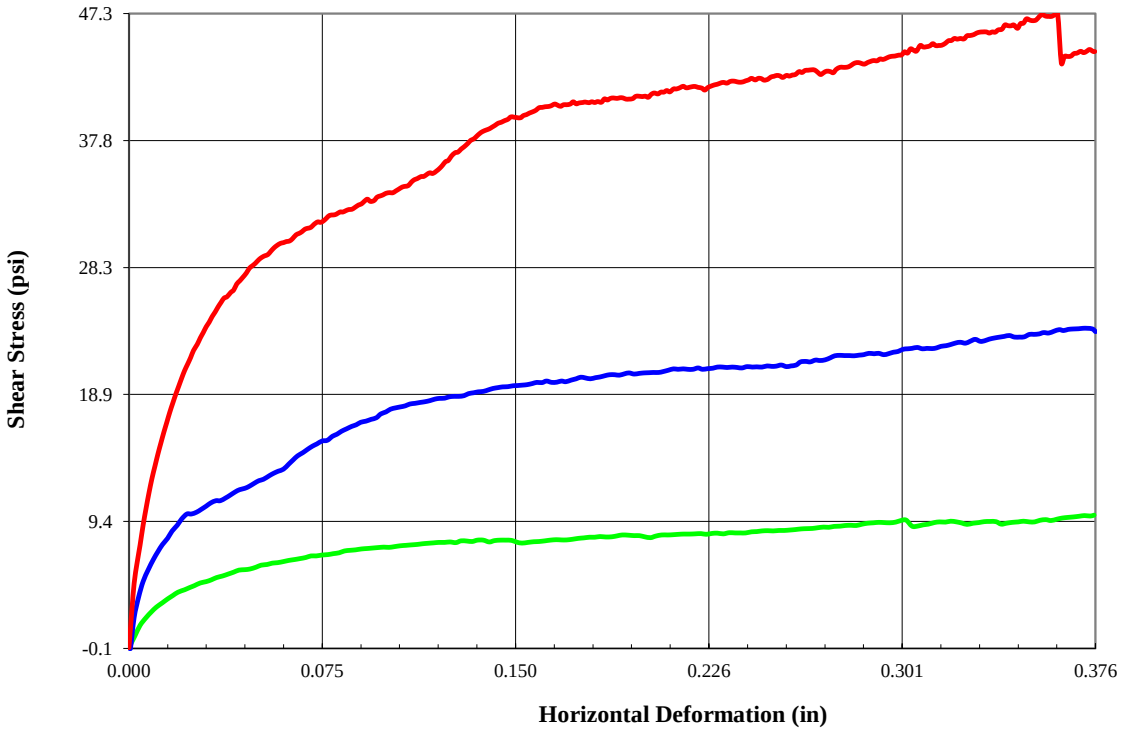
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-17 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

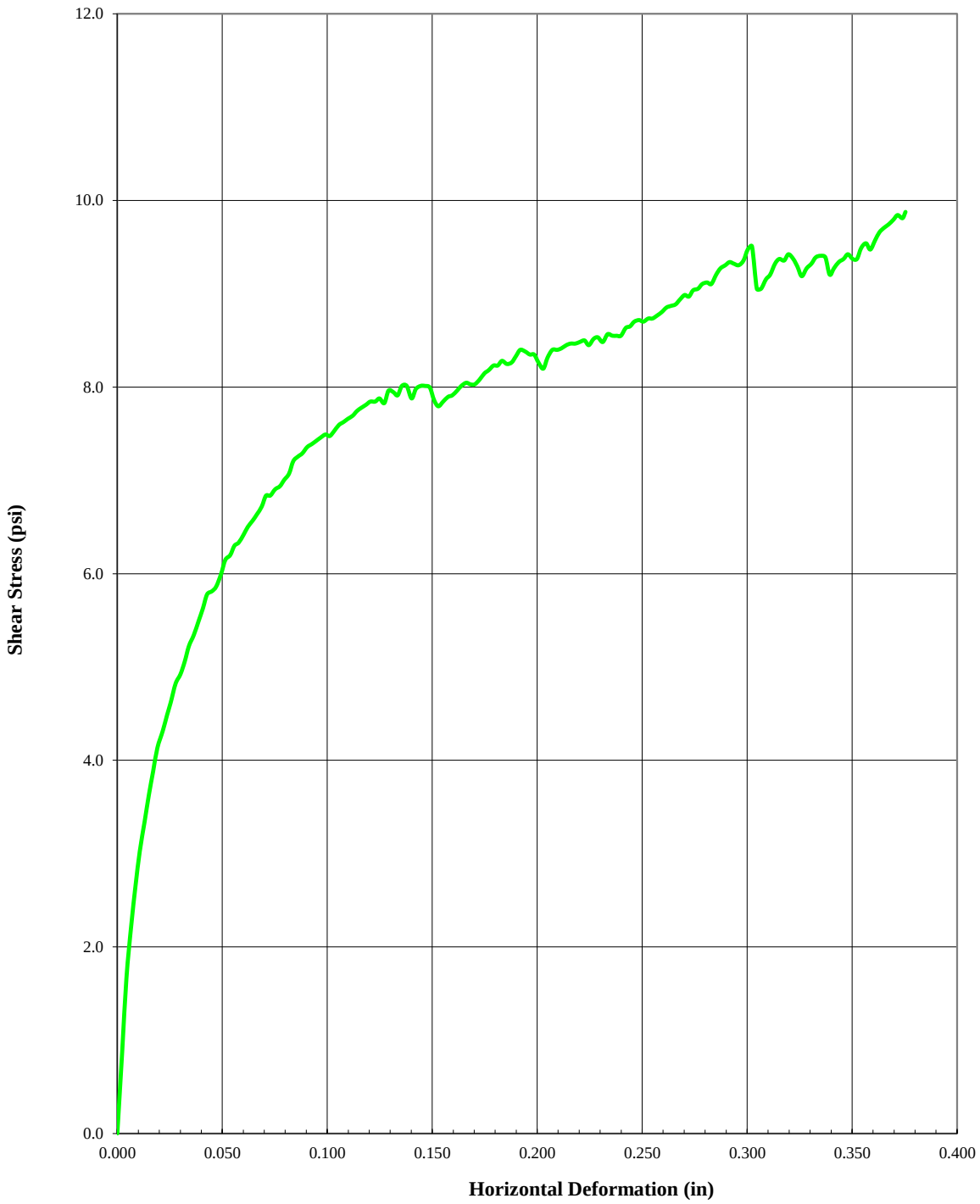
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-17 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

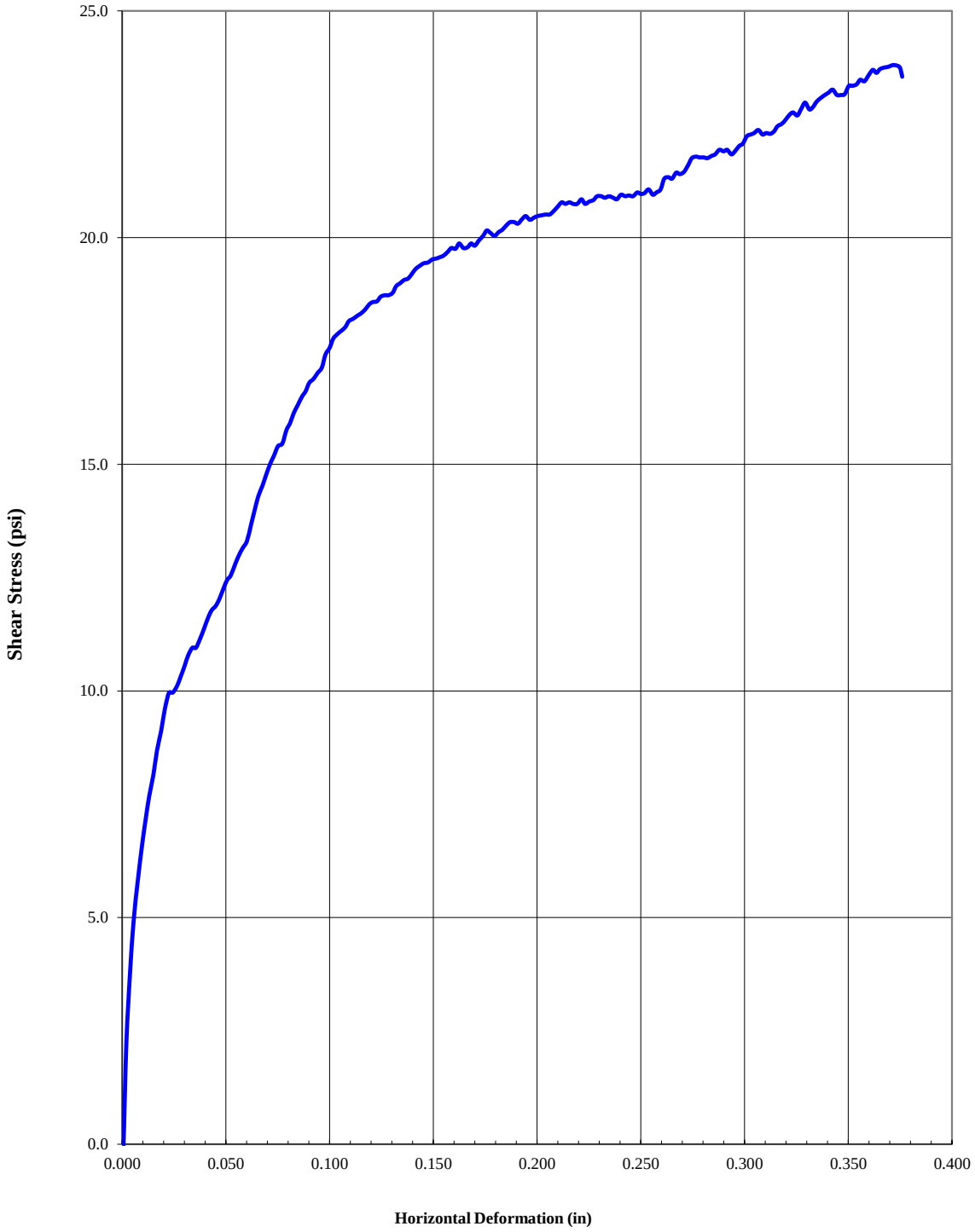
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-17 T-3.HSD

Thompson Engineering

Direct Shear Test

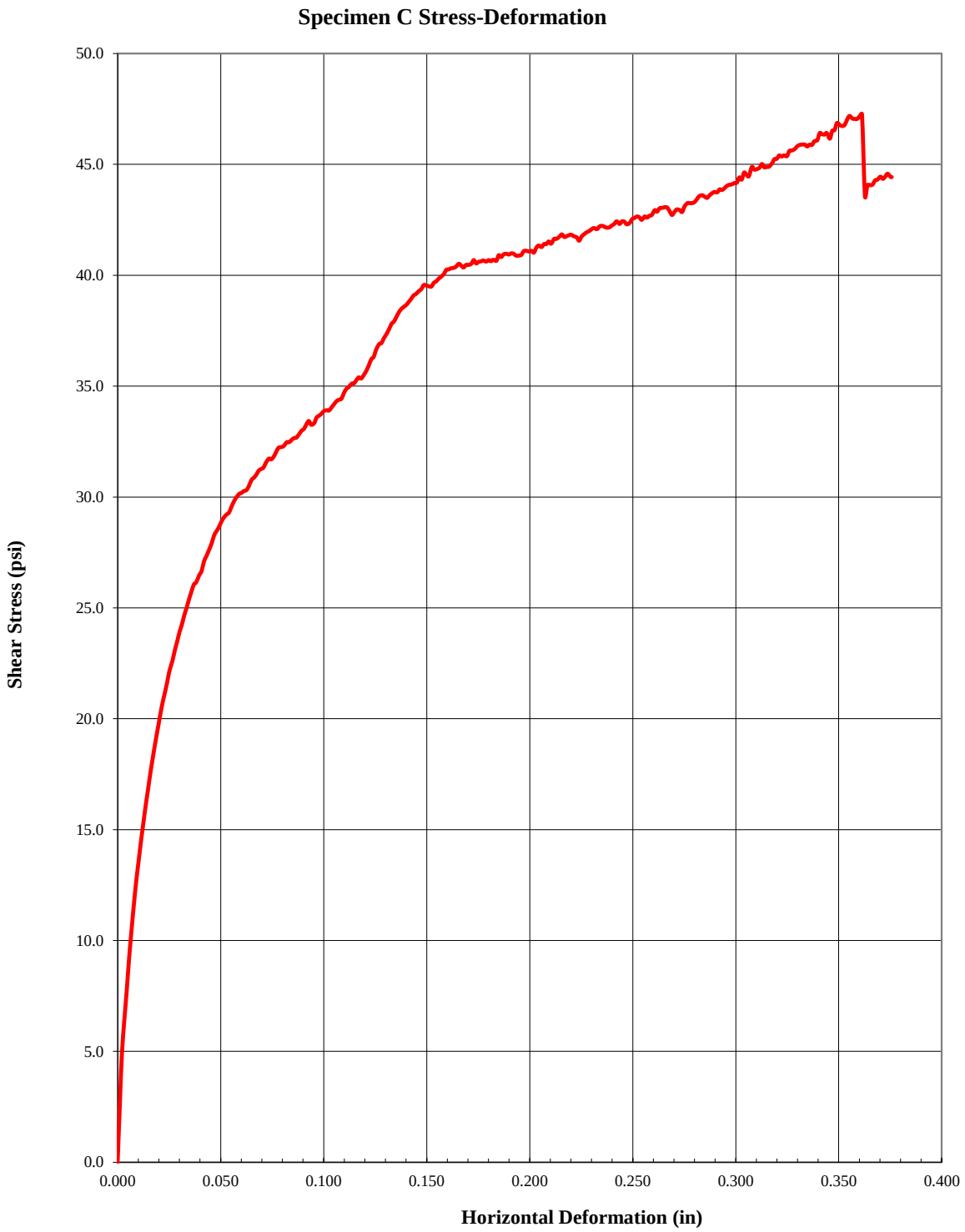
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Date

Tested By



DS 16-1101-0176 BW-17 T-3.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

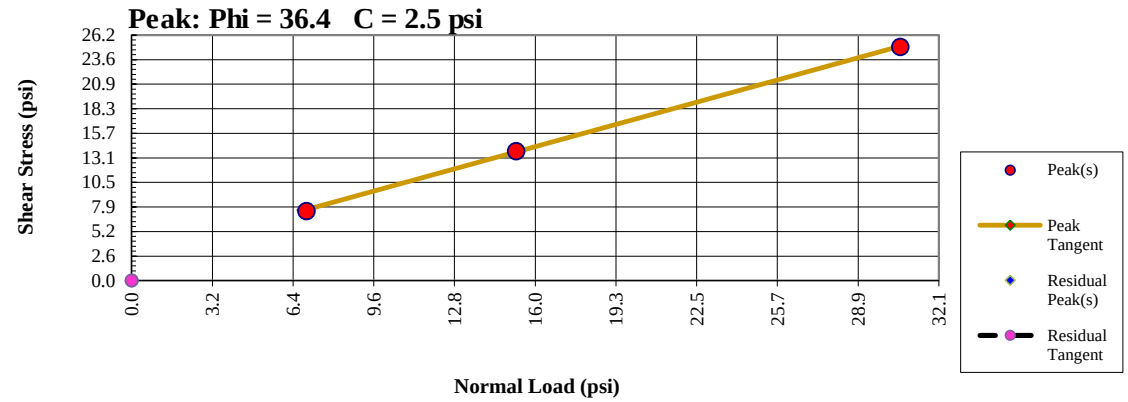
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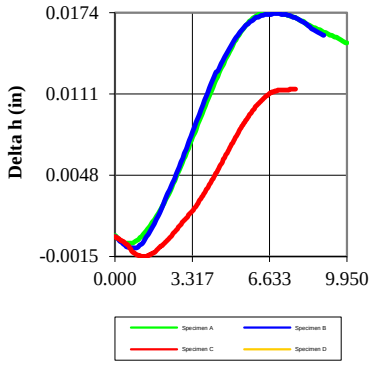
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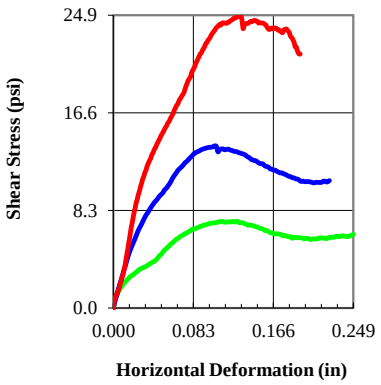
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	24.74	26.69	27.41	
Density (pcf)	94.55	94.83	93.19	
Void Ratio	0.717	0.760	0.742	
Saturation (%)	89.74	93.88	96.09	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	28.22	28.52	28.07	
Density (pcf)	96.95	98.17	96.53	
Void Ratio	0.674	0.701	0.682	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.981	0.974	0.965	
Normal Stress (psi)	6.9	15.3	30.6	
Peak Stress (psi)	7.4	13.8	24.9	
Residual Stress (psi)				
Strain (%)	9.950	8.956	7.743	
Rate (in/min)	0.00656	0.00721	0.00404	

Project Date	
Date	2/23/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7852
Boring Number	BW-23
Sample Number:	T-3
Depth:	48.5-50.5 ft.
Sample Type:	Undisturbed
Description:	POORLY GRADED SAND(SP A-3(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

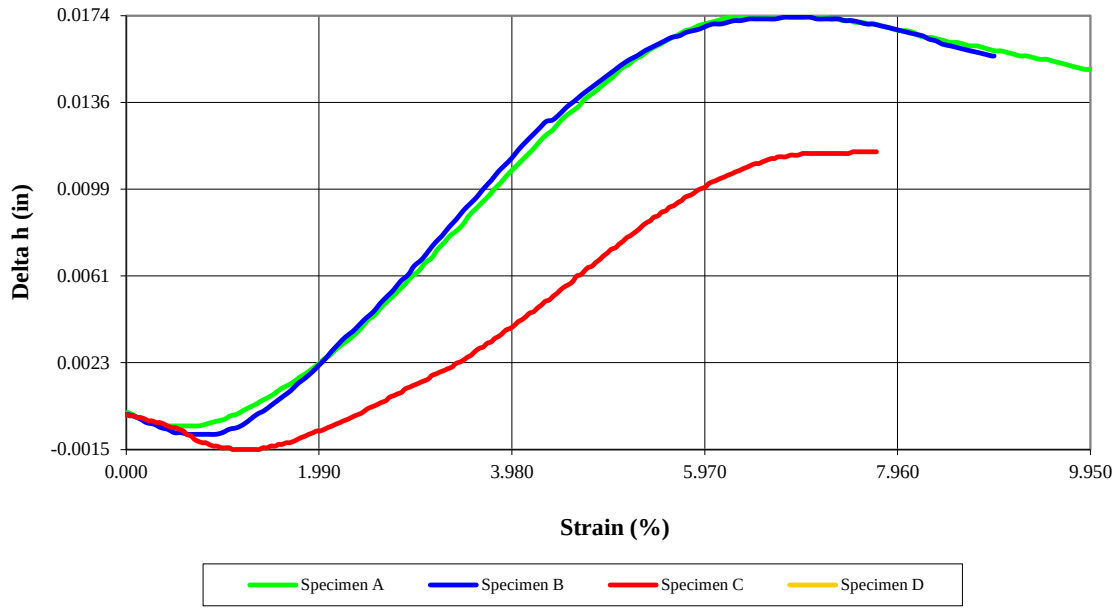
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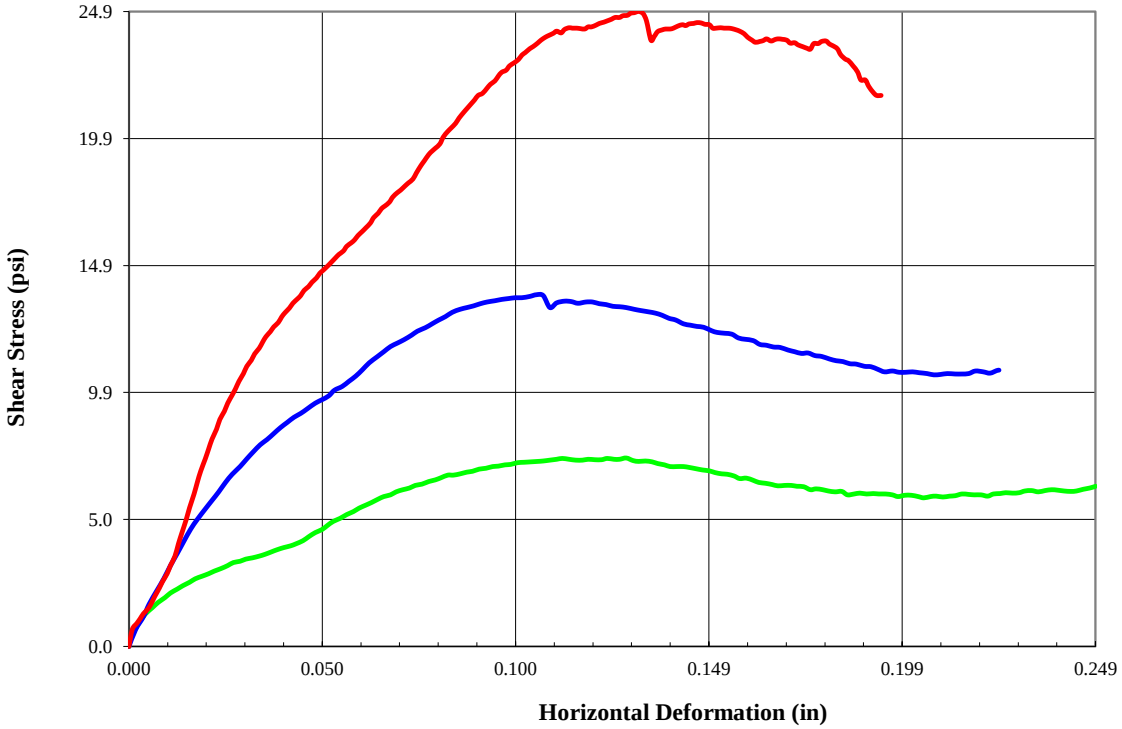
Date

Tested By

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Stress-Deformation



Thompson Engineering

Direct Shear Test

Date

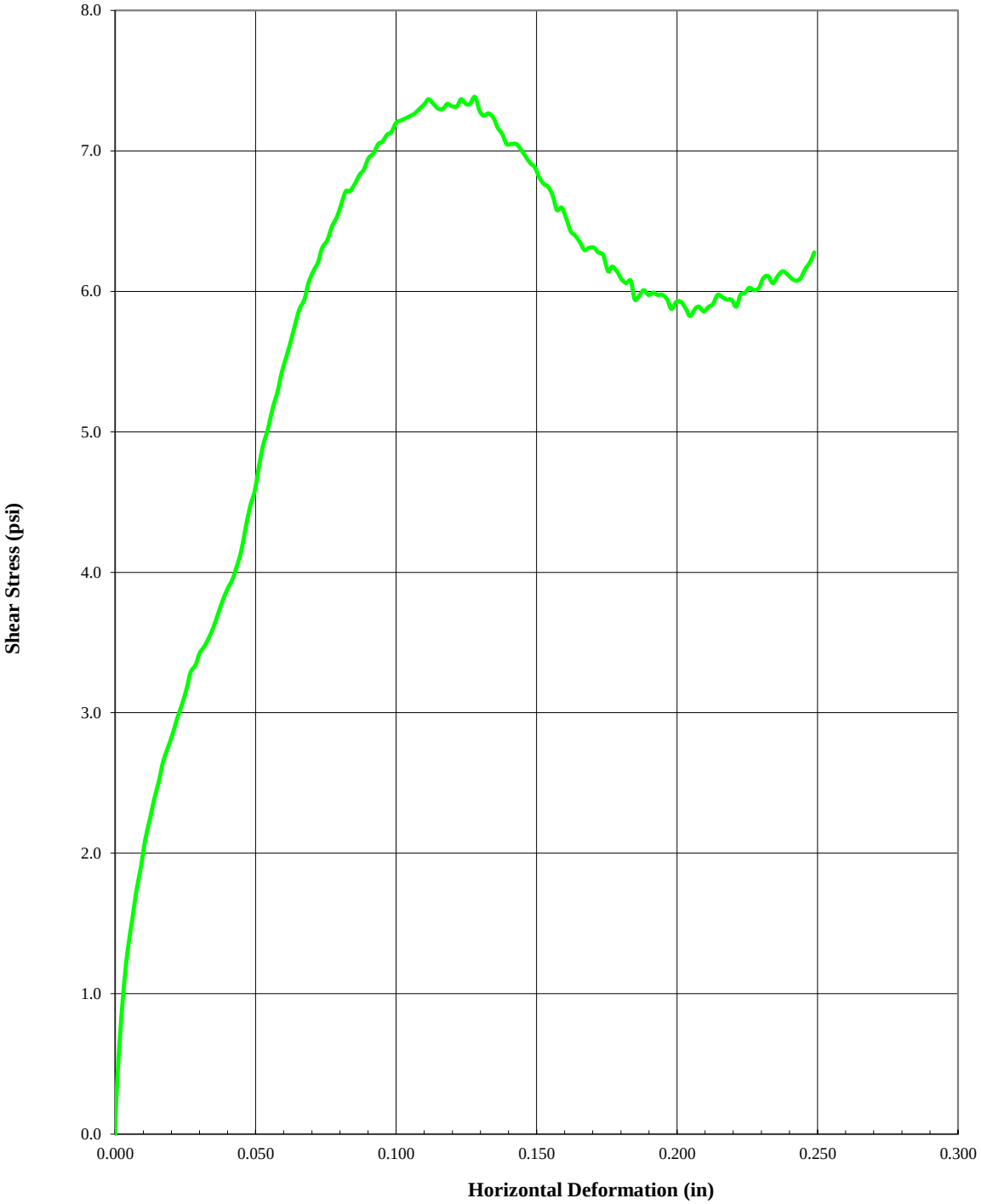
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-23 T-3.HSD

Thompson Engineering

Direct Shear Test

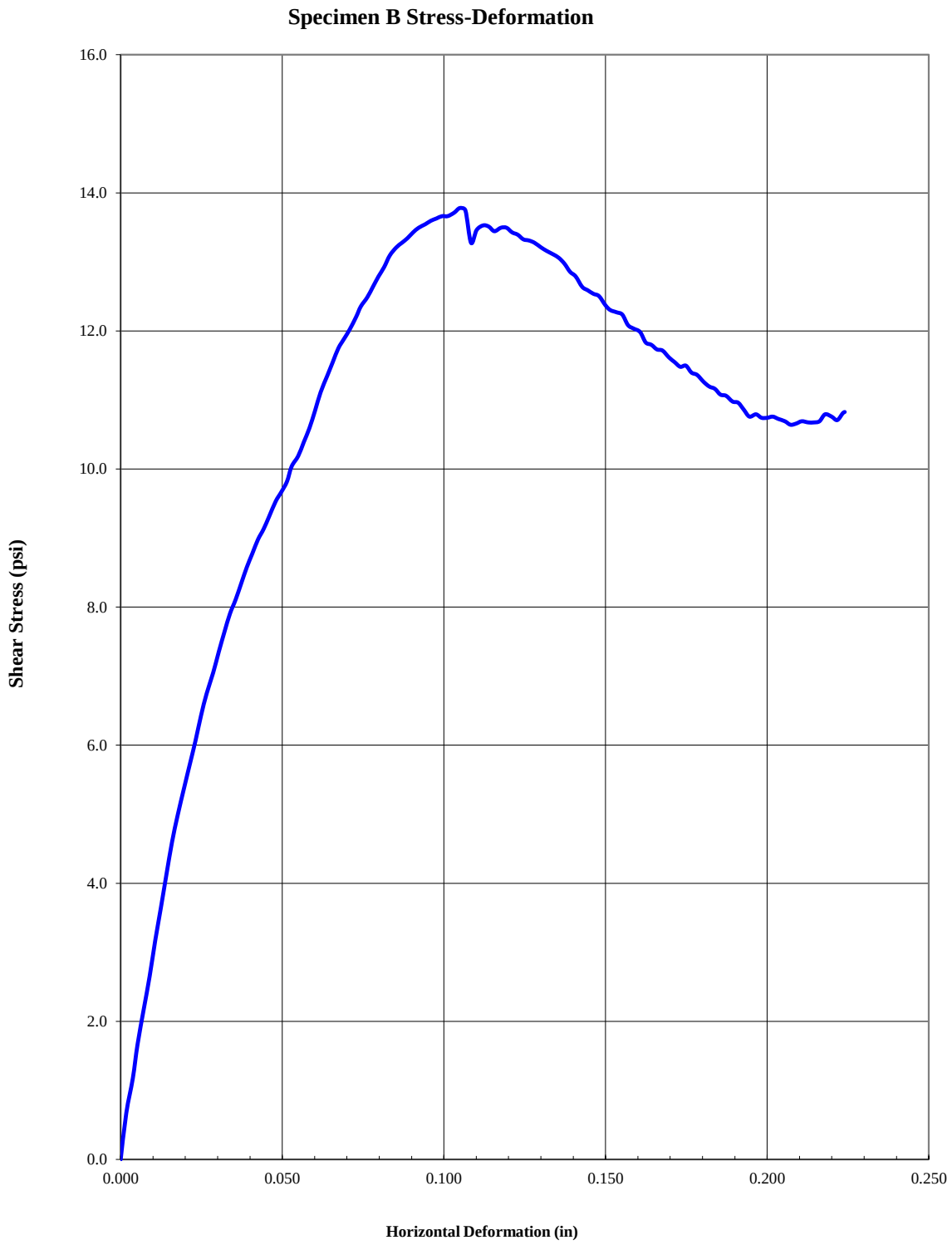
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Date

Tested By



DS 16-1101-0176 BW-23 T-3.HSD

Thompson Engineering

Direct Shear Test

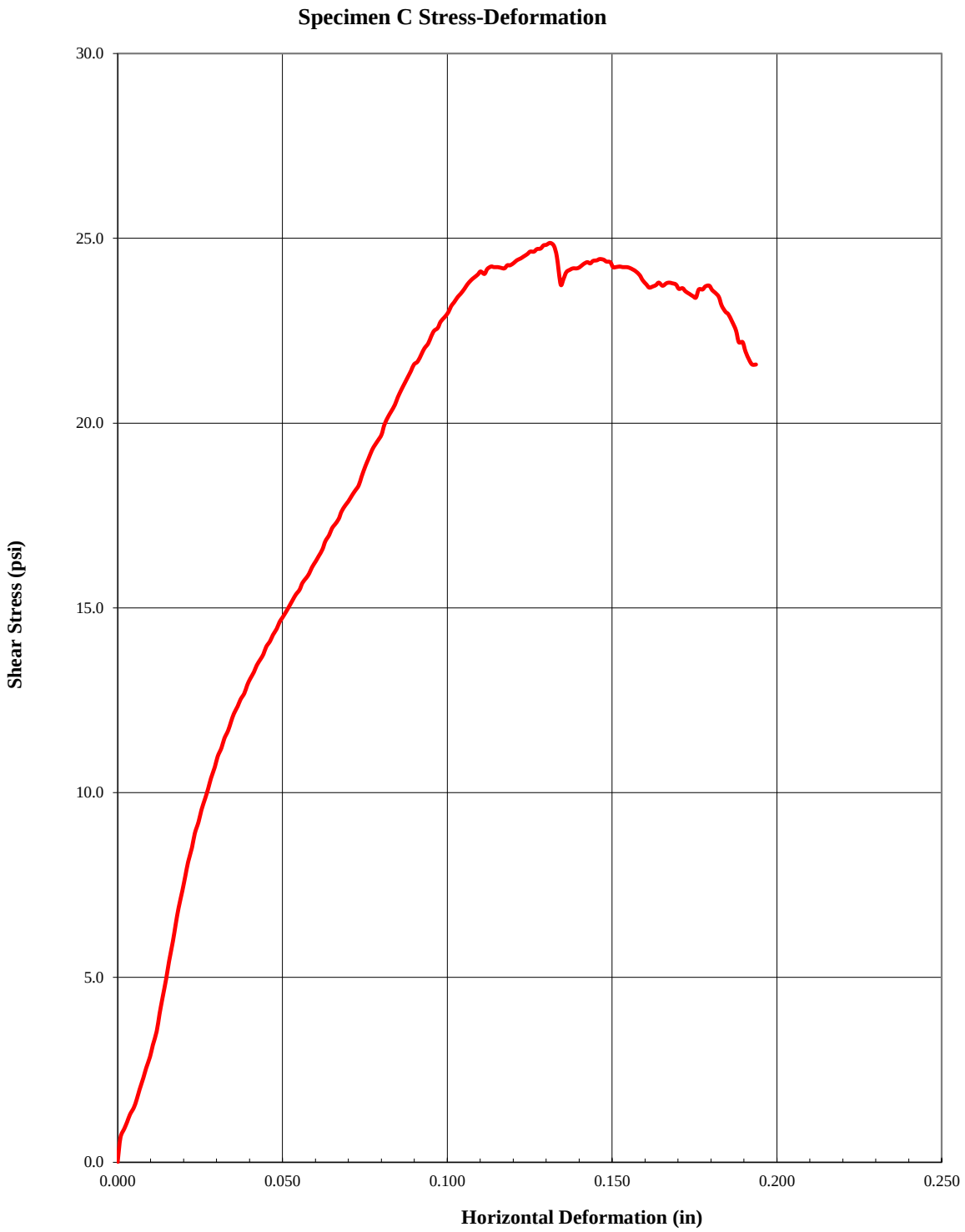
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Date

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DS 16-1101-0176 BW-23 T-3.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

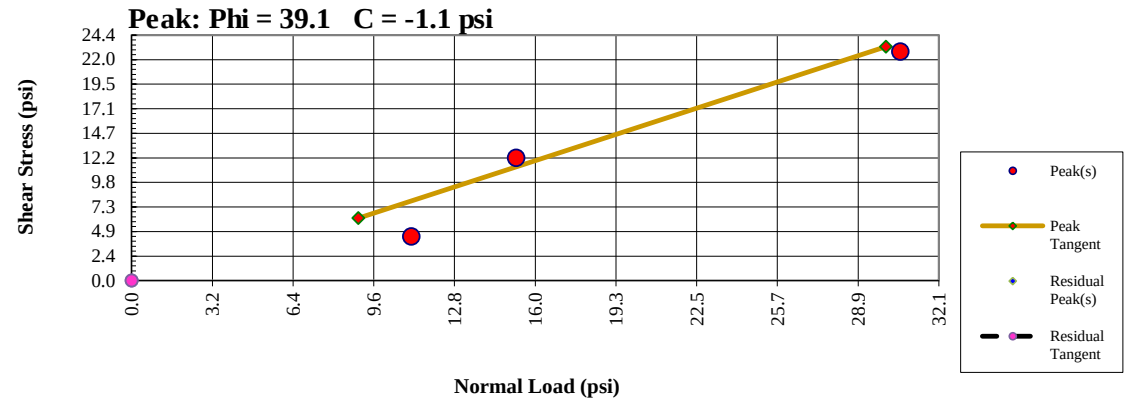
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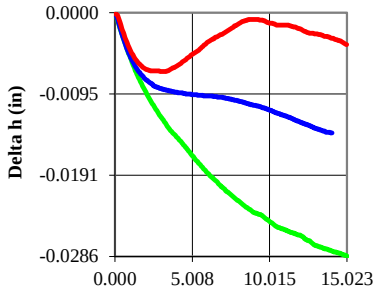
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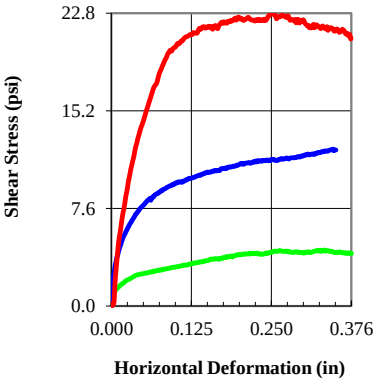
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	14.88	13.55	17.41	
Density (pcf)	95.53	107.68	107.28	
Void Ratio	0.699	0.507	0.513	
Saturation (%)	55.34	69.46	88.22	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	25.41	22.64	20.13	
Density (pcf)	64.00	102.63	109.39	
Void Ratio	1.536	0.582	0.484	
Saturation (%)	46.73	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.951	0.948	0.943	
Normal Stress (psi)	11.1	15.3	30.6	
Peak Stress (psi)	4.4	12.2	22.8	
Residual Stress (psi)				
Strain (%)	15.023	13.879	15.000	
Rate (in/min)	0.00466	0.00431	0.00647	

Project Date	
Date	1/11/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7837
Boring Number	BW-29
Sample Number:	T-4
Depth:	43.5-45.0 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

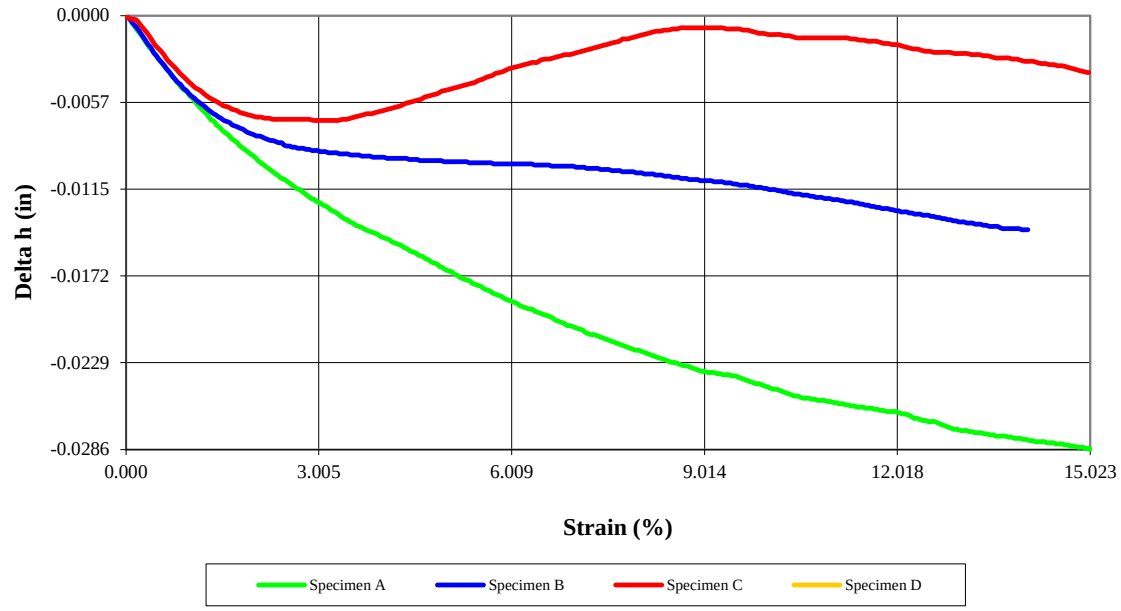
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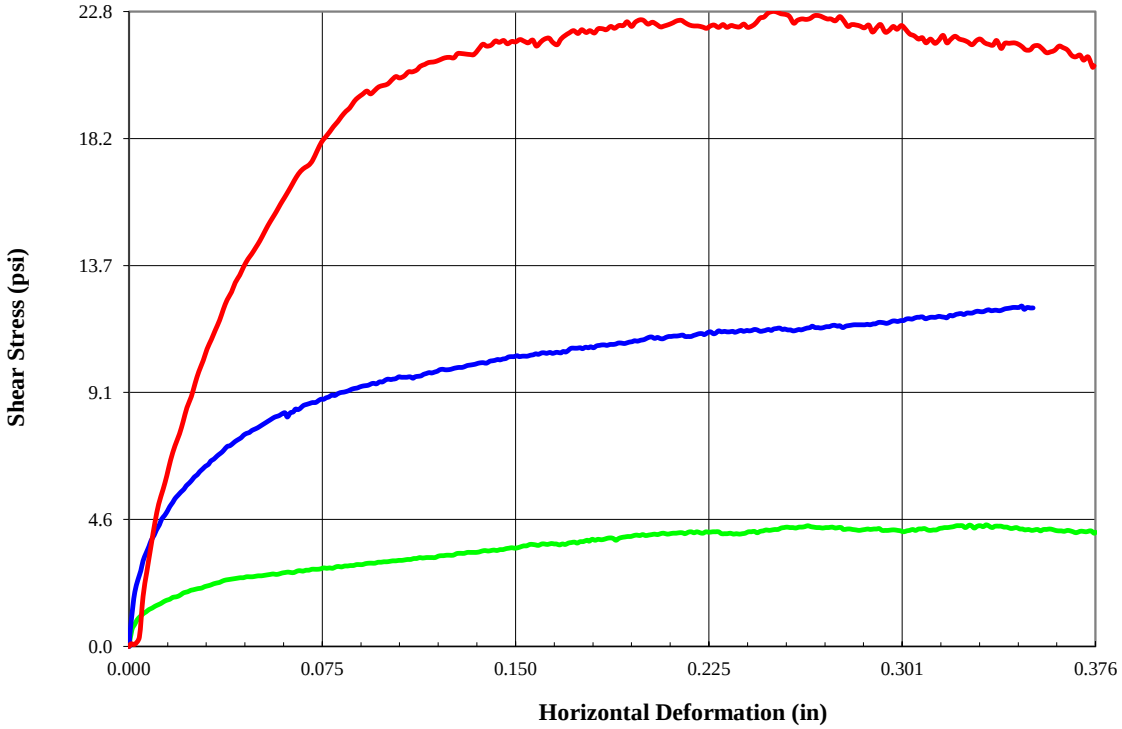
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-29 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

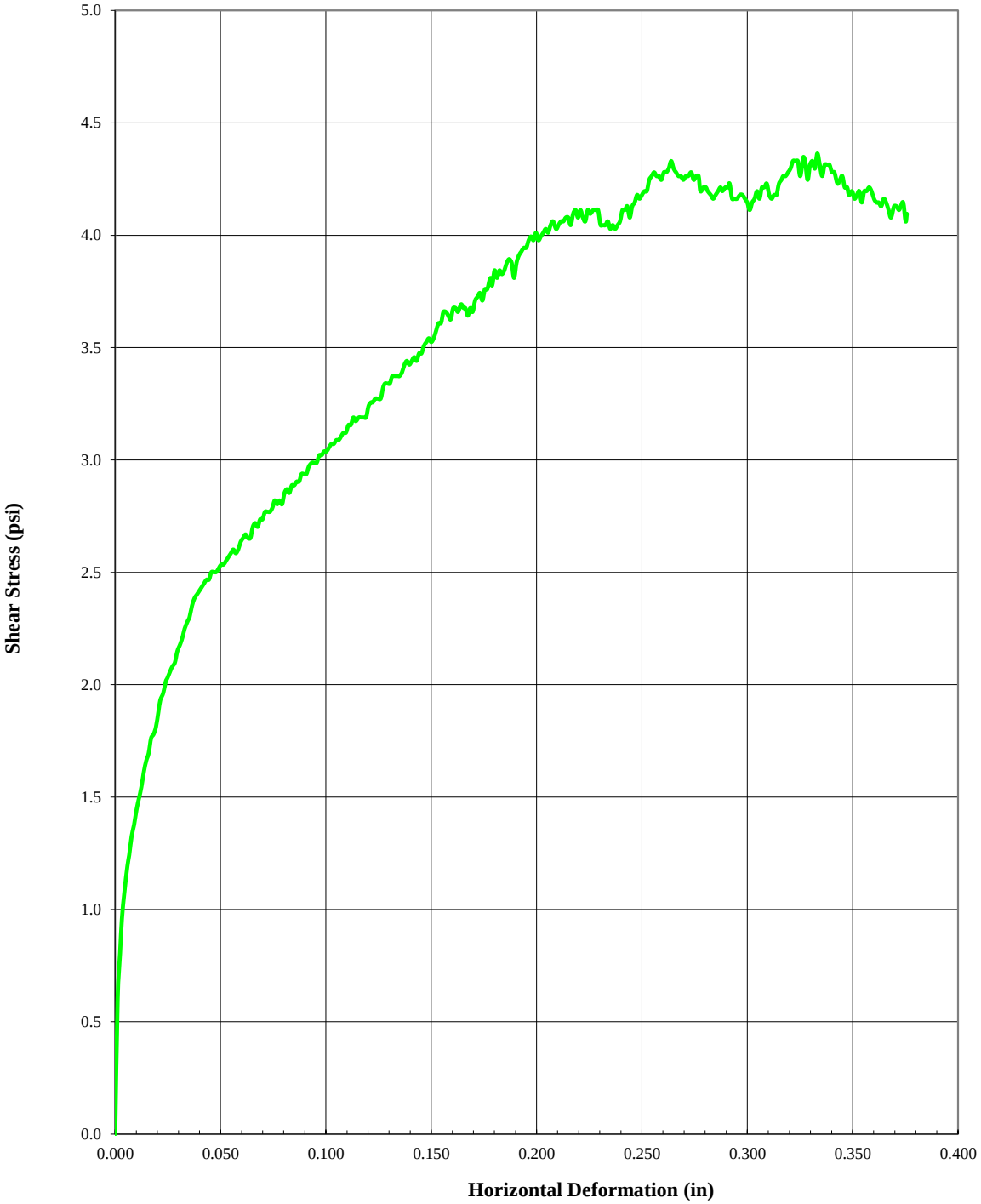
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-29 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

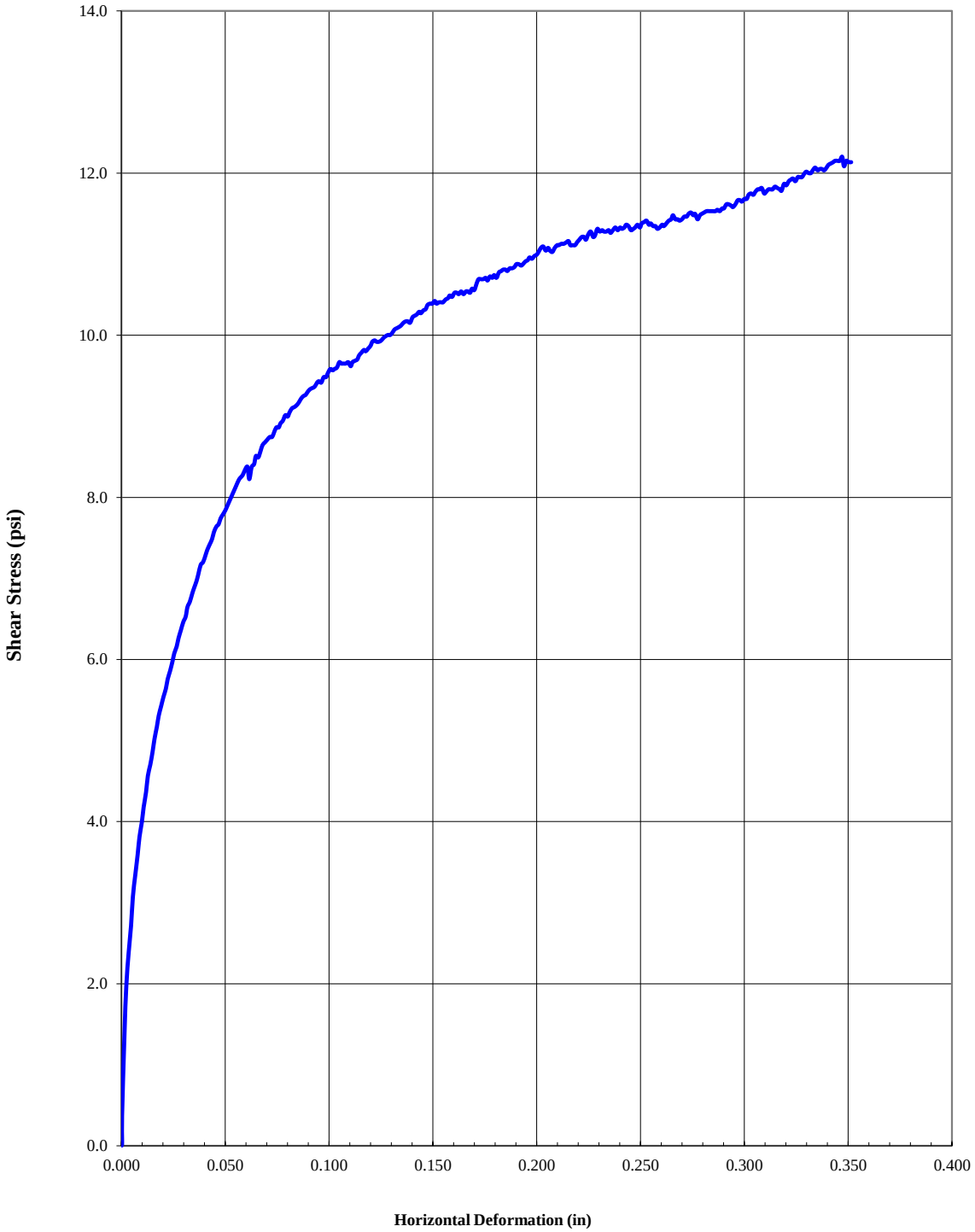
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-29 T-4.HSD

Thompson Engineering

Direct Shear Test

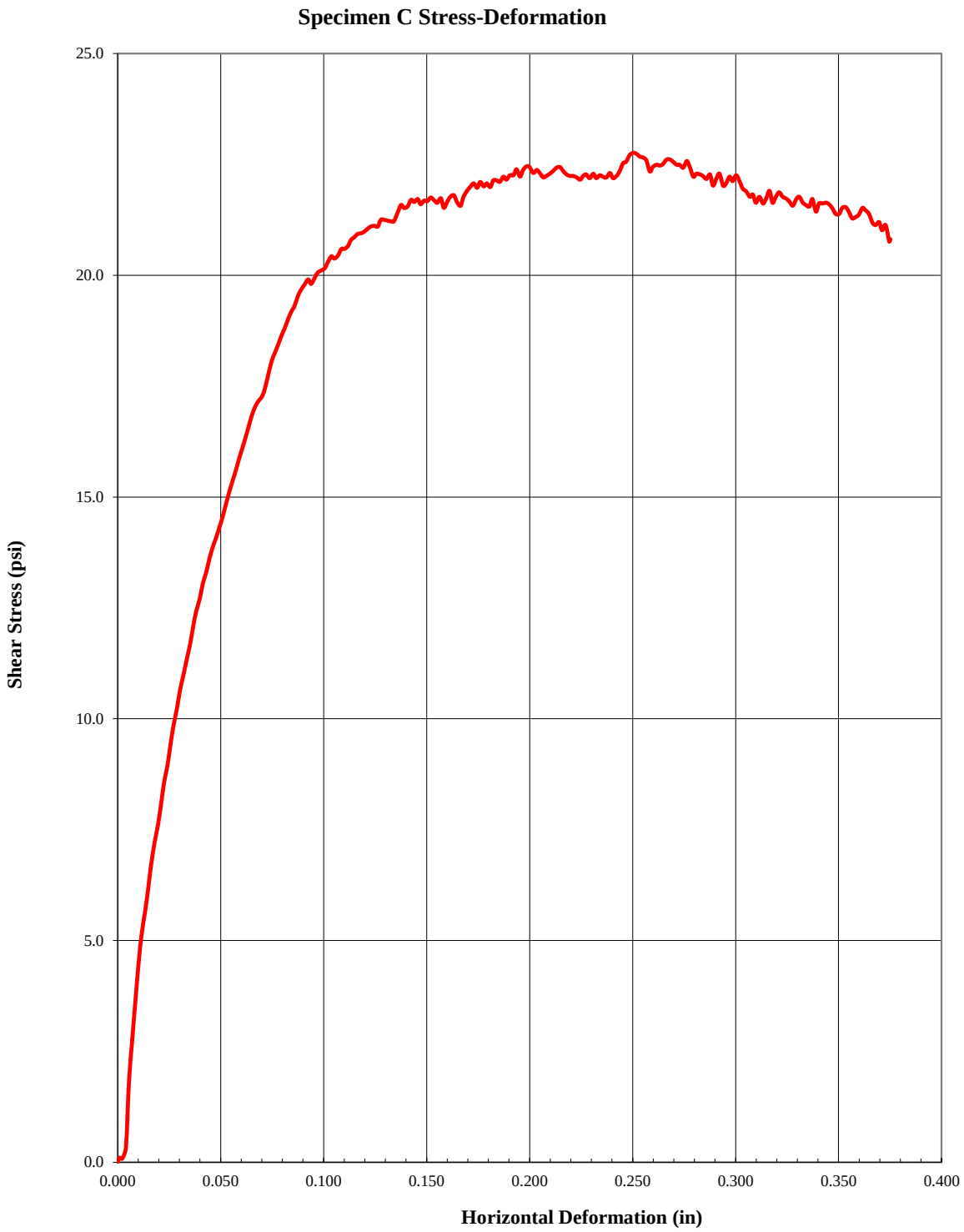
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Date

Tested By



DS 16-1101-0176 BW-29 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

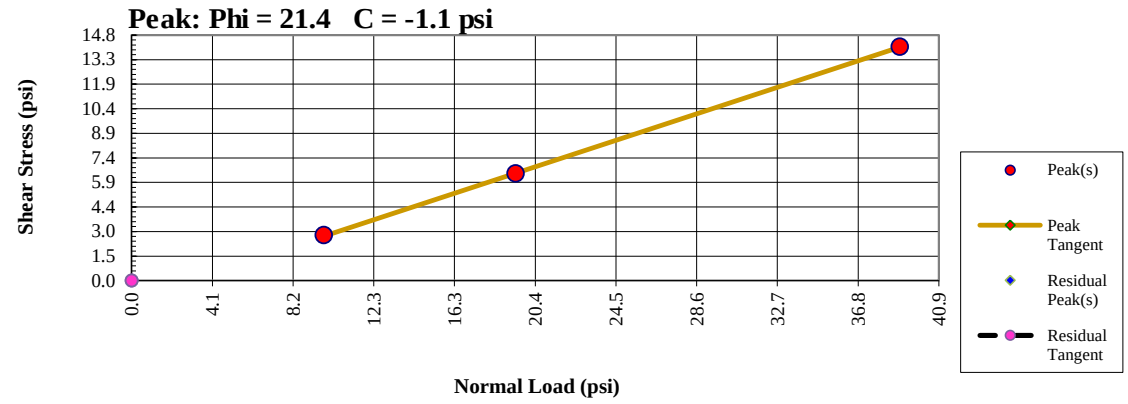
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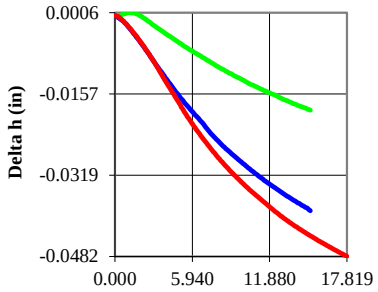
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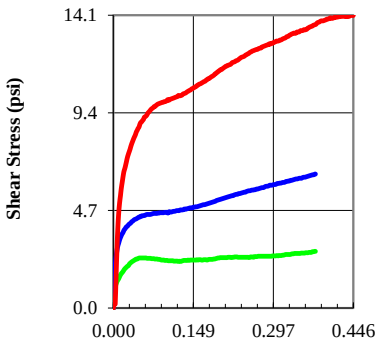
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	44.07	45.60	50.08	
Density (pcf)	76.62	75.35	69.67	
Void Ratio	1.119	1.154	1.330	
Saturation (%)	100.00	100.00	97.92	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	45.58	39.67	43.17	
Density (pcf)	78.09	79.03	74.82	
Void Ratio	1.079	1.054	1.169	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.961	0.919	0.816	
Normal Stress (psi)	9.7	19.4	38.9	
Peak Stress (psi)	2.7	6.5	14.1	
Residual Stress (psi)				
Strain (%)	15.000	15.000	17.715	
Rate (in/min)	0.00827	0.00824	0.0067	

Project Date	
Date	1/12/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7837
Boring Number	BW-32
Sample Number:	T-2
Depth:	28.5-30.5 ft.
Sample Type:	Undisturbed
Description:	SANDY FAT CLAY(CH A-7-6(21))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

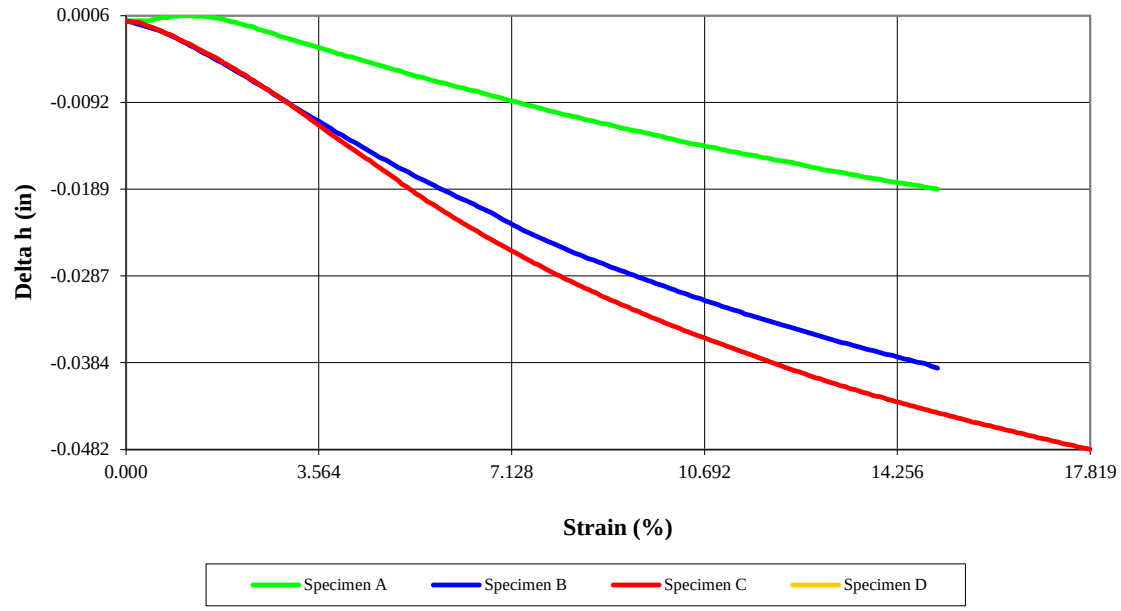
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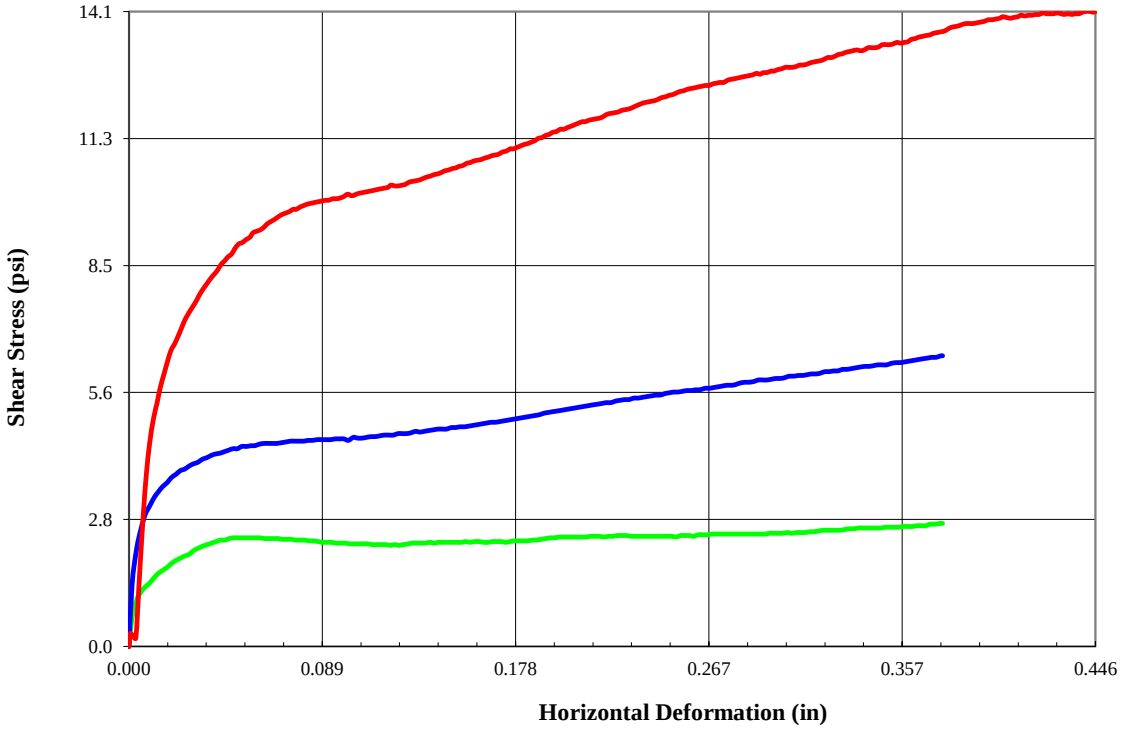
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Stress-Deformation



DS 16-1101-0176 BW-32 T-2.HSD

Thompson Engineering

Direct Shear Test

Date

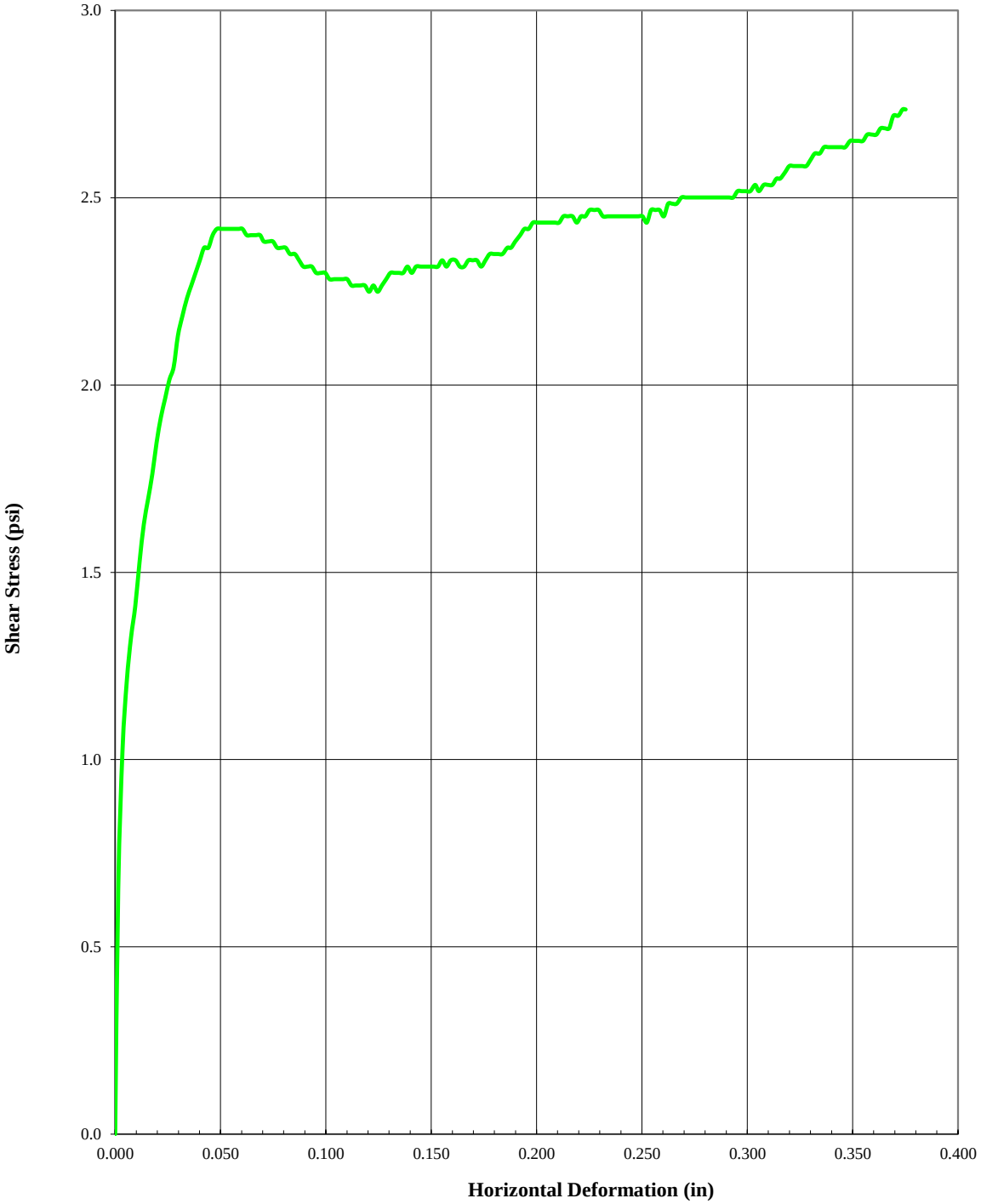
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-32 T-2.HSD

Thompson Engineering

Direct Shear Test

Date

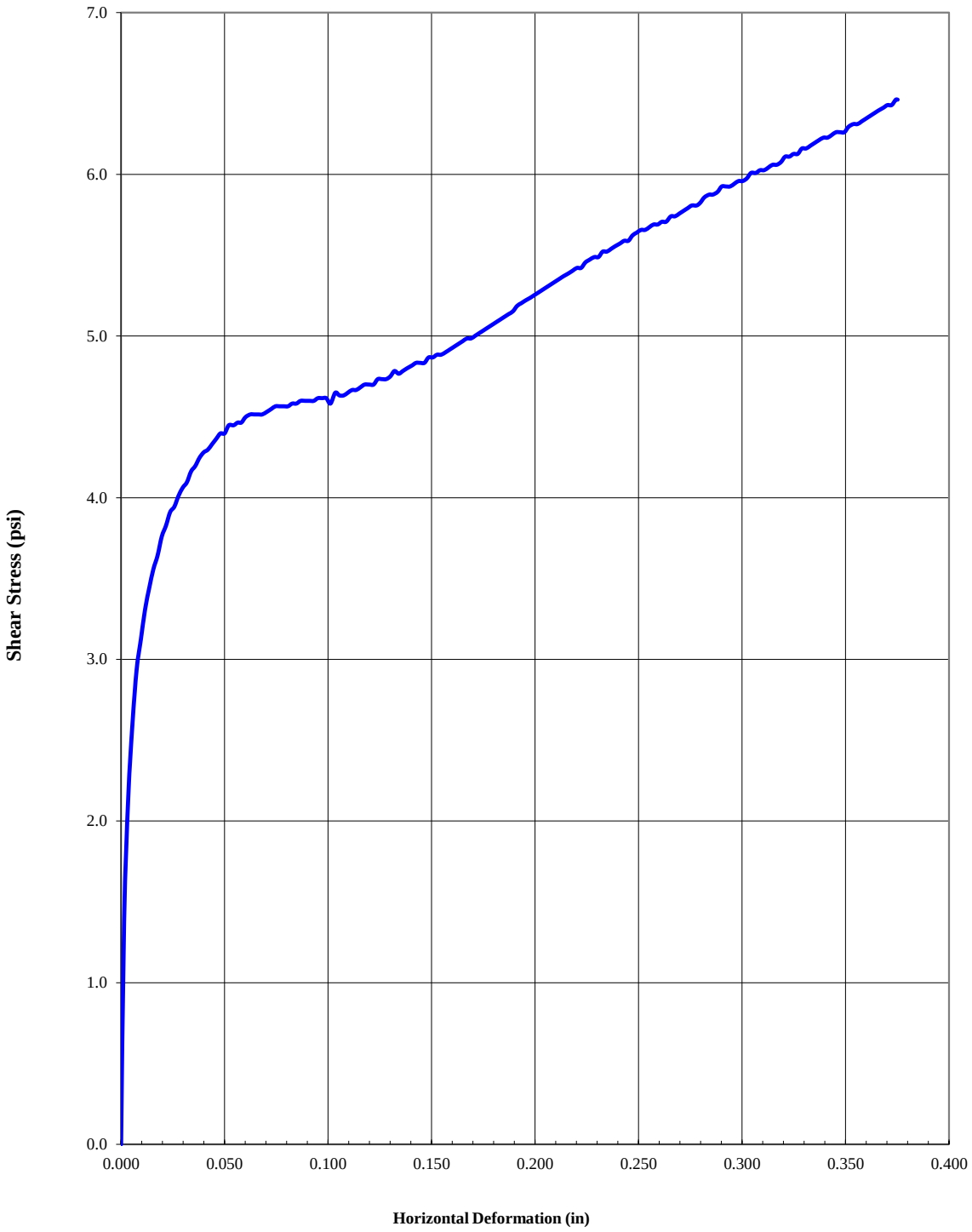
Checked By

Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-32 T-2.HSD

Thompson Engineering

Direct Shear Test

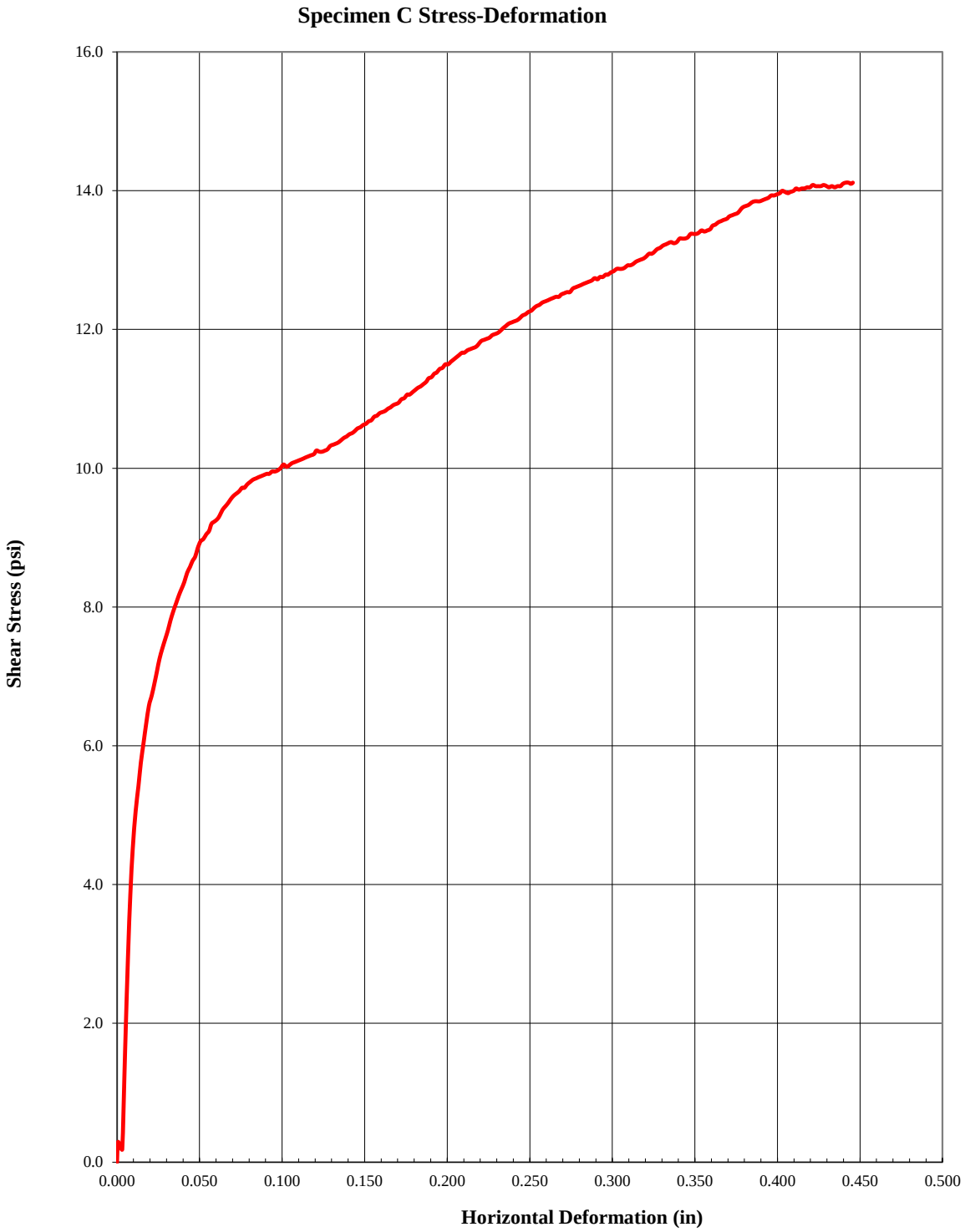
Date

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Date

Date

Tested By



DS 16-1101-0176 BW-32 T-2.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

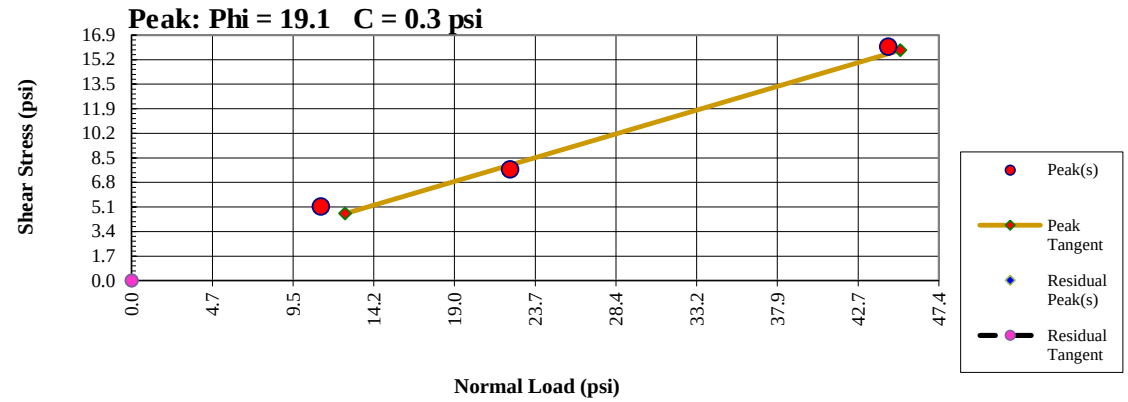
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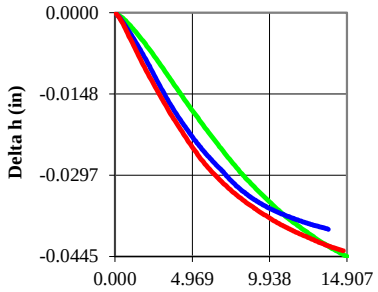
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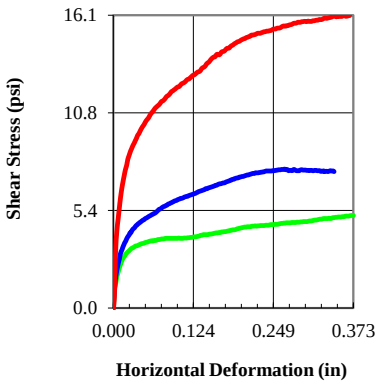
Date

Date

Tested By





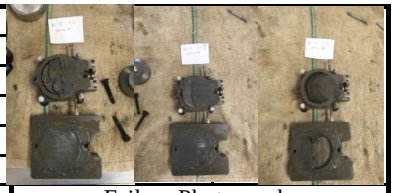


Initial	Specimen A	B	C	D
Moisture (%)	63.59	60.50	41.09	
Density (pcf)	60.01	63.50	76.96	
Void Ratio	1.705	1.556	1.109	
Saturation (%)	96.98	100.00	96.33	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	65.41	59.23	32.43	
Density (pcf)	65.38	68.52	77.78	
Void Ratio	1.483	1.369	1.087	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.946	0.918	0.849	
Normal Stress (psi)	11.1	22.2	44.4	
Peak Stress (psi)	5.1	7.7	16.1	
Residual Stress (psi)				
Strain (%)	14.907	13.705	14.676	
Rate (in/min)	0.0081	0.00558	0.00781	

Project Date	
Date	2/4/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7837
Boring Number	BW-33
Sample Number:	T-3
Depth:	31.5-33.5 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-6(5))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

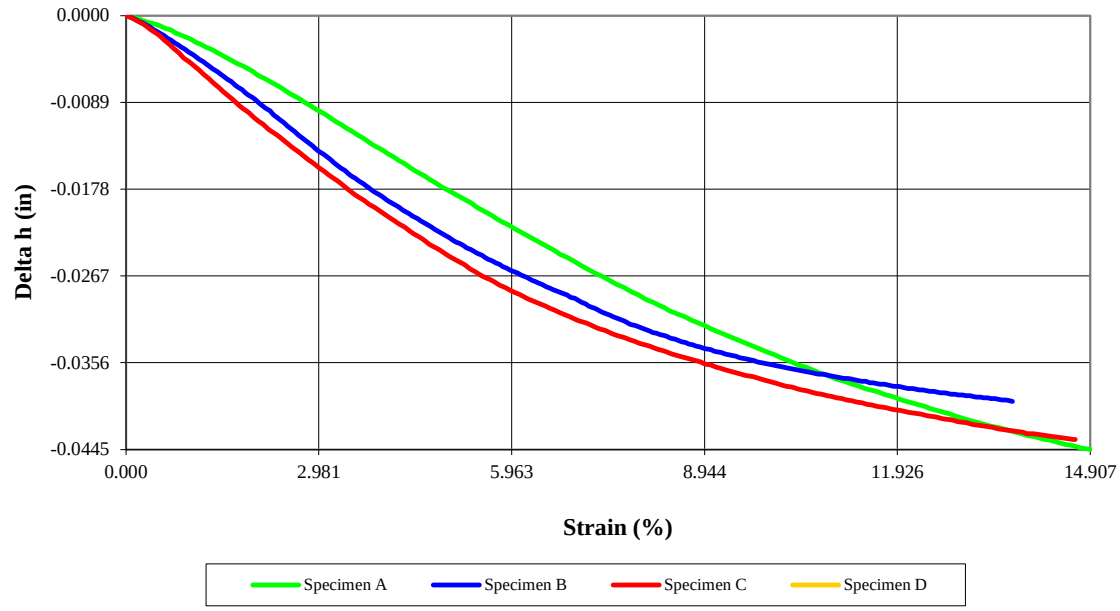
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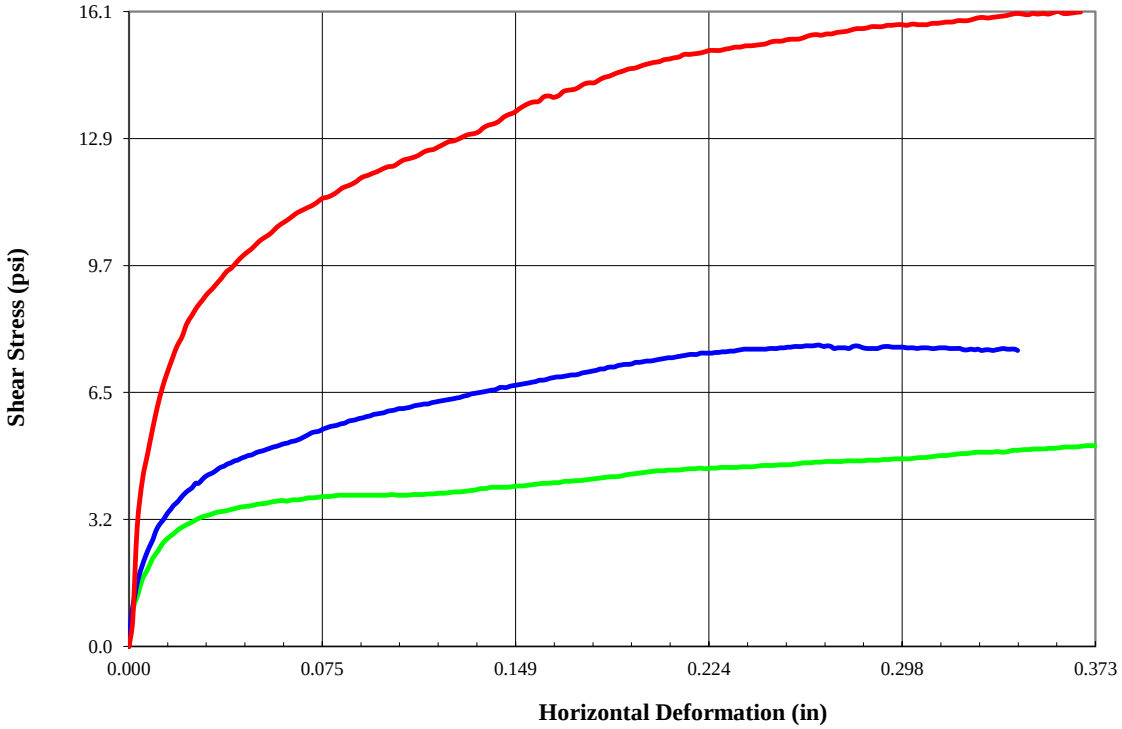
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-33 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

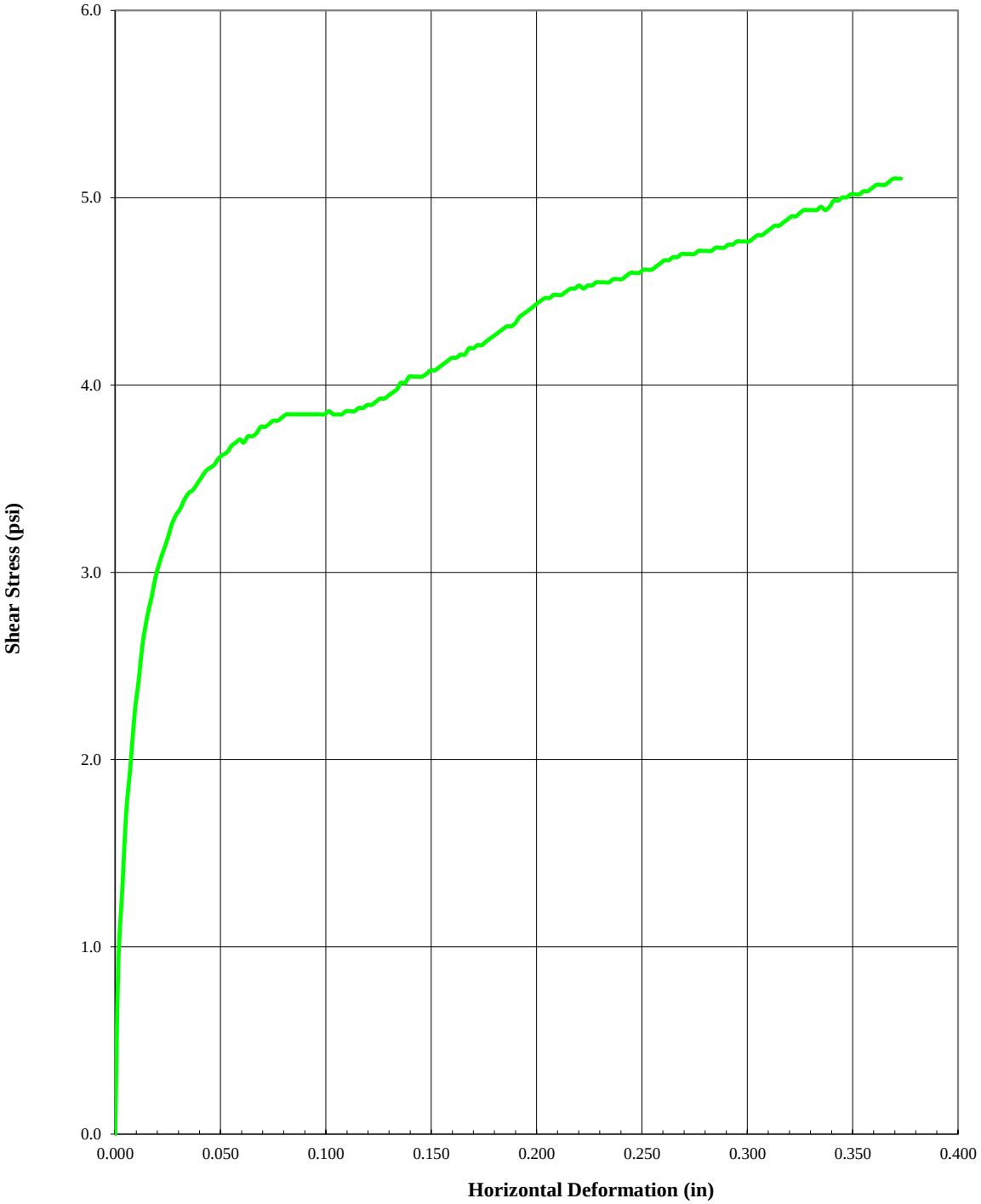
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-33 T-3.HSD

Thompson Engineering

Direct Shear Test

Date

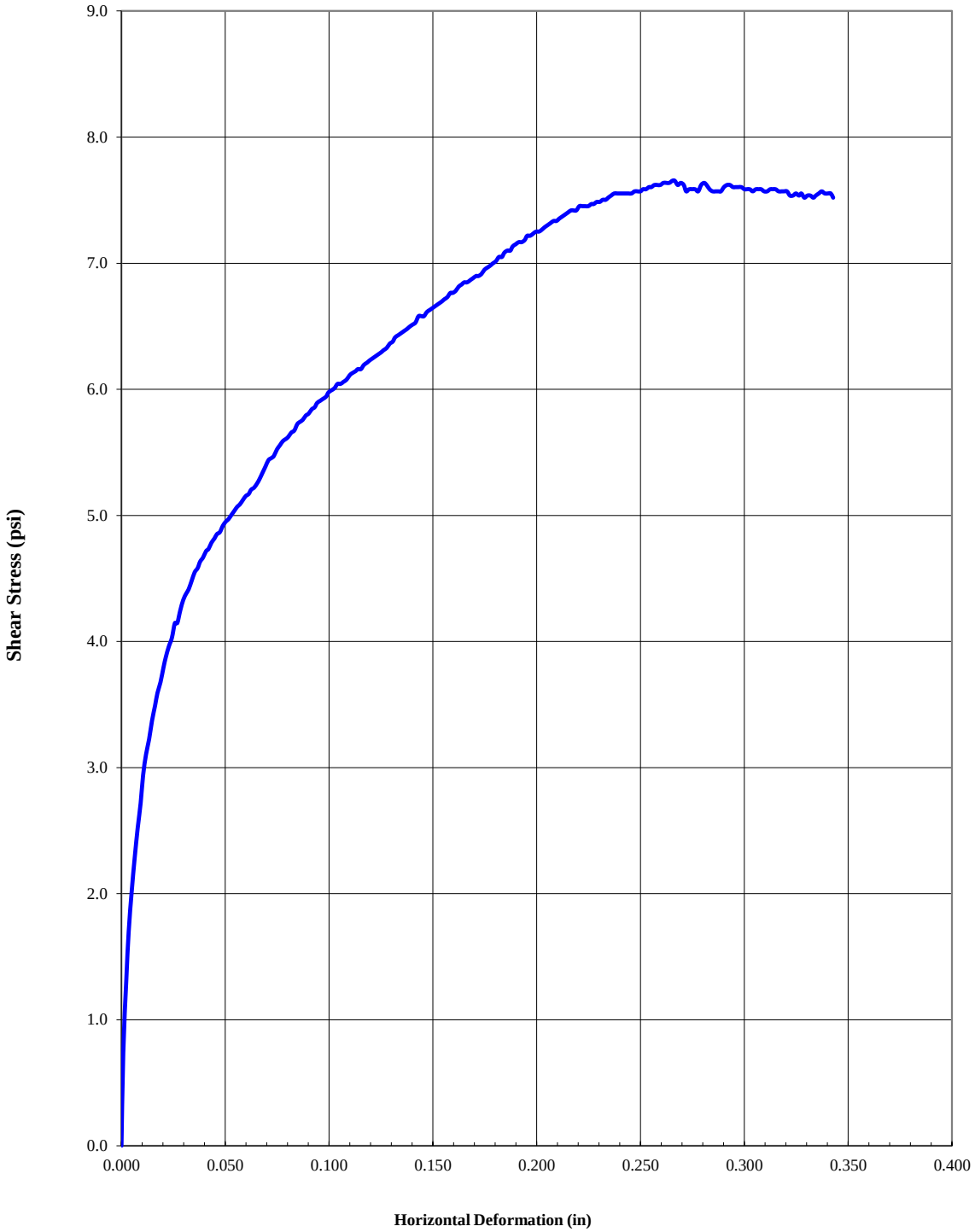
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-33 T-3.HSD

Thompson Engineering

Direct Shear Test

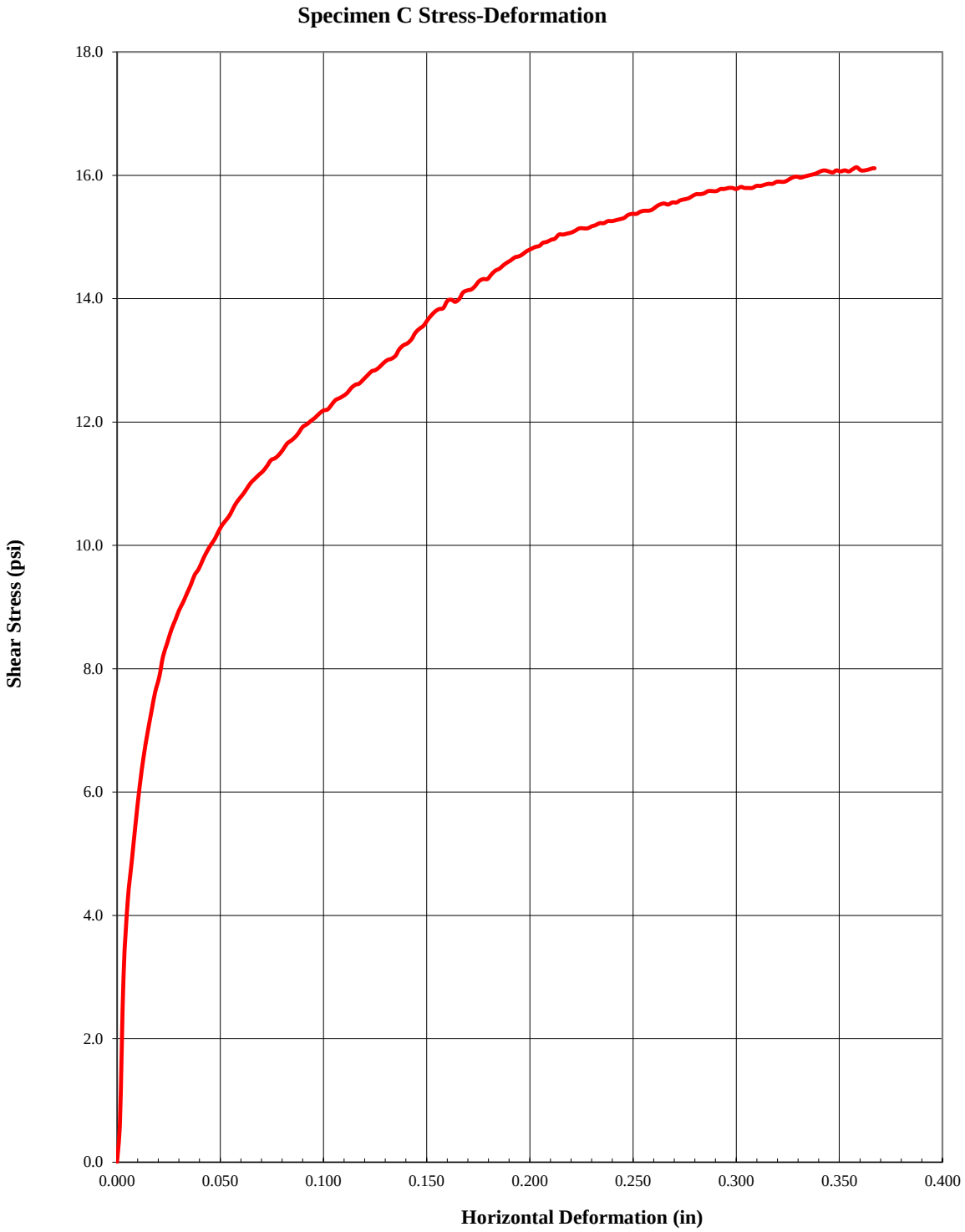
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Date

Date

Tested By



DS 16-1101-0176 BW-33 T-3.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

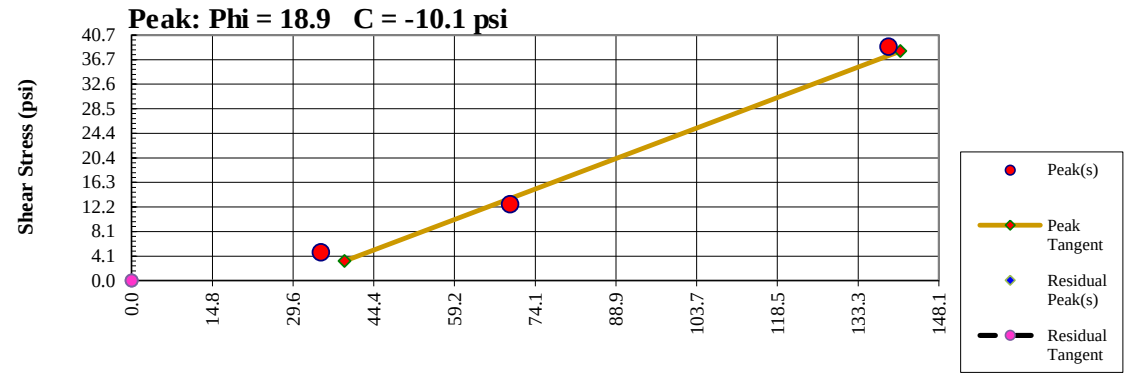
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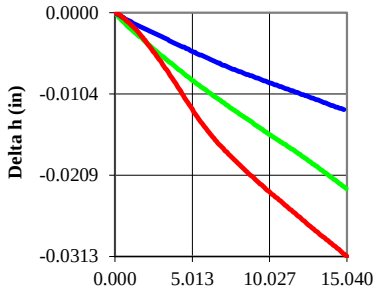
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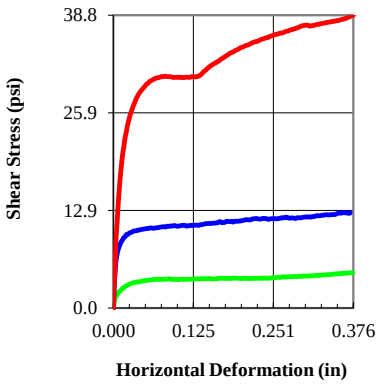
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	23.26	24.89	26.87	
Density (pcf)	101.63	99.34	97.07	
Void Ratio	0.597	0.634	0.672	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	19.76	17.15	18.94	
Density (pcf)	104.05	108.22	111.24	
Void Ratio	0.560	0.500	0.459	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.889	0.822	0.840	
Normal Stress (psi)	34.7	69.4	138.9	
Peak Stress (psi)	4.7	12.6	38.8	
Residual Stress (psi)				
Strain (%)	14.994	14.844	15.040	
Rate (in/min)	0.00857	0.008	0.00773	

Project Date	
Date	9/21/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7985
Boring Number	BW-34
Sample Number:	T-6
Depth:	103.0-105.0 ft.
Sample Type:	Undisturbed
Description:	CLAYEY SAND(SC A-6(3))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

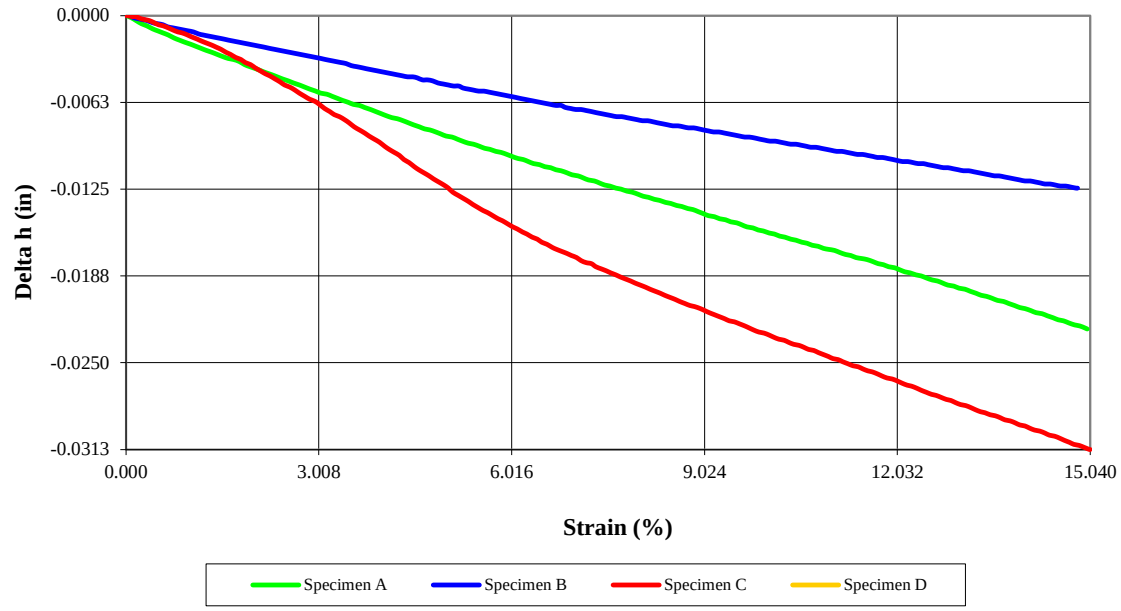
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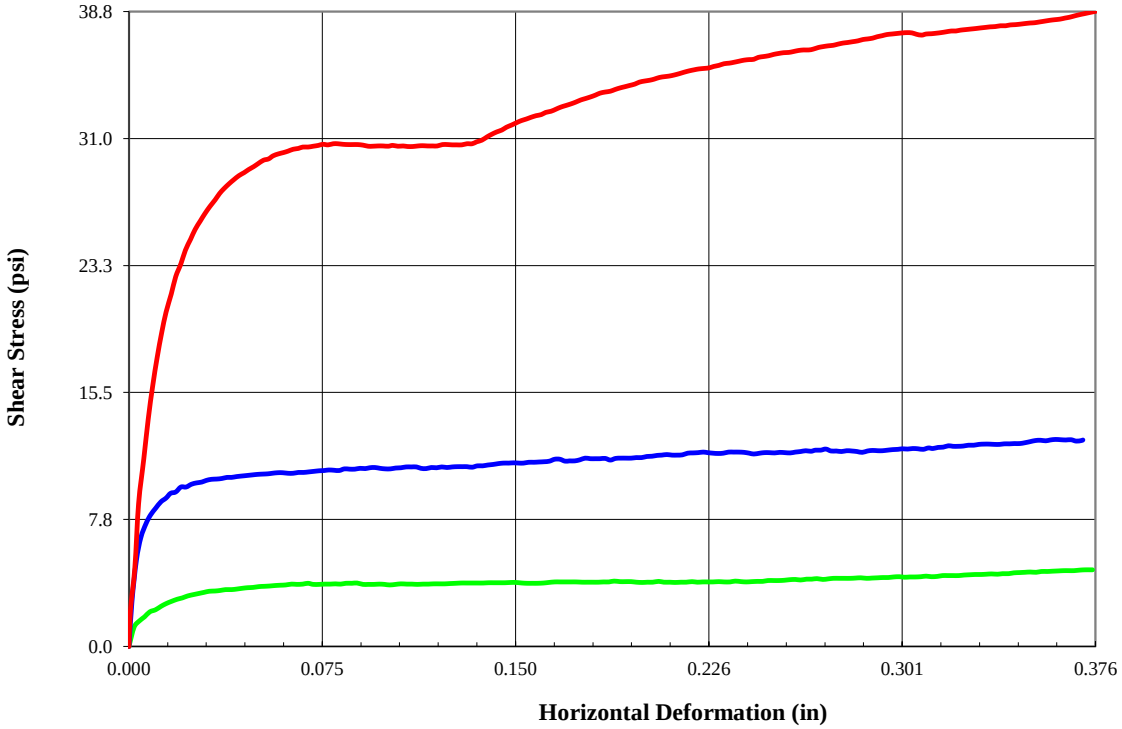
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-34 T-6.HSD

Thompson Engineering

Direct Shear Test

Date

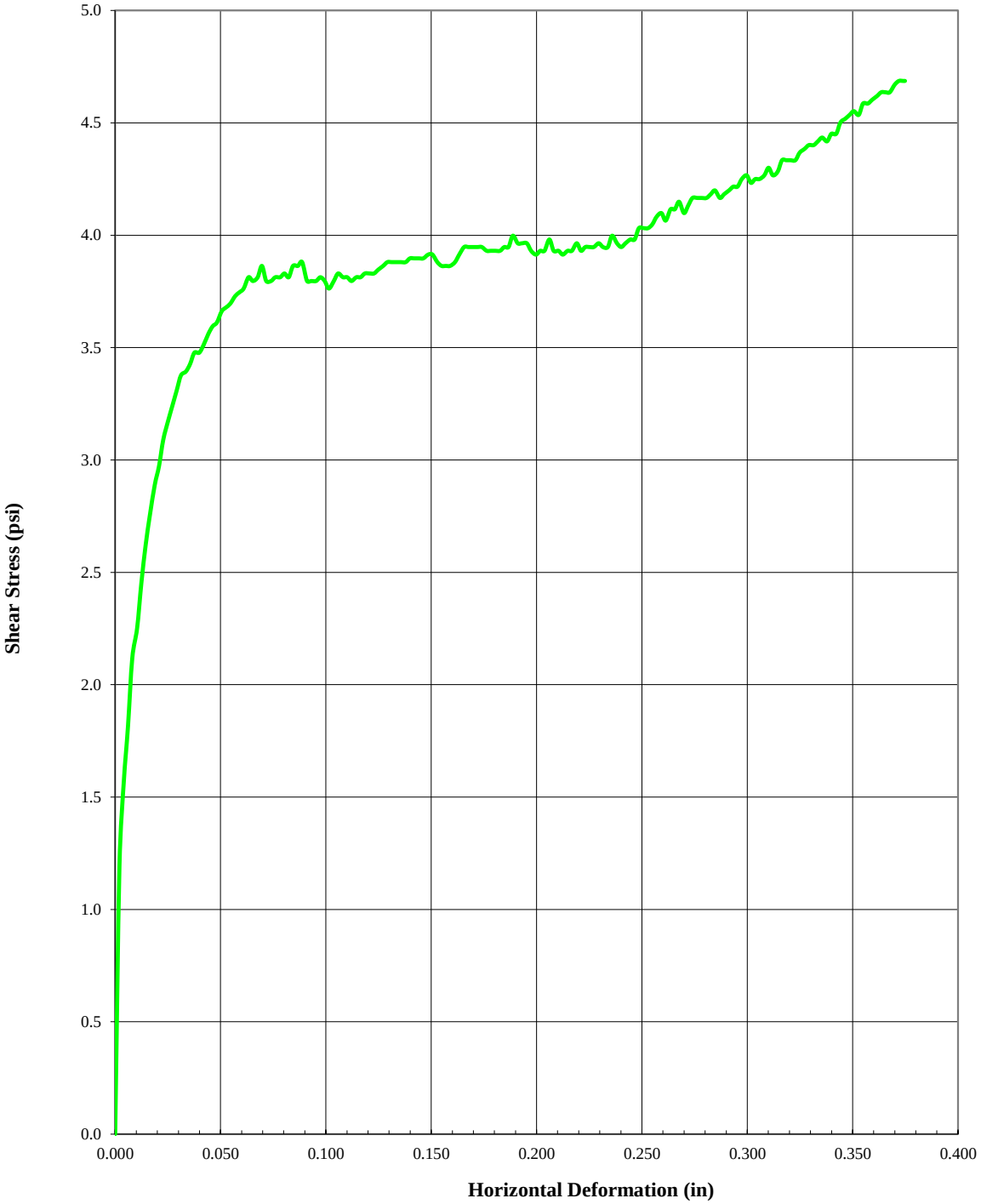
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-34 T-6.HSD

Thompson Engineering

Direct Shear Test

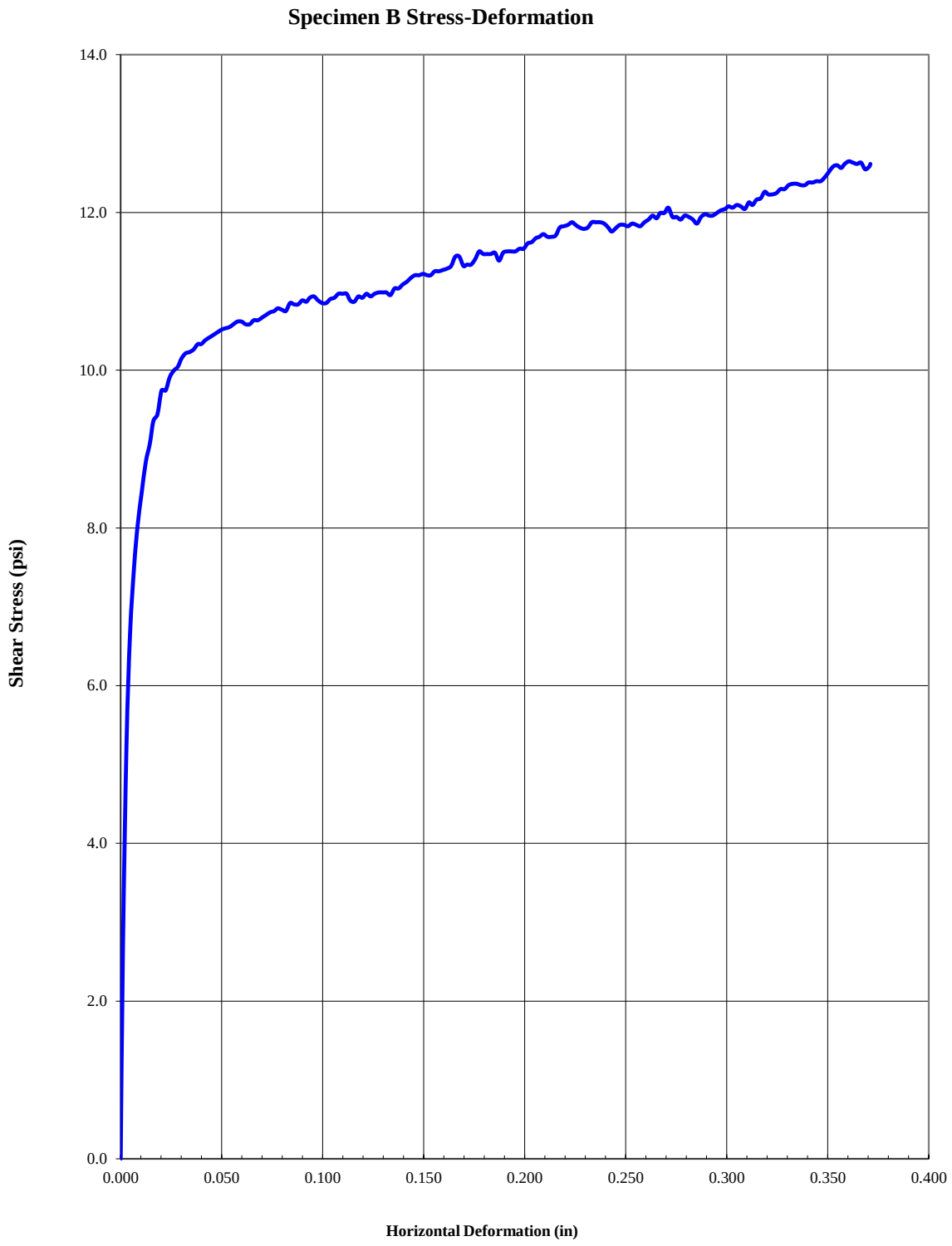
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Date

Date

Tested By



DS 16-1101-0176 BW-34 T-6.HSD

Thompson Engineering

Direct Shear Test

Date

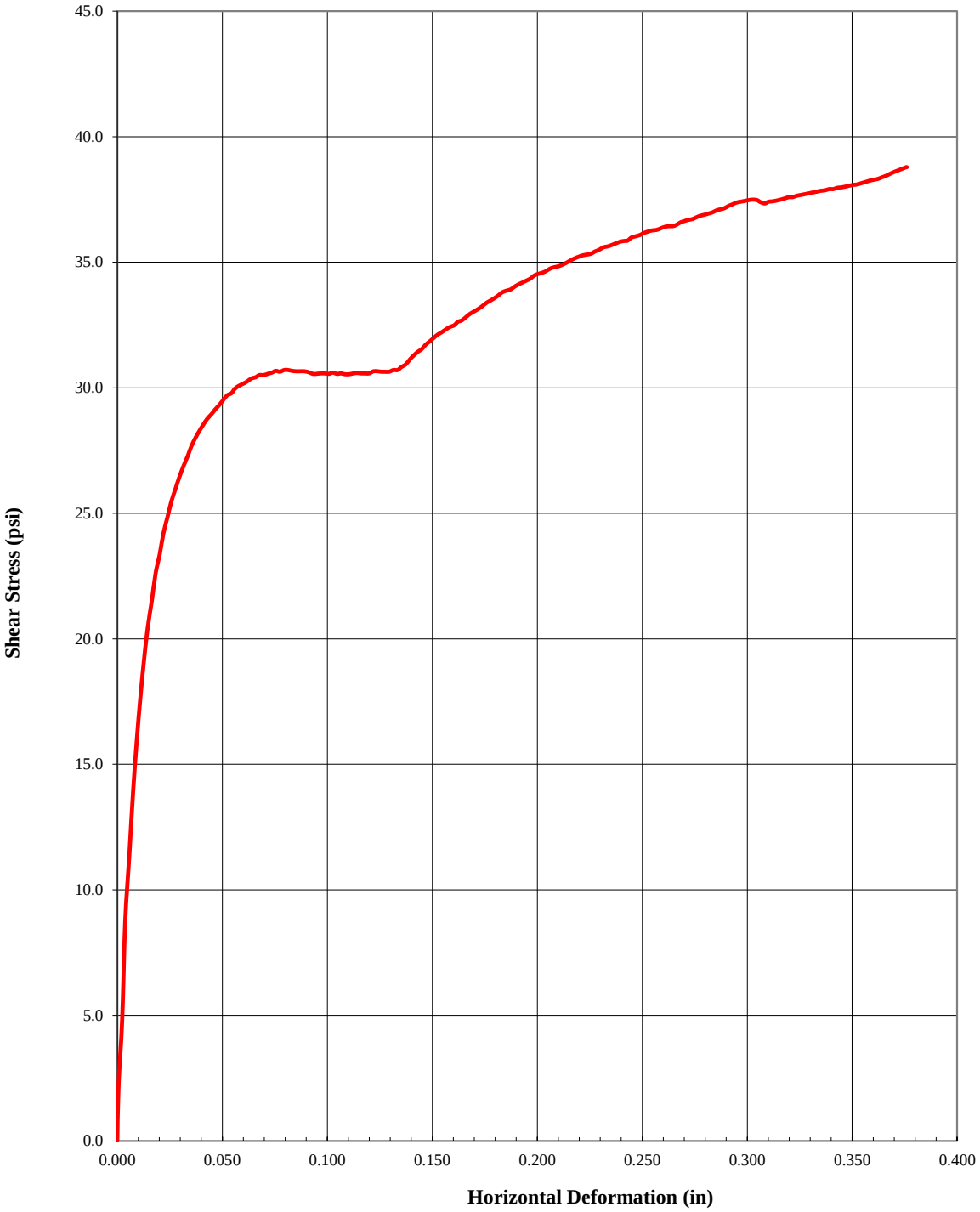
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Date

Date

Tested By

Specimen C Stress-Deformation



DS 16-1101-0176 BW-34 T-6.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

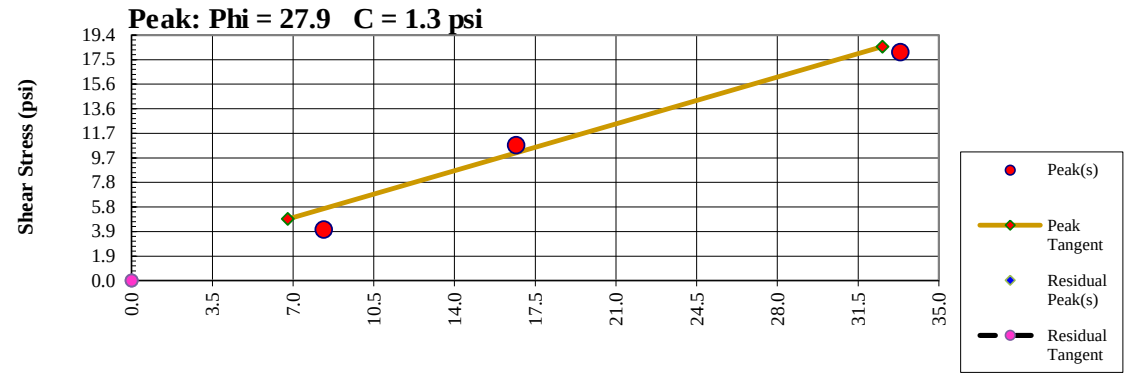
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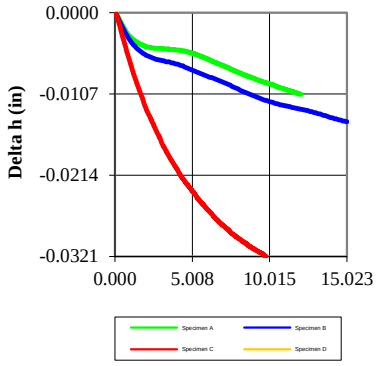
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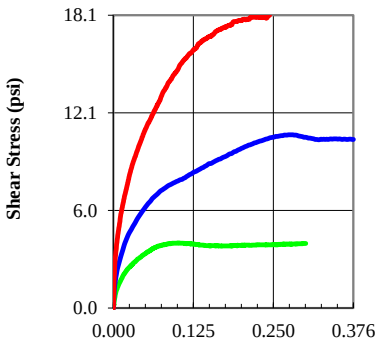
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	29.84	32.46	30.84	
Density (pcf)	93.29	92.46	92.58	
Void Ratio	0.740	0.755	0.753	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	30.45	28.55	30.45	
Density (pcf)	95.06	98.37	95.06	
Void Ratio	0.708	0.650	0.708	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.952	0.945	0.883	
Normal Stress (psi)	8.3	16.7	33.3	
Peak Stress (psi)	4.0	10.7	18.1	
Residual Stress (psi)				
Strain (%)	12.041	11.233	9.776	
Rate (in/min)	0.00181	0.00892	0.00131	

Project Date	
Date	2/14/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7837
Boring Number	BW-37
Sample Number:	T-4
Depth:	48.0-50.0 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

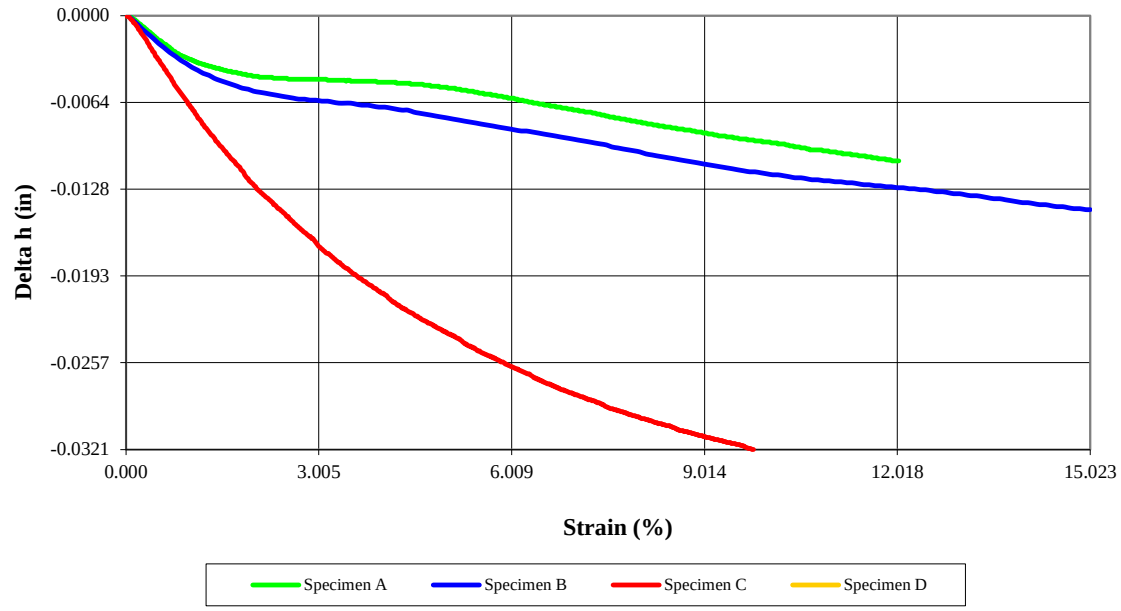
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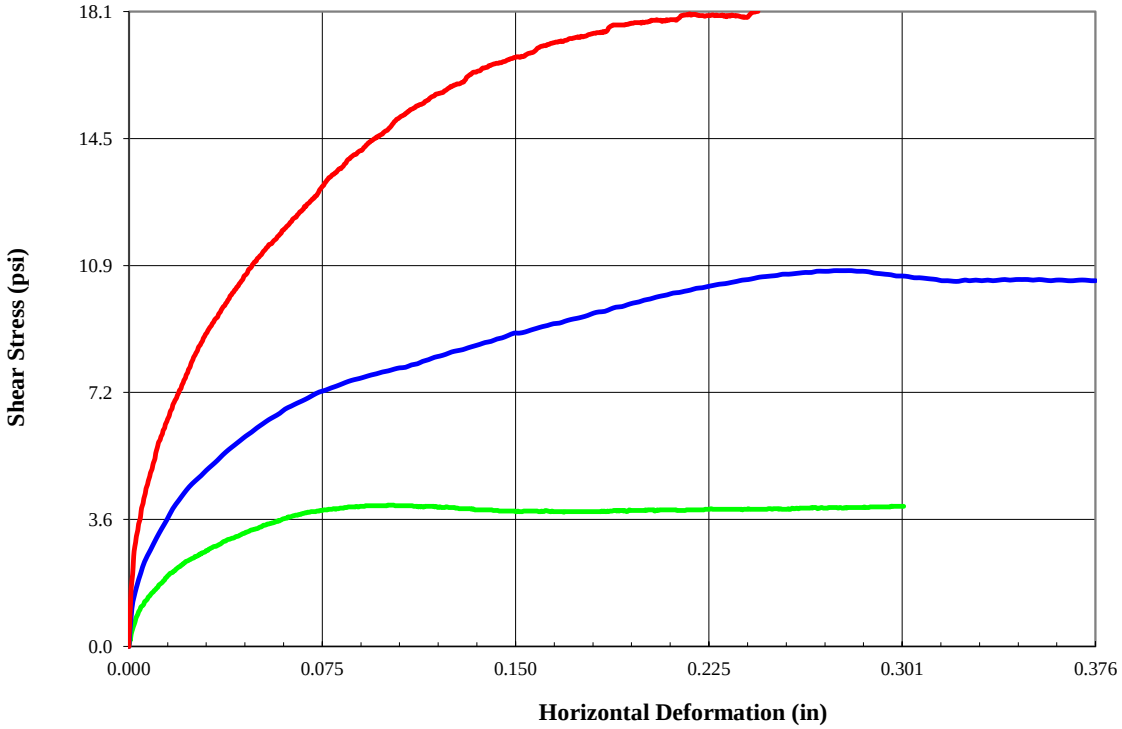
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-37 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

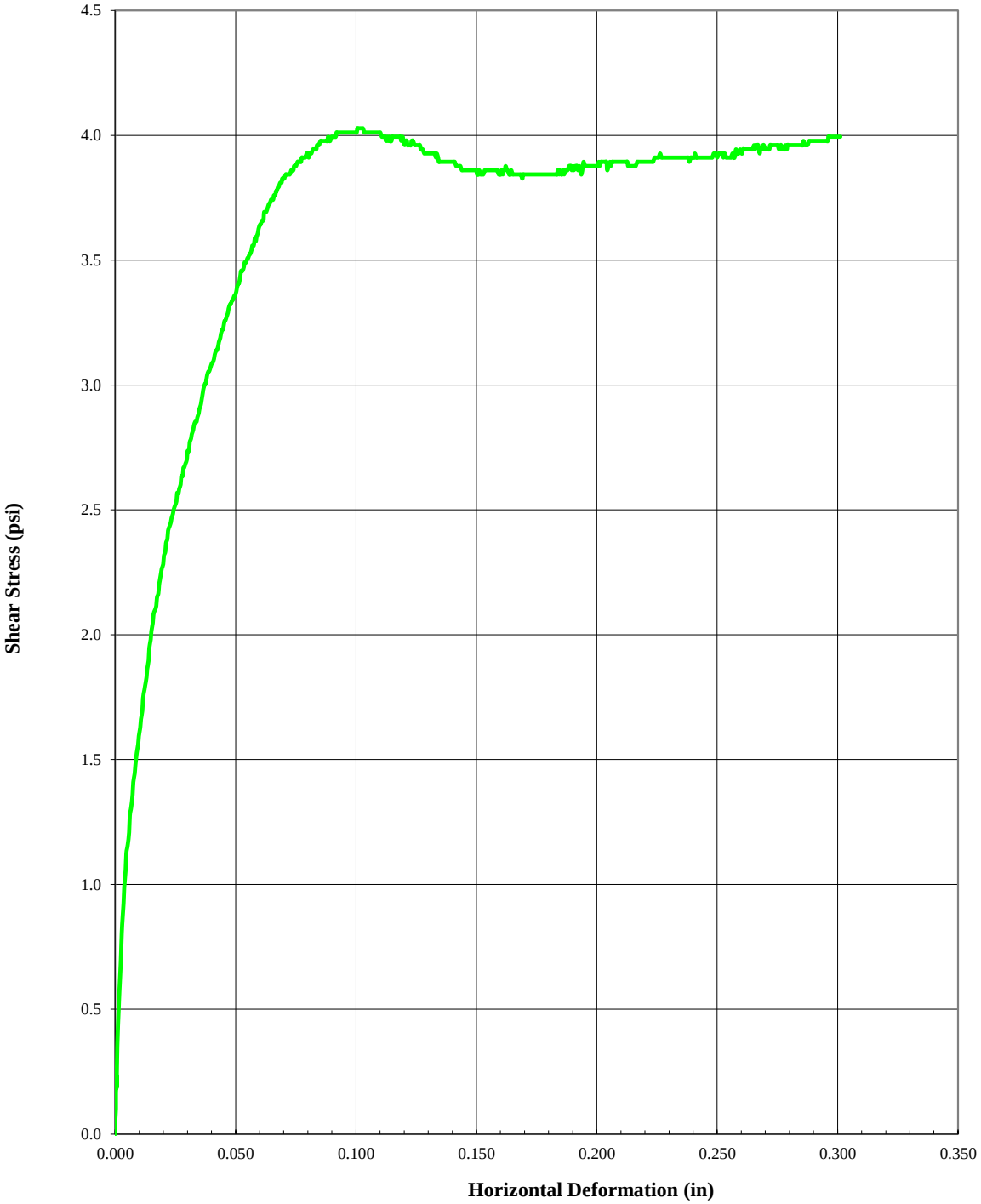
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-37 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

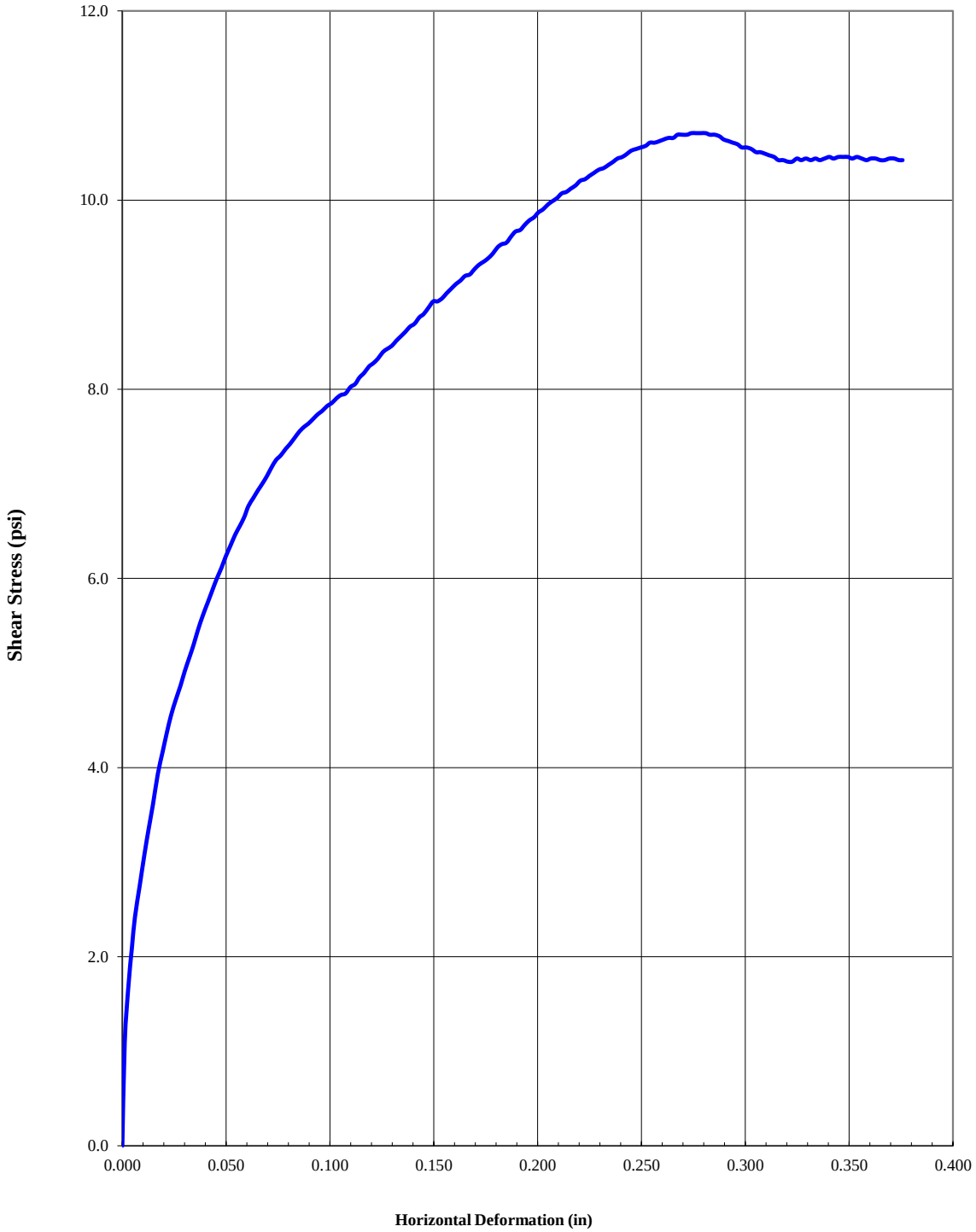
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-37 T-4.HSD

Thompson Engineering

Direct Shear Test

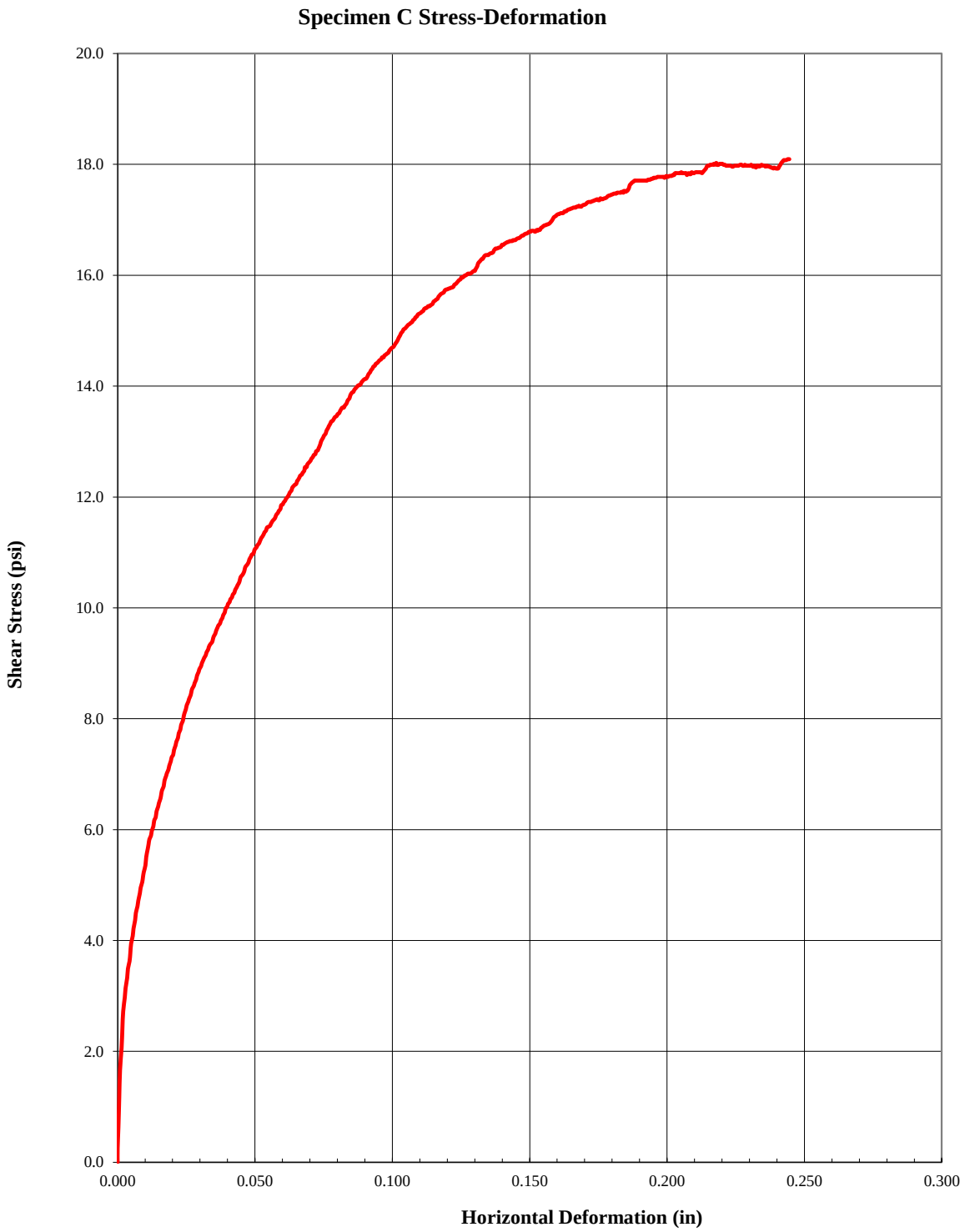
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Tested By



DS 16-1101-0176 BW-37 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

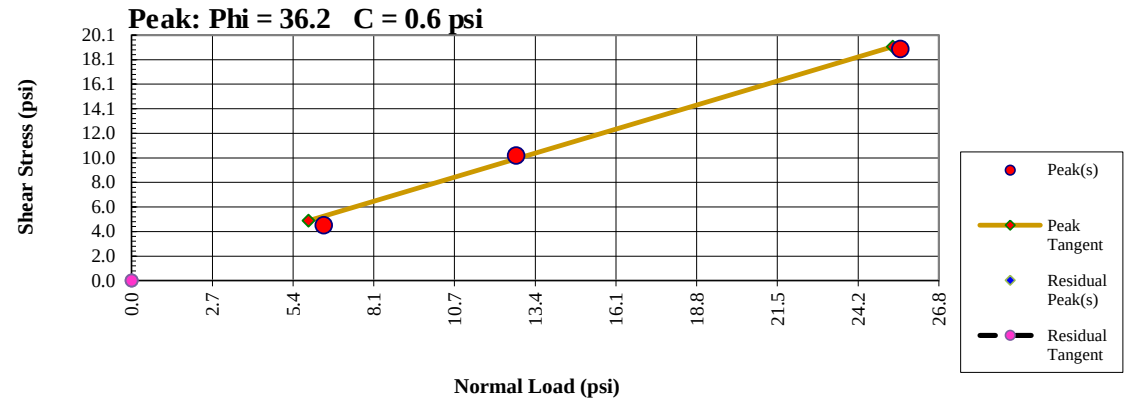
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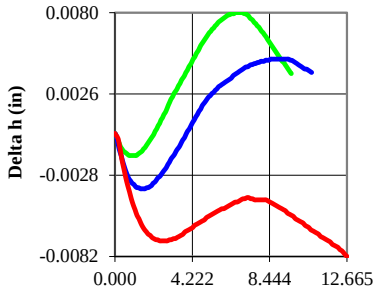
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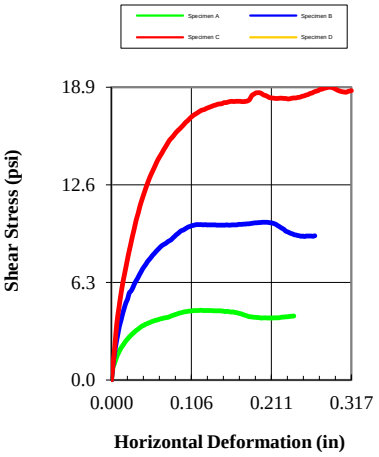
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	31.65	30.72	31.24	
Density (pcf)	86.90	88.54	89.36	
Void Ratio	0.868	0.833	0.816	
Saturation (%)	94.82	95.87	99.49	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	33.89	32.59	30.56	
Density (pcf)	94.97	91.44	92.49	
Void Ratio	0.709	0.775	0.755	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.981	0.976	0.961	
Normal Stress (psi)	6.4	12.8	25.6	
Peak Stress (psi)	4.5	10.2	18.9	
Residual Stress (psi)				
Strain (%)	4.750	8.216	12.665	
Rate (in/min)	0.00799	0.00893	0.01061	

Project Date	
Date	12/17/16

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7816
Boring Number	BW-46
Sample Number:	T-1
Depth:	18.5-20.5 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

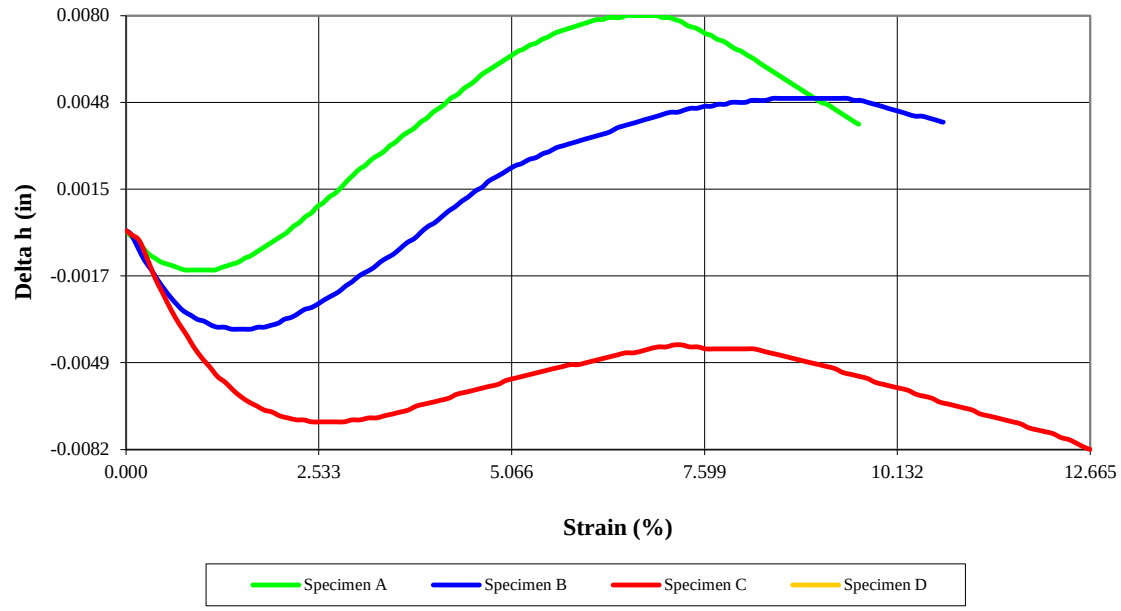
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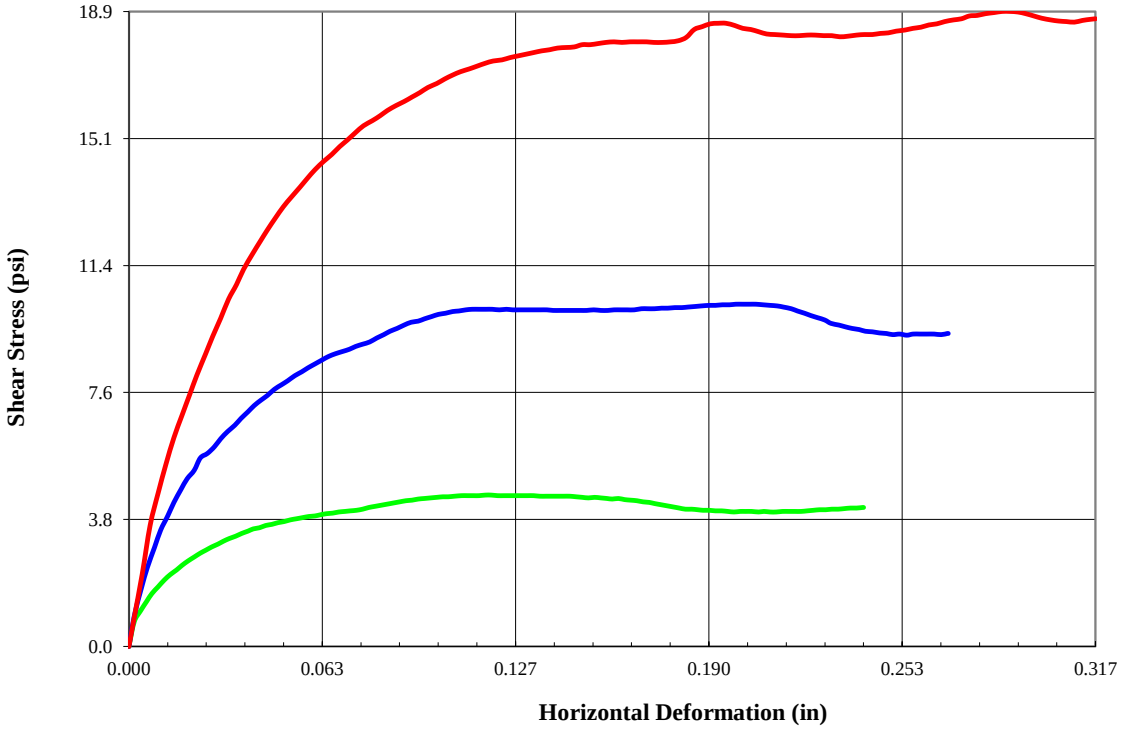
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-46 T-1.HSD

Thompson Engineering

Direct Shear Test

Date

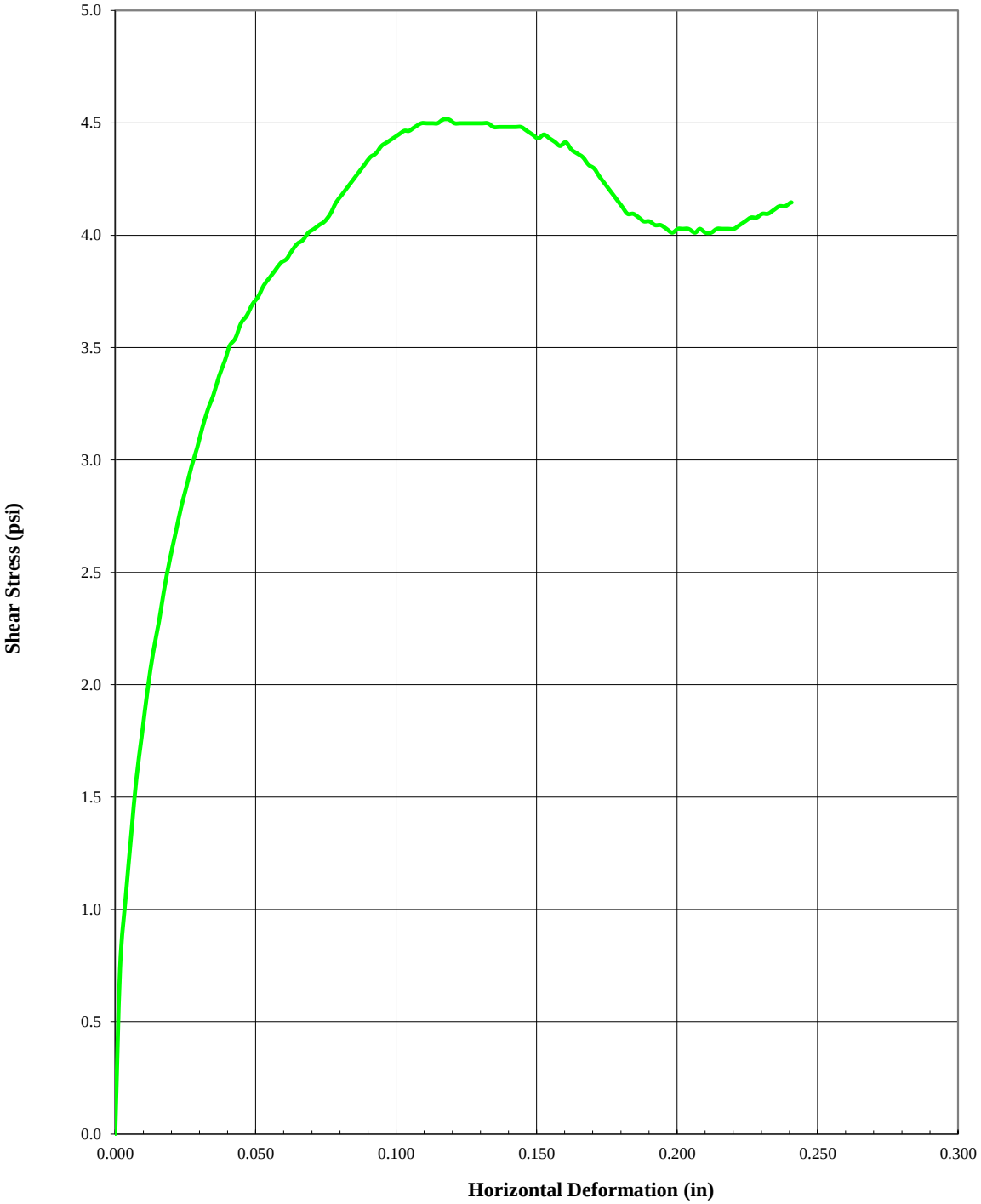
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-46 T-1.HSD

Thompson Engineering

Direct Shear Test

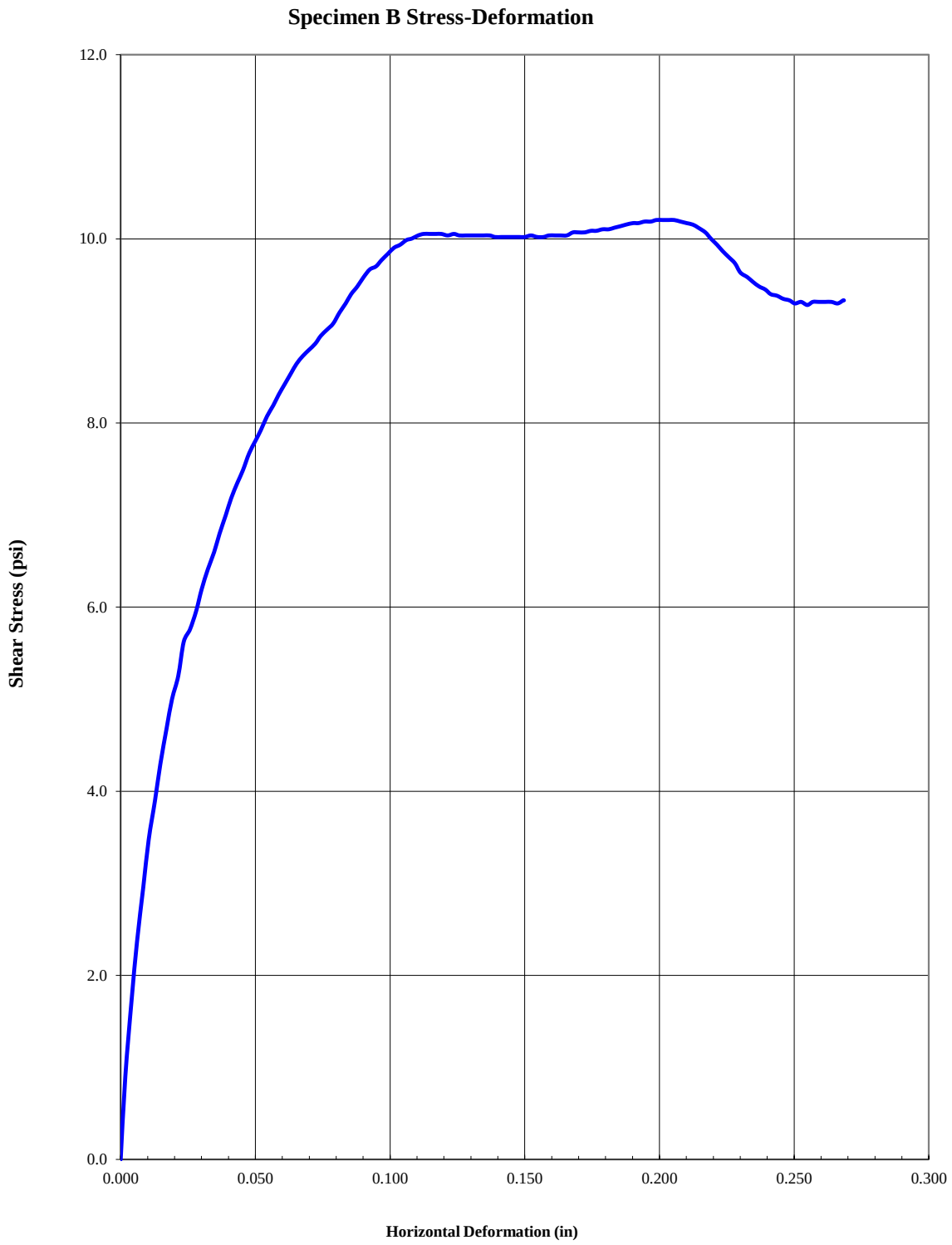
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Date

Date

Tested By



DS 16-1101-0176 BW-46 T-1.HSD

Thompson Engineering

Direct Shear Test

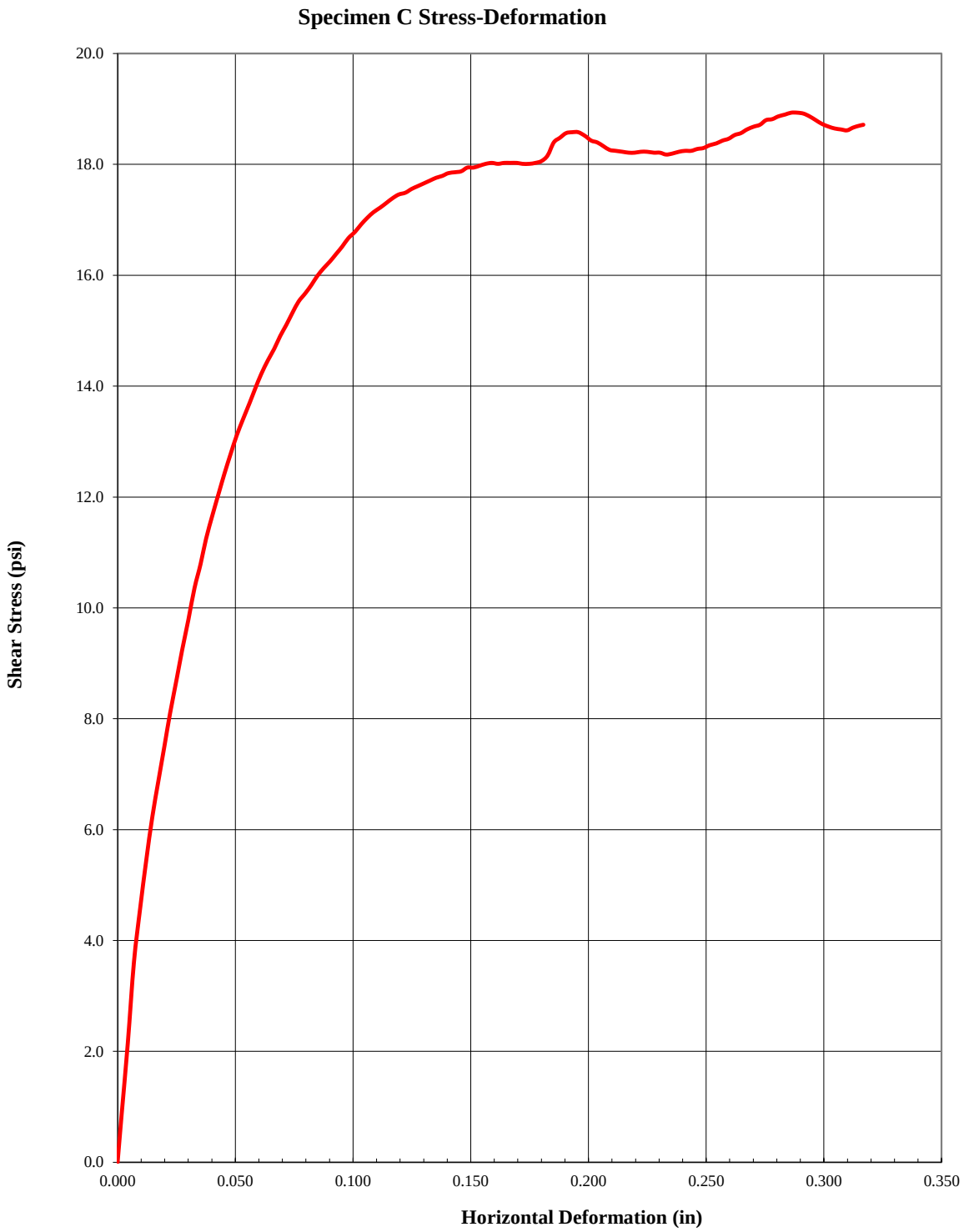
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Checked By

Date

Date

Tested By



DS 16-1101-0176 BW-46 T-1.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

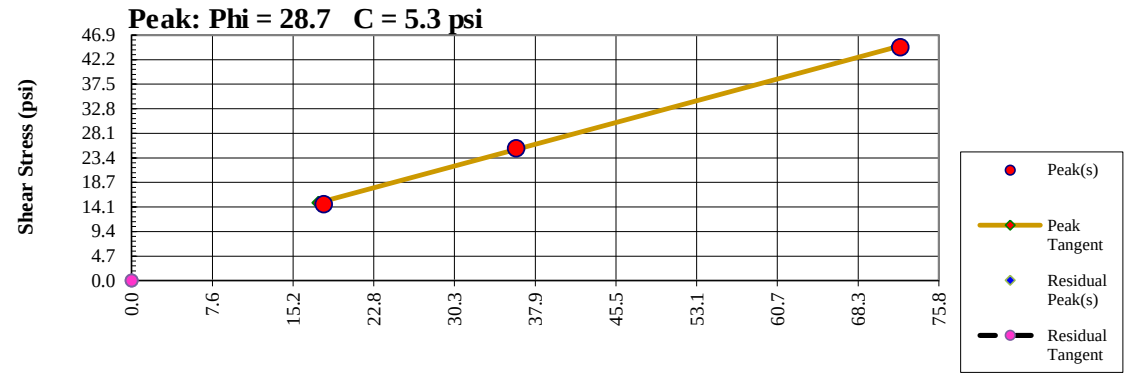
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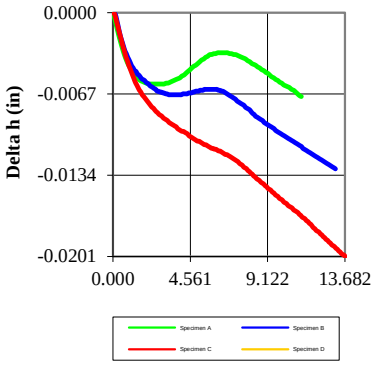
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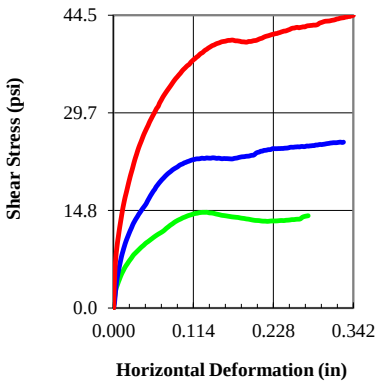
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	22.85	23.38	24.06	
Density (pcf)	101.54	100.32	97.76	
Void Ratio	0.599	0.618	0.660	
Saturation (%)	99.26	98.41	94.75	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	24.56	24.41	24.16	
Density (pcf)	101.86	101.46	99.15	
Void Ratio	0.593	0.600	0.637	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.945	0.955	0.928	
Normal Stress (psi)	18.1	36.1	72.2	
Peak Stress (psi)	14.6	25.2	44.5	
Residual Stress (psi)				
Strain (%)	11.105	12.954	13.682	
Rate (in/min)	0.0118	0.00845	0.00839	

Project Date	
Date	12/20/16

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7816
Boring Number	BW-46
Sample Number:	T-4
Depth:	53.5-55.5 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

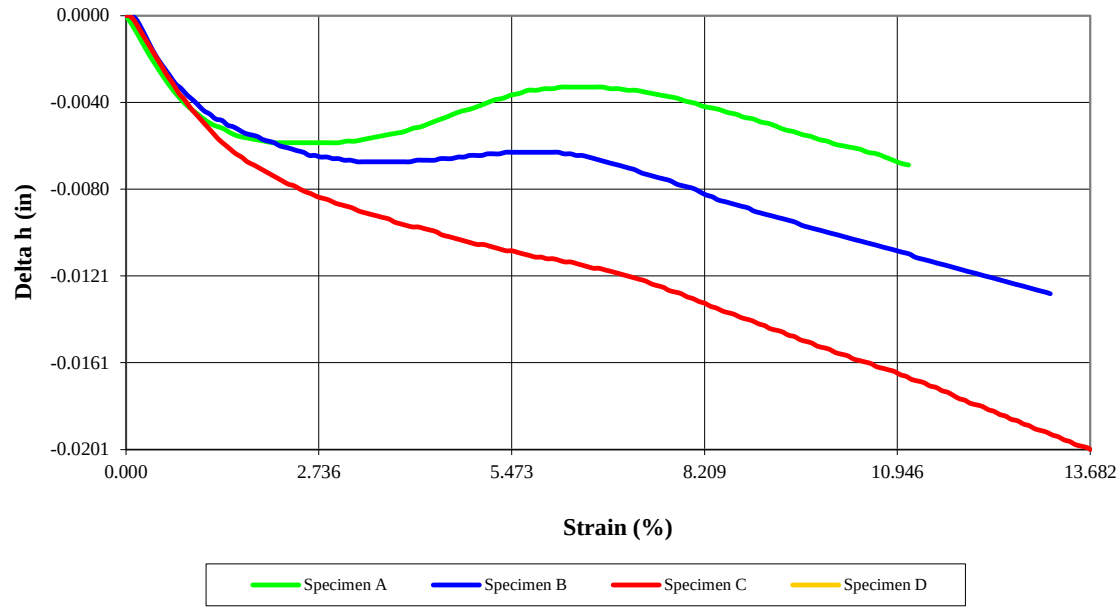
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Date

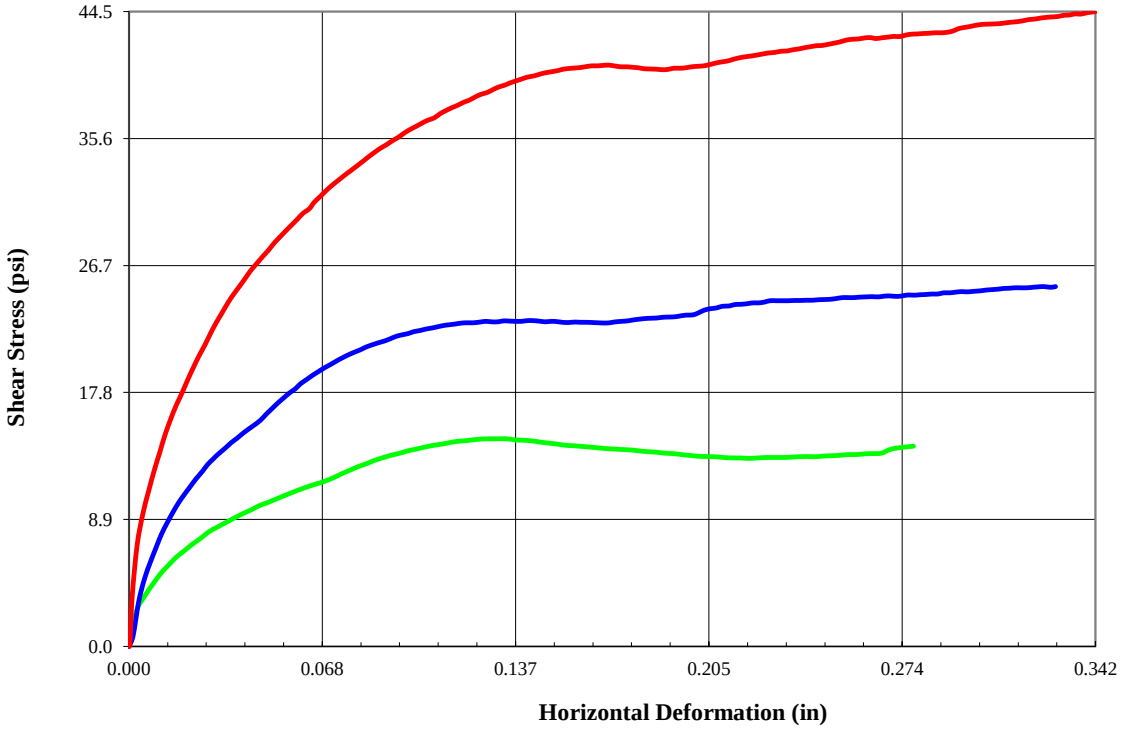
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-46 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

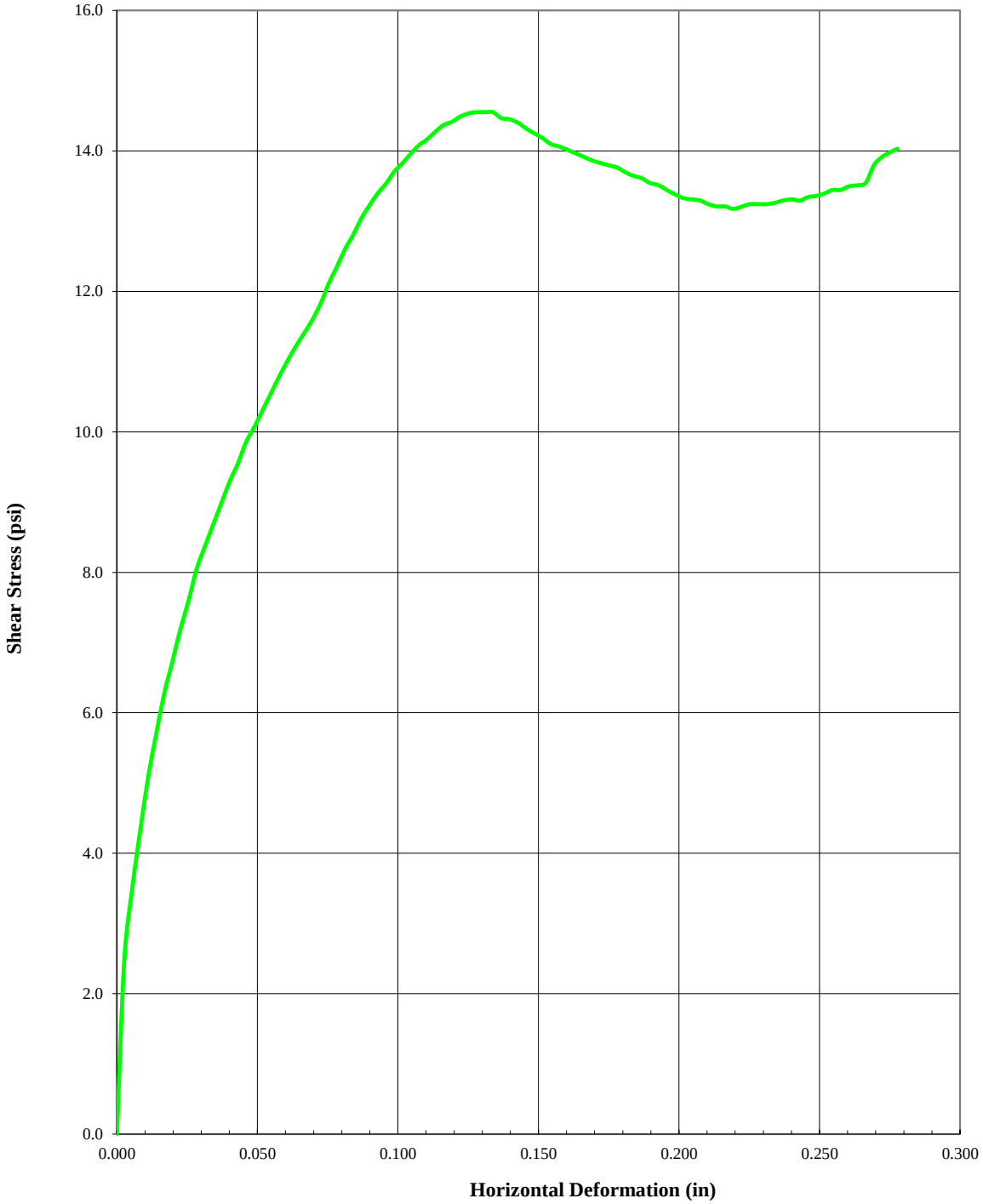
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-46 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

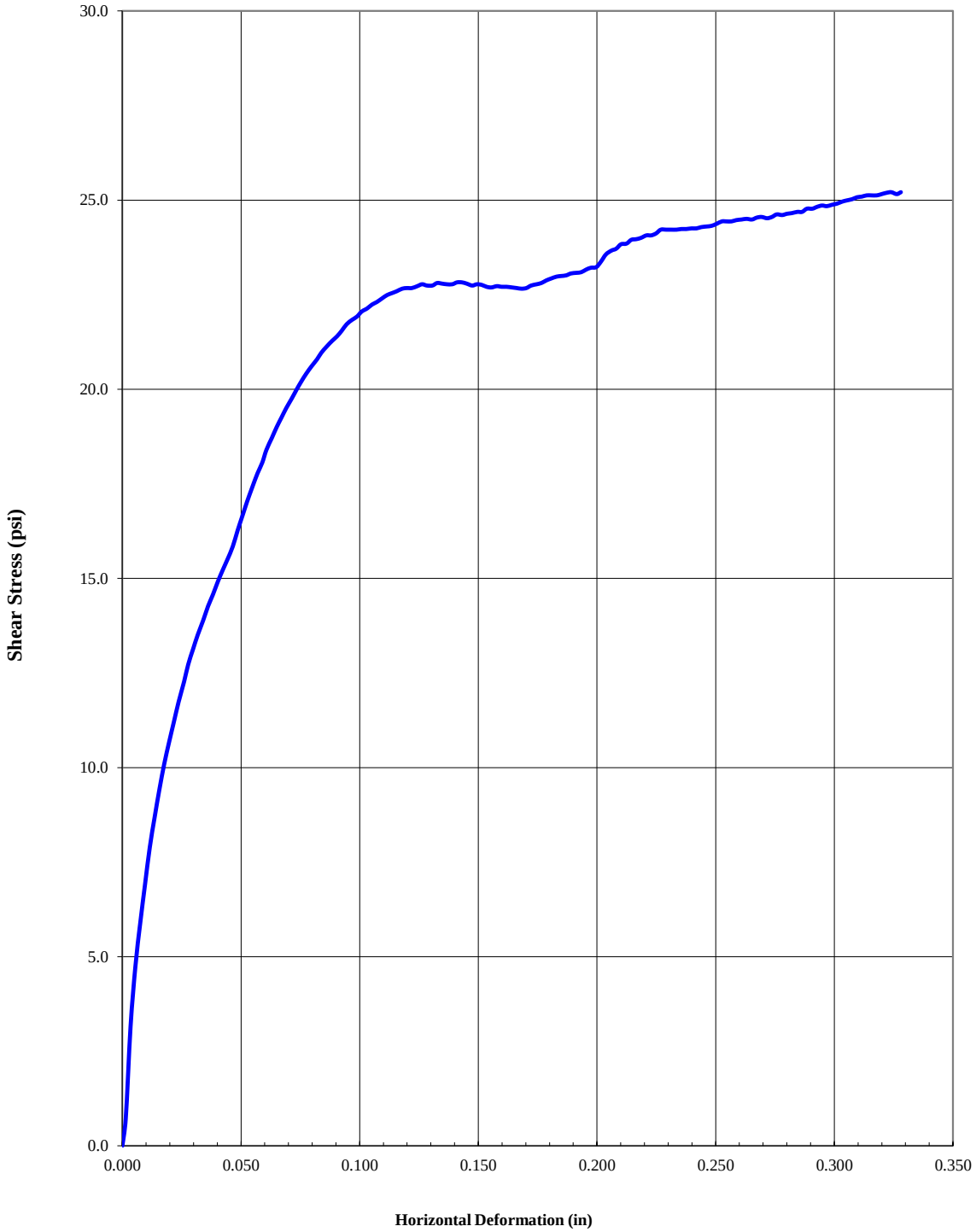
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-46 T-4.HSD

Thompson Engineering

Direct Shear Test

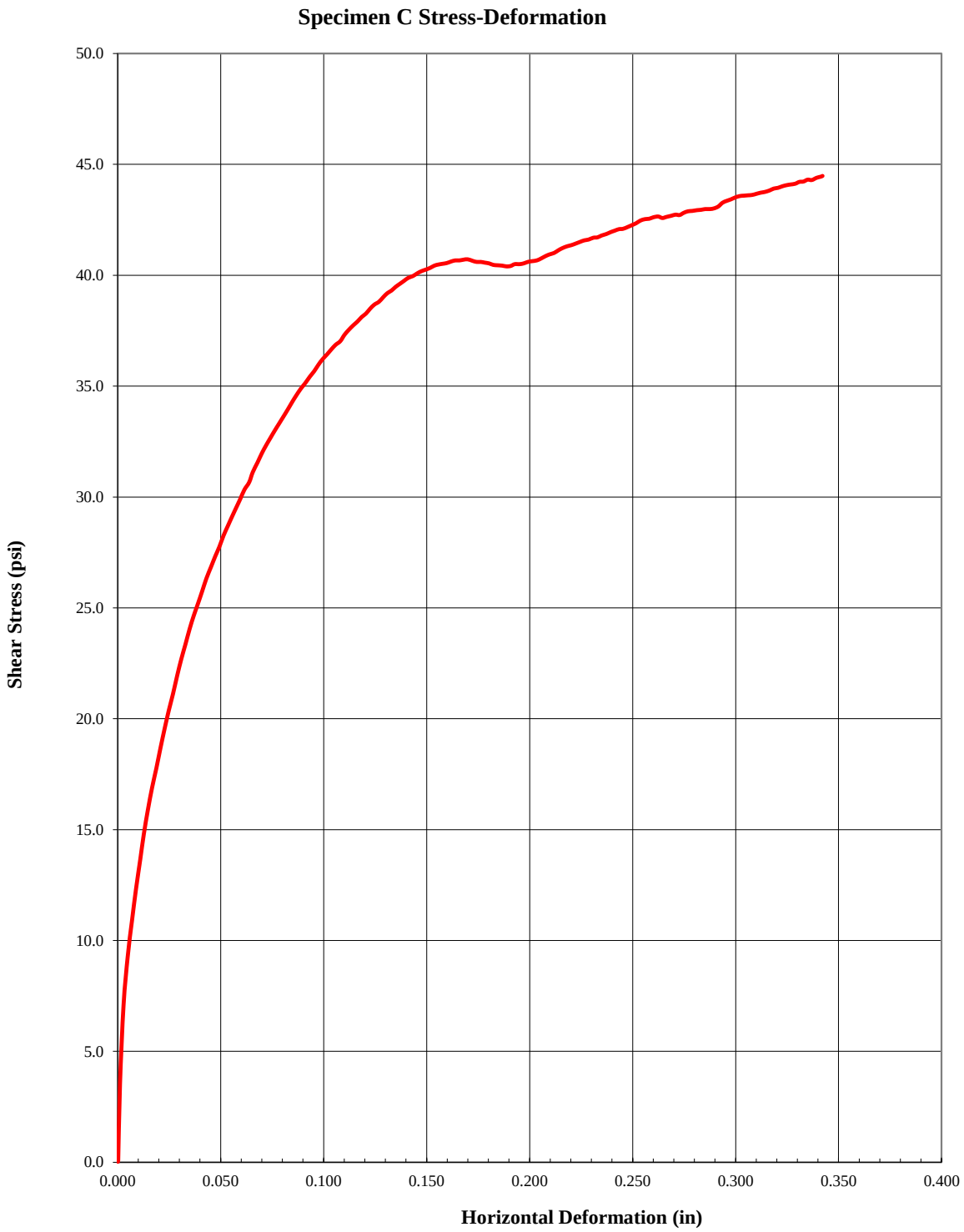
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Date

Date

Tested By



DS 16-1101-0176 BW-46 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

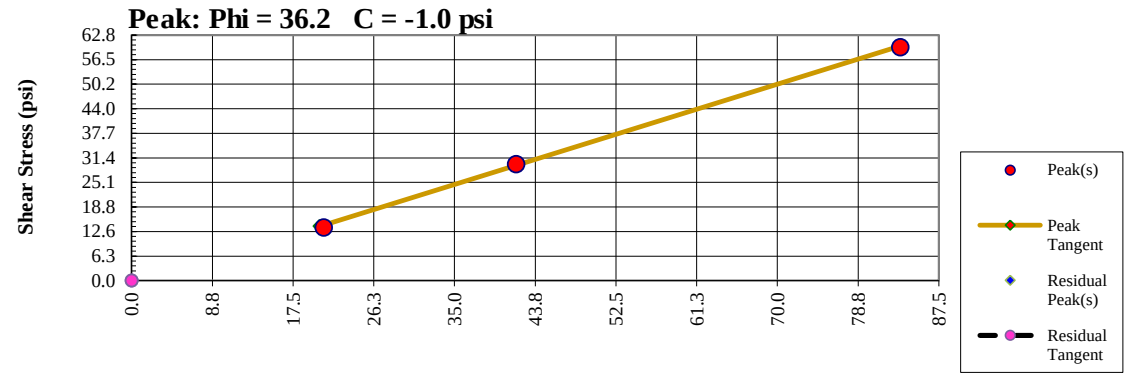
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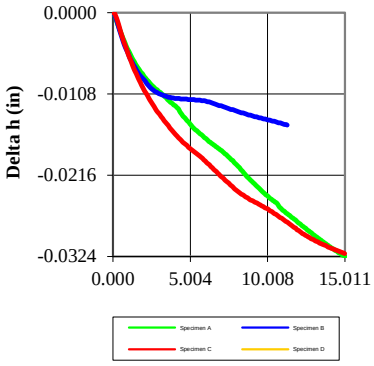
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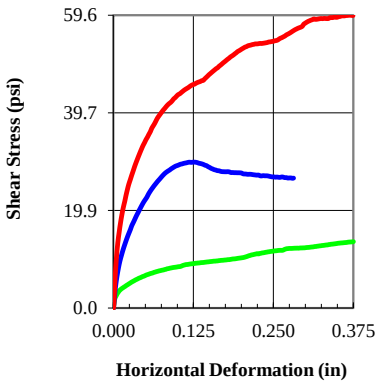
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	28.48	28.80	25.24	
Density (pcf)	91.63	94.47	100.85	
Void Ratio	0.771	0.718	0.610	
Saturation (%)	96.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	26.76	26.62	23.15	
Density (pcf)	94.34	97.00	103.07	
Void Ratio	0.721	0.673	0.575	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.922	0.932	0.917	
Normal Stress (psi)	20.8	41.7	83.3	
Peak Stress (psi)	13.5	29.7	59.6	
Residual Stress (psi)				
Strain (%)	15.011	11.267	14.826	
Rate (in/min)	0.00736	0.00962	0.0092	

Project Date	
Date	12/21/16

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7816
Boring Number	BW-47
Sample Number:	T-5
Depth:	63.5-65.5 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

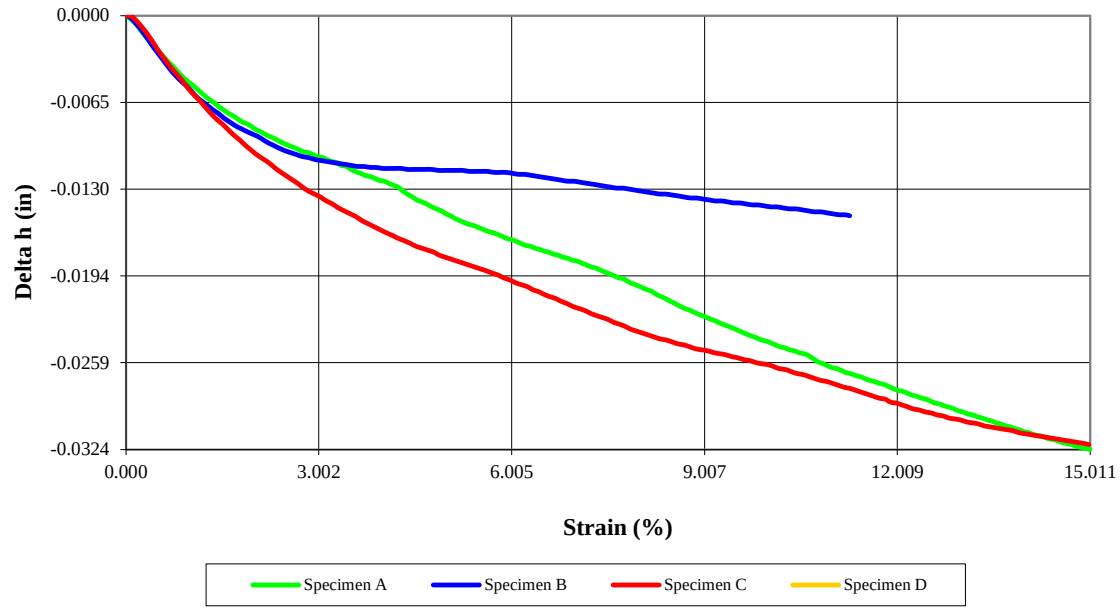
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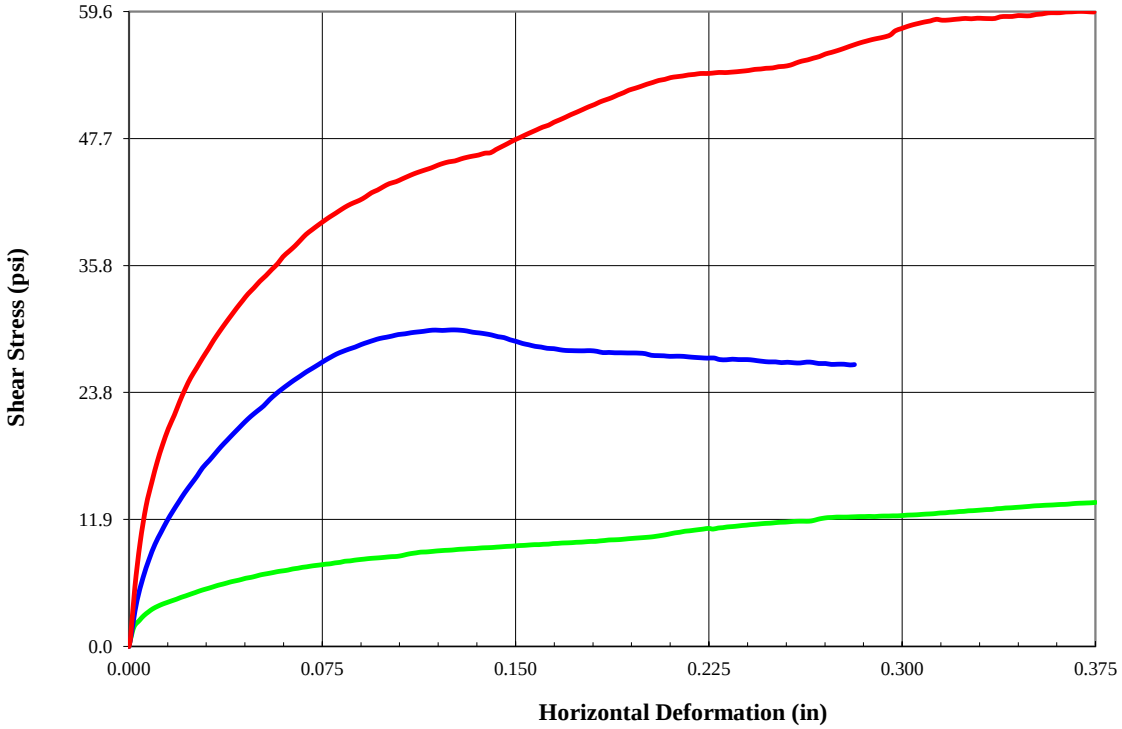
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-47 T-5.HSD

Thompson Engineering

Direct Shear Test

Date

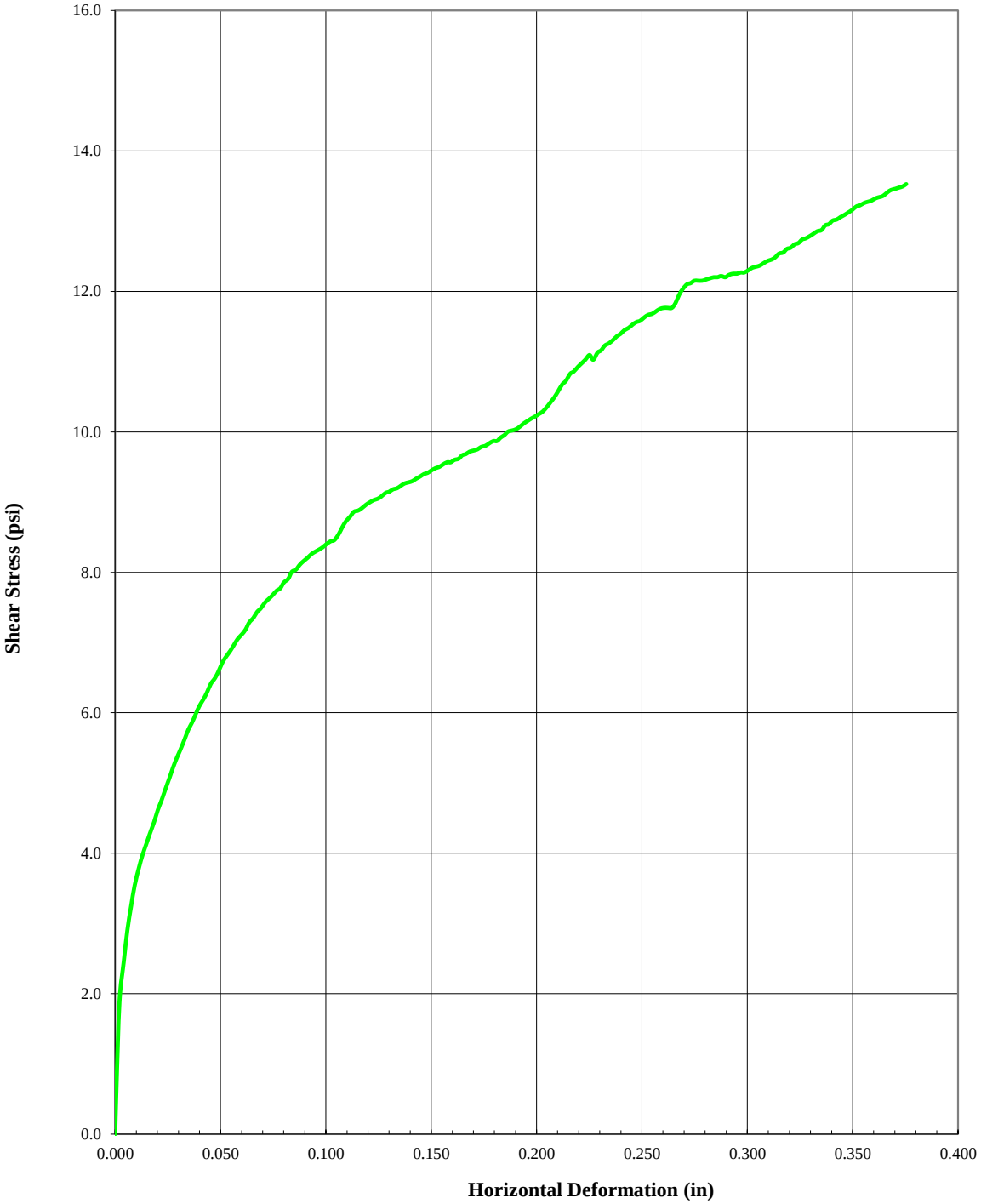
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Date

Date

Tested By

Specimen A Stress-Deformation



Thompson Engineering

Direct Shear Test

Date

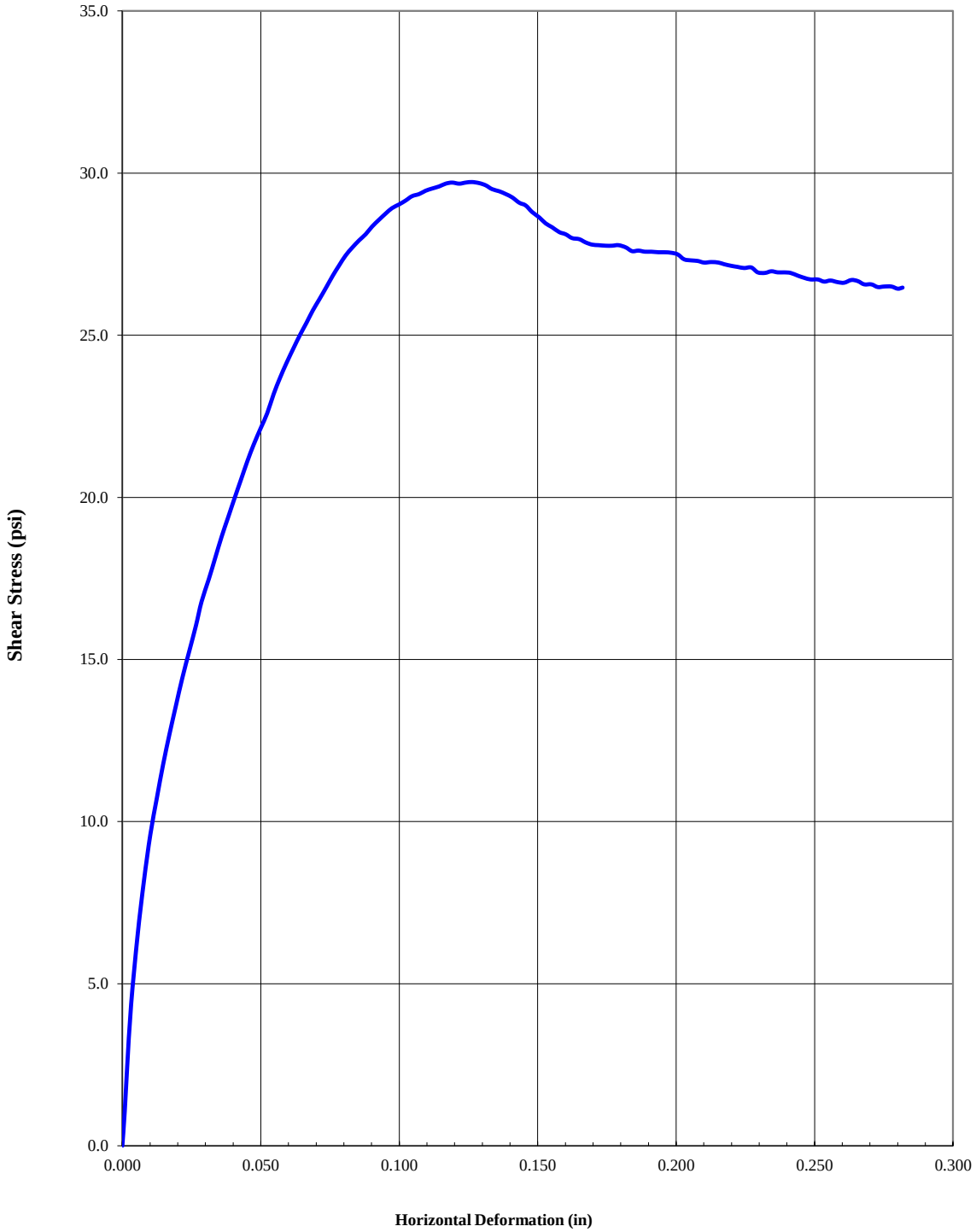
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-47 T-5.HSD

Thompson Engineering

Direct Shear Test

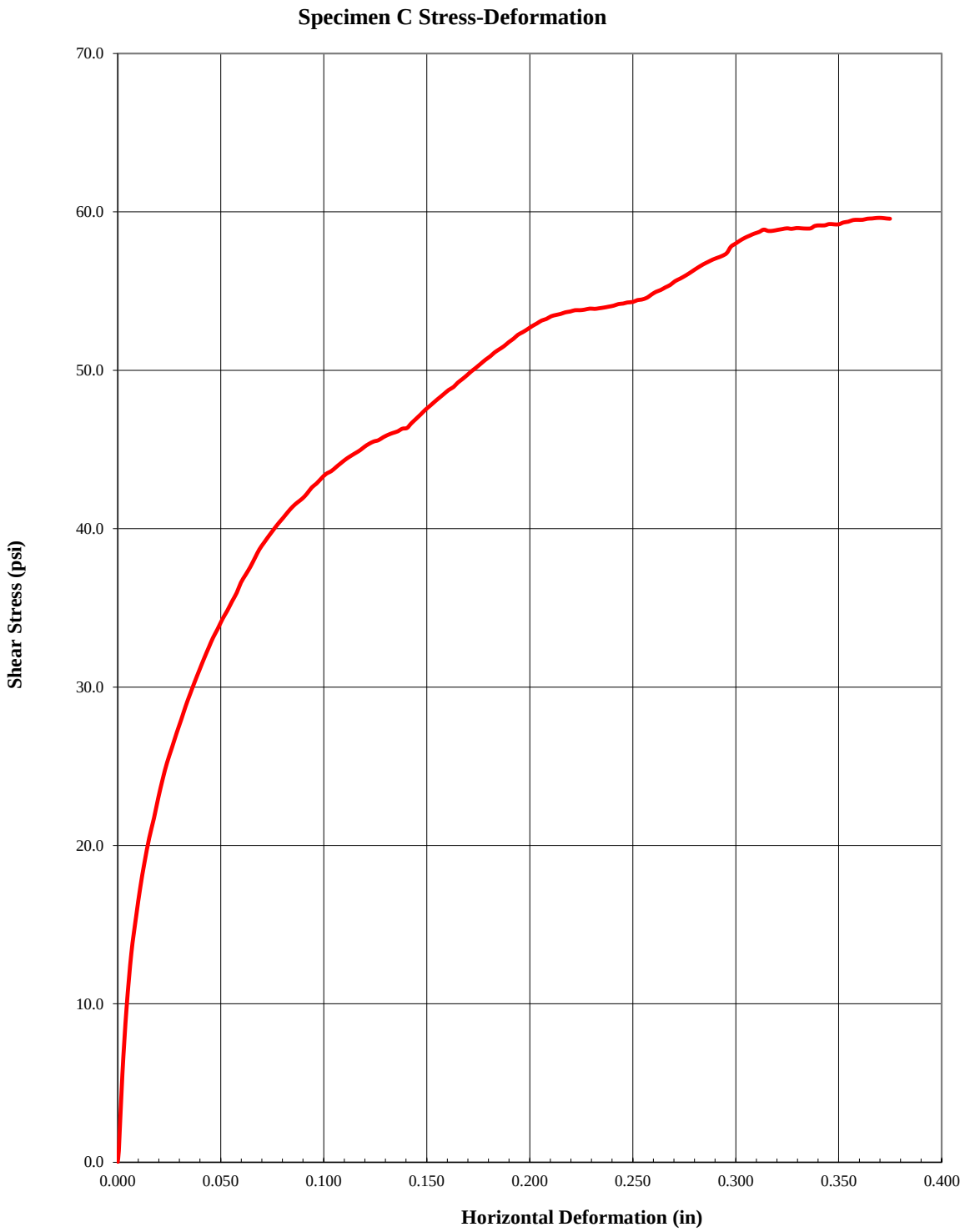
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Date

Date

Tested By



DS 16-1101-0176 BW-47 T-5.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

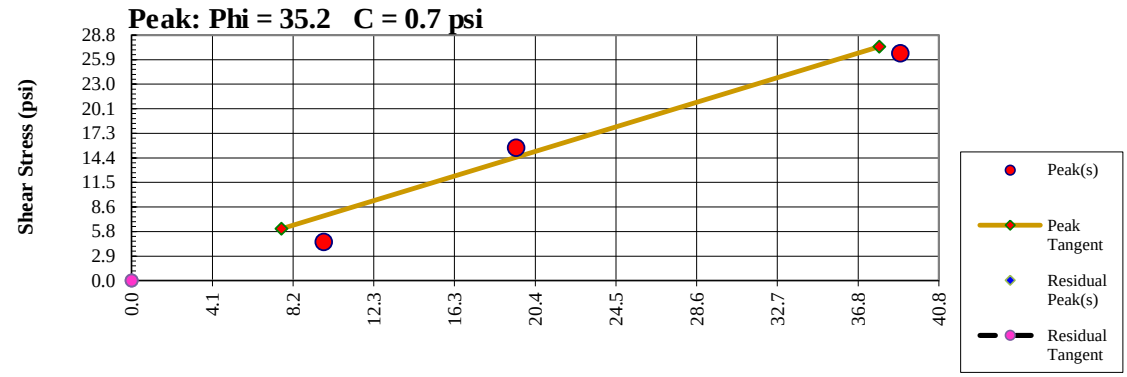
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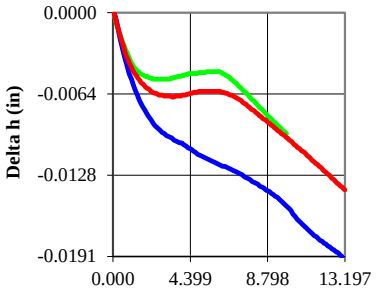
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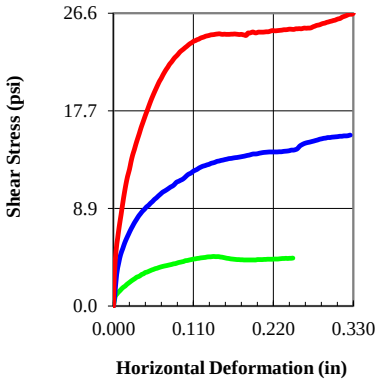
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Date

Tested By





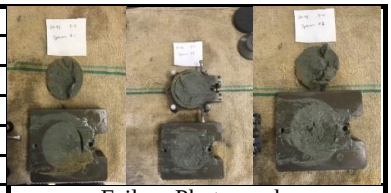


Initial	Specimen A	B	C	D
Moisture (%)	30.21	32.10	28.24	
Density (pcf)	91.79	90.33	92.88	
Void Ratio	0.768	0.797	0.748	
Saturation (%)	100.00	100.00	98.23	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	28.51	28.52	27.37	
Density (pcf)	99.85	94.16	95.30	
Void Ratio	0.626	0.724	0.703	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.964	0.930	0.944	
Normal Stress (psi)	9.7	19.4	38.9	
Peak Stress (psi)	4.5	15.5	26.6	
Residual Stress (psi)				
Strain (%)	9.869	13.024	13.197	
Rate (in/min)	0.00926	0.01113	0.00942	

Project Date	
Date	12/29/16

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7817
Boring Number	BW-48
Sample Number:	T-4
Depth:	58.5-60.5
Sample Type:	Undisturbed
Description:	SANDY SILT(ML A-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

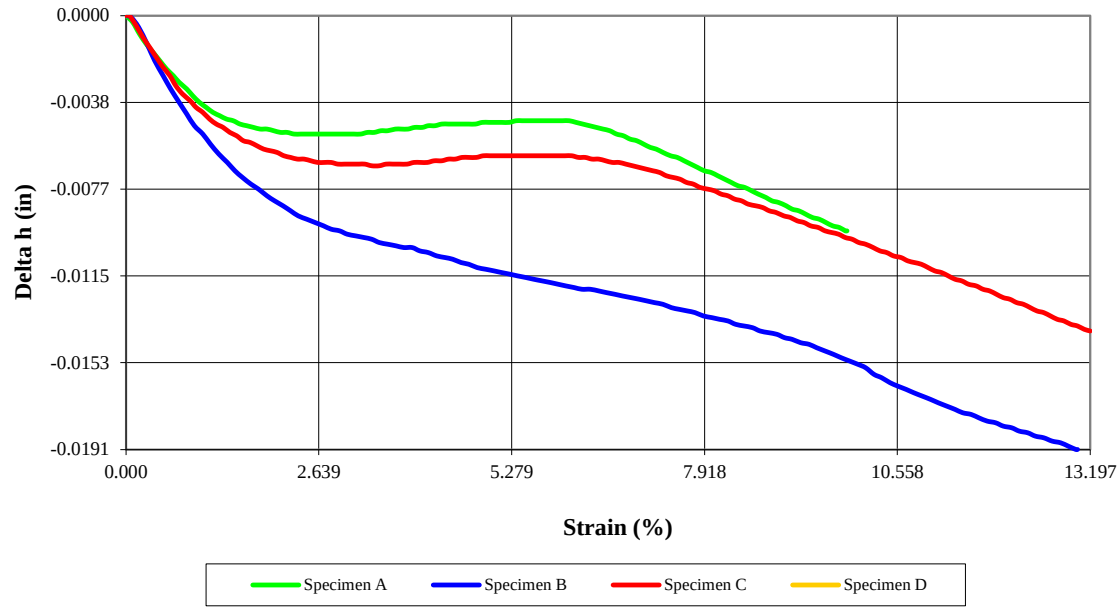
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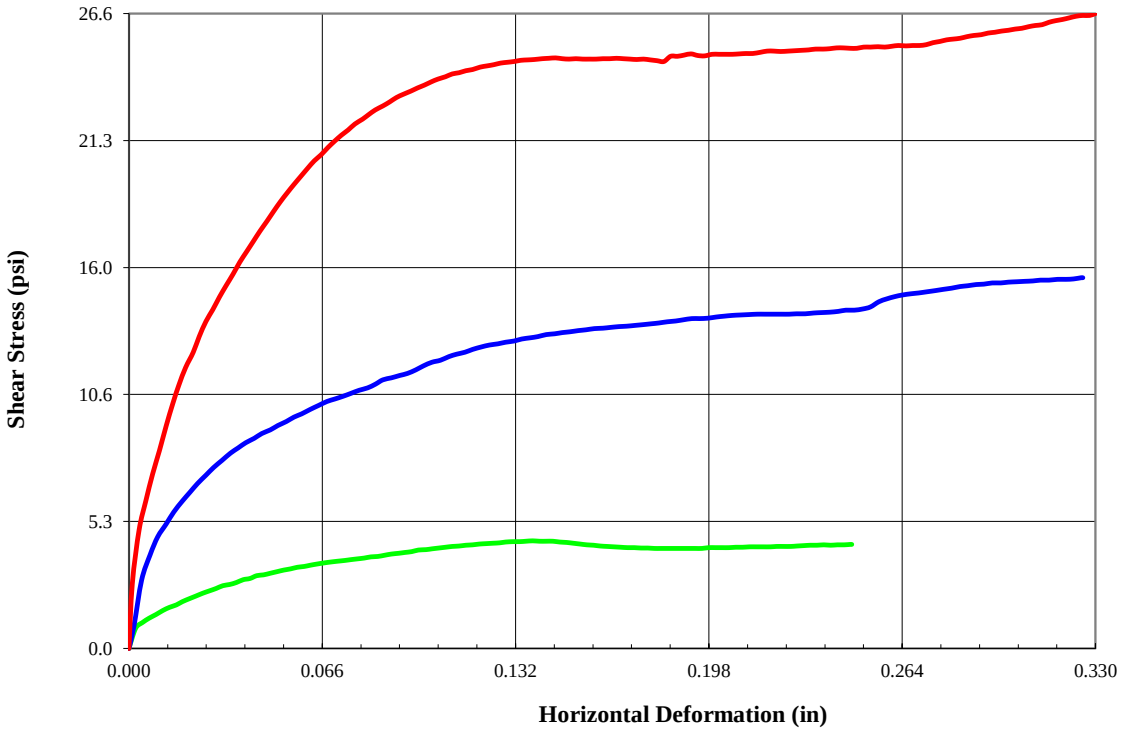
Date

Tested By

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Stress-Deformation



Thompson Engineering

Direct Shear Test

Date

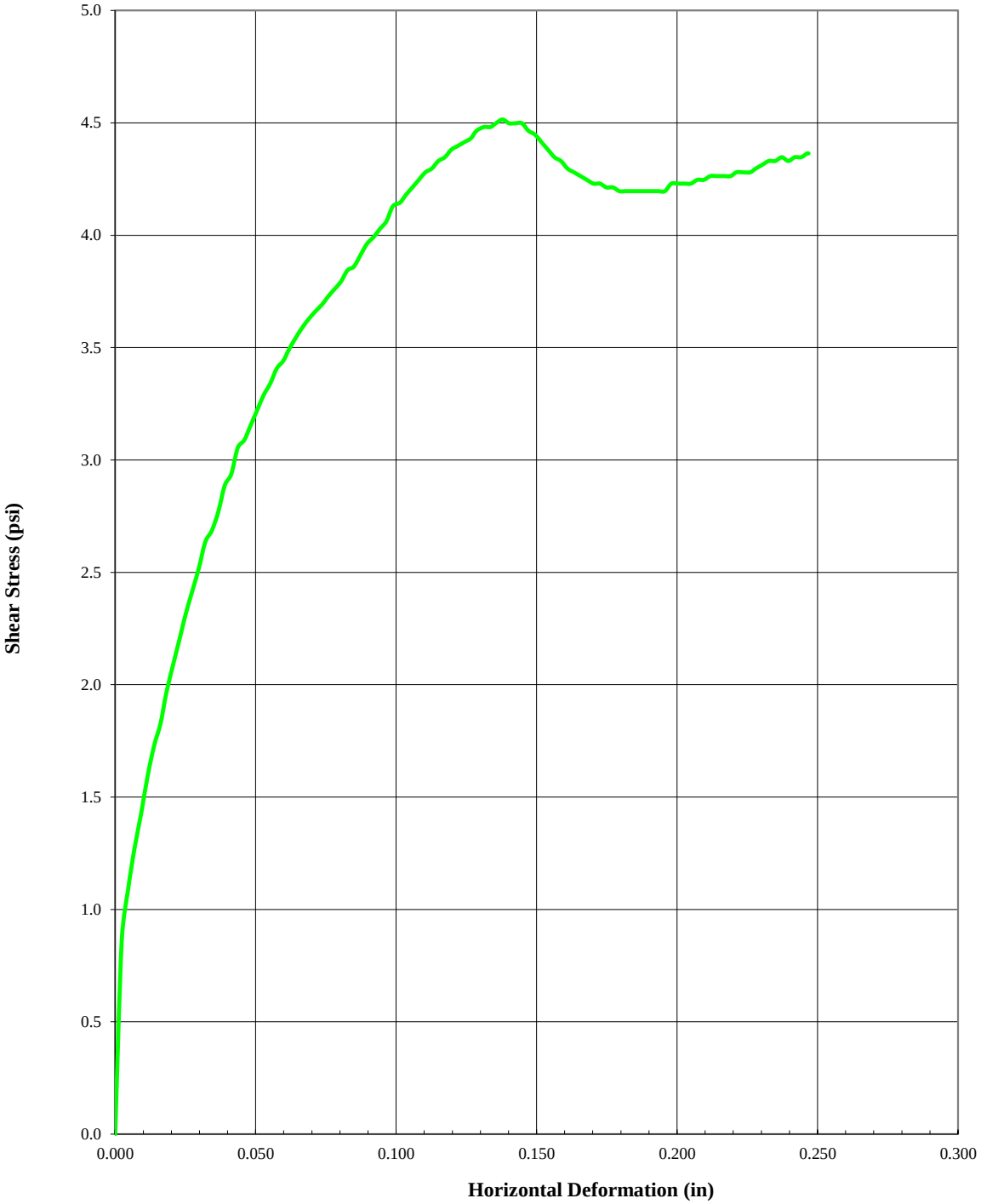
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-48 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

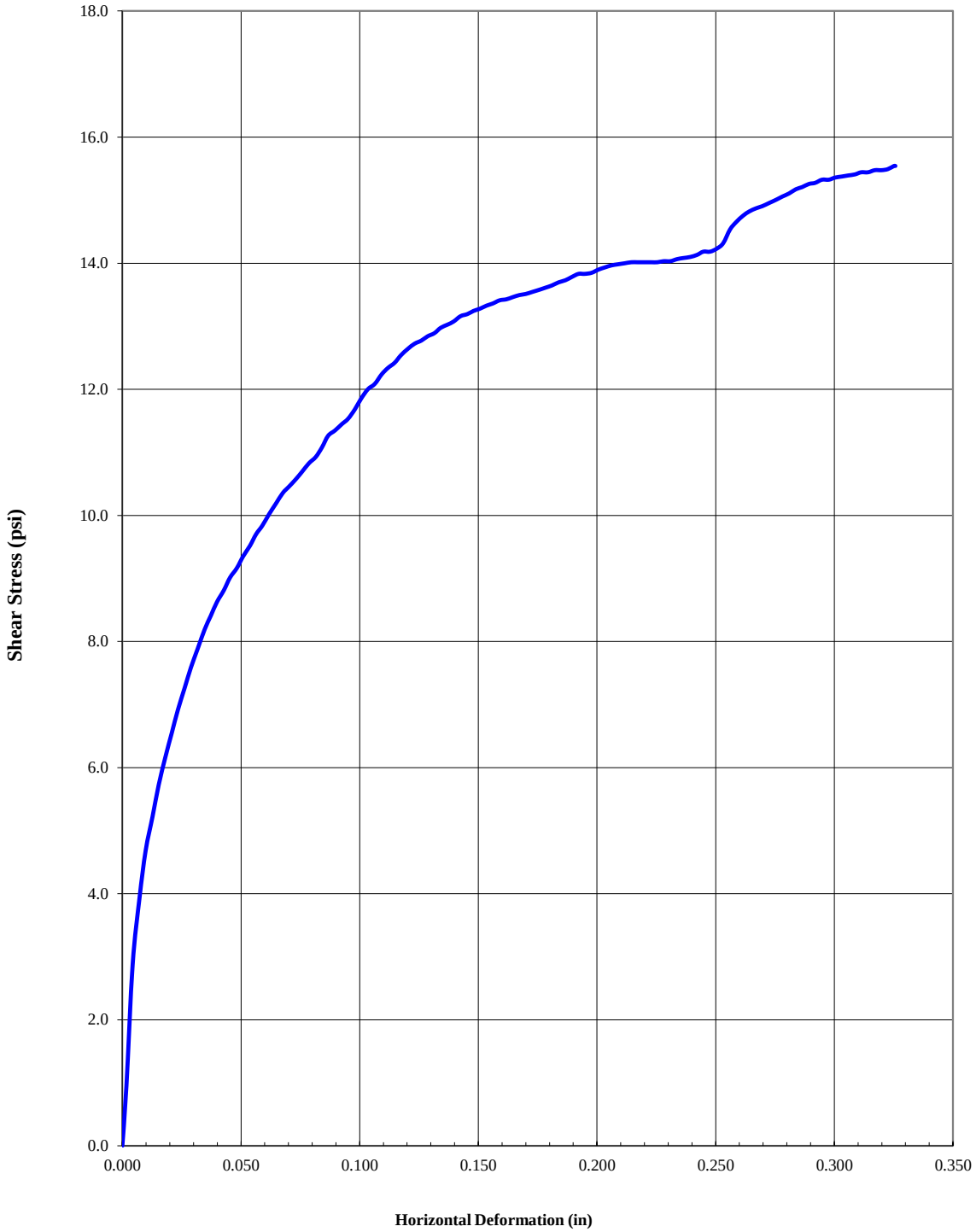
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-48 T-4.HSD

Thompson Engineering

Direct Shear Test

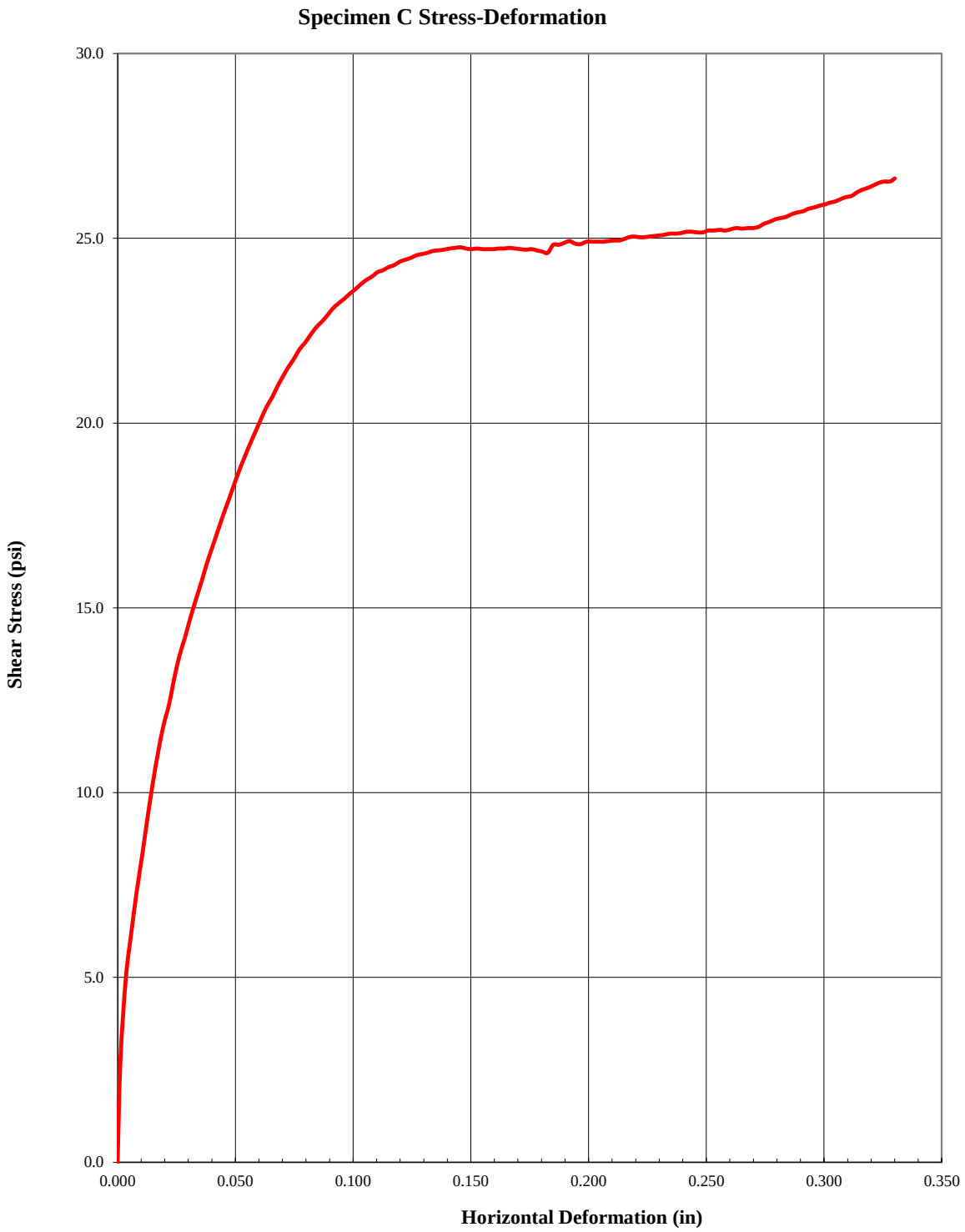
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Date

Tested By



DS 16-1101-0176 BW-48 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

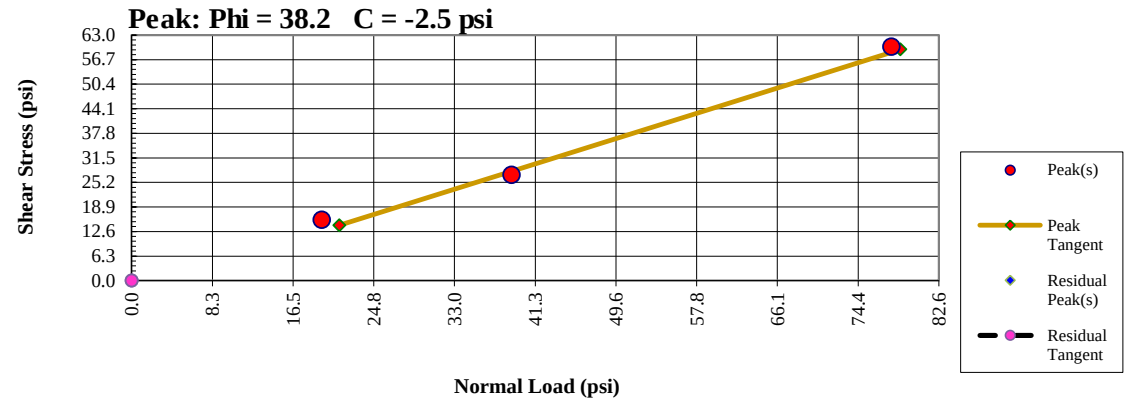
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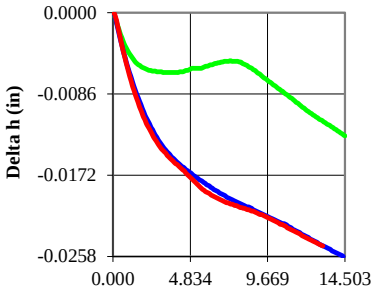
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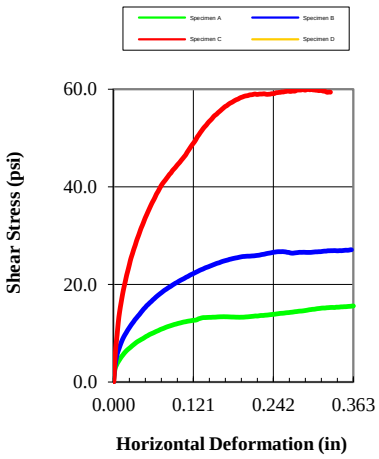
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	25.91	27.11	27.71	
Density (pcf)	99.12	96.33	96.62	
Void Ratio	0.638	0.685	0.680	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	23.91	21.93	21.17	
Density (pcf)	111.25	99.86	100.48	
Void Ratio	0.459	0.625	0.615	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.938	0.902	0.871	
Normal Stress (psi)	19.4	38.9	77.8	
Peak Stress (psi)	15.6	27.1	60.0	
Residual Stress (psi)				
Strain (%)	14.503	14.387	13.116	
Rate (in/min)	0.00962	0.00917	0.00888	

Project Date	
Date	1/3/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7817
Boring Number	BW-49
Sample Number:	T-4
Depth:	58.5-60.5 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

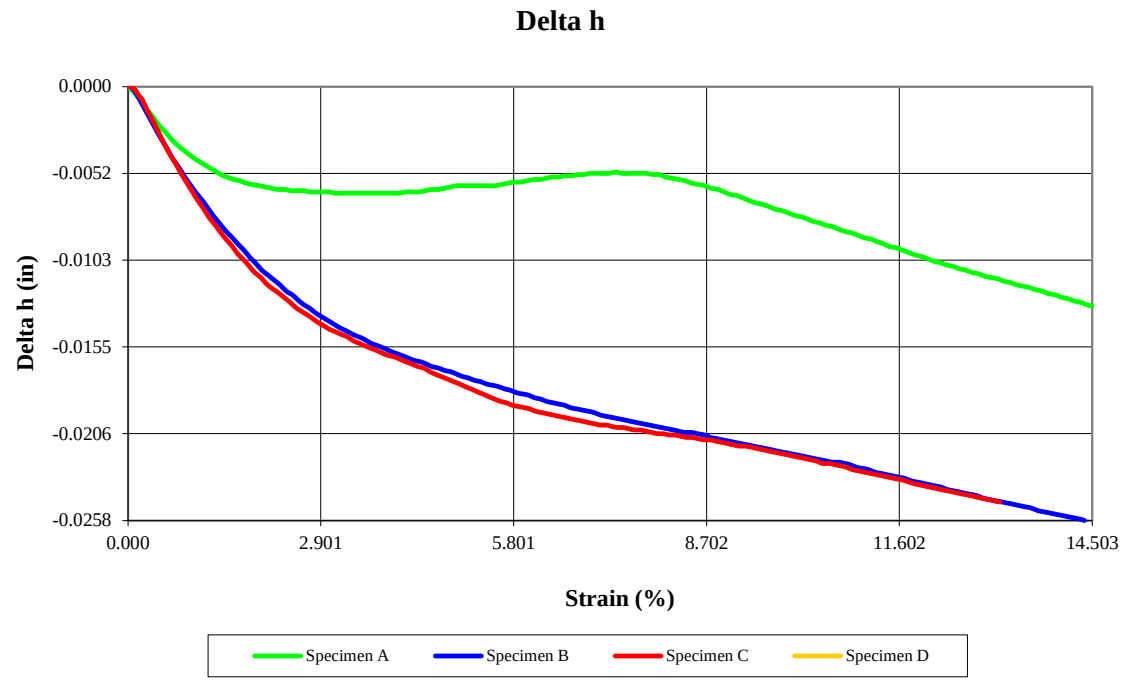
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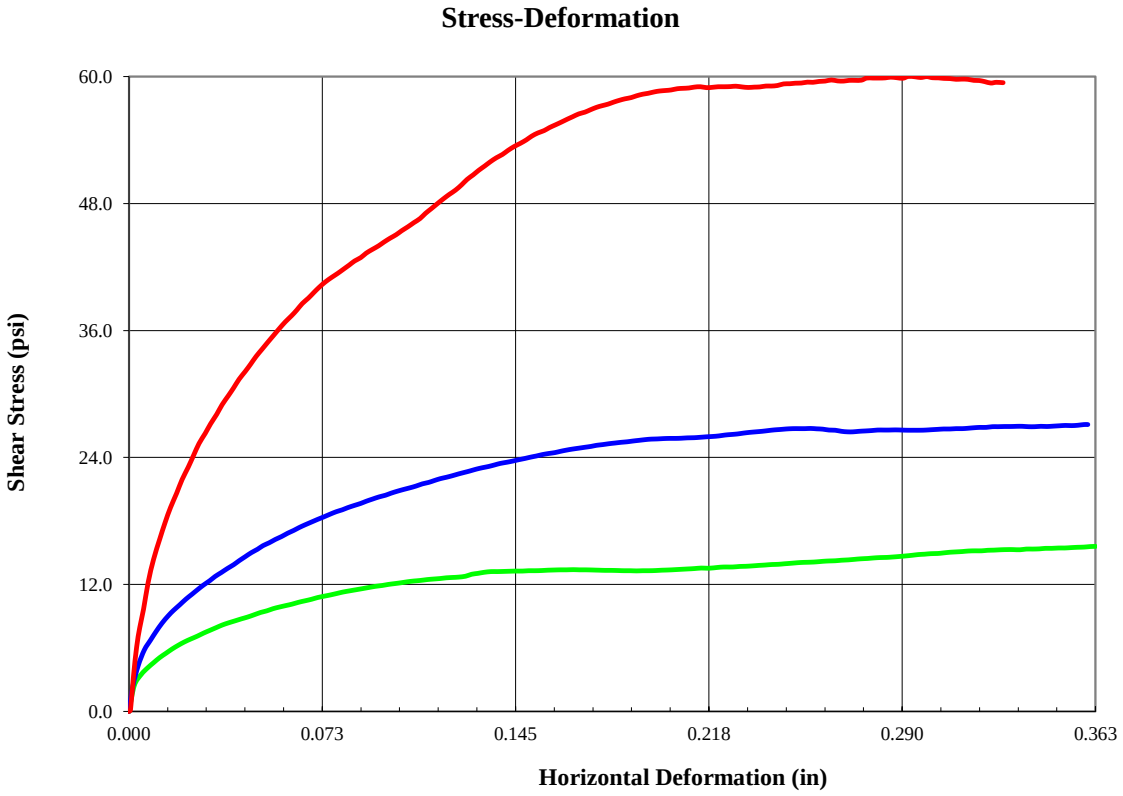
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Tested By





DS 16-1101-0176 BW-49 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

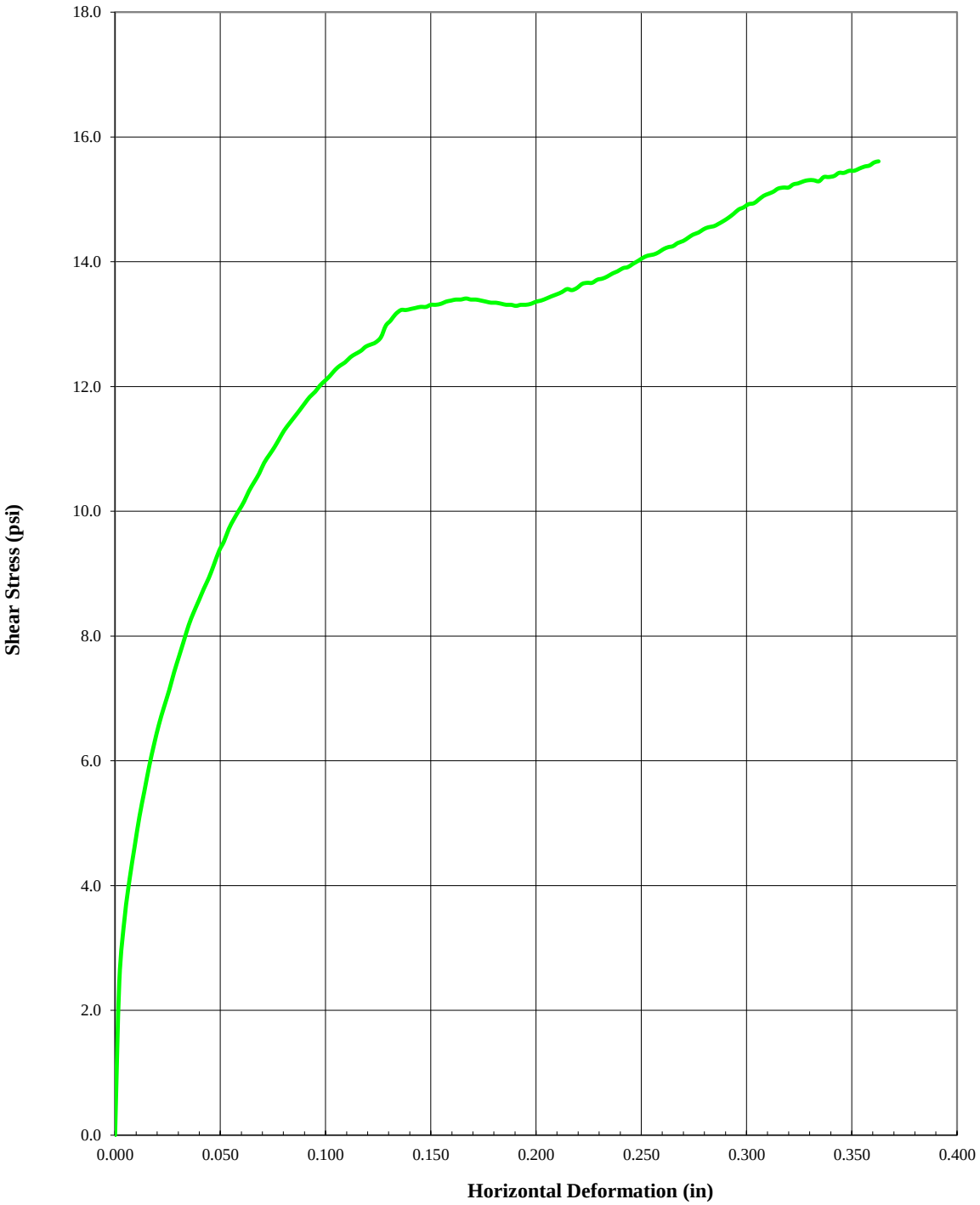
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-49 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

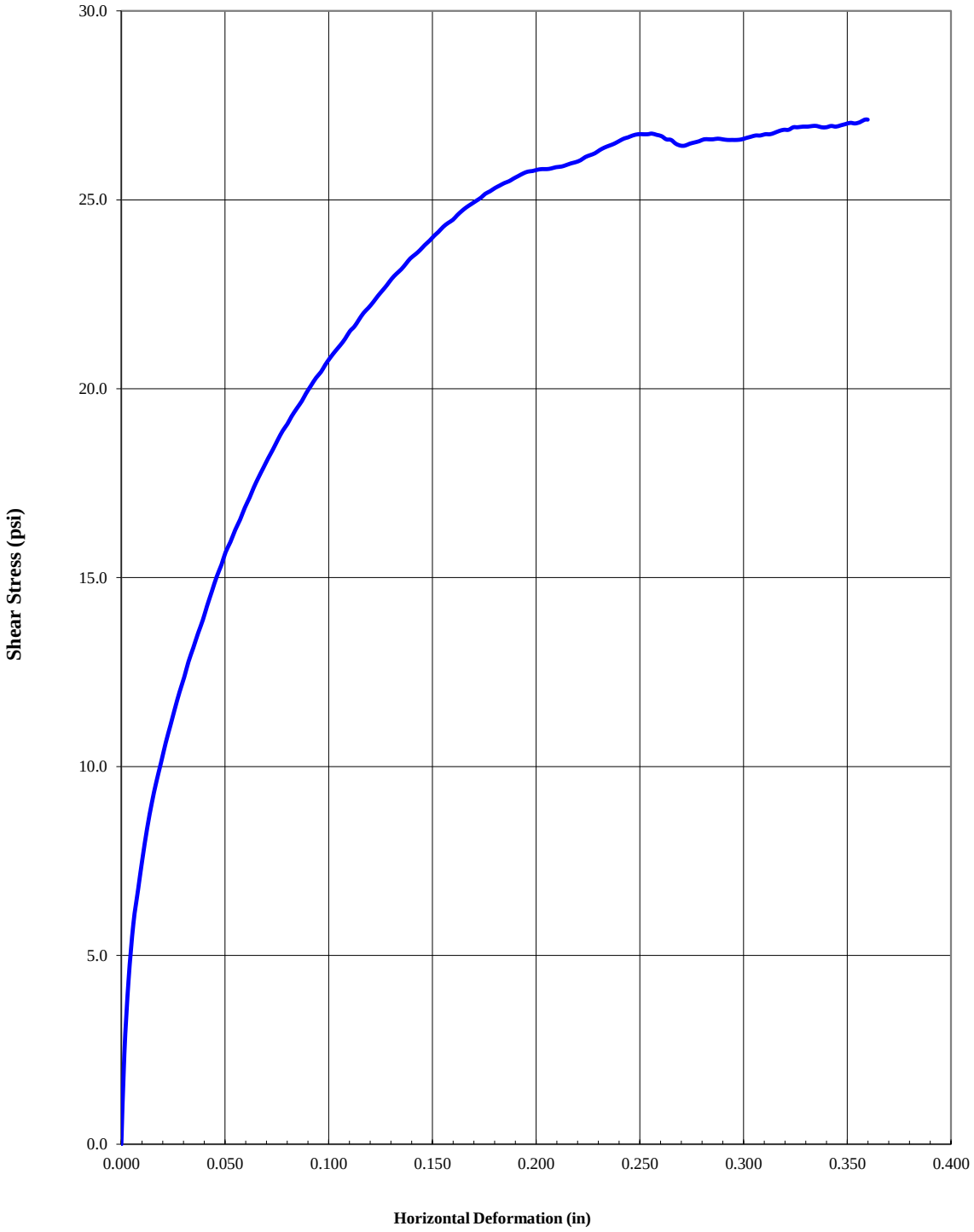
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Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-49 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

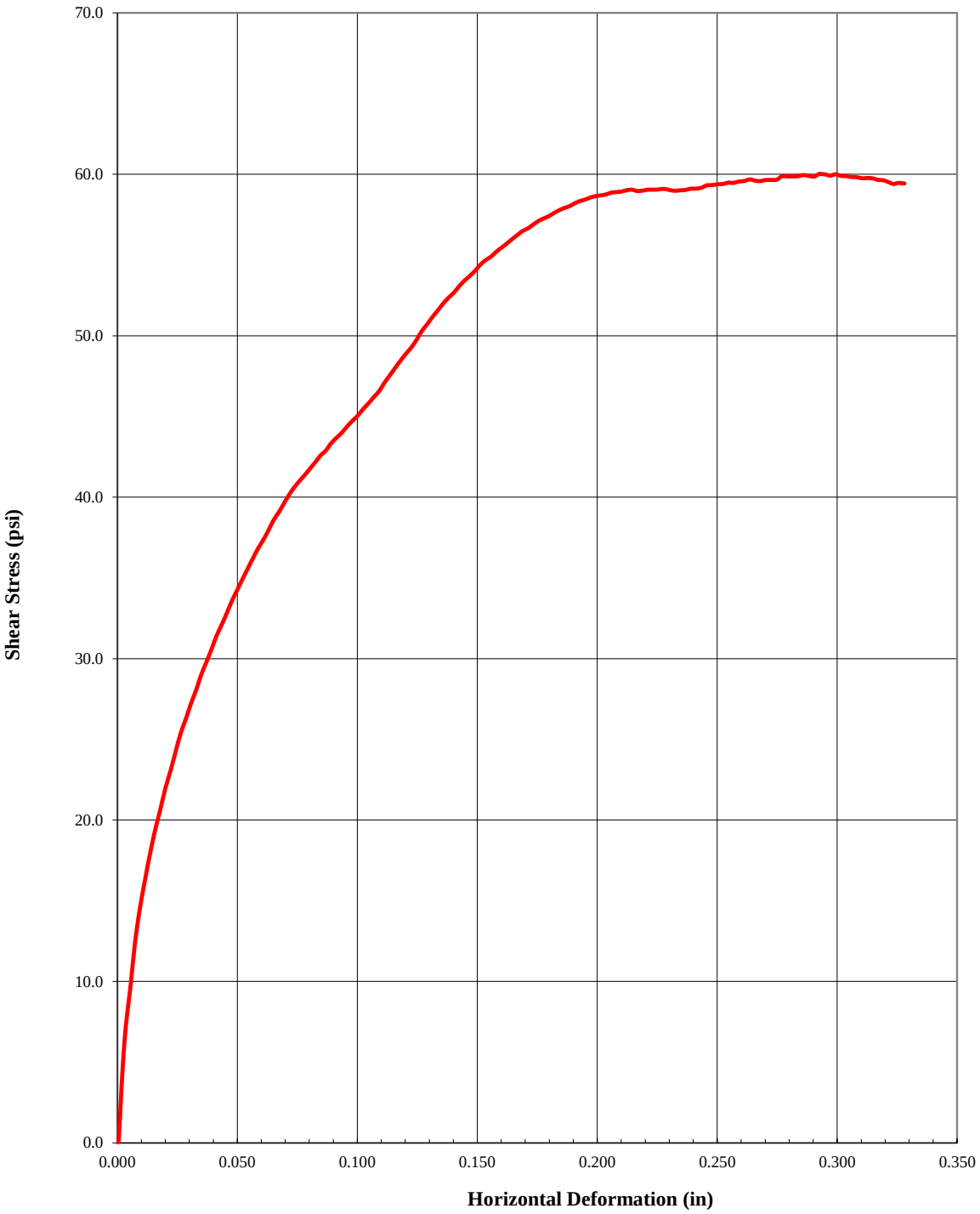
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Date

Date

Tested By

Specimen C Stress-Deformation



DS 16-1101-0176 BW-49 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

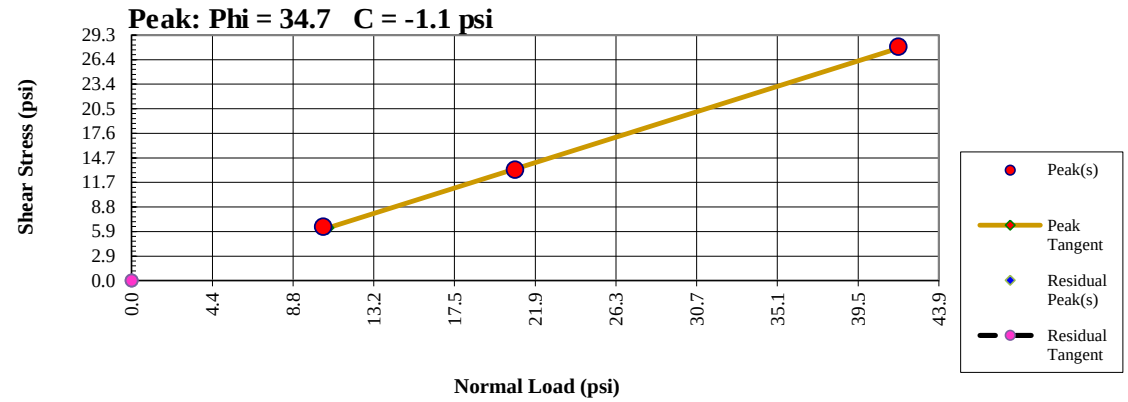
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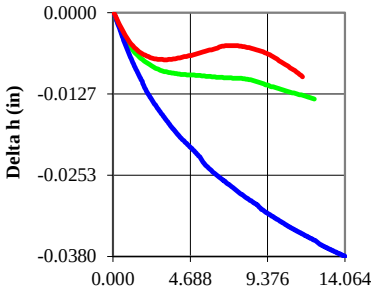
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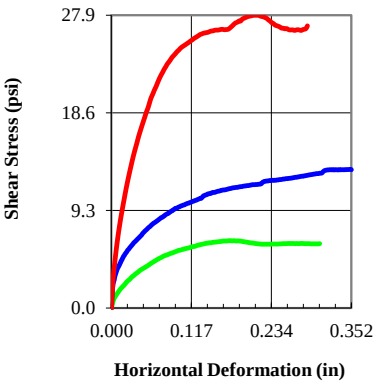
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	31.03	32.87	30.93	
Density (pcf)	92.17	89.17	92.10	
Void Ratio	0.761	0.820	0.762	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.999	0.999	0.999	

Final	A	B	C	D
Moisture (%)	29.39	27.22	27.56	
Density (pcf)	96.55	91.54	96.25	
Void Ratio	0.681	0.773	0.686	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.501	2.501	2.501	
Height (in)	0.948	0.908	0.945	
Normal Stress (psi)	10.4	20.8	41.7	
Peak Stress (psi)	6.4	13.2	27.9	
Residual Stress (psi)				
Strain (%)	12.203	14.029	8.621	
Rate (in/min)	0.00904	0.0036	0.00959	

Project Date	
Date	1/4/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7817
Boring Number	BW-51
Sample Number:	T-5
Depth:	63.5-65.5 ft.
Sample Type:	Undisturbed
Description:	LEAN CLAY with SAND(CL A-6(10))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

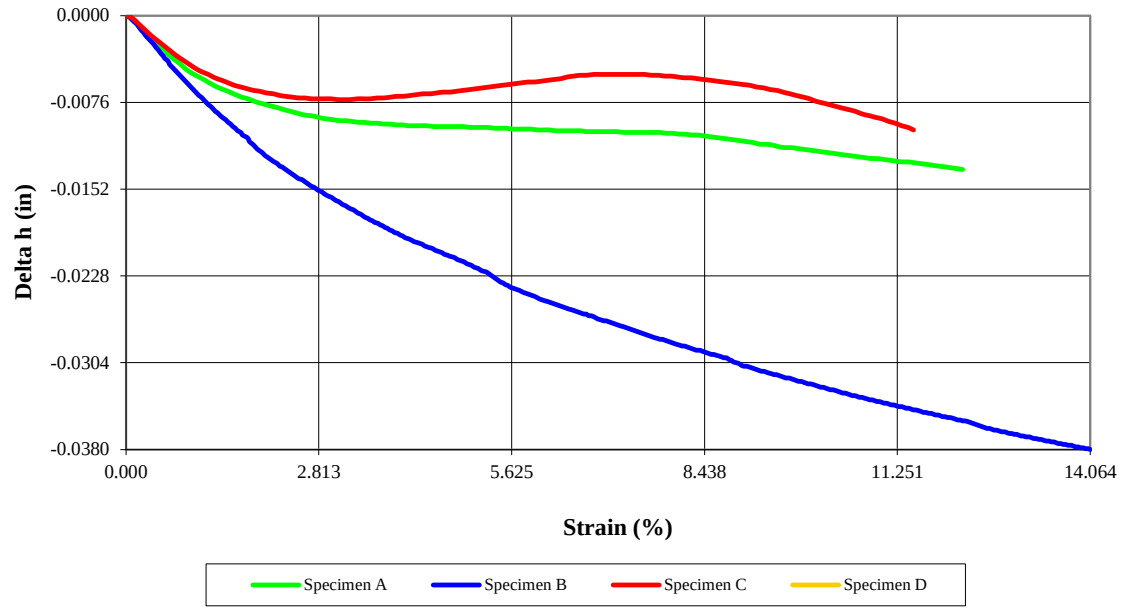
Checked By

Date

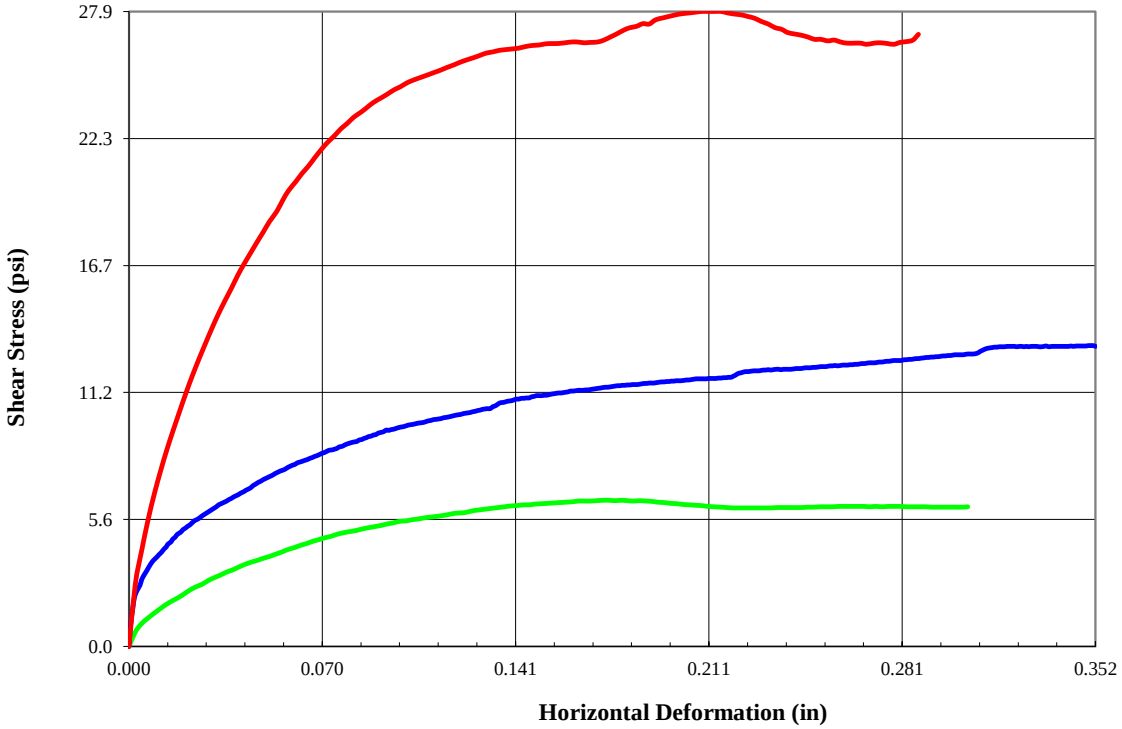
Date

Tested By

Delta h



Stress-Deformation



DS 16-1101-0176 BW-51 T-5.HSD

Thompson Engineering

Direct Shear Test

Date

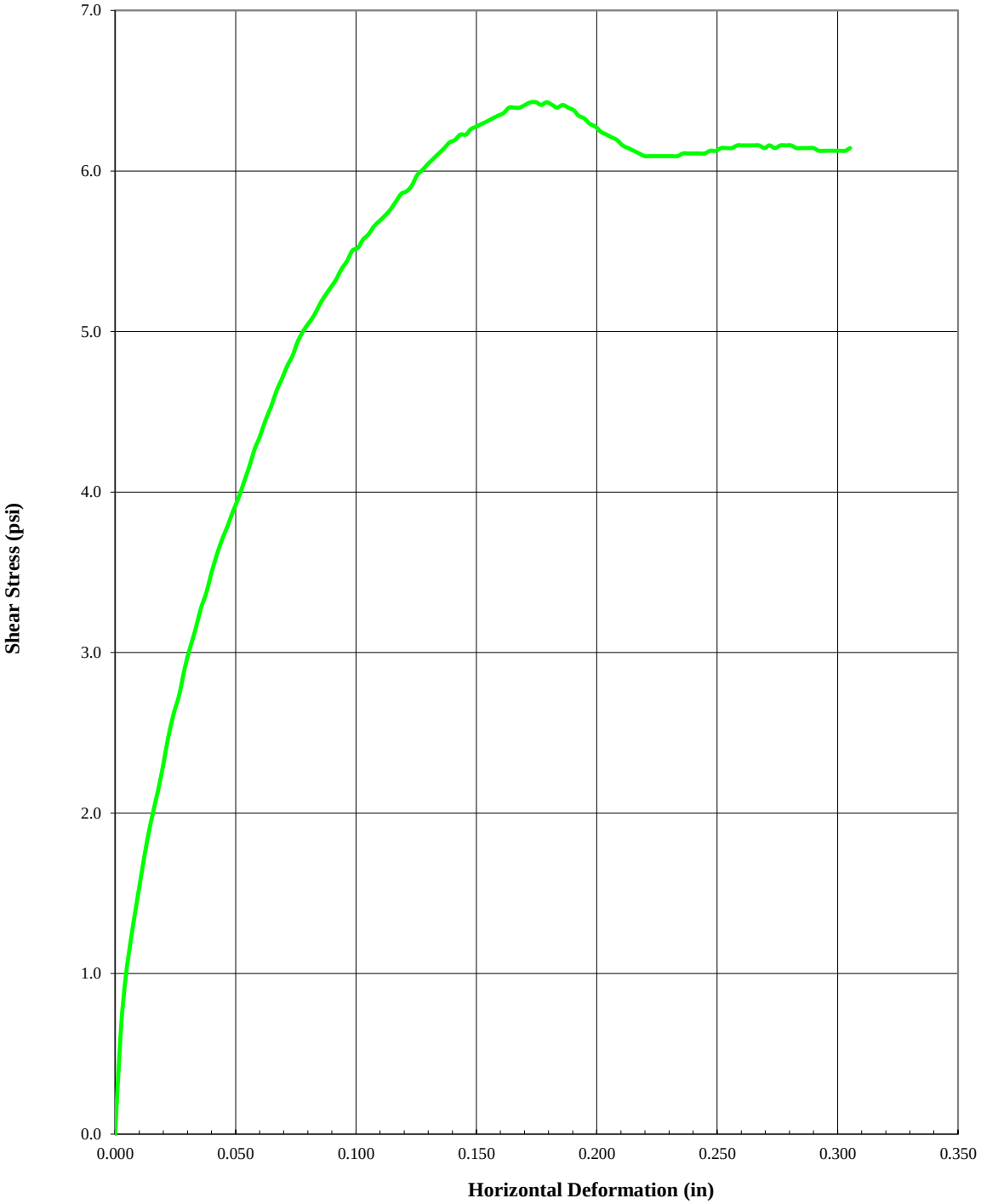
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-51 T-5.HSD

Thompson Engineering

Direct Shear Test

Date

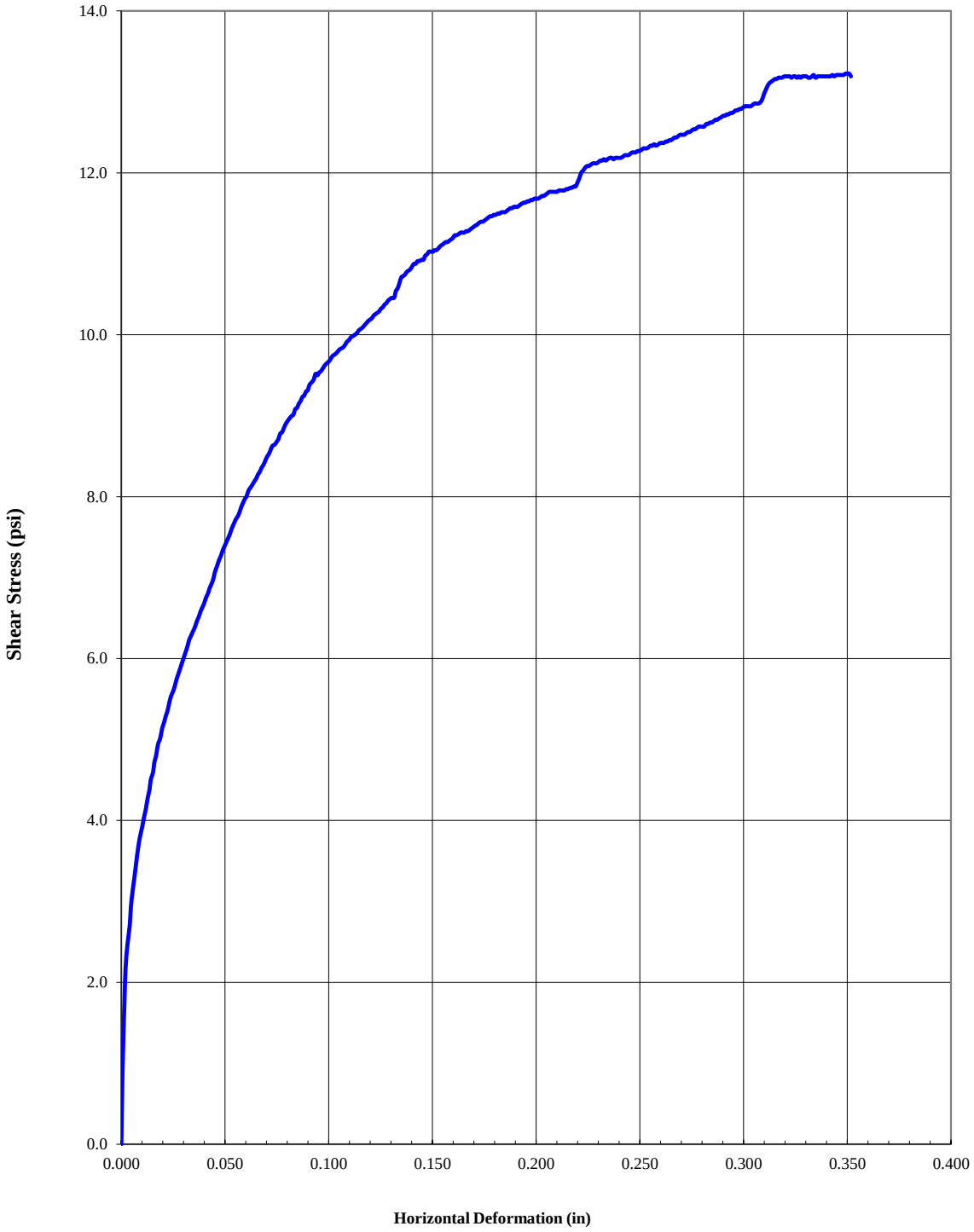
Checked By

Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-51 T-5.HSD

Thompson Engineering

Direct Shear Test

Date

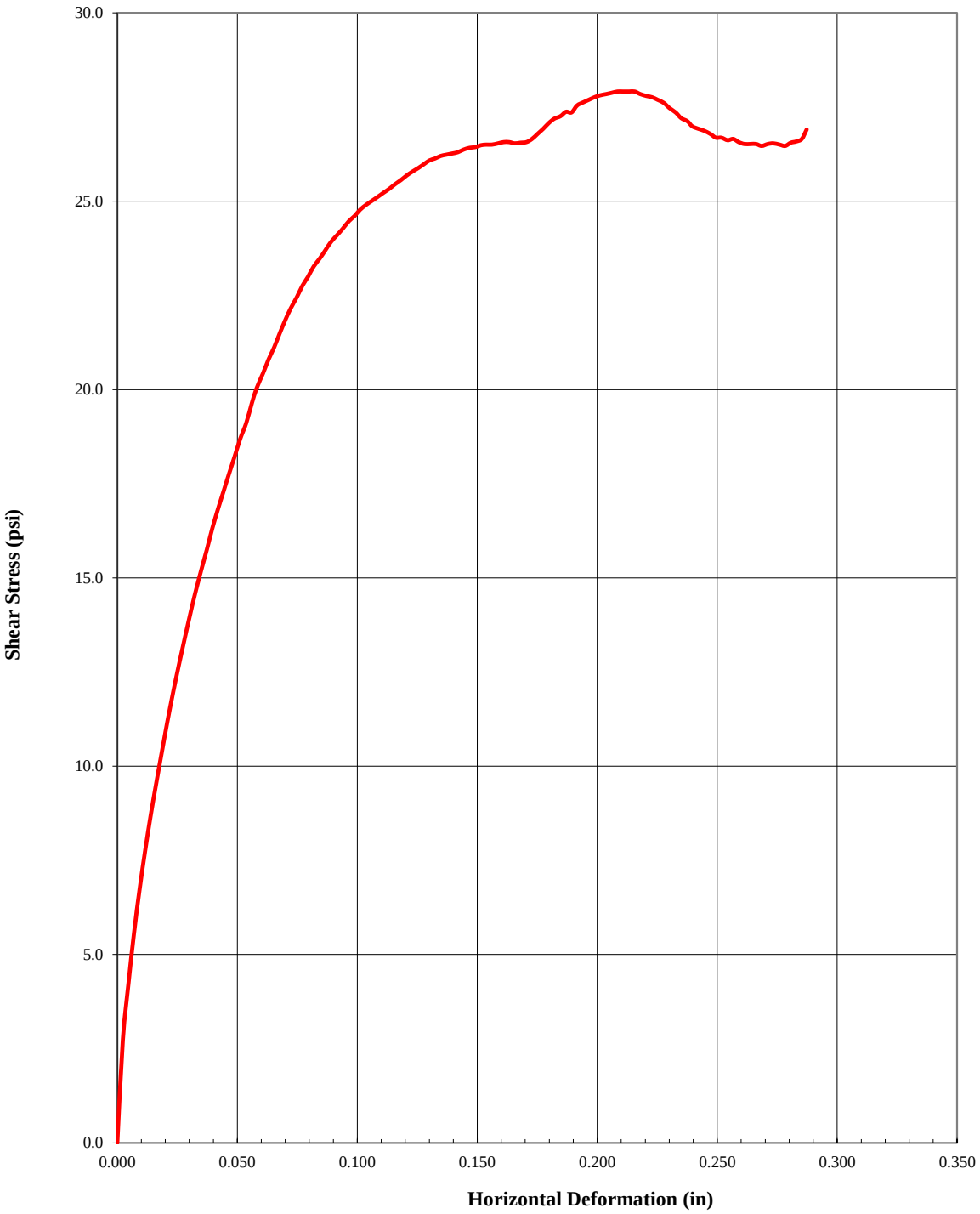
Checked By

Date

Date

Tested By

Specimen C Stress-Deformation



DS 16-1101-0176 BW-51 T-5.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

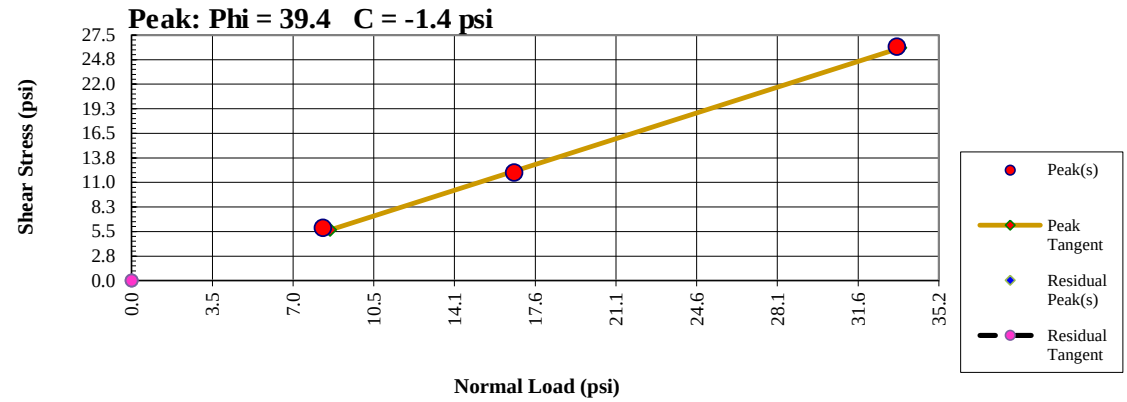
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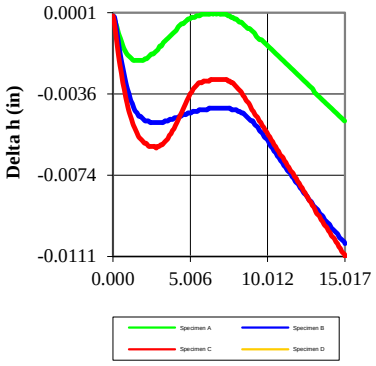
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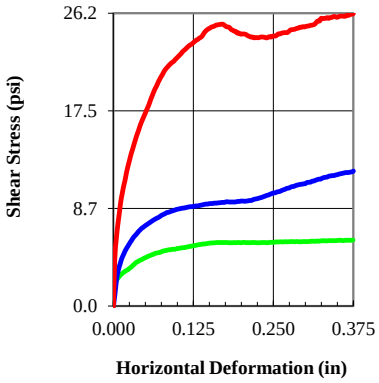
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	24.12	25.36	25.50	
Density (pcf)	100.04	99.33	99.61	
Void Ratio	0.622	0.634	0.630	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	26.02	25.87	25.41	
Density (pcf)	108.18	100.71	103.15	
Void Ratio	0.500	0.612	0.574	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.978	0.959	0.947	
Normal Stress (psi)	8.3	16.7	33.3	
Peak Stress (psi)	5.9	12.1	26.2	
Residual Stress (psi)				
Strain (%)	14.994	15.017	15.017	
Rate (in/min)	0.01083	0.01061	0.00957	

Project Date	
Date	7/11/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-121
Sample Number:	T-1
Depth:	23.0-25.0 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

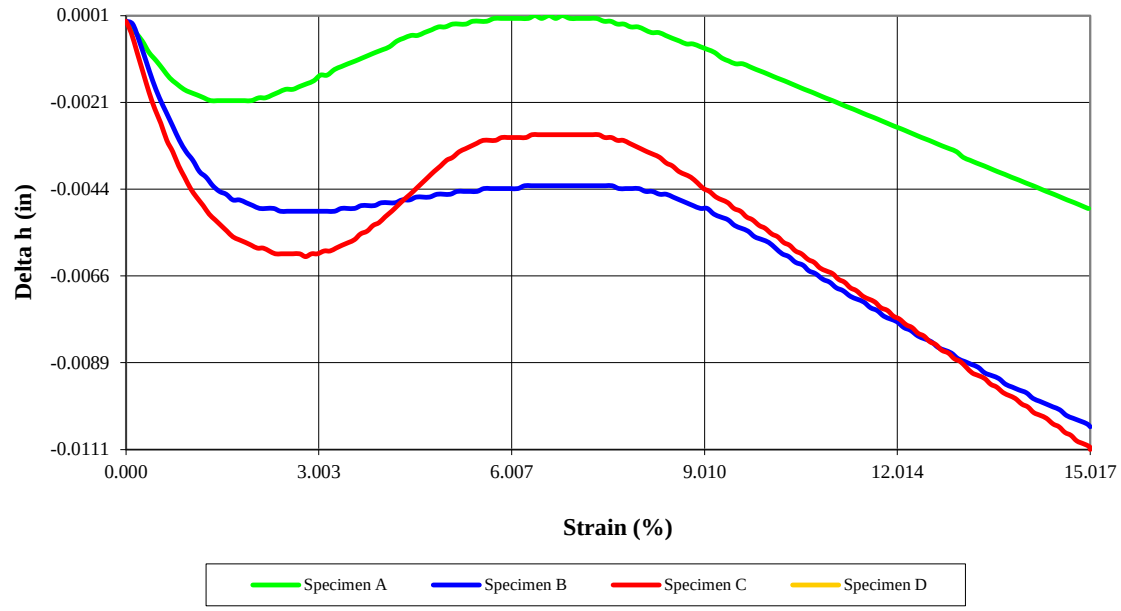
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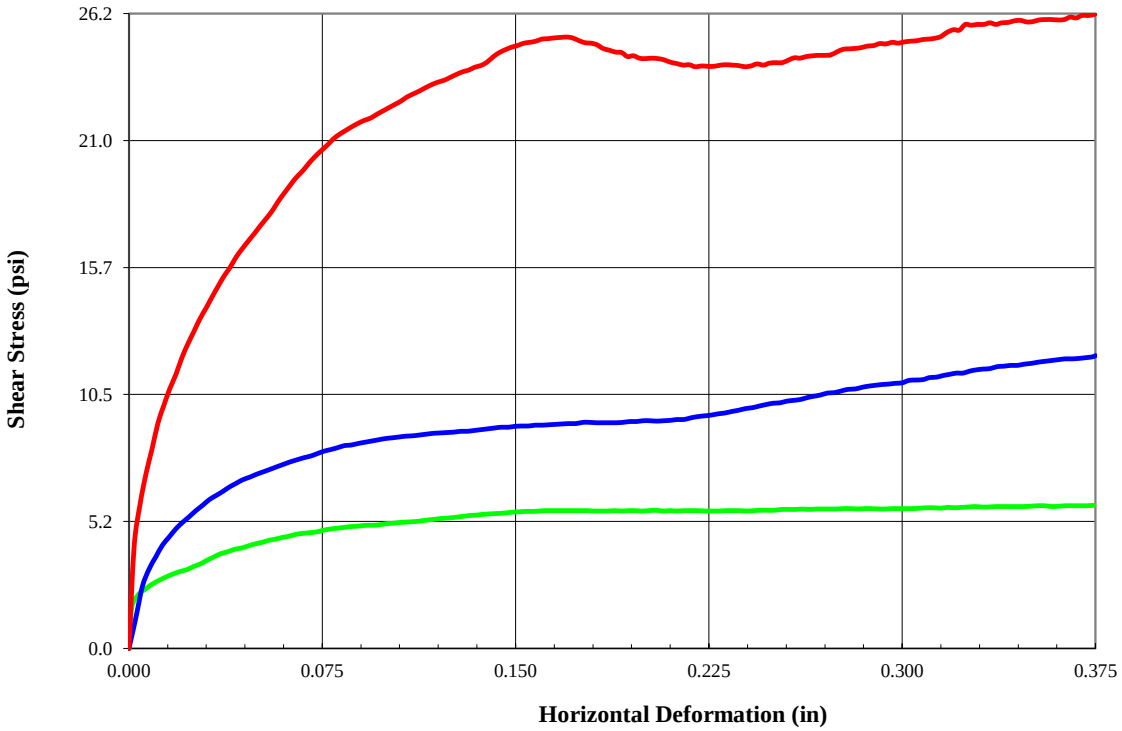
Date

Tested By

Delta h



Stress-Deformation



DS 16-1101-0176 BW-121 T-1.HSD

Thompson Engineering

Direct Shear Test

Date

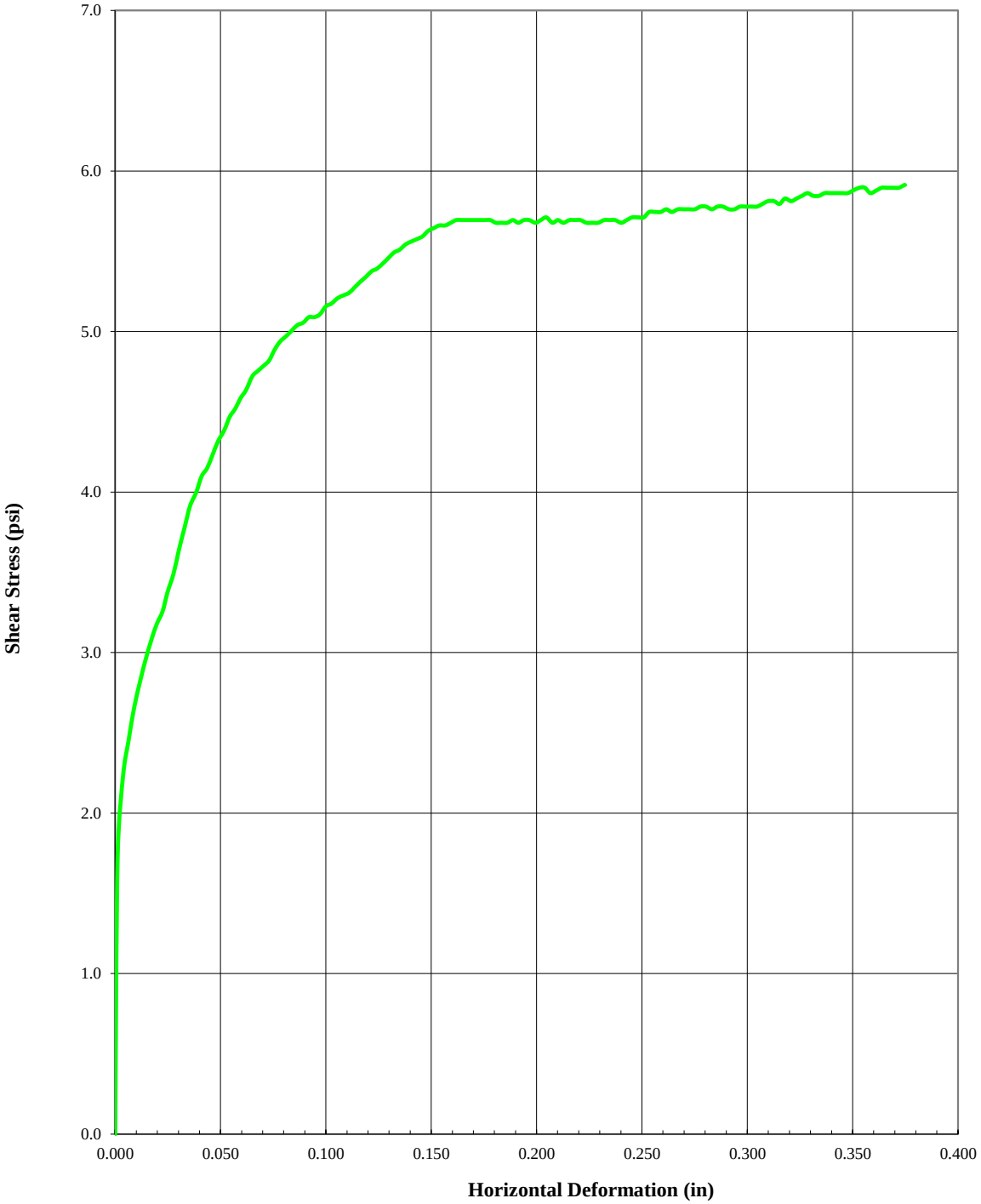
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Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-121 T-1.HSD

Thompson Engineering

Direct Shear Test

Date

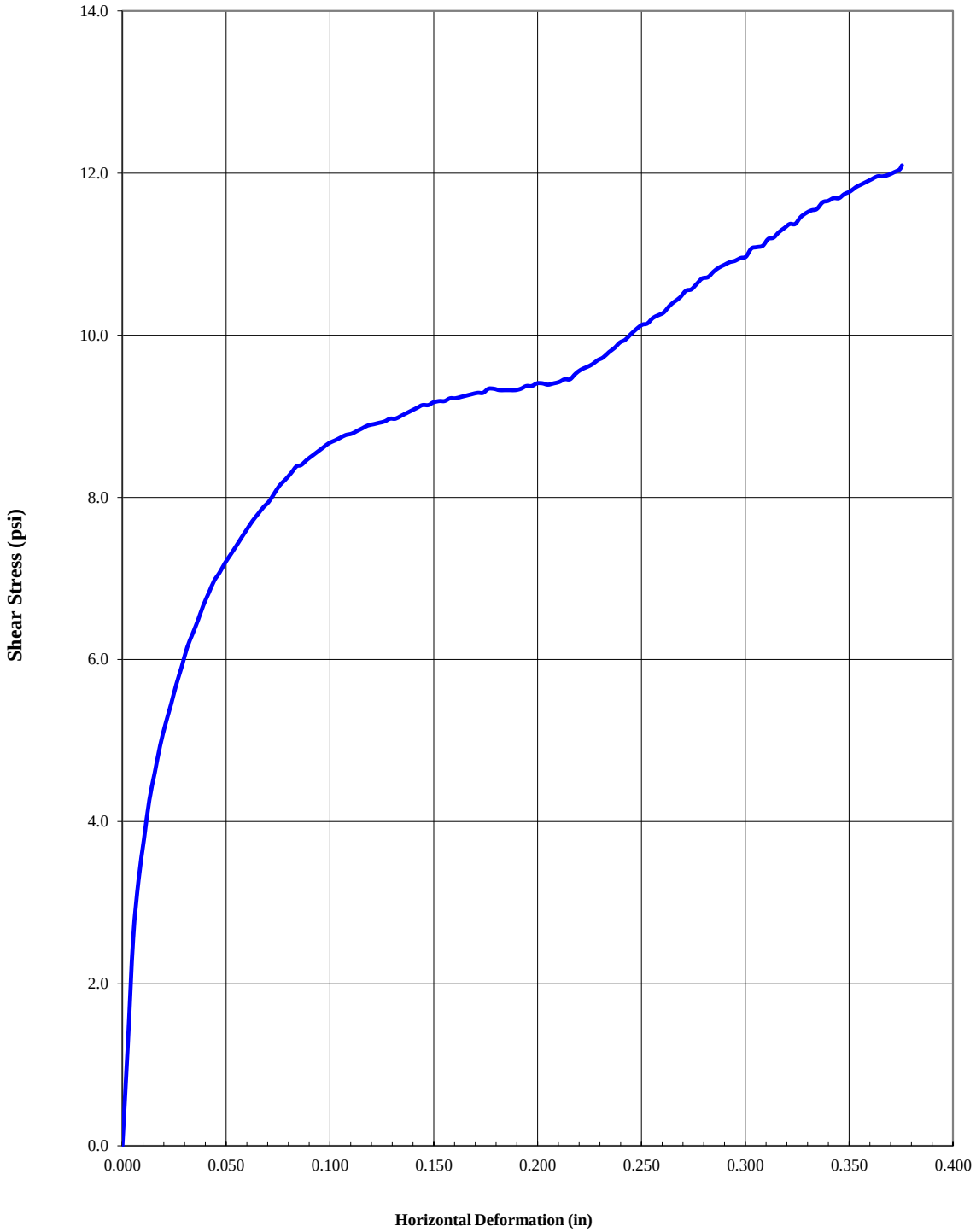
Checked By

Date

Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-121 T-1.HSD

Thompson Engineering

Direct Shear Test

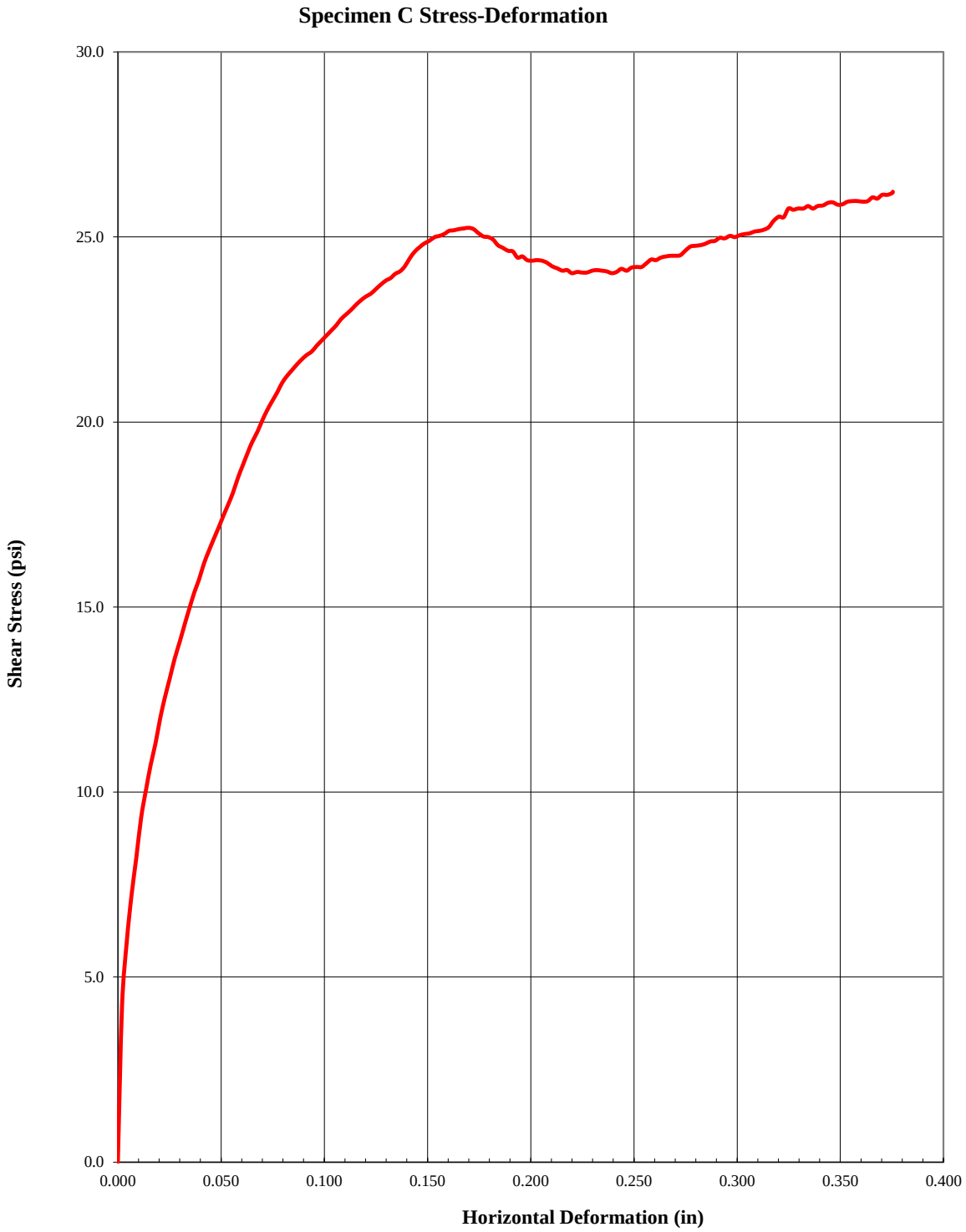
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Date

Date

Tested By



DS 16-1101-0176 BW-121 T-1.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

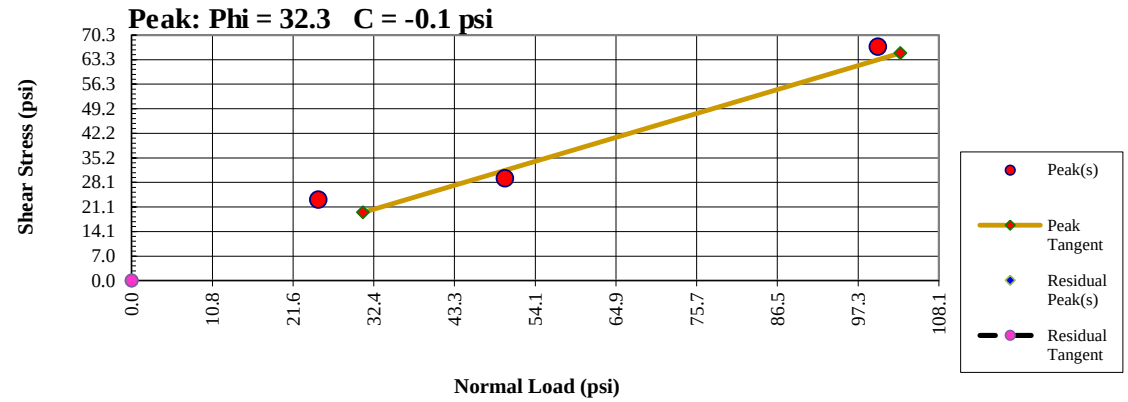
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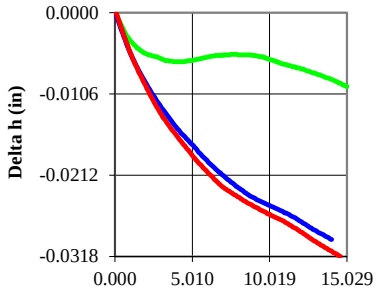
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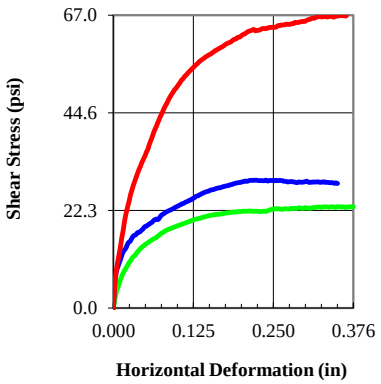
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	27.29	39.60	41.93	
Density (pcf)	96.57	82.14	79.18	
Void Ratio	0.681	0.976	1.050	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	23.54	27.52	23.21	
Density (pcf)	110.28	88.96	93.56	
Void Ratio	0.472	0.825	0.735	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.952	0.881	0.894	
Normal Stress (psi)	25.0	50.0	100.0	
Peak Stress (psi)	23.2	29.3	67.0	
Residual Stress (psi)				
Strain (%)	15.029	14.035	14.451	
Rate (in/min)	0.00836	0.008	0.008	

Project Date	
Date	7/18/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	7928
Boring Number	BW-121
Sample Number:	T-4
Depth:	73.0-75.0 ft.
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

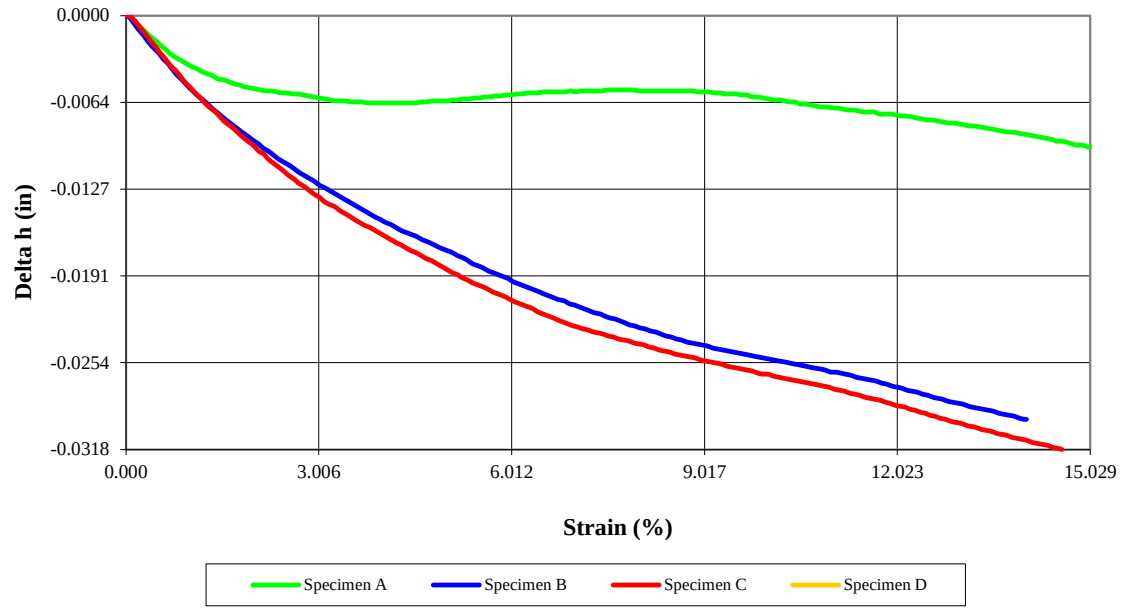
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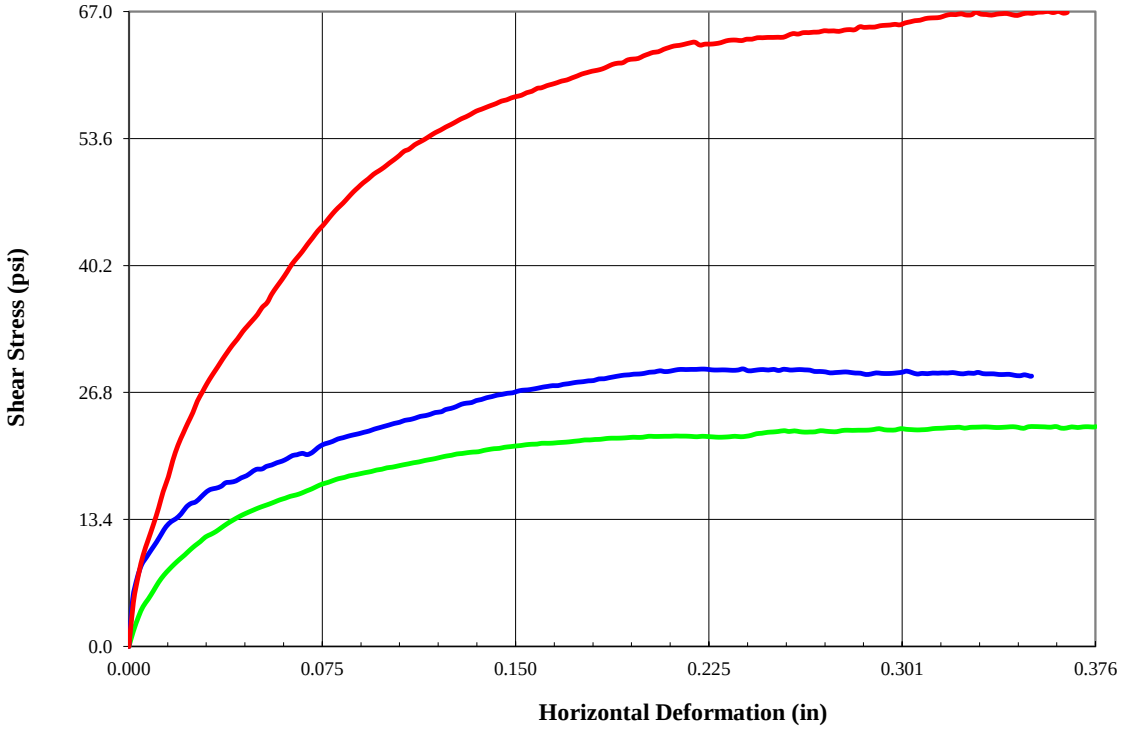
Date

Tested By

Delta h



Stress-Deformation



DS 16-1101-0176 BW-121 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

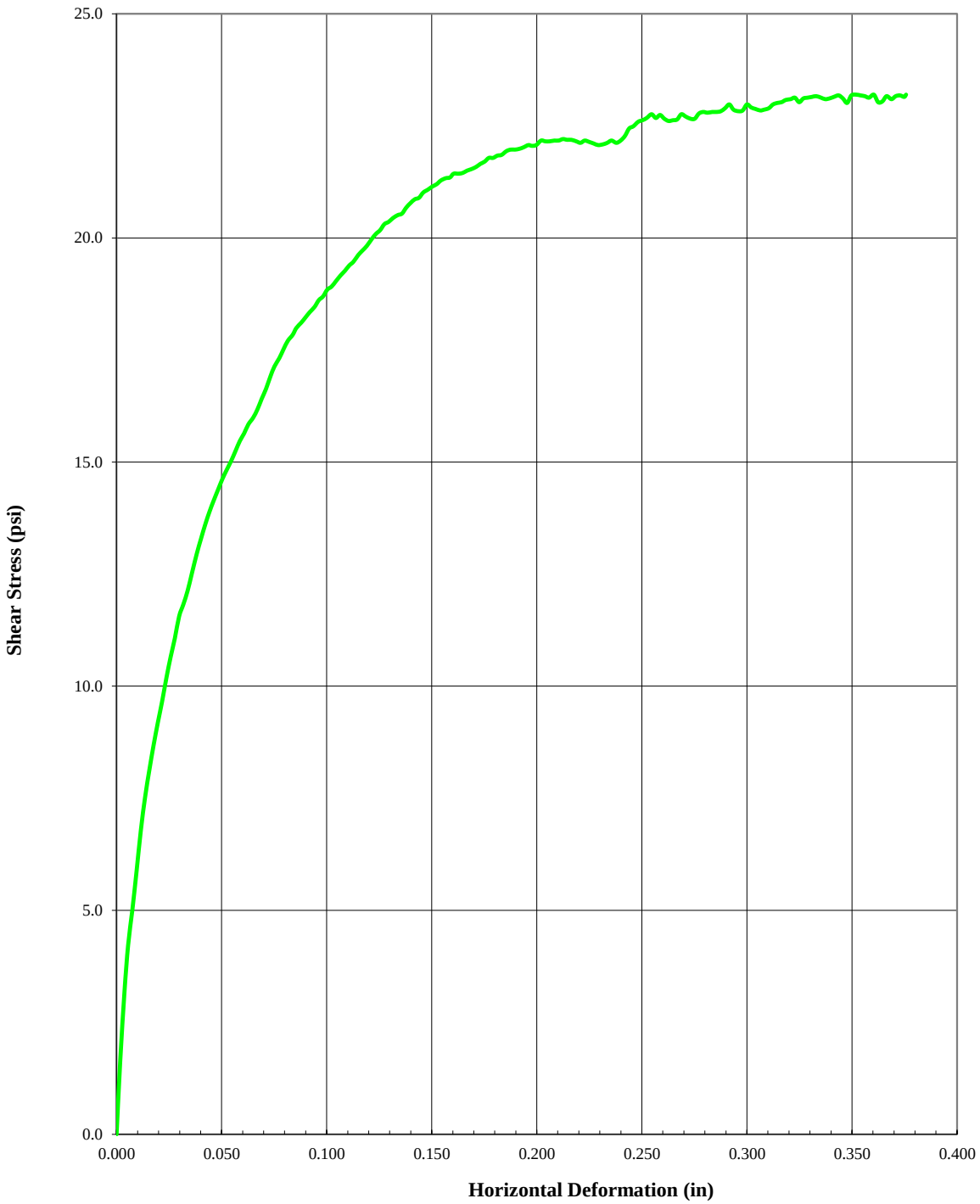
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-121 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

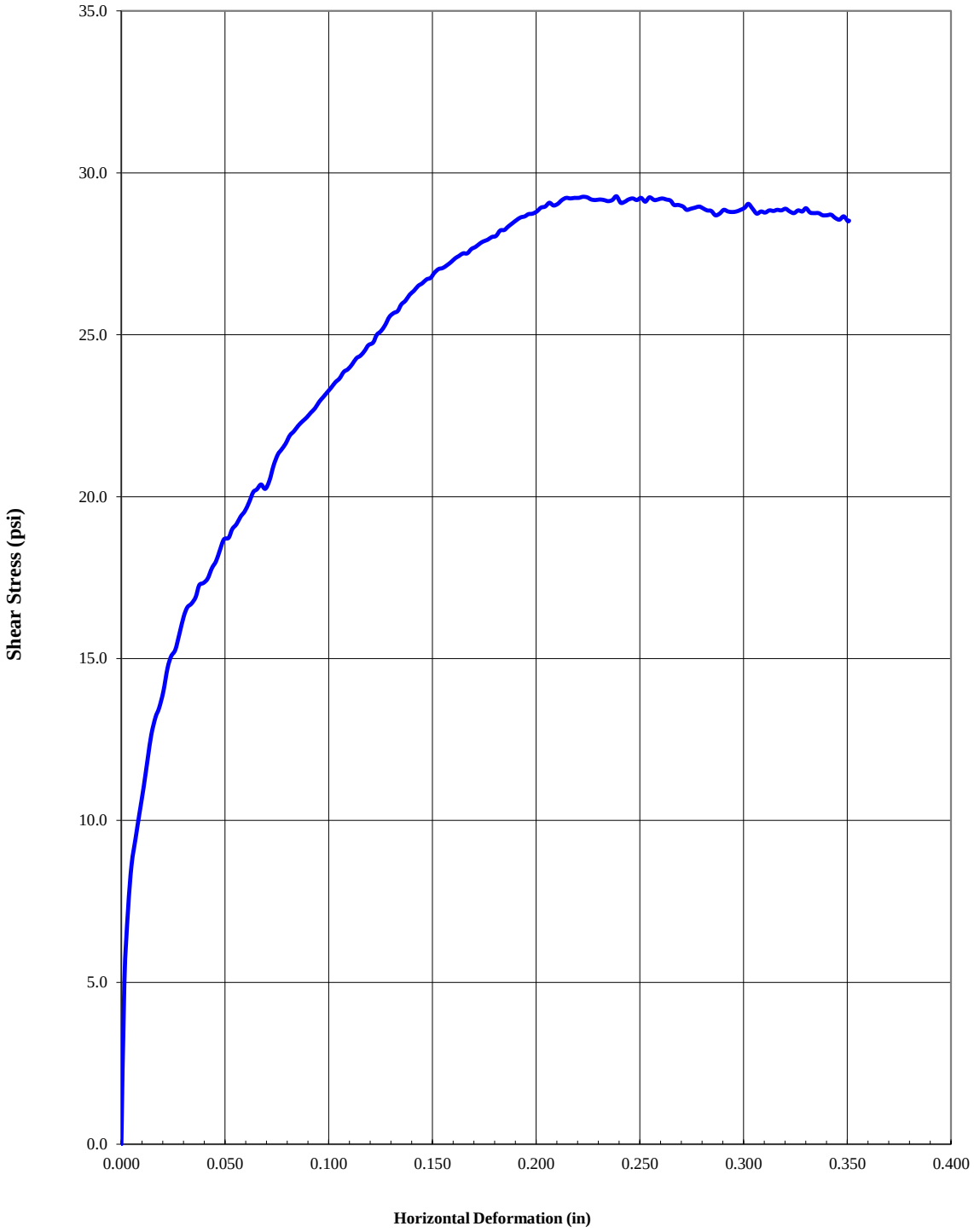
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Date

Tested By

Specimen B Stress-Deformation



DS 16-1101-0176 BW-121 T-4.HSD

Thompson Engineering

Direct Shear Test

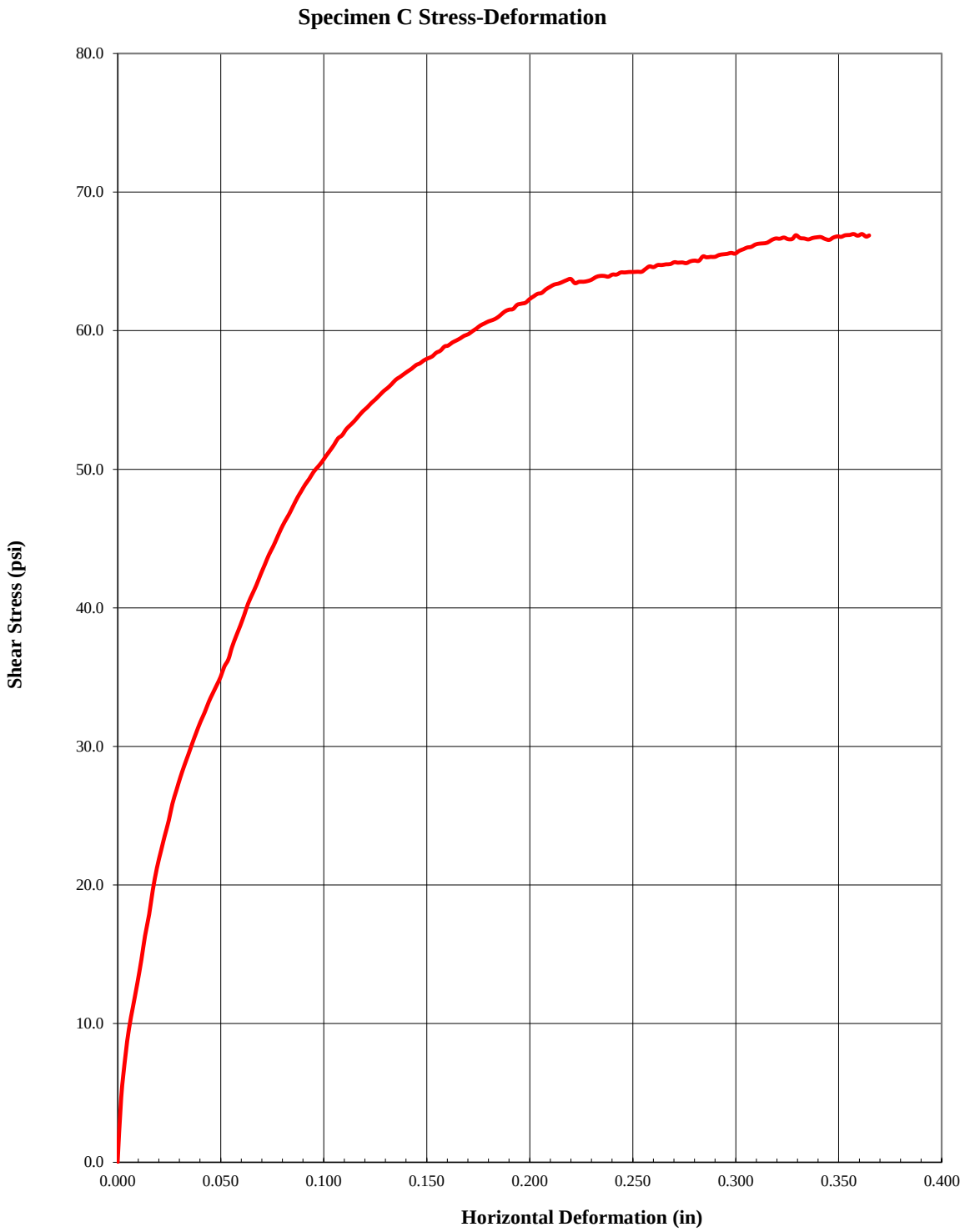
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Date

Tested By



DS 16-1101-0176 BW-121 T-4.HSD

Thompson Engineering

Direct Shear Test (ASTM D3080)

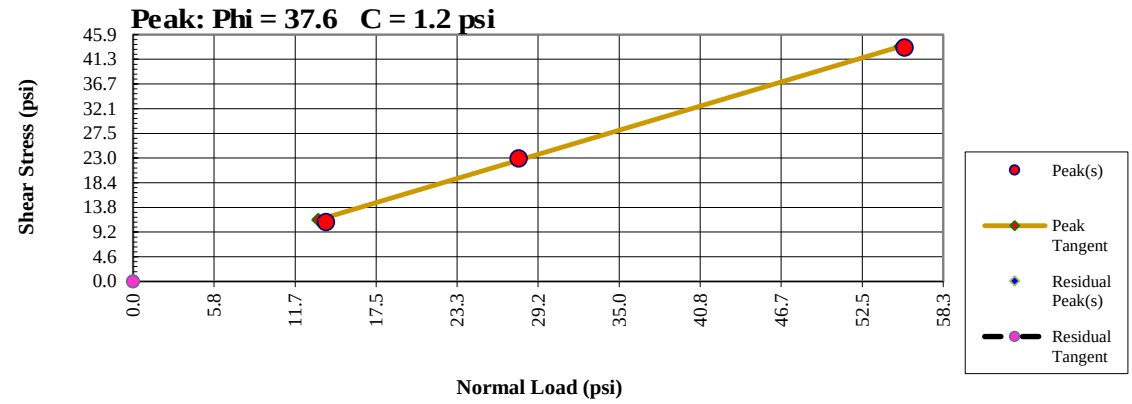
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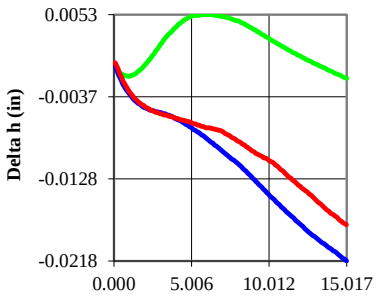
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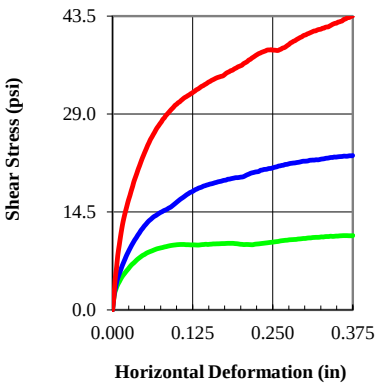
Date

Date

Tested By







Initial	Specimen A	B	C	D
Moisture (%)	26.01	26.46	27.11	
Density (pcf)	96.64	94.99	94.99	
Void Ratio	0.680	0.709	0.709	
Saturation (%)	99.53	97.08	99.45	
Diameter (in)	2.500	2.500	2.500	
Height (in)	1.000	1.000	1.000	

Final	A	B	C	D
Moisture (%)	27.14	26.87	27.44	
Density (pcf)	102.03	98.85	98.14	
Void Ratio	0.591	0.642	0.654	
Saturation (%)	100.00	100.00	100.00	
Diameter (in)	2.500	2.500	2.500	
Height (in)	0.980	0.962	0.956	
Normal Stress (psi)	13.9	27.8	55.6	
Peak Stress (psi)	11.0	22.9	43.5	
Residual Stress (psi)				
Strain (%)	15.017	15.006	14.994	
Rate (in/min)	0.01135	0.01028	0.00874	

Project Date	
Date	8/23/17

Project:	Mobile River Bridge
Location:	Soils Lab
Project Number:	8030
Boring Number	BW-123
Sample Number:	T-4
Depth:	43.0-45.0
Sample Type:	Undisturbed
Description:	SILTY SAND(SM A-2-4(0))
Test Type:	Direct Shear
Remarks:	



Failure Photographs

Thompson Engineering

Direct Shear Test (ASTM D3080)

Date

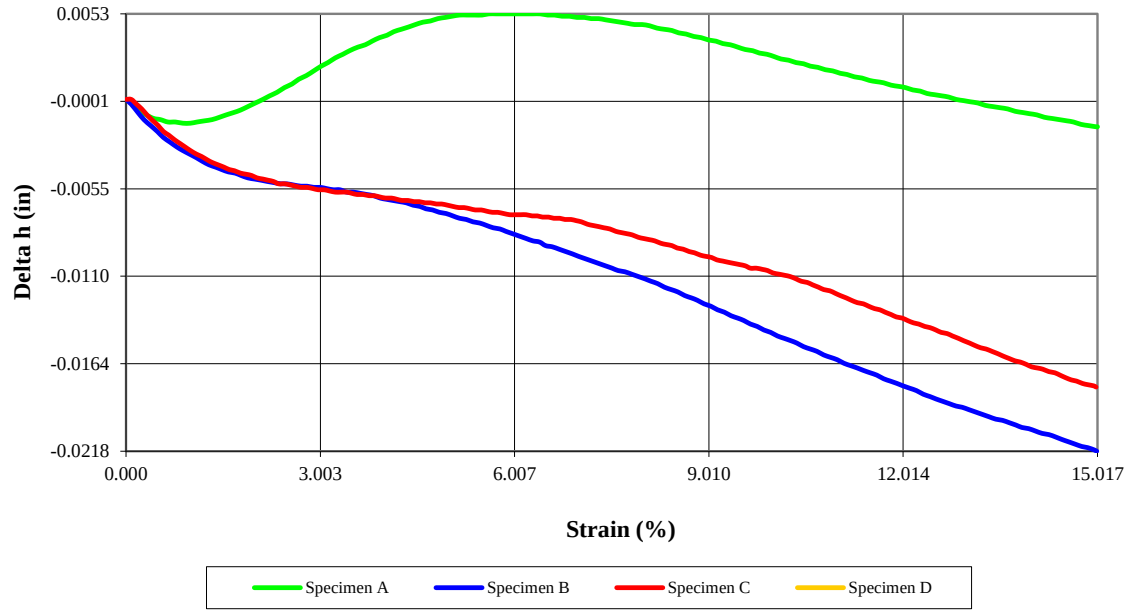
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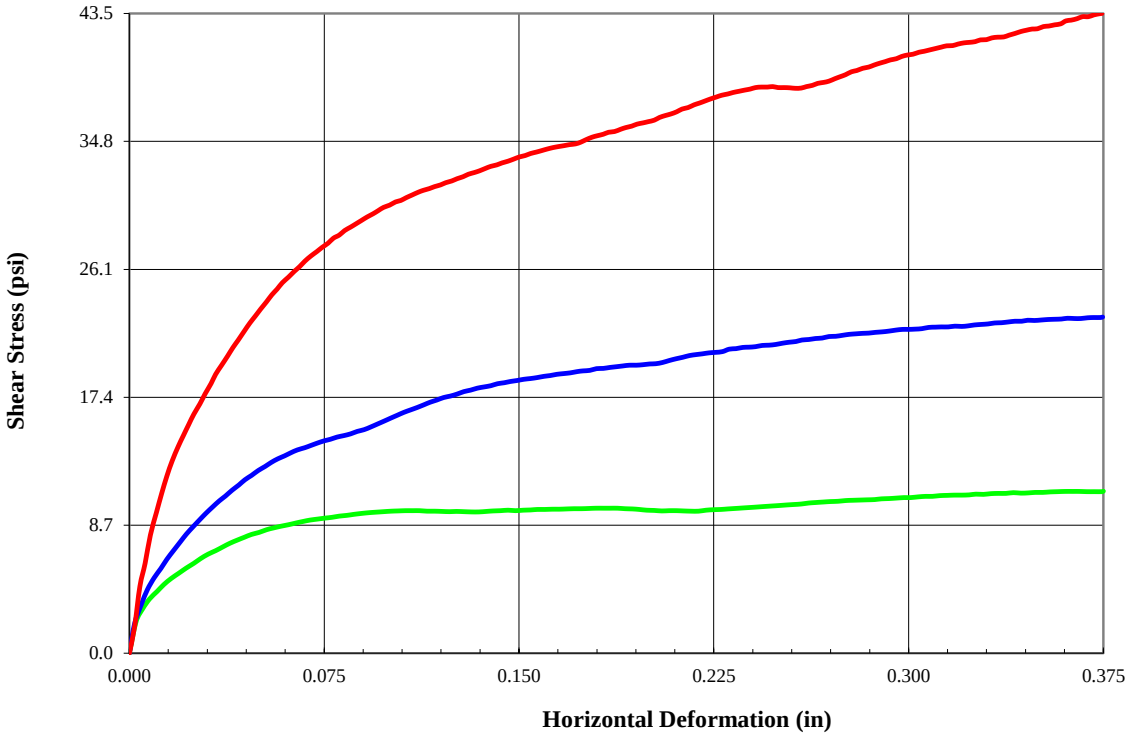
Date

Tested By

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Stress-Deformation



DS 16-1101-0176 BW-123 T-4.HSD

Thompson Engineering

Direct Shear Test

Date

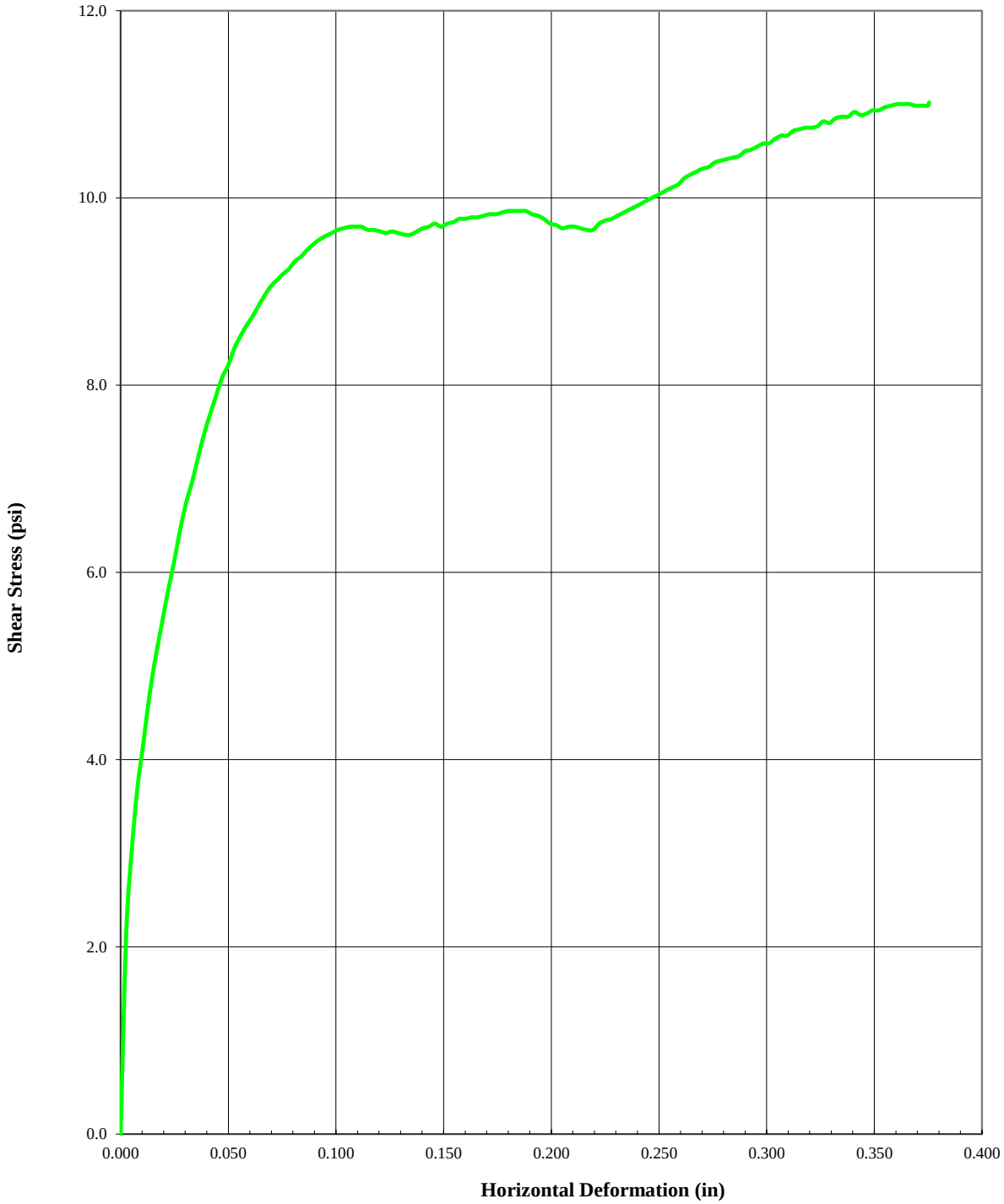
Checked By

Date

Date

Tested By

Specimen A Stress-Deformation



DS 16-1101-0176 BW-123 T-4.HSD

Thompson Engineering

Direct Shear Test

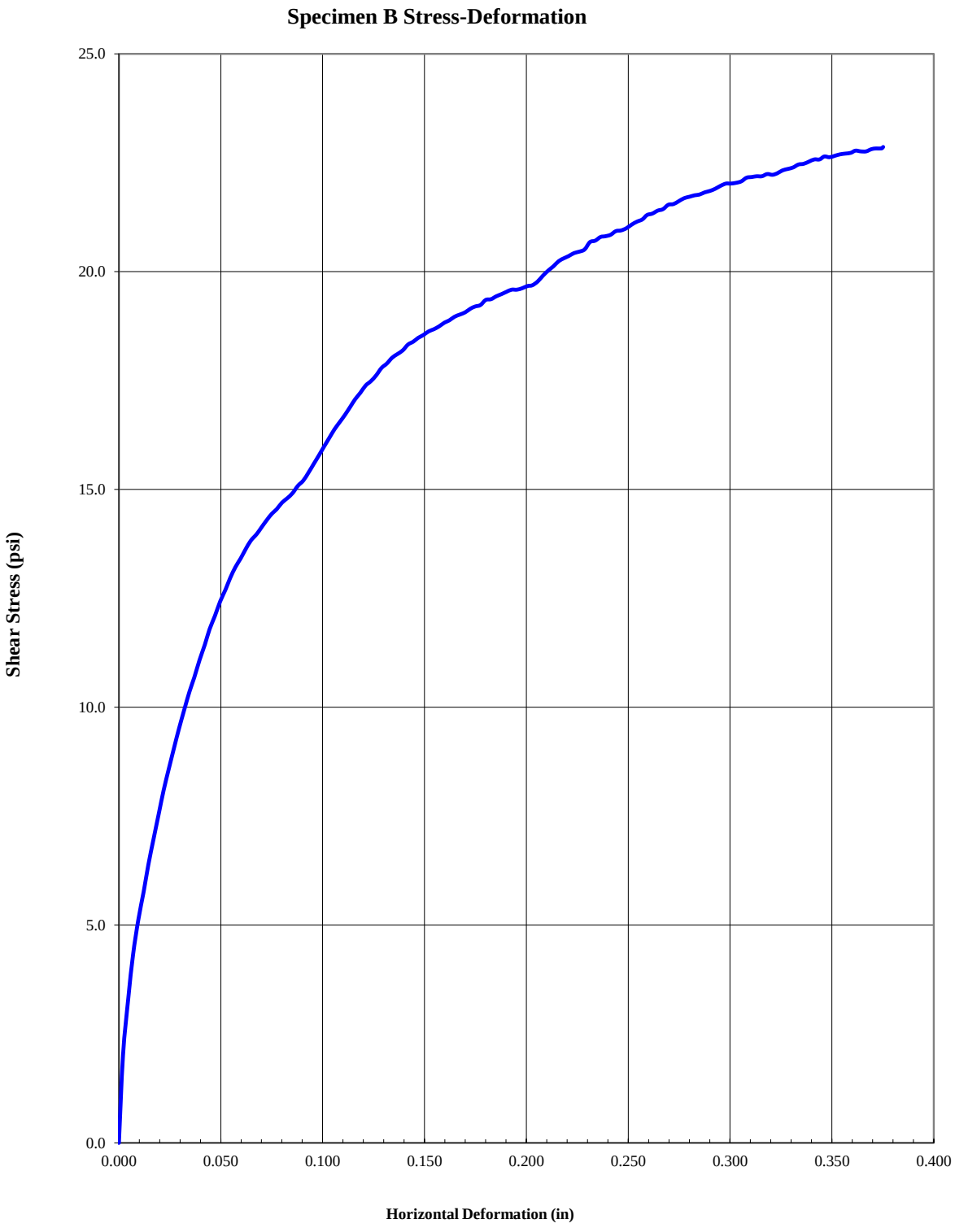
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Tested By



DS 16-1101-0176 BW-123 T-4.HSD

Thompson Engineering

Direct Shear Test

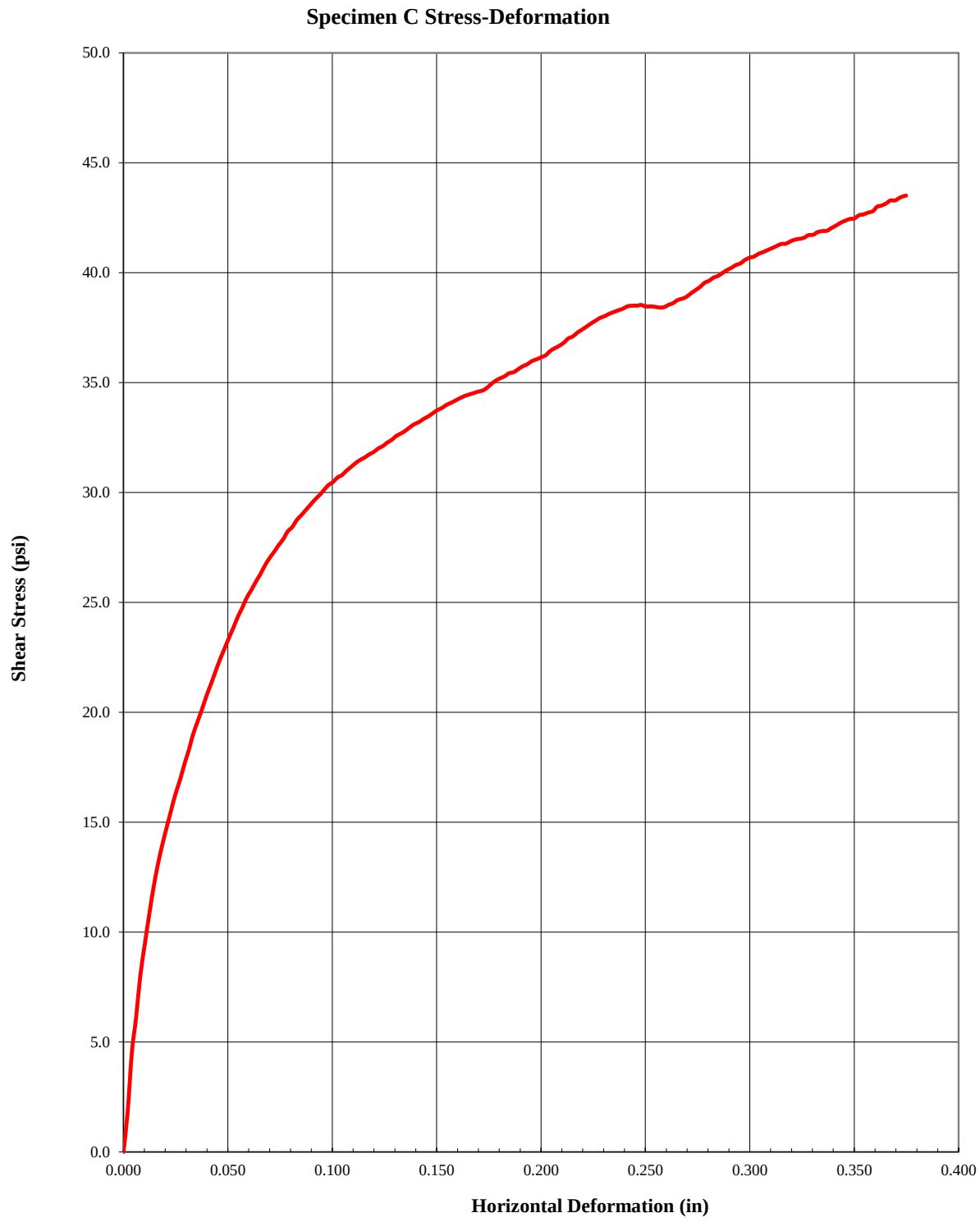
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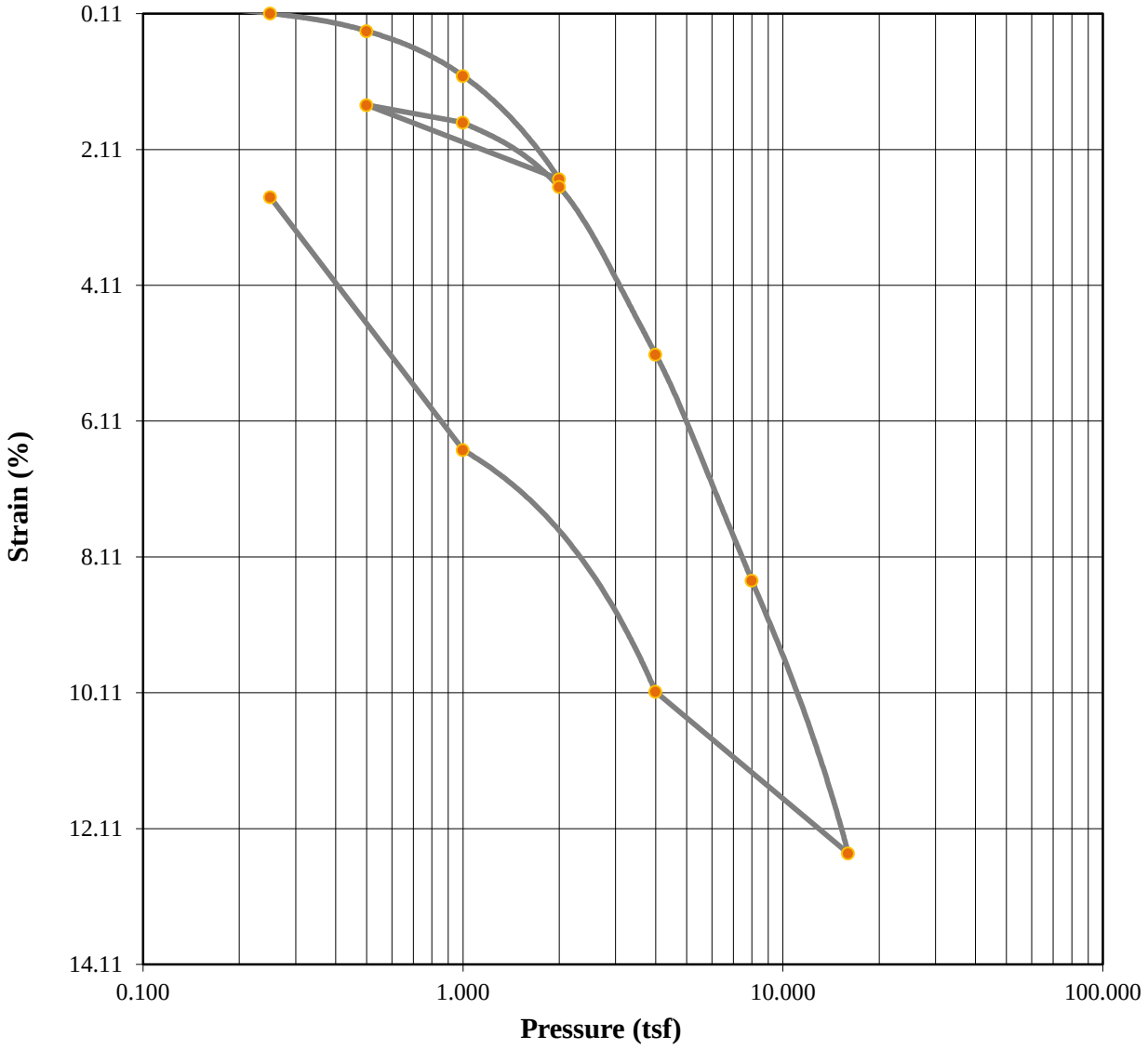
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Tested By



DS 16-1101-0176 BW-123 T-4.HSD

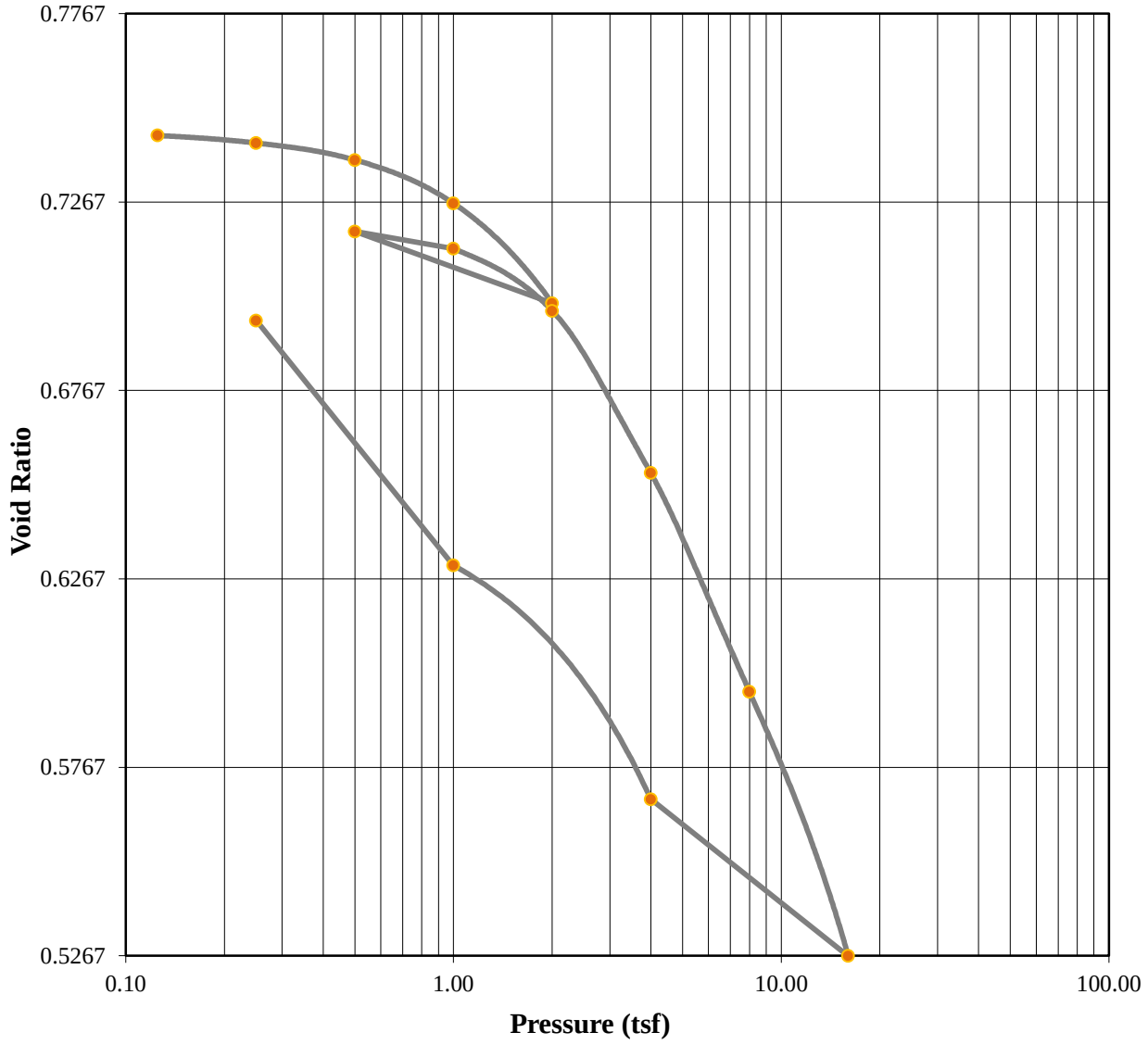
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.39	29.01	**Liquid Limits:**	65	**Test Date:**	4/12/17
Dry Density (pcf):	93.31	96.34	**Plastic Limits:**	21		
Saturation (%):	106.19	109.42	**Plasticity Index (%):**	0		
Void Ratio:	0.7442	0.6951	**Specific Gravity:**	2.612	Measured	

Sample Description:	FAT CLAY with SAND(CH A-7-6(35))			
Project Number:	7905	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

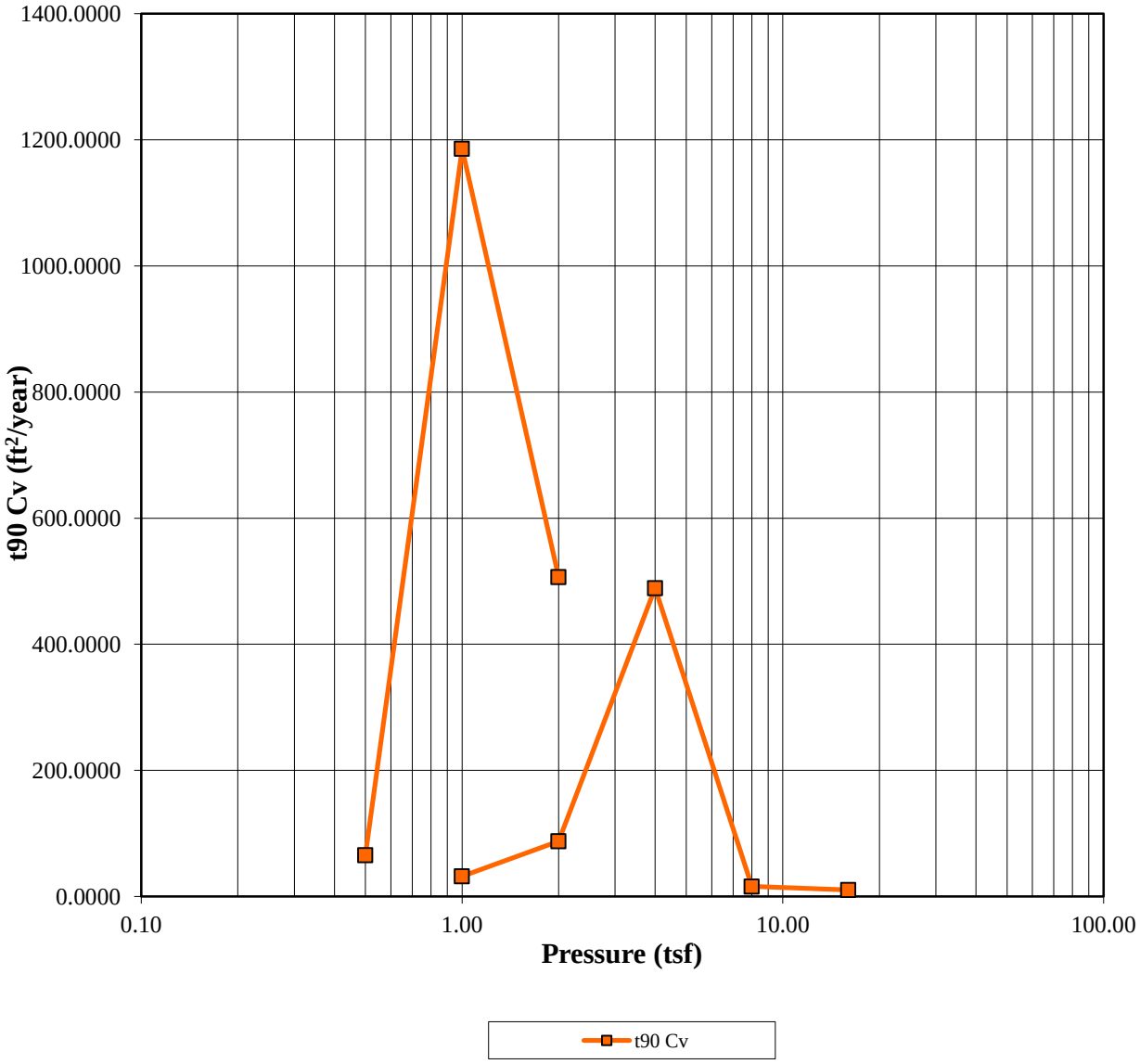
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.39	29.01	**Liquid Limits:**	65	**Test Date:**	4/12/17
Dry Density (pcf):	93.31	96.34	**Plastic Limits:**	21		
Saturation (%):	106.19	109.42	**Plasticity Index (%):**	0		
Void Ratio:	0.7442	0.6951	**Specific Gravity:**	2.612	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(35))			
Project Number:	7905	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

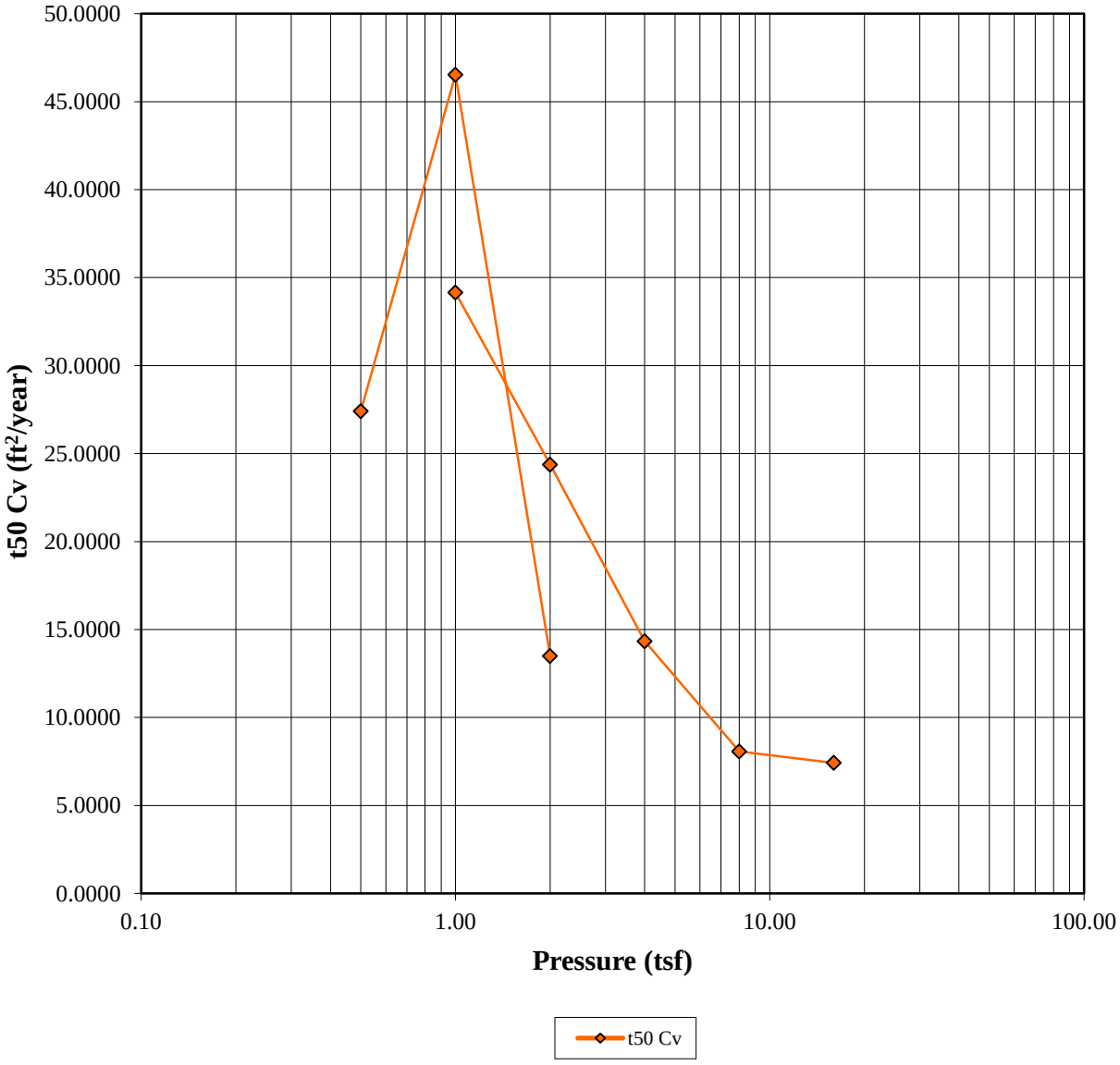
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	65	**Test Date:**	4/12/17
Moisture (%):	30.39	29.01	**Plastic Limits:**	21		
Dry Density (pcf):	93.31	96.34	**Plasticity Index (%):**	0		
Saturation (%):	106.19	109.42				
Void Ratio:	0.7442	0.6951	**Specific Gravity:**	2.612	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(35))			
Project Number:	7905	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

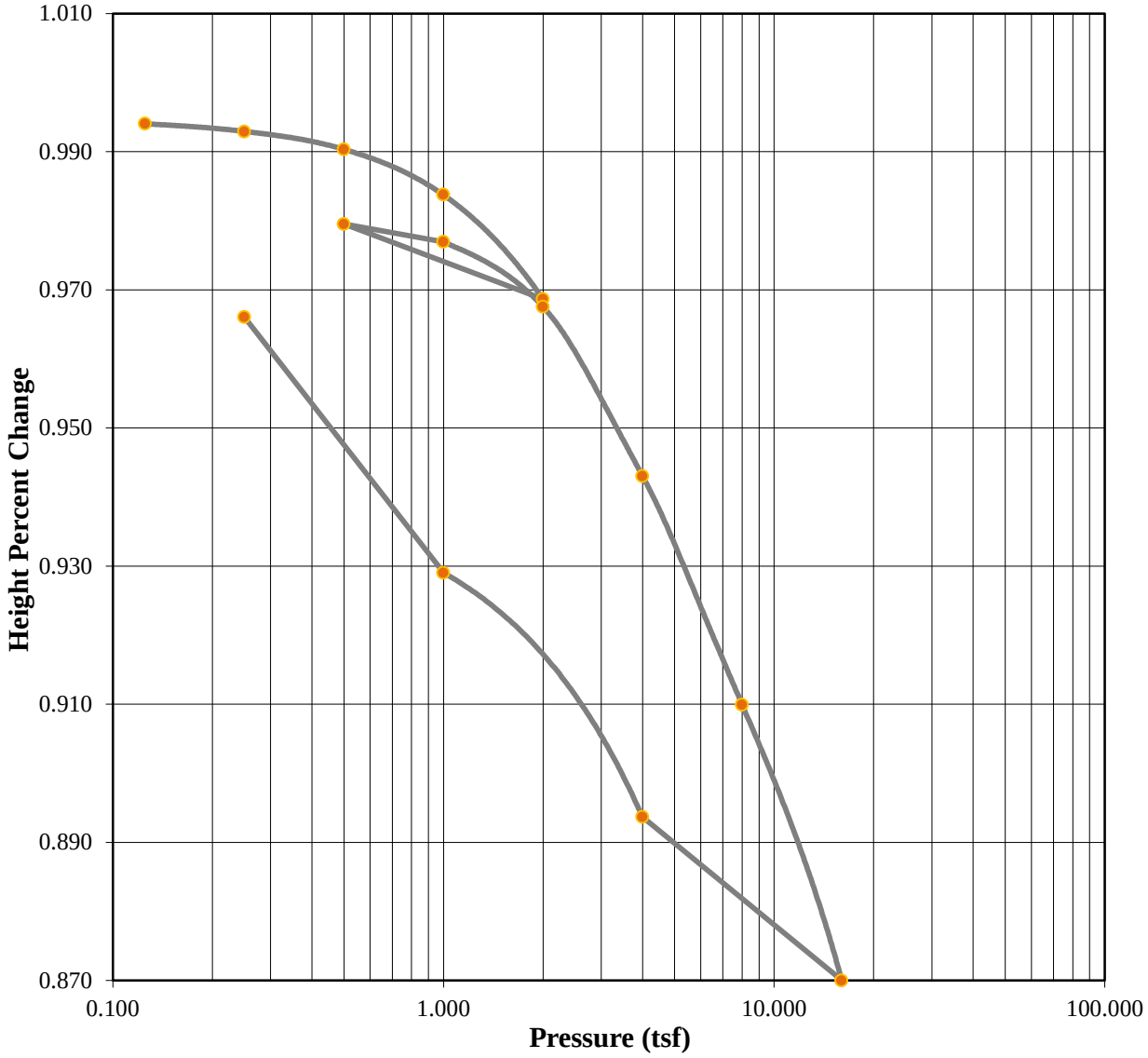
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.39	29.01	**Liquid Limits:**	65	**Test Date:**	4/12/17
Dry Density (pcf):	93.31	96.34	**Plastic Limits:**	21		
Saturation (%):	106.19	109.42	**Plasticity Index (%):**	0		
Void Ratio:	0.7442	0.6951	**Specific Gravity:**	2.612	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(35))			
Project Number:	7905	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	65	**Test Date:**	4/12/17
Moisture (%):	30.39	29.01	**Plastic Limits:**	21		
Dry Density (pcf):	93.31	96.34	**Plasticity Index (%):**	0		
Saturation (%):	106.19	109.42				
Void Ratio:	0.7442	0.6951	**Specific Gravity:**	2.612	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(35))			
Project Number:	7905	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7905

Sample Number: T-2
Boring Number: BW-4
Depth: 28.0-30.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(35))
Remarks:

Test Number:
Test Date: 4/12/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.4242	0.00	0.7444	0.000	0.000	0.000	0.000
1	0.125	0.0000	0.9940	0.4242	0.00	0.7444	0.000	0.000	0.000	0.000
2	0.250	0.0011	0.9929	0.4230	0.11	0.7424	0.000	0.000	0.000	0.000
3	0.500	0.0037	0.9903	0.4205	0.37	0.7379	11.580	* 6.4334	65.531	27.402
4	1.000	0.0103	0.9837	0.4139	1.03	0.7264	0.631	3.738	1185.950	46.538
5	2.000	0.0254	0.9686	0.3988	2.55	0.6999	1.433	12.501	506.477	13.492
6	0.500	0.0145	0.9795	0.4096	1.46	0.7189	0.000	0.000	0.000	0.000
7	1.000	0.0171	0.9769	0.4071	1.72	0.7144	22.969	5.023	32.150	34.156
8	2.000	0.0265	0.9675	0.3977	2.67	0.6979	8.271	6.903	87.569	24.374
9	4.000	0.0510	0.9430	0.3731	5.13	0.6548	1.407	11.146	489.025	14.340
10	8.000	0.0841	0.9099	0.3401	8.46	0.5968	40.340	18.440	15.880	8.071
11	16.000	0.1240	0.8700	0.3001	12.48	0.5267	56.743	18.334	10.321	7.421
12	4.000	0.1004	0.8936	0.3238	10.10	0.5683	0.000	0.000	0.000	0.000
13	1.000	0.0650	0.9290	0.3592	6.54	0.6303	0.000	0.000	0.000	0.000
14	0.250	0.0280	0.9660	0.3962	2.82	0.6953	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7905
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 4/12/17

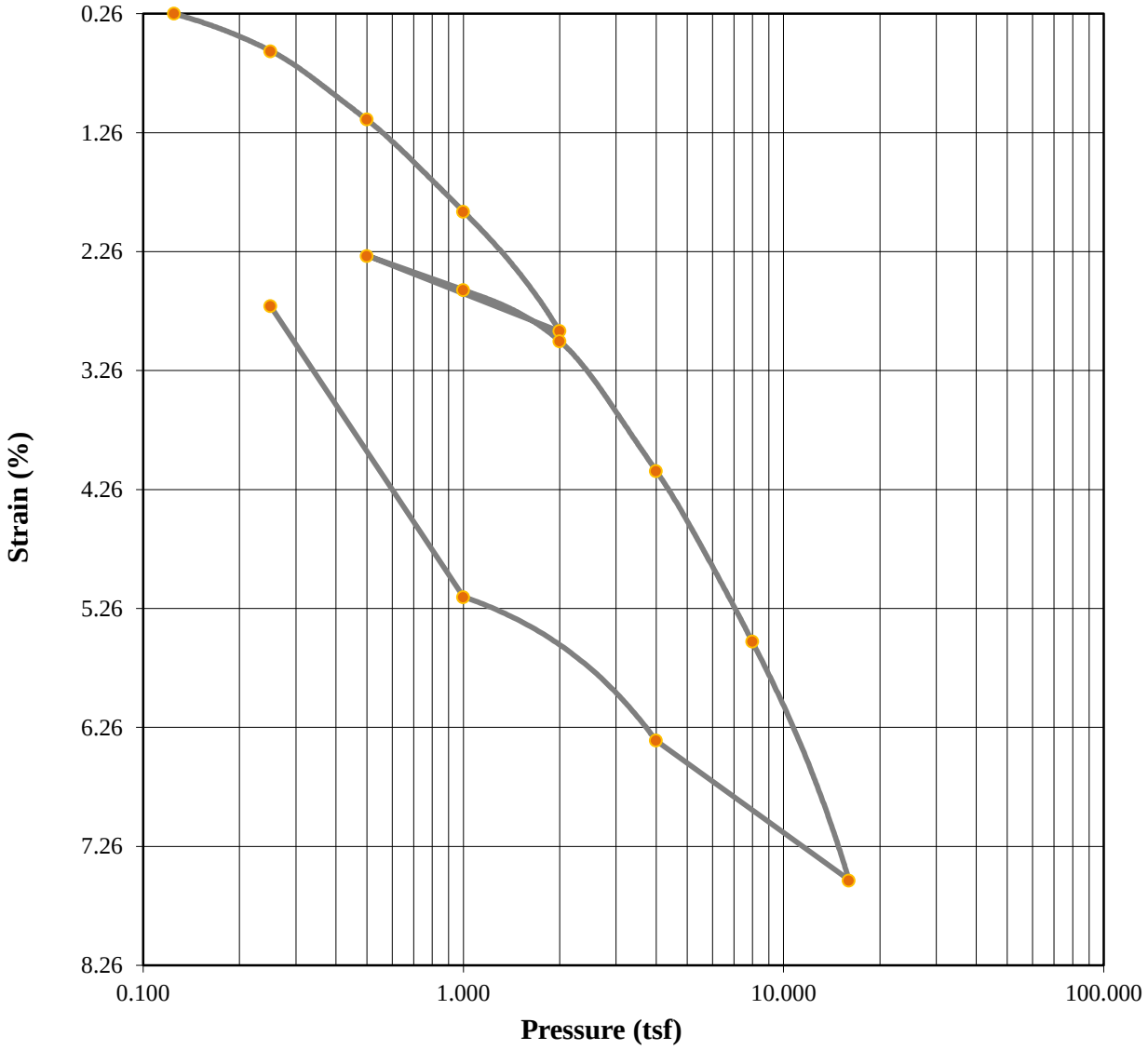
Sample Number: T-2 **Sample Description:**
Boring Number: BW-4 FAT CLAY with SAND(CH A-7-6(35))
Depth: 28.0-30.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 65.0000 **Initial Void Ratio:** 0.7442 **Initial Height (in):** 0.9940
Plastic Limit: 21.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.6120 Measured **Weight of Ring (g):** 98.6800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	173.32	282.94
Dry Soil + Container (g)	140.39	248.26
Weight of Container (g)	32.04	128.73
Moisture Content (%)	30.39	29.01
Void Ratio	0.7442	0.6951
Saturation (%)	106.19	109.42
Dry Density (pcf)	93.31	96.34

Tested By: B. Hak **Checked By:** C. Dugger

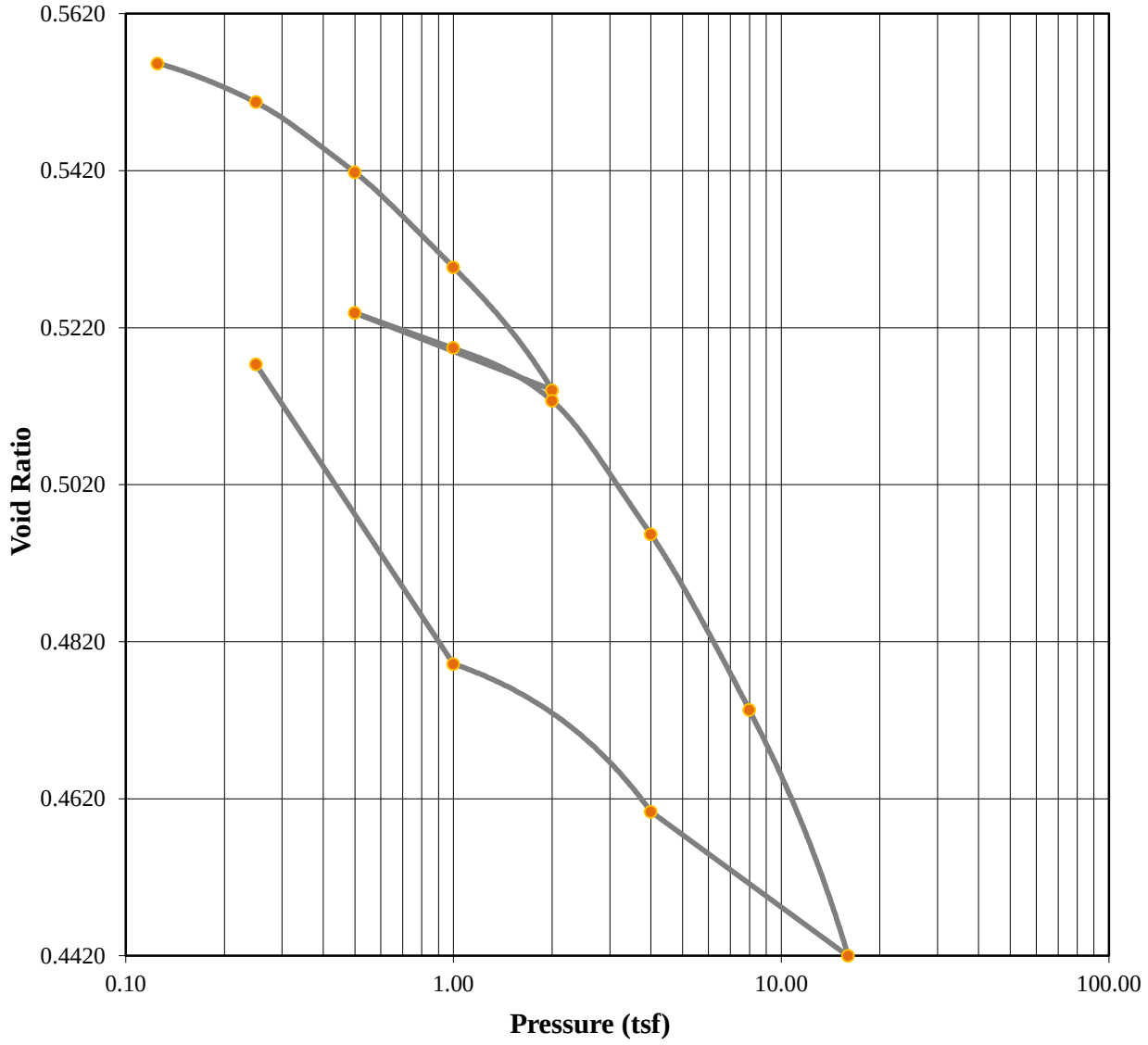
Consolidation Test
Test Results



	Before	After				
Moisture (%):	21.31	21.11	**Liquid Limits:**	32	**Test Date:**	4/24/17
Dry Density (pcf):	103.00	106.82	**Plastic Limits:**	13		
Saturation (%):	97.67	107.41	**Plasticity Index (%):**	0		
Void Ratio:	0.5614	0.5189	**Specific Gravity:**	2.578	Measured	

Sample Description:	LEAN CLAY with SAND(CL A-6(12))			
Project Number:	7905	**Depth:**	128.0-130.0 f	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

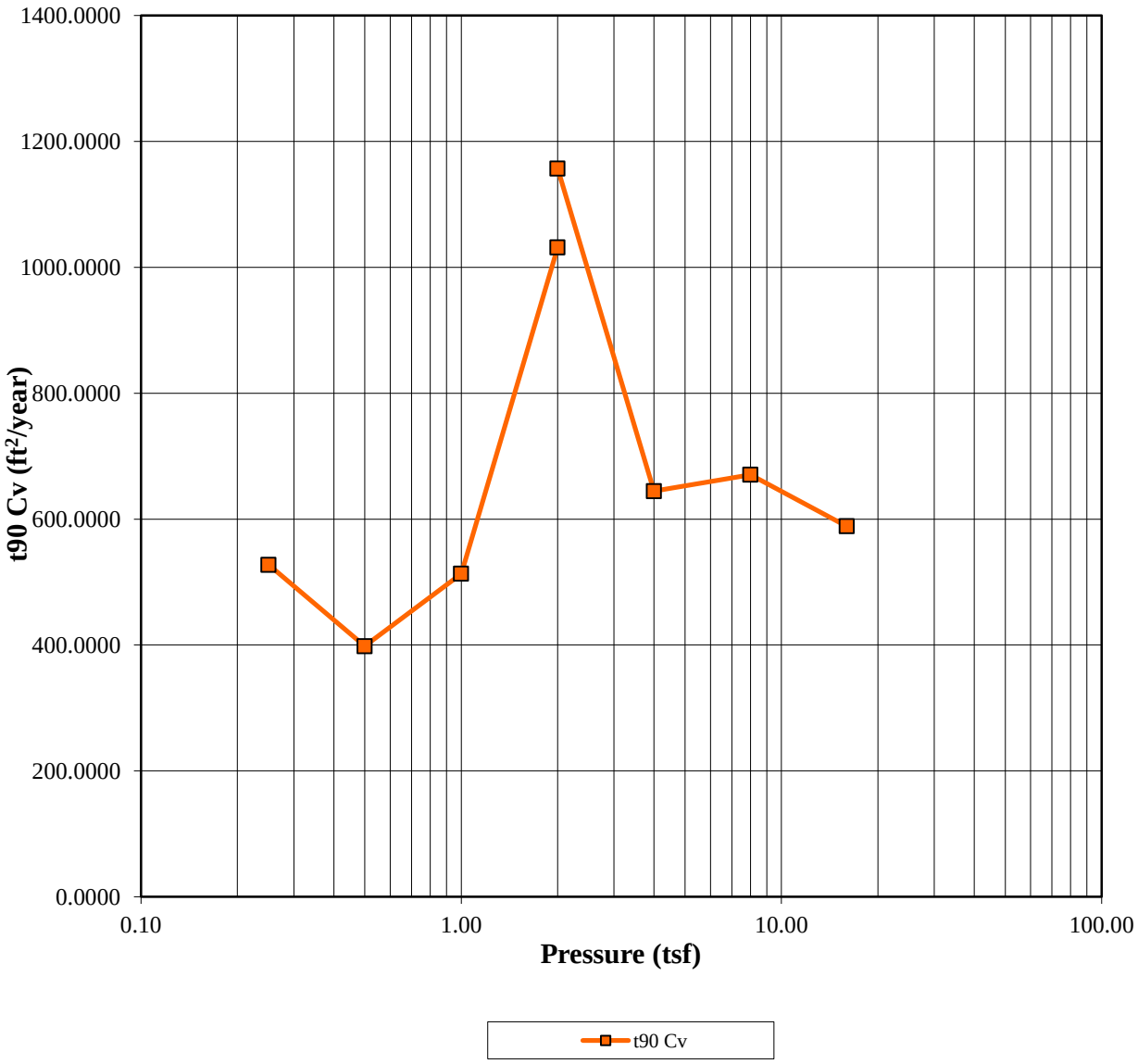
Consolidation Test
Test Results



	Before	After				
Moisture (%):	21.31	21.11	**Liquid Limits:**	32	**Test Date:**	4/24/17
Dry Density (pcf):	103.00	106.82	**Plastic Limits:**	13		
Saturation (%):	97.67	107.41	**Plasticity Index (%):**	0		
Void Ratio:	0.5614	0.5189	**Specific Gravity:**	2.578	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(12))			
Project Number:	7905	**Depth:**	128.0-130.0 f	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

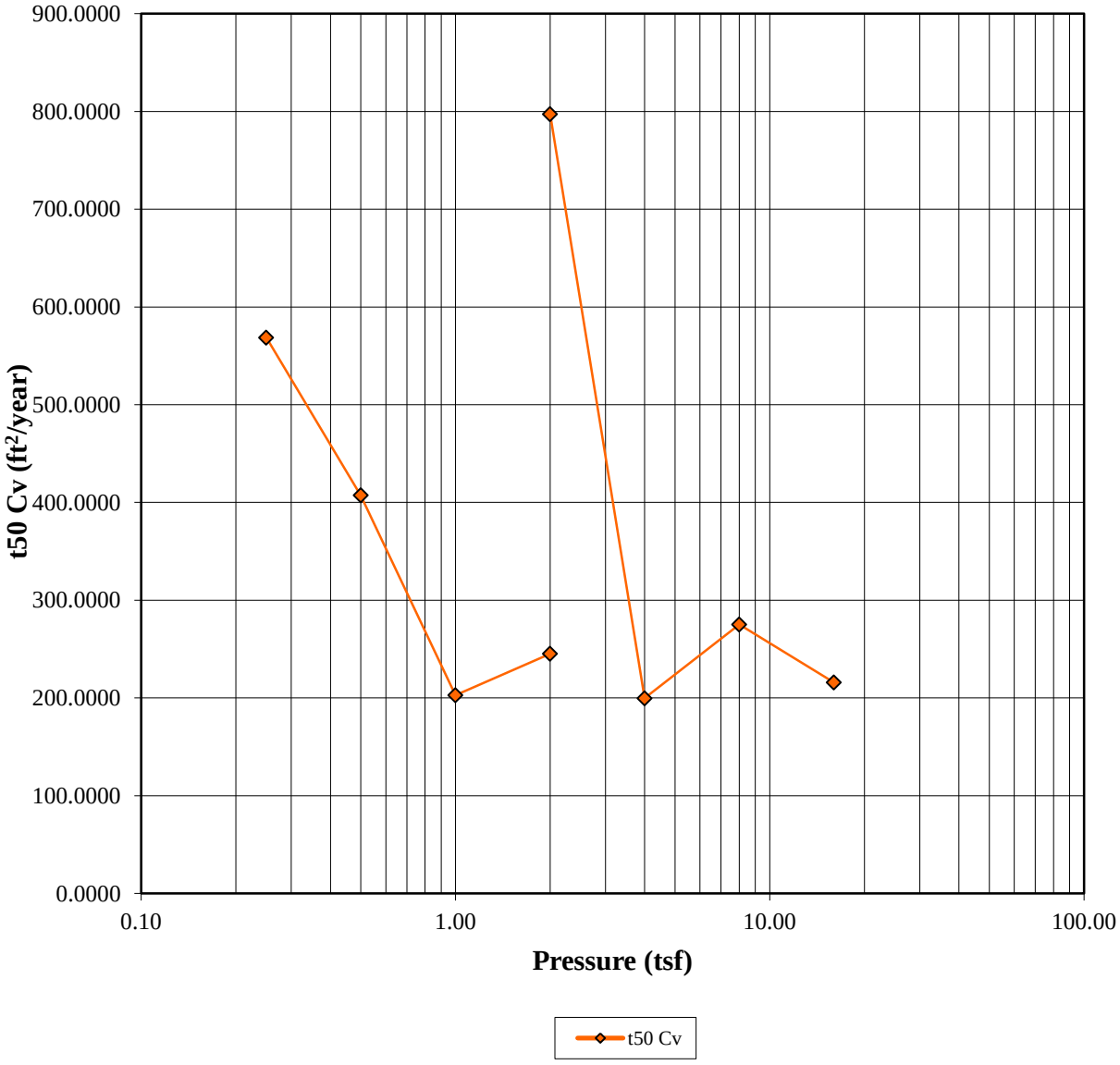
Consolidation Test
Test Results



	Before	After				
Moisture (%):	21.31	21.11	**Liquid Limits:**	32	**Test Date:**	4/24/17
Dry Density (pcf):	103.00	106.82	**Plastic Limits:**	13		
Saturation (%):	97.67	107.41	**Plasticity Index (%):**	0		
Void Ratio:	0.5614	0.5189	**Specific Gravity:**	2.578	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(12))			
Project Number:	7905	**Depth:**	128.0-130.0 f	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

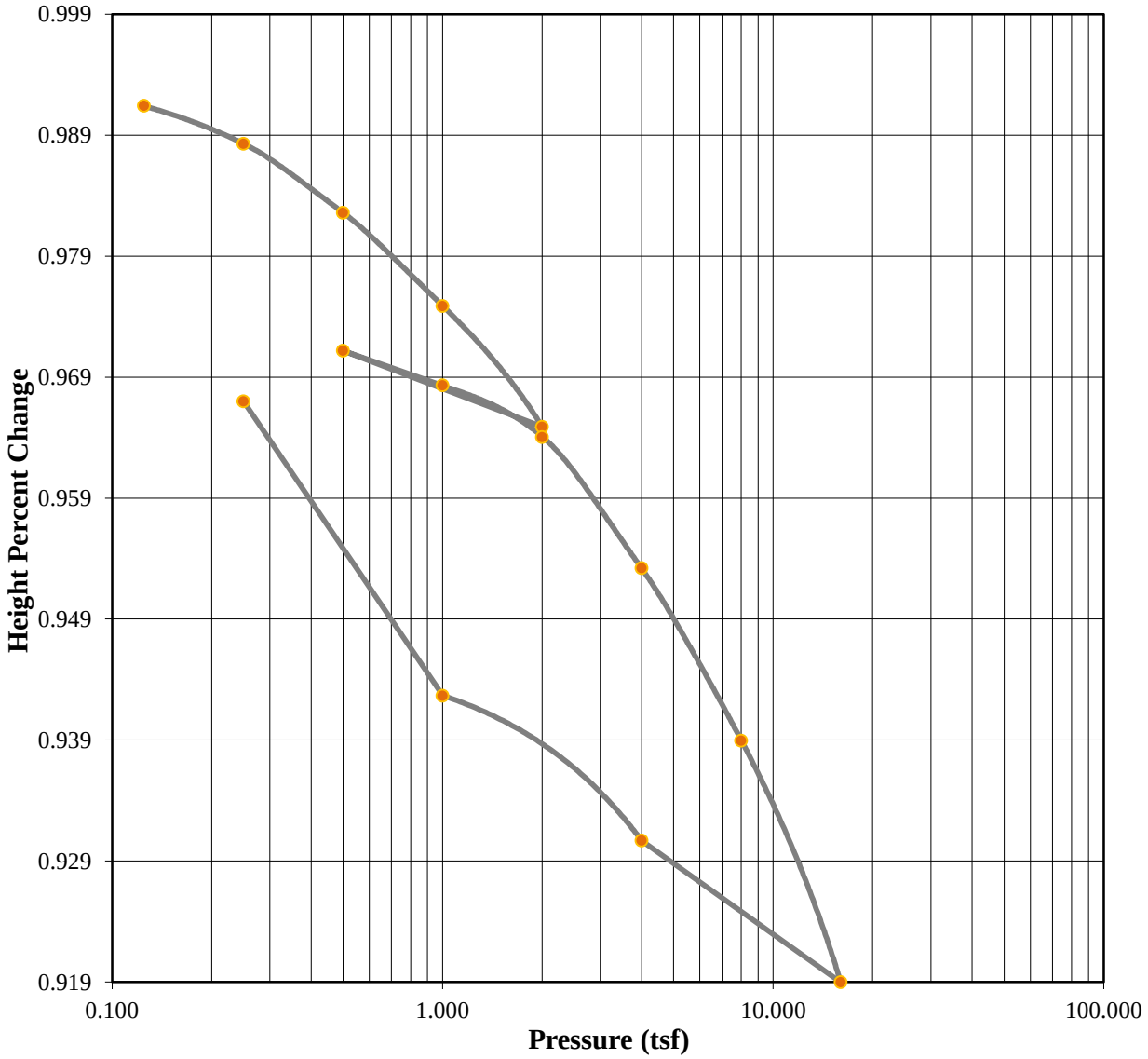
Consolidation Test
Test Results



	Before	After				
Moisture (%):	21.31	21.11	**Liquid Limits:**	32	**Test Date:**	4/24/17
Dry Density (pcf):	103.00	106.82	**Plastic Limits:**	13		
Saturation (%):	97.67	107.41	**Plasticity Index (%):**	0		
Void Ratio:	0.5614	0.5189	**Specific Gravity:**	2.578	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(12))			
Project Number:	7905	**Depth:**	128.0-130.0 f	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	21.31	21.11	**Liquid Limits:**	32	**Test Date:**	4/24/17
Dry Density (pcf):	103.00	106.82	**Plastic Limits:**	13		
Saturation (%):	97.67	107.41	**Plasticity Index (%):**	0		
Void Ratio:	0.5614	0.5189	**Specific Gravity:**	2.578	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(12))			
Project Number:	7905	**Depth:**	128.0-130.0 f	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-4	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7905

Sample Number: T-3
Boring Number: BW-4
Depth: 128.0-130.0 ft.
Sample Type: Undisturbed

Sample Description: LEAN CLAY with SAND(CL A-6(12))
Remarks:

Test Number:
Test Date: 4/24/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.3567	0.00	0.5597	0.000	0.000	0.000	0.000
1	0.125	0.0026	0.9914	0.3541	0.26	0.5557	0.000	0.000	0.000	0.000
2	0.250	0.0057	0.9883	0.3510	0.57	0.5507	1.432	0.309	527.641	568.702
3	0.500	0.0114	0.9826	0.3453	1.15	0.5418	1.876	0.426	398.302	407.238
4	1.000	0.0191	0.9749	0.3376	1.92	0.5297	1.433	0.842	513.347	202.891
5	2.000	0.0291	0.9649	0.3276	2.93	0.5141	0.698	0.683	1031.709	245.133
6	0.500	0.0228	0.9712	0.3339	2.29	0.5239	0.000	0.000	0.000	0.000
7	1.000	0.0257	0.9683	0.3310	2.58	0.5194	0.000	0.000	0.000	0.000
8	2.000	0.0299	0.9641	0.3268	3.01	0.5127	0.622	0.210	1157.065	797.285
9	4.000	0.0408	0.9532	0.3159	4.10	0.4957	1.091	0.818	644.687	199.714
10	8.000	0.0550	0.9390	0.3017	5.54	0.4733	1.018	0.576	670.507	275.014
11	16.000	0.0750	0.9190	0.2817	7.54	0.4420	1.110	0.704	588.776	215.775
12	4.000	0.0633	0.9307	0.2934	6.37	0.4604	0.000	0.000	0.000	0.000
13	1.000	0.0513	0.9427	0.3054	5.16	0.4792	0.000	0.000	0.000	0.000
14	0.250	0.0270	0.9670	0.3297	2.72	0.5173	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7905
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 4/24/17

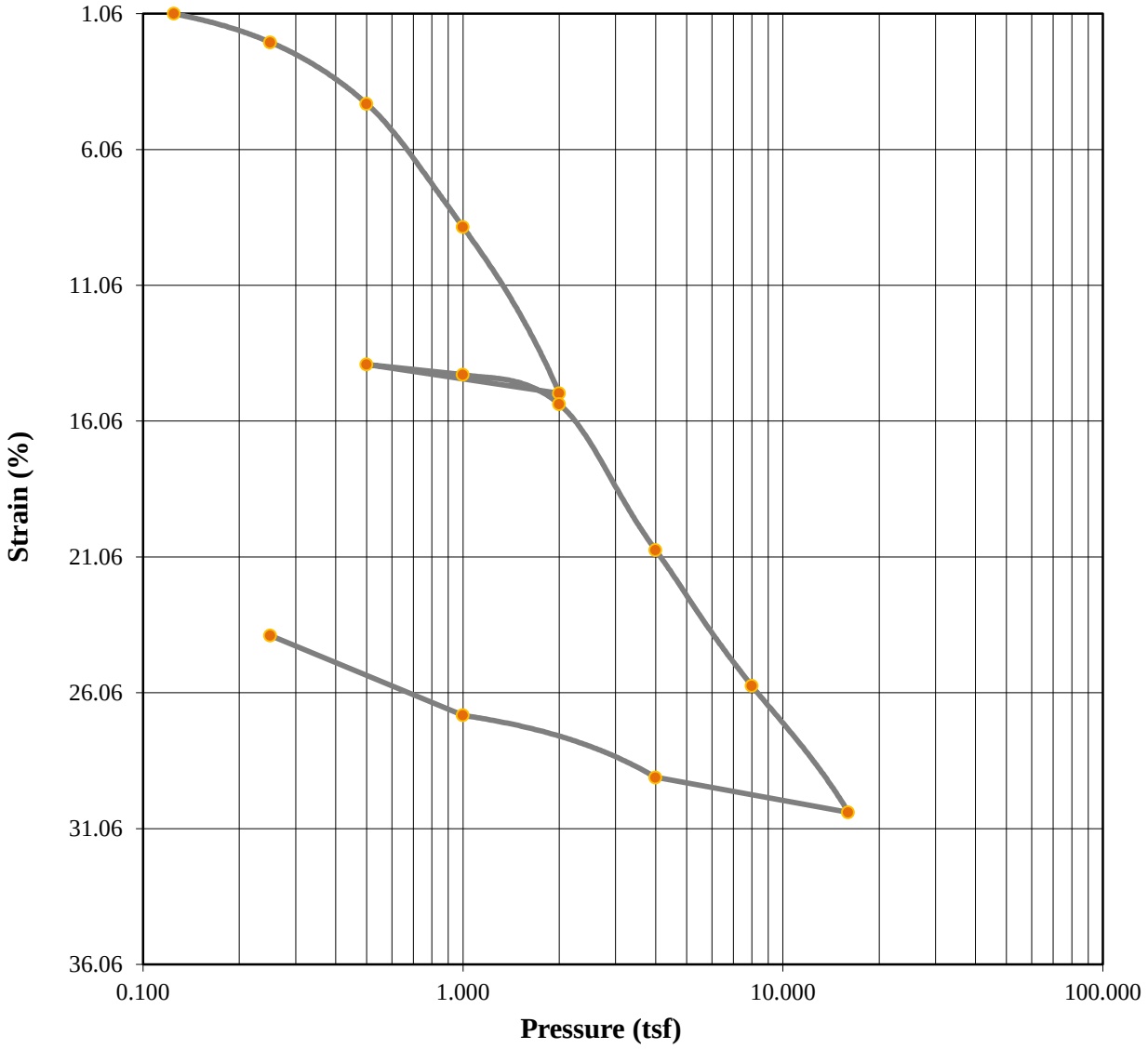
Sample Number: T-3 **Sample Description:**
Boring Number: BW-4 LEAN CLAY with SAND(CL A-6(12))
Depth: 128.0-130.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 32.0000 **Initial Void Ratio:** 0.5614 **Initial Height (in):** 0.9940
Plastic Limit: 13.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.5780 **Weight of Ring (g):** 98.6700
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	142.53	294.26
Dry Soil + Container (g)	123.13	266.20
Weight of Container (g)	32.11	133.26
Moisture Content (%)	21.31	21.11
Void Ratio	0.5614	0.5189
Saturation (%)	97.67	107.41
Dry Density (pcf)	103.00	106.82

Tested By: B. Hak **Checked By:** C. Dugger

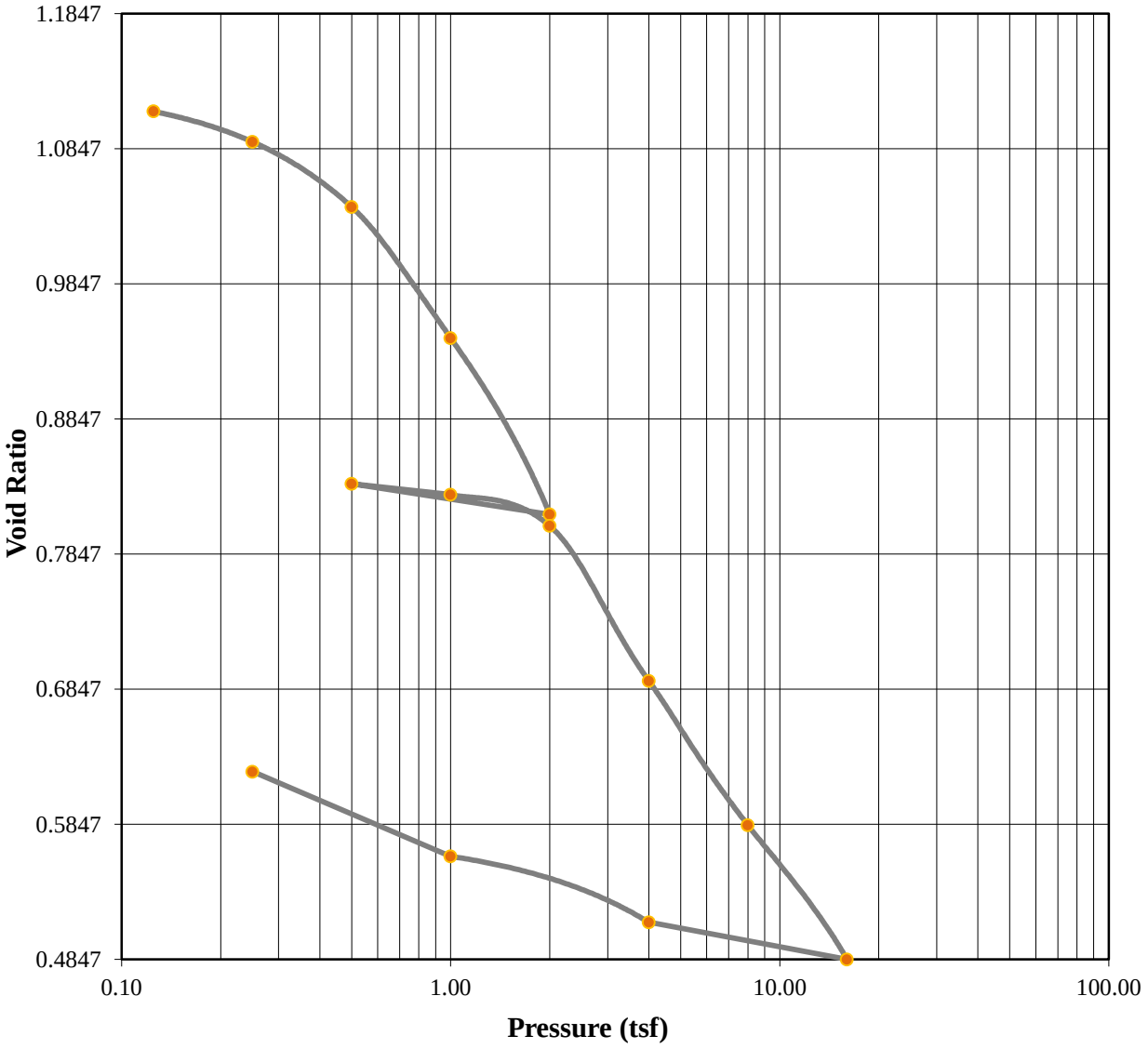
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	50	**Test Date:**	5/6/17
Moisture (%):	40.81	23.96	**Plastic Limits:**	18		
Dry Density (pcf):	79.60	104.53	**Plasticity Index (%):**	0		
Saturation (%):	97.73	103.95				
Void Ratio:	1.1396	0.6272	**Specific Gravity:**	2.727	Measured	

Sample Description:	SANDY FAT CLAY(CH A-7-6(14))			
Project Number:	7928	**Depth:**	23.0-25.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-9	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

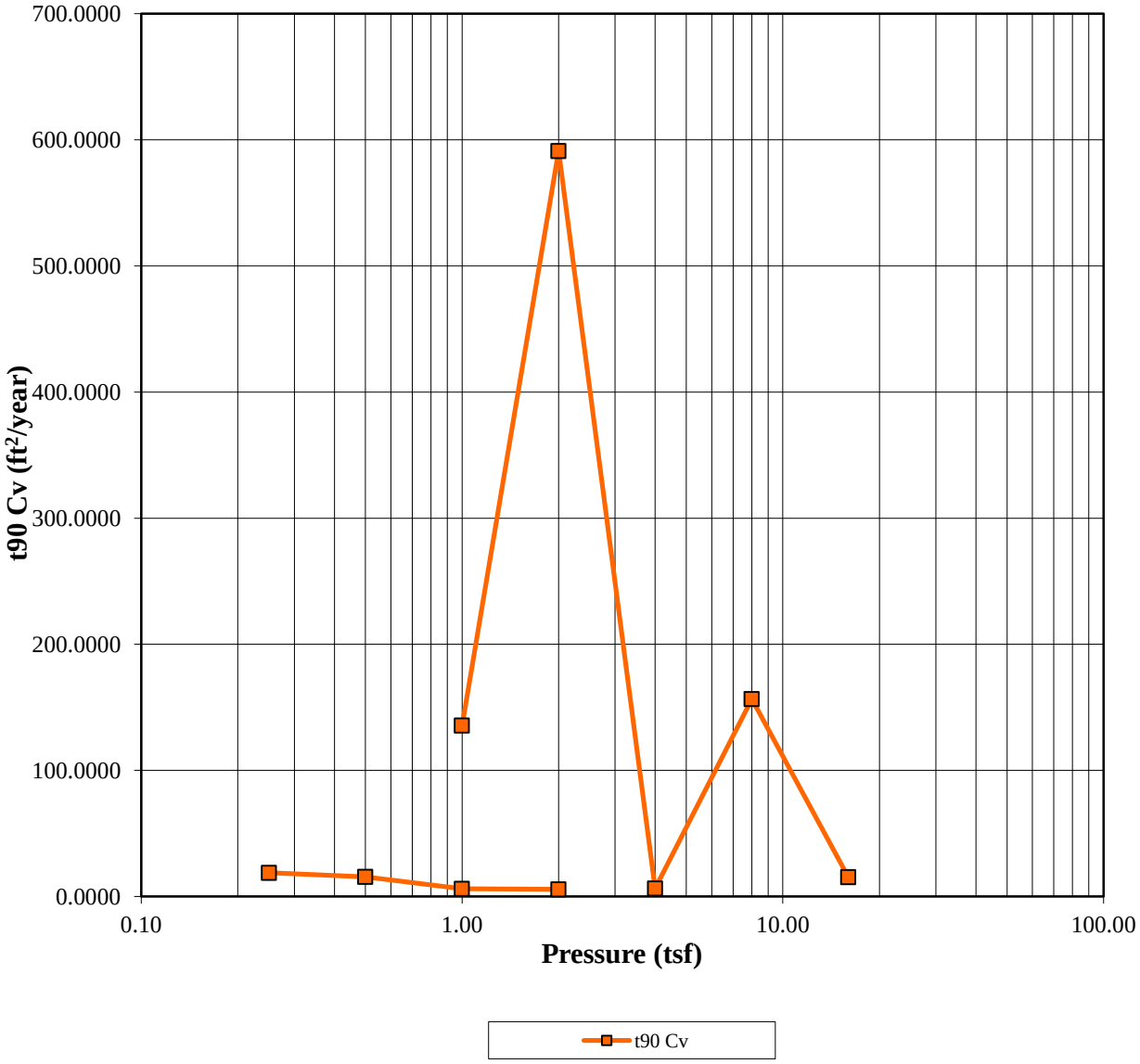


	Before	After				
Moisture (%):	40.81	23.96	**Liquid Limits:**	50	**Test Date:**	5/6/17
Dry Density (pcf):	79.60	104.53	**Plastic Limits:**	18		
Saturation (%):	97.73	103.95	**Plasticity Index (%):**	0		
Void Ratio:	1.1396	0.6272	**Specific Gravity:**	2.727	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(14))			
Project Number:	7928	**Depth:**	23.0-25.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-9	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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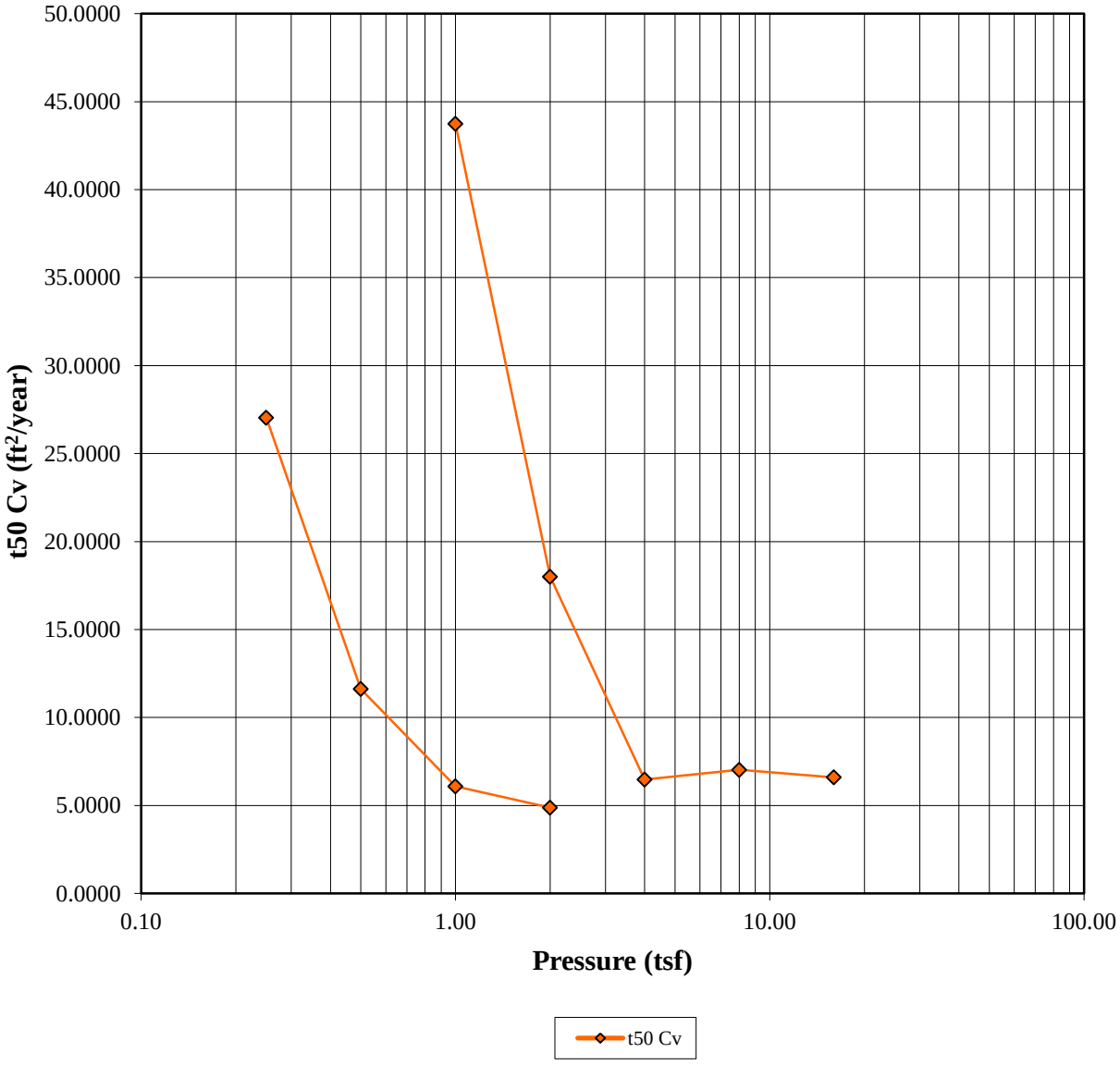
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	50	**Test Date:**	5/6/17
Moisture (%):	40.81	23.96	**Plastic Limits:**	18		
Dry Density (pcf):	79.60	104.53	**Plasticity Index (%):**	0		
Saturation (%):	97.73	103.95				
Void Ratio:	1.1396	0.6272	**Specific Gravity:**	2.727	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(14))			
Project Number:	7928	**Depth:**	23.0-25.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-9	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

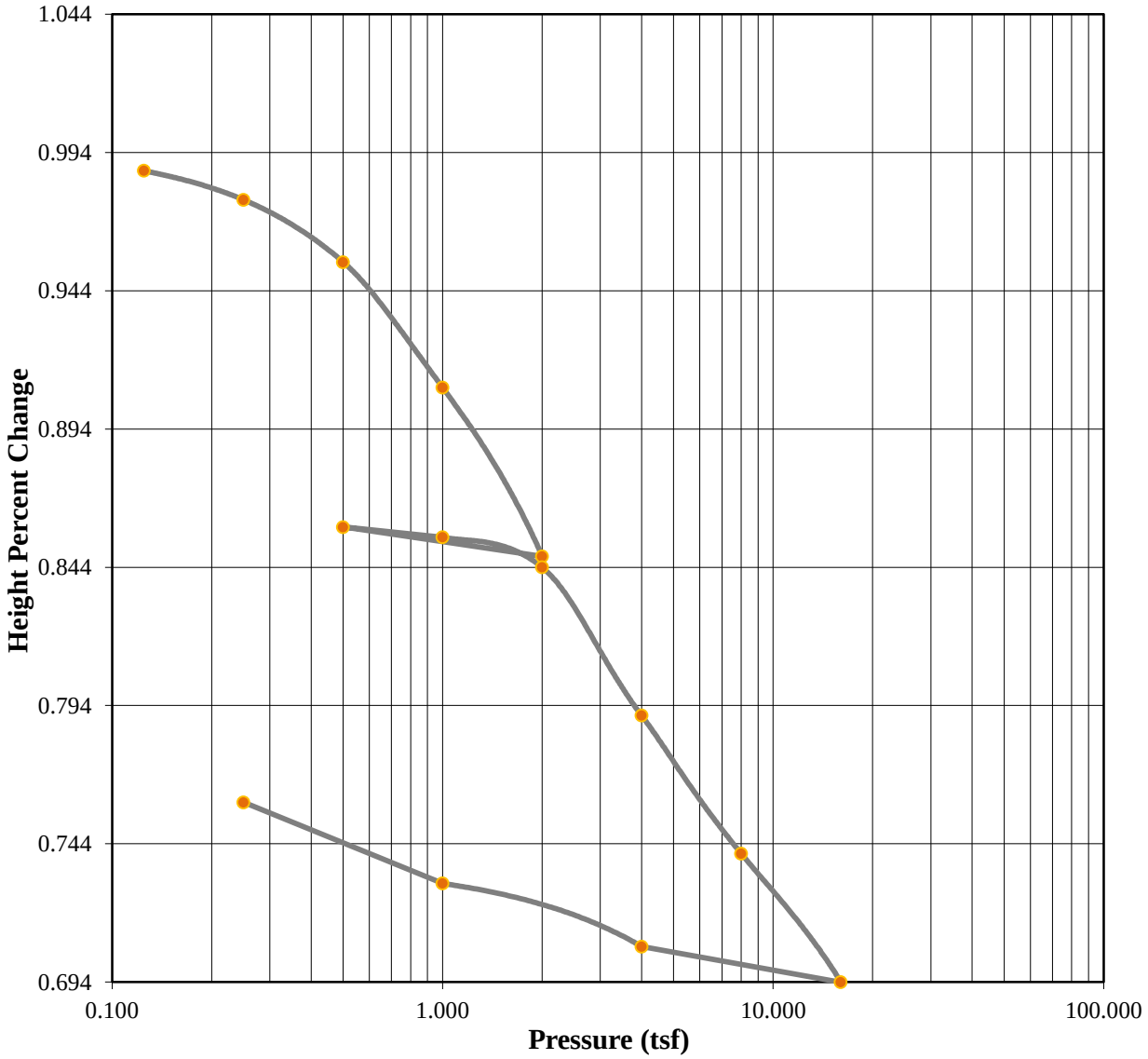
Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.81	23.96	**Liquid Limits:**	50	**Test Date:**	5/6/17
Dry Density (pcf):	79.60	104.53	**Plastic Limits:**	18		
Saturation (%):	97.73	103.95	**Plasticity Index (%):**	0		
Void Ratio:	1.1396	0.6272	**Specific Gravity:**	2.727	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(14))			
Project Number:	7928	**Depth:**	23.0-25.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-9	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.81	23.96	**Liquid Limits:**	50	**Test Date:**	5/6/17
Dry Density (pcf):	79.60	104.53	**Plastic Limits:**	18		
Saturation (%):	97.73	103.95	**Plasticity Index (%):**	0		
Void Ratio:	1.1396	0.6272	**Specific Gravity:**	2.727	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(14))			
Project Number:	7928	**Depth:**	23.0-25.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-9	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-1
Boring Number: BW-9
Depth: 23.0-25.0 ft.
Sample Type: Undisturbed

Sample Description: SANDY FAT CLAY(CH A-7-6(14))
Remarks:

Test Number:
Test Date: 5/6/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.5305	0.00	1.1350	0.000	0.000	0.000	0.000
1	0.125	0.0106	0.9874	0.5200	1.06	1.1124	0.000	0.000	0.000	0.000
2	0.250	0.0211	0.9769	0.5094	2.11	1.0898	39.319	6.344	18.781	27.041
3	0.500	0.0436	0.9544	0.4869	4.37	1.0416	45.206	14.095	15.591	11.616
4	1.000	0.0890	0.9090	0.4416	8.91	0.9446	103.609	24.403	6.172	6.087
5	2.000	0.1500	0.8480	0.3806	15.03	0.8141	99.786	26.509	5.577	4.877
6	0.500	0.1394	0.8586	0.3911	13.97	0.8367	0.000	0.000	0.000	0.000
7	1.000	0.1431	0.8549	0.3874	14.34	0.8287	4.168	3.003	135.671	43.749
8	2.000	0.1540	0.8440	0.3766	15.43	0.8056	0.932	7.113	591.240	18.003
9	4.000	0.2076	0.7904	0.3230	20.80	0.6909	76.161	17.364	6.348	6.468
10	8.000	0.2575	0.7405	0.2731	25.80	0.5841	2.708	14.034	156.667	7.024
11	16.000	0.3040	0.6940	0.2266	30.46	0.4847	24.123	13.117	15.451	6.601
12	4.000	0.2911	0.7069	0.2394	29.17	0.5122	0.000	0.000	0.000	0.000
13	1.000	0.2683	0.7297	0.2622	26.89	0.5610	0.000	0.000	0.000	0.000
14	0.250	0.2390	0.7590	0.2915	23.95	0.6237	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 5/6/17

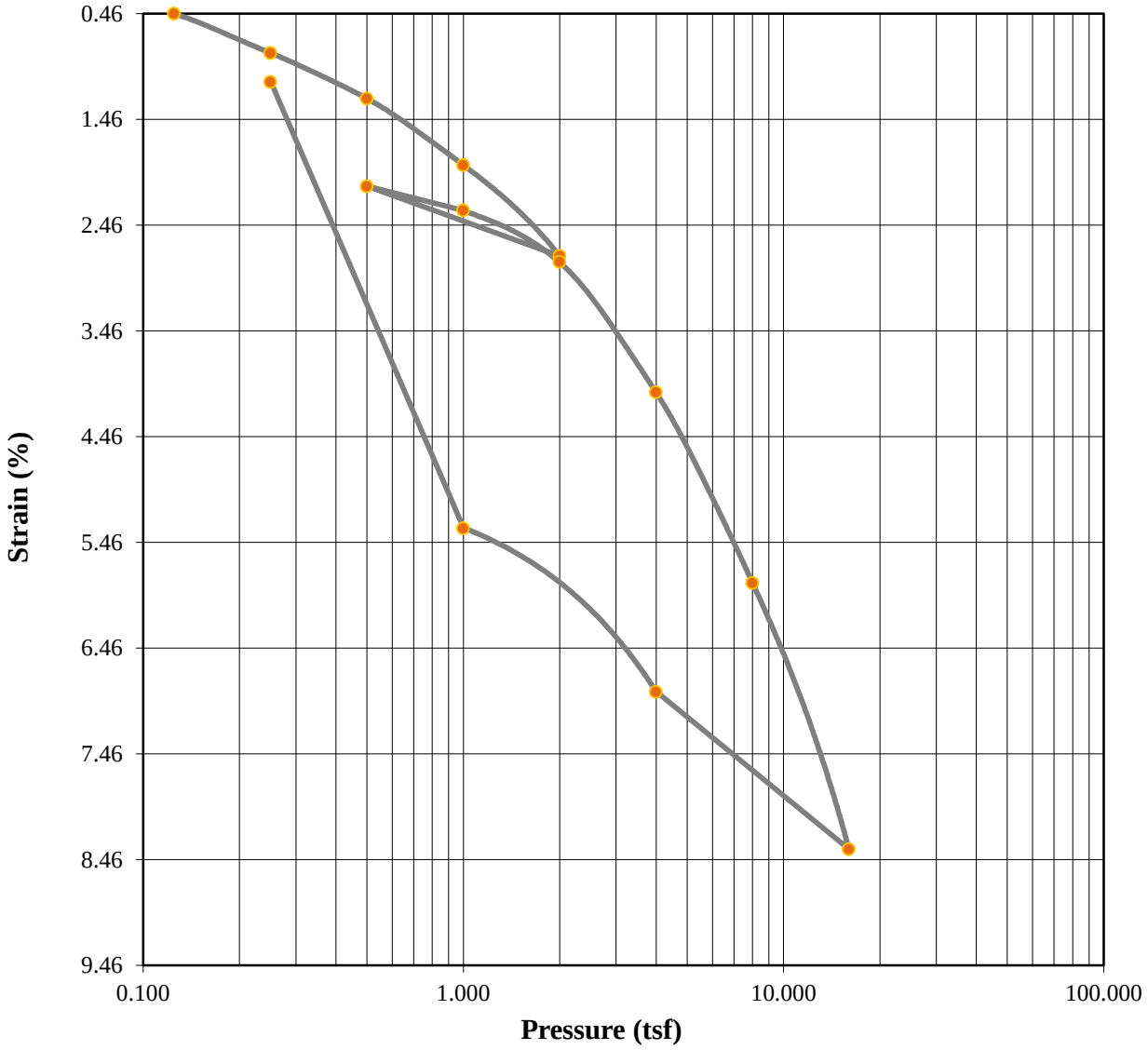
Sample Number: T-1 **Sample Description:**
Boring Number: BW-9 SANDY FAT CLAY(CH A-7-6(14))
Depth: 23.0-25.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 50.0000 **Initial Void Ratio:** 1.1396 **Initial Height (in):** 0.9980
Plastic Limit: 18.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5020
Specific Gravity: 2.7270 Measured **Weight of Ring (g):** 110.7500

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	141.28	250.87
Dry Soil + Container (g)	109.57	226.46
Weight of Container (g)	31.87	124.59
Moisture Content (%)	40.81	23.96
Void Ratio	1.1396	0.6272
Saturation (%)	97.73	103.95
Dry Density (pcf)	79.60	104.53

Tested By: B. Hak **Checked By:** C. Dugger

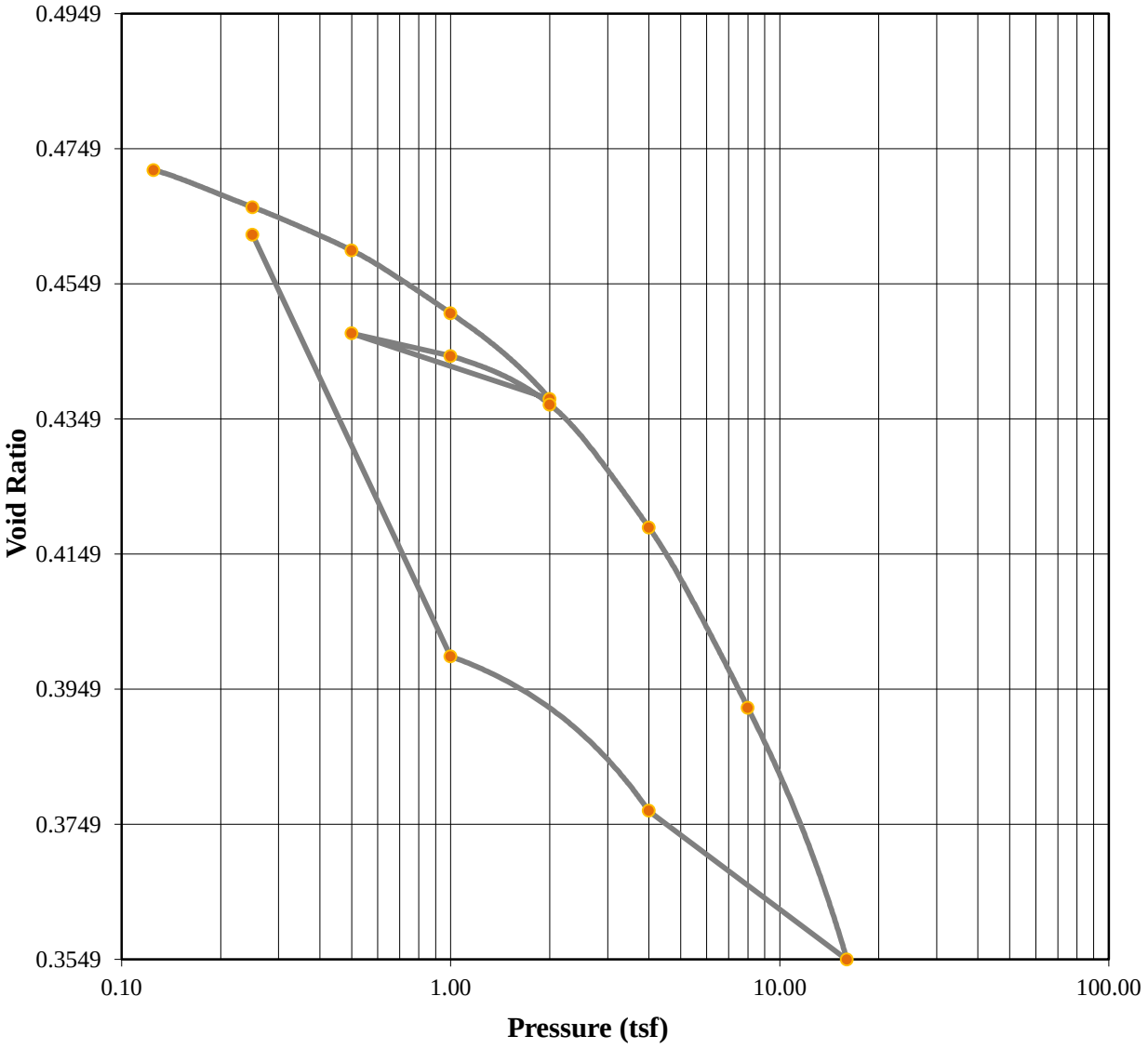
Consolidation Test
Test Results



	Before	After				
Moisture (%):	17.85	19.16	**Liquid Limits:**	40	**Test Date:**	5/3/17
Dry Density (pcf):	111.18	111.81	**Plastic Limits:**	14		
Saturation (%):	97.86	106.88	**Plasticity Index (%):**	0		
Void Ratio:	0.4812	0.4649	**Specific Gravity:**	2.638	Measured	

Sample Description:	SANDY LEAN CLAY(CL A-6(16))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

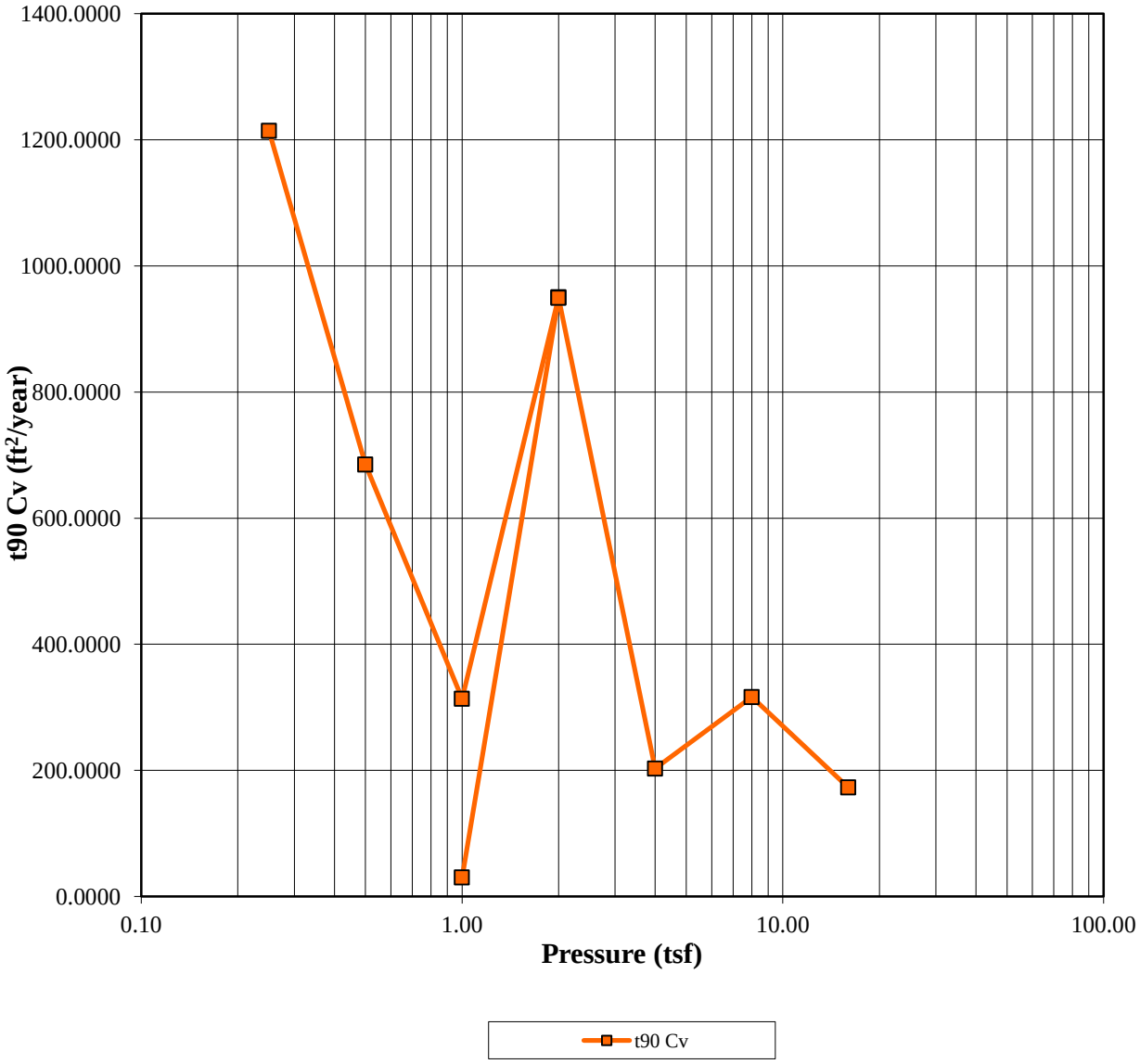
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	40	**Test Date:**	5/3/17
Moisture (%):	17.85	19.16	**Plastic Limits:**	14		
Dry Density (pcf):	111.18	111.81	**Plasticity Index (%):**	0		
Saturation (%):	97.86	106.88				
Void Ratio:	0.4812	0.4649	**Specific Gravity:**	2.638	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(16))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

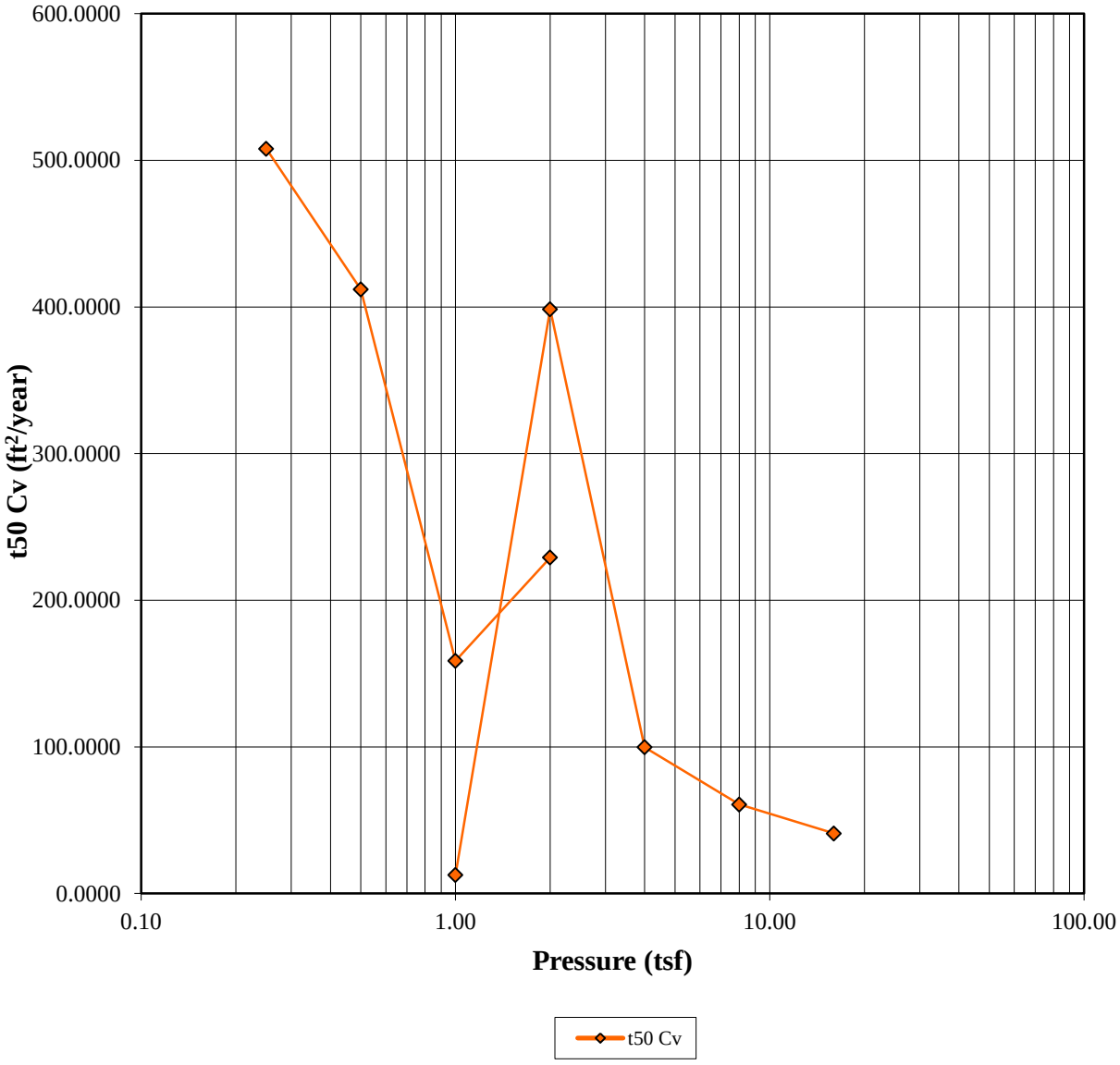
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	40	**Test Date:**	5/3/17
Moisture (%):	17.85	19.16	**Plastic Limits:**	14		
Dry Density (pcf):	111.18	111.81	**Plasticity Index (%):**	0		
Saturation (%):	97.86	106.88				
Void Ratio:	0.4812	0.4649	**Specific Gravity:**	2.638	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(16))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

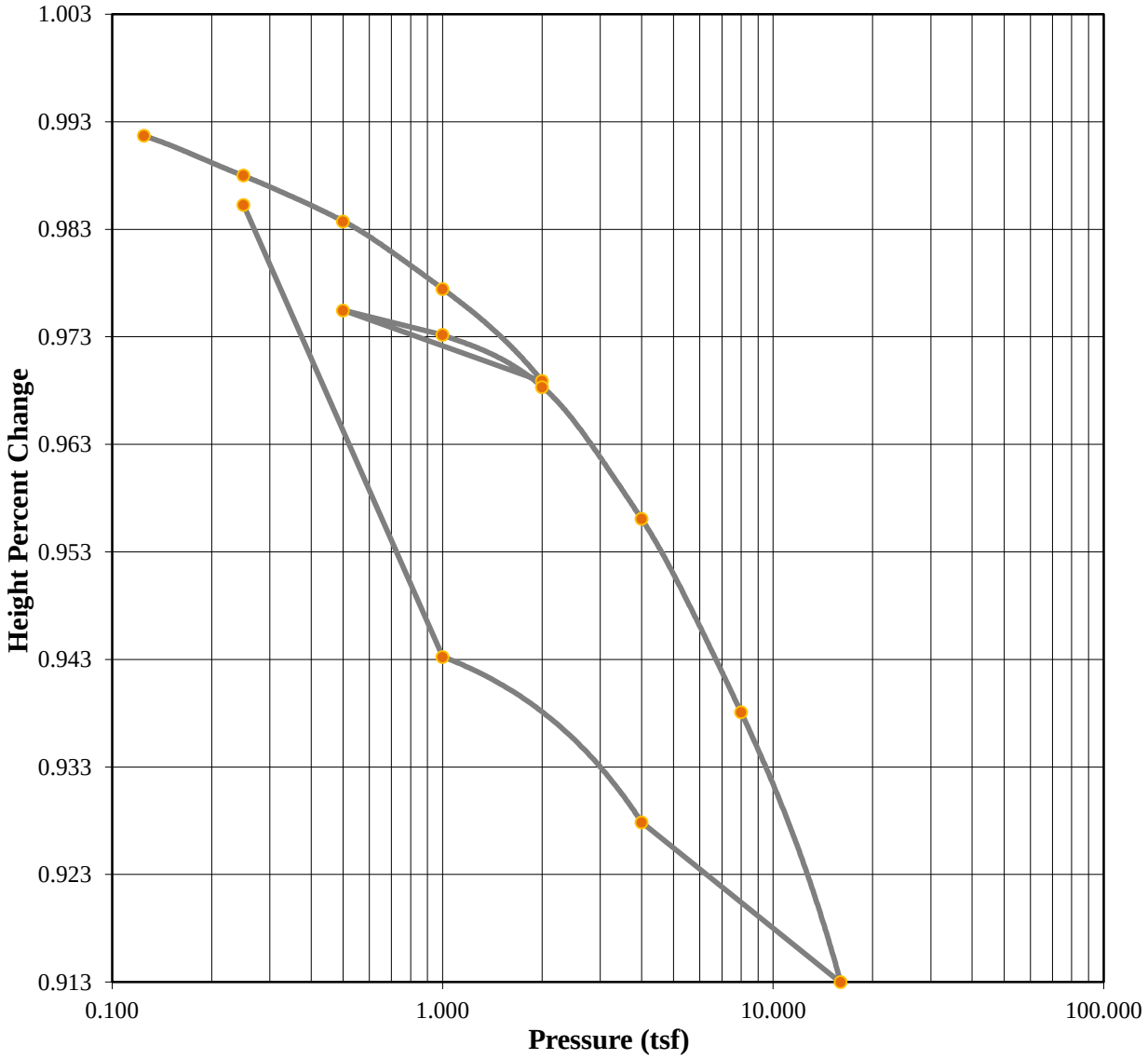
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	40	**Test Date:**	5/3/17
Moisture (%):	17.85	19.16	**Plastic Limits:**	14		
Dry Density (pcf):	111.18	111.81	**Plasticity Index (%):**	0		
Saturation (%):	97.86	106.88				
Void Ratio:	0.4812	0.4649	**Specific Gravity:**	2.638	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(16))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	17.85	19.16	**Liquid Limits:**	40	**Test Date:**	5/3/17
Dry Density (pcf):	111.18	111.81	**Plastic Limits:**	14		
Saturation (%):	97.86	106.88	**Plasticity Index (%):**	0		
Void Ratio:	0.4812	0.4649	**Specific Gravity:**	2.638	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(16))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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ENGINEERING

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-5
Boring Number: BW-10
Depth: 88.0-90.0 ft.
Sample Type: Undisturbed

Sample Description: SANDY LEAN CLAY(CL A-6(16))
Remarks:

Test Number:
Test Date: 5/3/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9960	0.3224	0.00	0.4785	0.000	0.000	0.000	0.000
1	0.125	0.0046	0.9914	0.3178	0.46	0.4718	0.000	0.000	0.000	0.000
2	0.250	0.0083	0.9877	0.3141	0.83	0.4663	0.622	* 0.3453	1214.582	507.902
3	0.500	0.0125	0.9835	0.3098	1.26	0.4599	1.092	0.422	685.288	412.068
4	1.000	0.0188	0.9772	0.3035	1.89	0.4506	2.355	1.082	313.760	158.652
5	2.000	0.0274	0.9686	0.2950	2.75	0.4379	0.764	0.736	950.472	229.110
6	0.500	0.0208	0.9752	0.3015	2.09	0.4476	0.000	0.000	0.000	0.000
7	1.000	0.0231	0.9729	0.2993	2.32	0.4443	24.262	* 13.4788	30.189	12.624
8	2.000	0.0279	0.9681	0.2944	2.81	0.4371	0.764	0.423	949.352	398.476
9	4.000	0.0402	0.9558	0.2822	4.04	0.4189	3.481	1.646	203.074	99.769
10	8.000	0.0582	0.9378	0.2642	5.84	0.3922	2.150	2.605	316.539	60.696
11	16.000	0.0833	0.9127	0.2391	8.36	0.3549	3.729	3.657	172.891	40.953
12	4.000	0.0684	0.9276	0.2539	6.87	0.3769	0.000	0.000	0.000	0.000
13	1.000	0.0530	0.9430	0.2693	5.32	0.3998	0.000	0.000	0.000	0.000
14	0.250	0.0110	0.9850	0.3114	1.10	0.4622	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 5/3/17

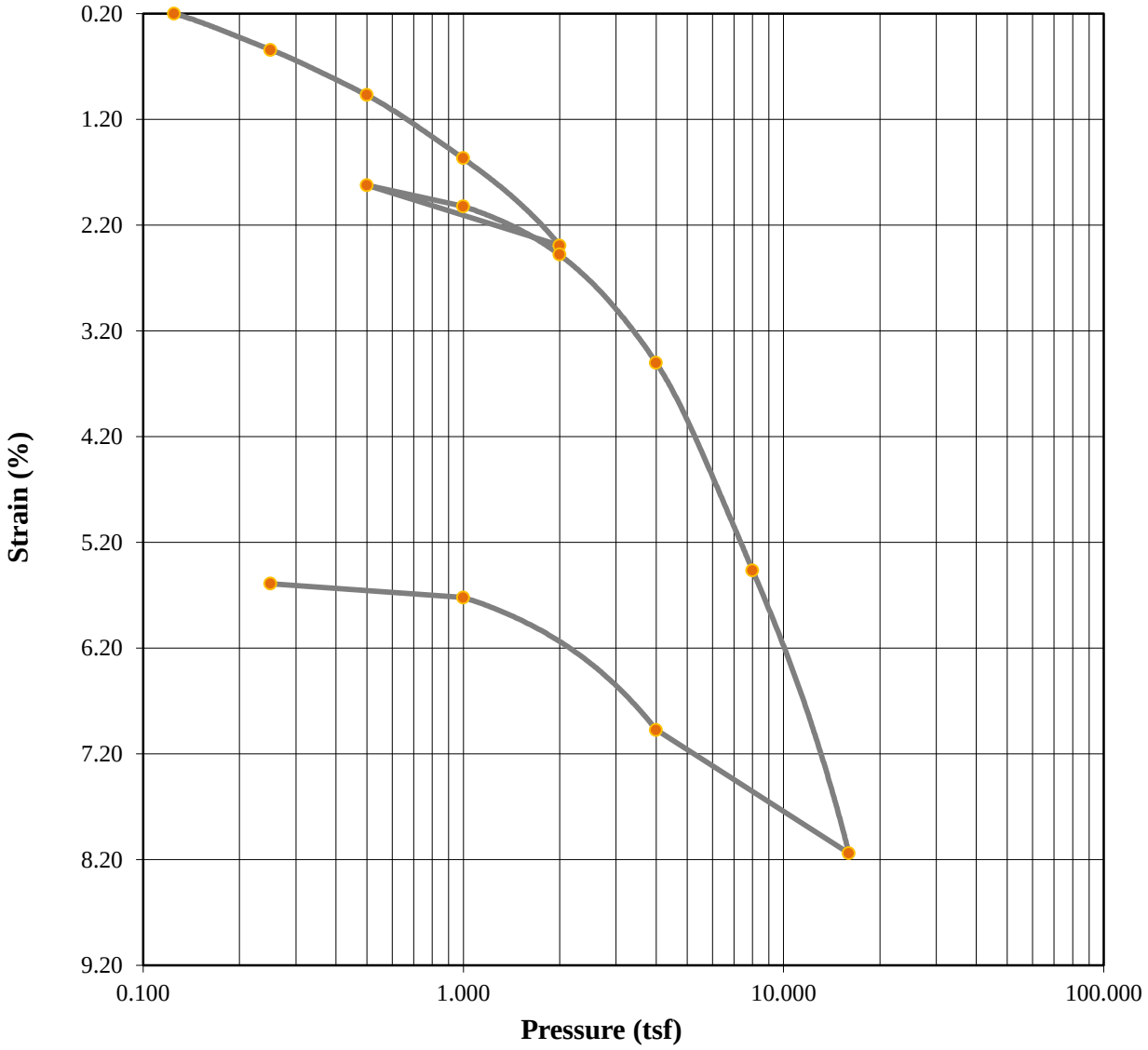
Sample Number: T-5 **Sample Description:**
Boring Number: BW-10 SANDY LEAN CLAY(CL A-6(16))
Depth: 88.0-90.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 40.0000 **Initial Void Ratio:** 0.4812 **Initial Height (in):** 0.9960
Plastic Limit: 14.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5020
Specific Gravity: 2.6380 Measured **Weight of Ring (g):** 98.6900

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	136.89	293.56
Dry Soil + Container (g)	120.88	266.43
Weight of Container (g)	31.17	124.83
Moisture Content (%)	17.85	19.16
Void Ratio	0.4812	0.4649
Saturation (%)	97.86	106.88
Dry Density (pcf)	111.18	111.81

Tested By: B. Hak **Checked By:** C. Dugger

Consolidation Test
Test Results

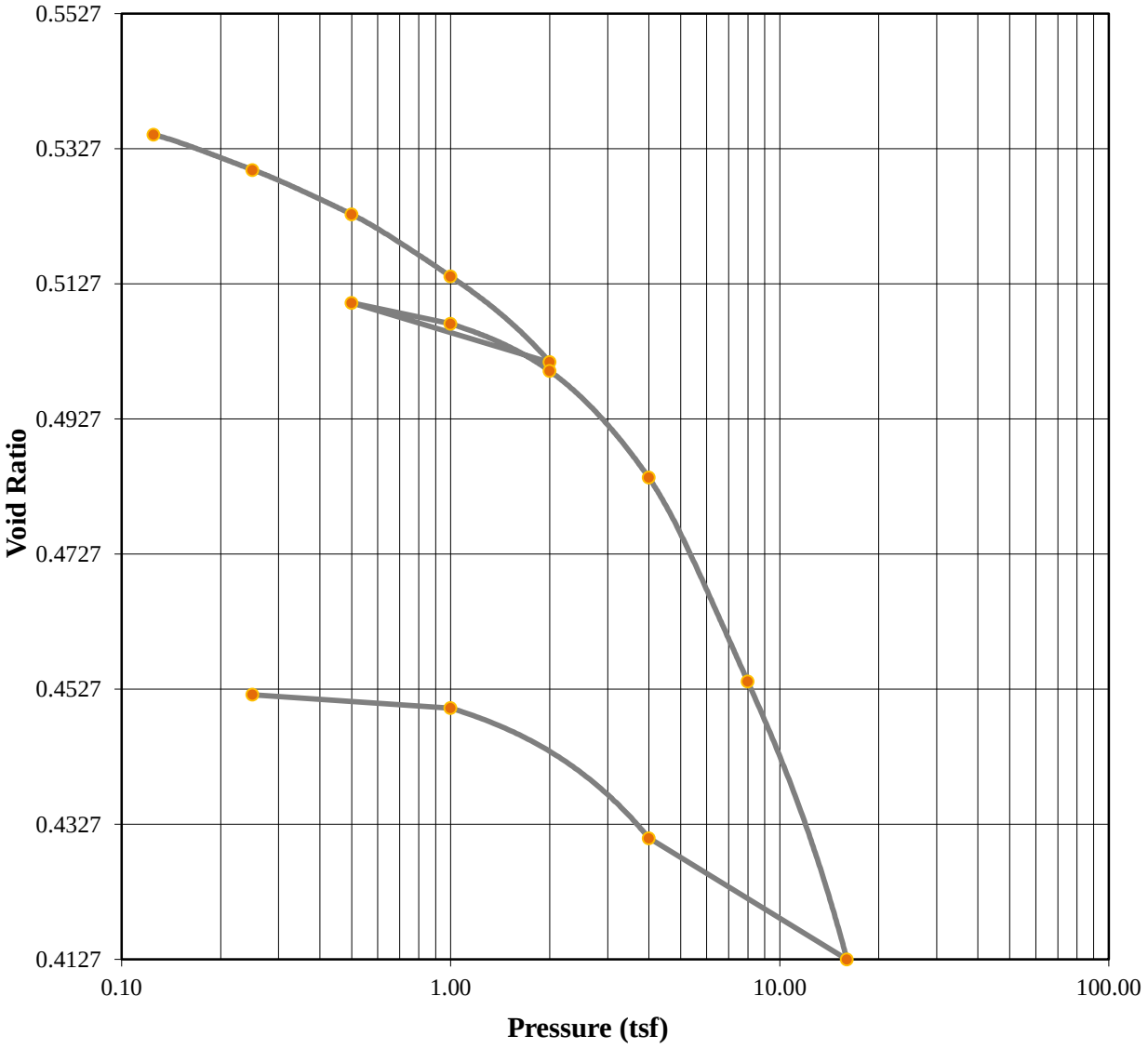


	Before	After				
Moisture (%):	20.16	19.93	**Liquid Limits:**	40	**Test Date:**	6/6/17
Dry Density (pcf):	109.08	115.06	**Plastic Limits:**	13		
Saturation (%):	100.39	116.47	**Plasticity Index (%):**	0		
Void Ratio:	0.5363	0.4505	**Specific Gravity:**	2.692	Measured	

Sample Description:	LEAN CLAY(CL A-6(23))			
Project Number:	7928	**Depth:**	118.0-120.0 f	**Remarks:**
Sample Number:	T-8	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

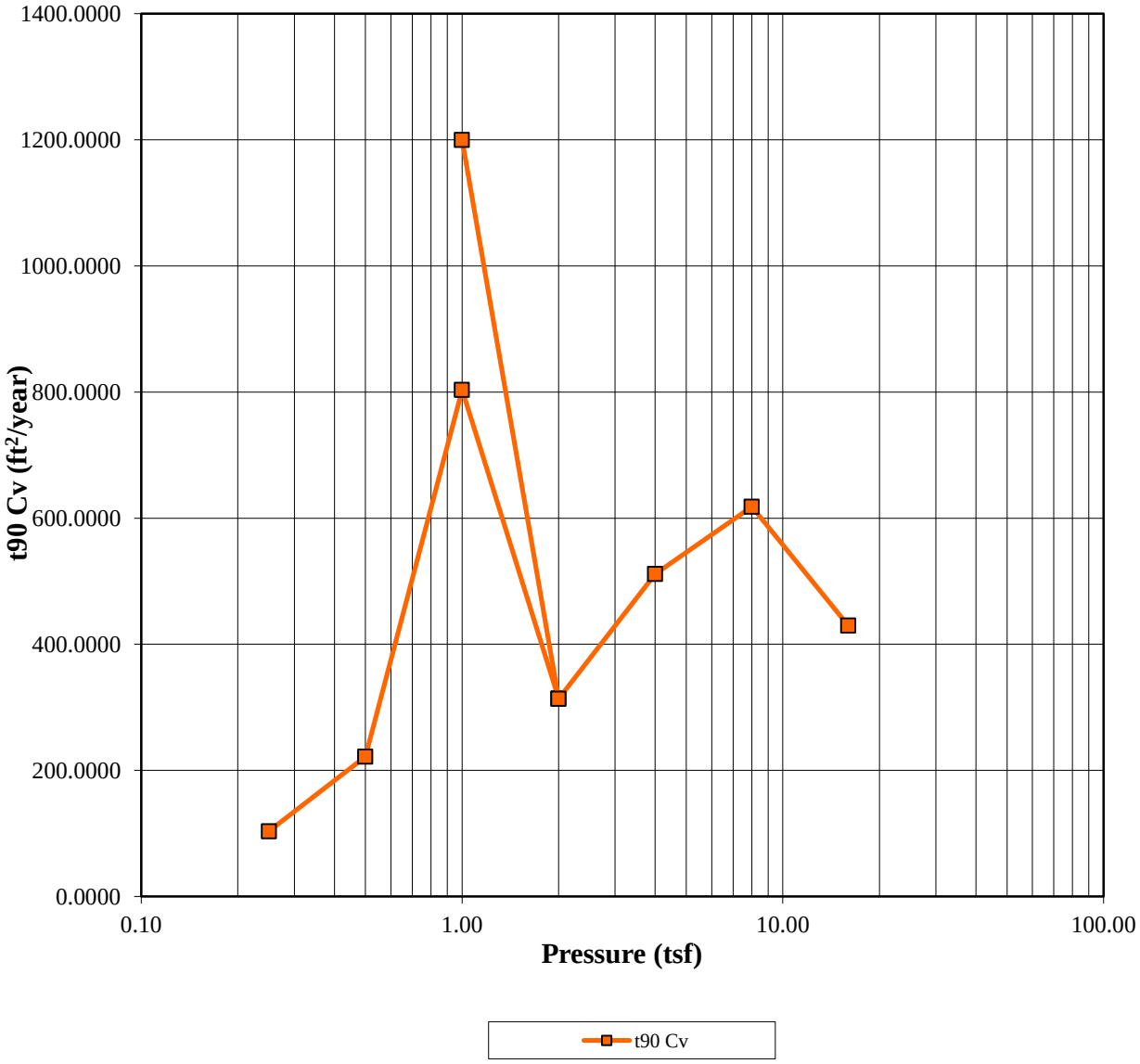
Consolidation Test
Test Results



	Before	After				
Moisture (%):	20.16	19.93	**Liquid Limits:**	40	**Test Date:**	6/6/17
Dry Density (pcf):	109.08	115.06	**Plastic Limits:**	13		
Saturation (%):	100.39	116.47	**Plasticity Index (%):**	0		
Void Ratio:	0.5363	0.4505	**Specific Gravity:**	2.692	Measured	

Soil Description:	LEAN CLAY(CL A-6(23))			
Project Number:	7928	**Depth:**	118.0-120.0 f	**Remarks:**
Sample Number:	T-8	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

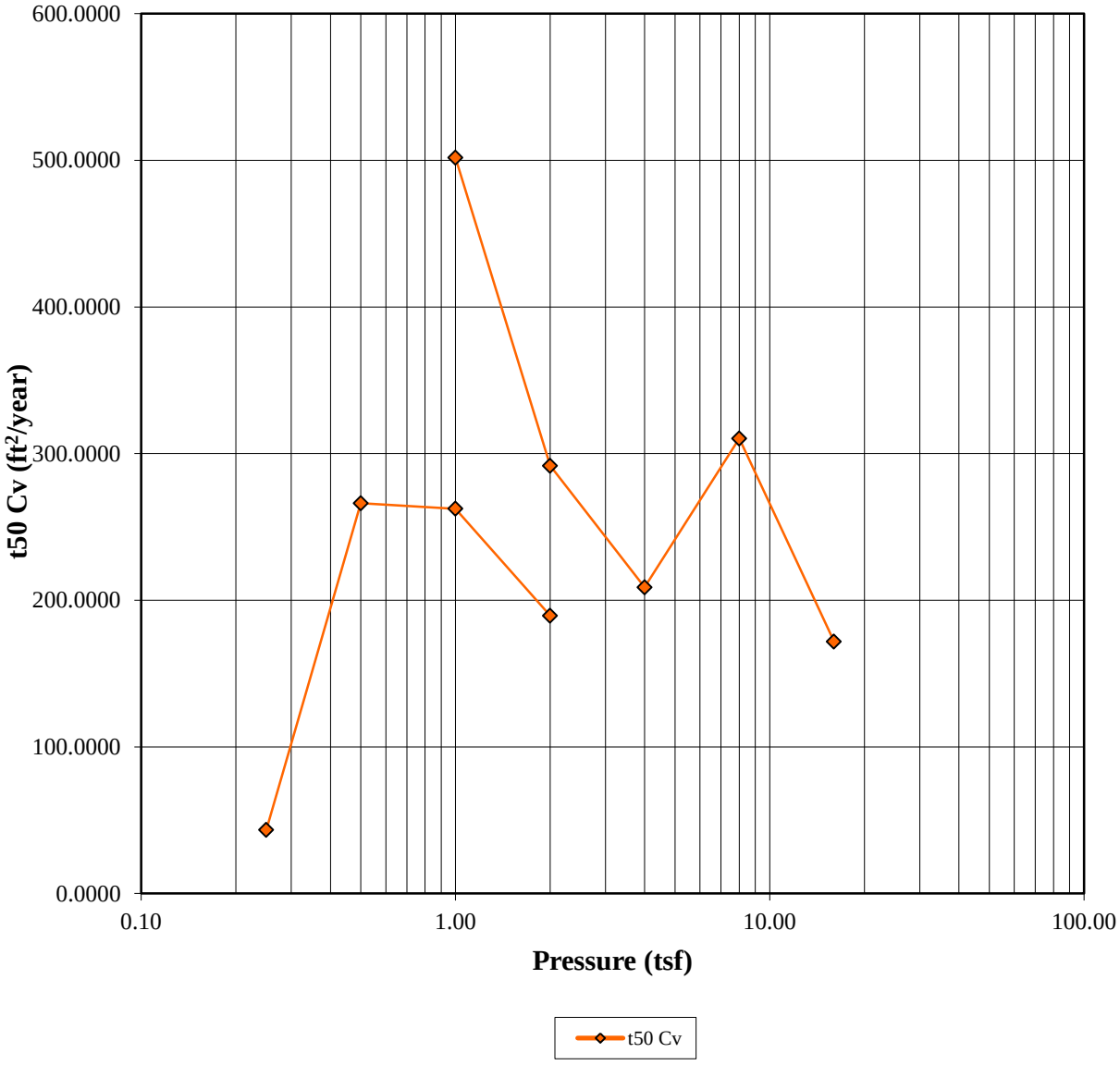


	Before	After				
			Liquid Limits:	40	**Test Date:**	6/6/17
Moisture (%):	20.16	19.93	**Plastic Limits:**	13		
Dry Density (pcf):	109.08	115.06	**Plasticity Index (%):**	0		
Saturation (%):	100.39	116.47				
Void Ratio:	0.5363	0.4505	**Specific Gravity:**	2.692	Measured	

Soil Description:	LEAN CLAY(CL A-6(23))			
Project Number:	7928	**Depth:**	118.0-120.0 f	**Remarks:**
Sample Number:	T-8	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

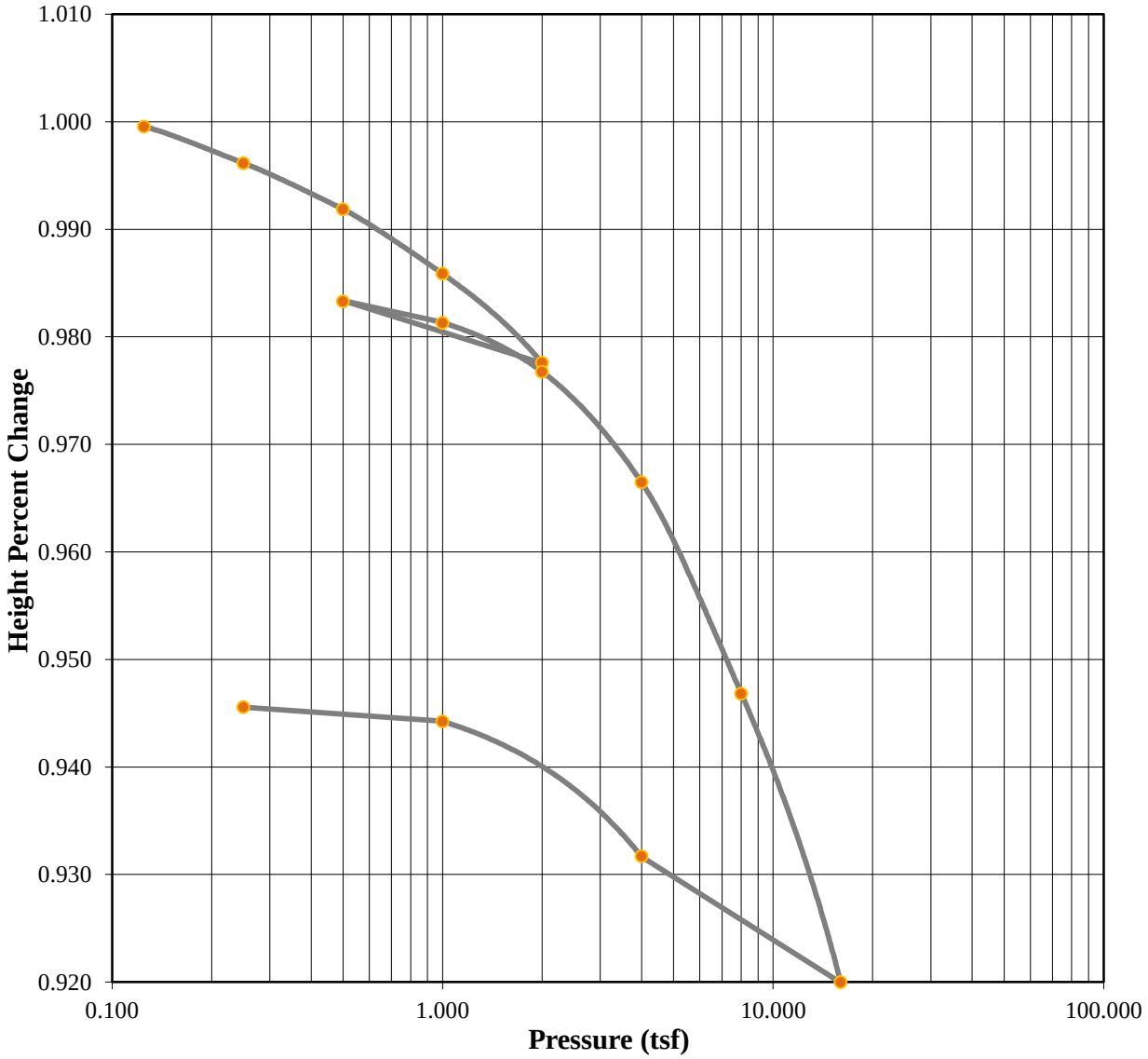
Consolidation Test
Test Results



	Before	After				
Moisture (%):	20.16	19.93	**Liquid Limits:**	40	**Test Date:**	6/6/17
Dry Density (pcf):	109.08	115.06	**Plastic Limits:**	13		
Saturation (%):	100.39	116.47	**Plasticity Index (%):**	0		
Void Ratio:	0.5363	0.4505	**Specific Gravity:**	2.692	Measured	

Soil Description:	LEAN CLAY(CL A-6(23))			
Project Number:	7928	**Depth:**	118.0-120.0 f	**Remarks:**
Sample Number:	T-8	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	40	**Test Date:**	6/6/17
Moisture (%):	20.16	19.93	**Plastic Limits:**	13		
Dry Density (pcf):	109.08	115.06	**Plasticity Index (%):**	0		
Saturation (%):	100.39	116.47				
Void Ratio:	0.5363	0.4505	**Specific Gravity:**	2.692	Measured	

Soil Description:	LEAN CLAY(CL A-6(23))			
Project Number:	7928	**Depth:**	118.0-120.0 f	**Remarks:**
Sample Number:	T-8	**Boring Number:**	BW-10	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-8
Boring Number: BW-10
Depth: 118.0-120.0 ft.
Sample Type: Undisturbed

Sample Description: LEAN CLAY(CL A-6(23))
Remarks:

Test Number:
Test Date: 6/6/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0020	0.3505	0.00	0.5379	0.000	0.000	0.000	0.000
1	0.125	0.0020	1.0000	0.3485	0.20	0.5348	0.000	0.000	0.000	0.000
2	0.250	0.0054	0.9966	0.3450	0.54	0.5296	7.420	* 4.1220	103.579	43.313
3	0.500	0.0097	0.9923	0.3408	0.97	0.5230	3.437	0.665	221.722	266.185
4	1.000	0.0157	0.9863	0.3348	1.57	0.5138	0.937	0.667	803.458	262.363
5	2.000	0.0240	0.9780	0.3265	2.39	0.5011	2.355	0.907	314.314	189.520
6	0.500	0.0182	0.9838	0.3322	1.82	0.5099	0.000	0.000	0.000	0.000
7	1.000	0.0202	0.9818	0.3302	2.02	0.5068	0.622	* 0.3453	1199.933	501.774
8	2.000	0.0248	0.9772	0.3256	2.48	0.4998	2.355	0.588	313.737	291.724
9	4.000	0.0351	0.9669	0.3154	3.50	0.4840	1.415	0.805	511.440	208.896
10	8.000	0.0547	0.9473	0.2957	5.46	0.4538	1.123	0.520	618.398	310.288
11	16.000	0.0816	0.9204	0.2689	8.14	0.4127	1.526	0.886	429.637	171.865
12	4.000	0.0699	0.9321	0.2806	6.97	0.4307	0.000	0.000	0.000	0.000
13	1.000	0.0573	0.9447	0.2931	5.72	0.4499	0.000	0.000	0.000	0.000
14	0.250	0.0560	0.9460	0.2945	5.59	0.4519	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 6/6/17

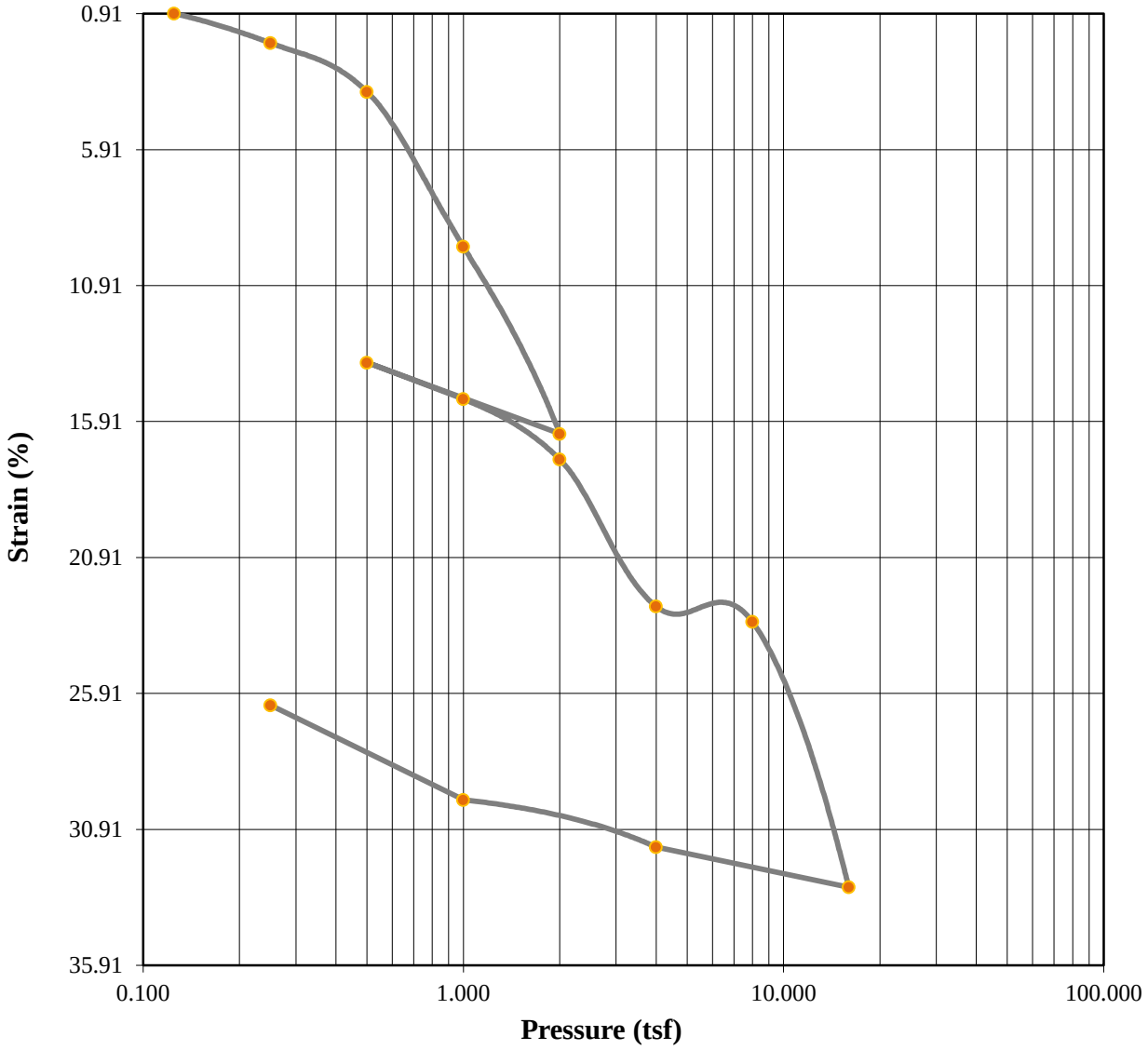
Sample Number: T-8 **Sample Description:**
Boring Number: BW-10 LEAN CLAY(CL A-6(23))
Depth: 118.0-120.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 40.0000 **Initial Void Ratio:** 0.5363 **Initial Height (in):** 1.0020
Plastic Limit: 13.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4960
Specific Gravity: 2.6920 **Weight of Ring (g):** 111.1000
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	125.44	296.76
Dry Soil + Container (g)	109.64	269.02
Weight of Container (g)	31.27	129.84
Moisture Content (%)	20.16	19.93
Void Ratio	0.5363	0.4505
Saturation (%)	100.39	116.47
Dry Density (pcf)	109.08	115.06

Tested By: B. Hak **Checked By:** C. Dugger

Consolidation Test
Test Results

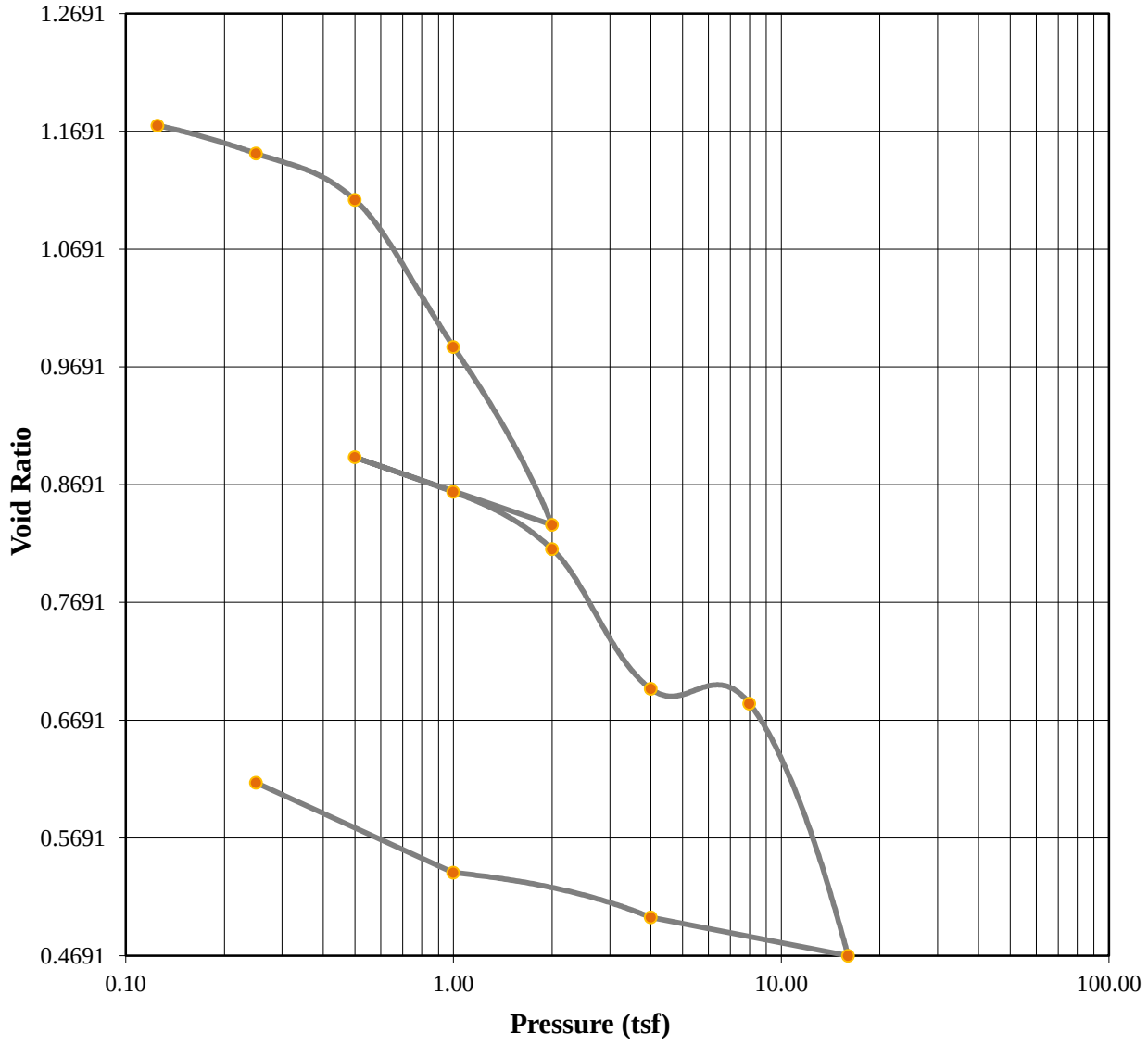


	Before	After				
Moisture (%):	43.57	24.28	**Liquid Limits:**	54	**Test Date:**	6/8/17
Dry Density (pcf):	76.09	101.07	**Plastic Limits:**	18		
Saturation (%):	97.44	99.35	**Plasticity Index (%):**	0		
Void Ratio:	1.1936	0.6157	**Specific Gravity:**	2.679	Measured	

Sample Description:	SANDY FAT CLAY(CH A-7-6(22))			
Project Number:	7928	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

Consolidation Test
Test Results

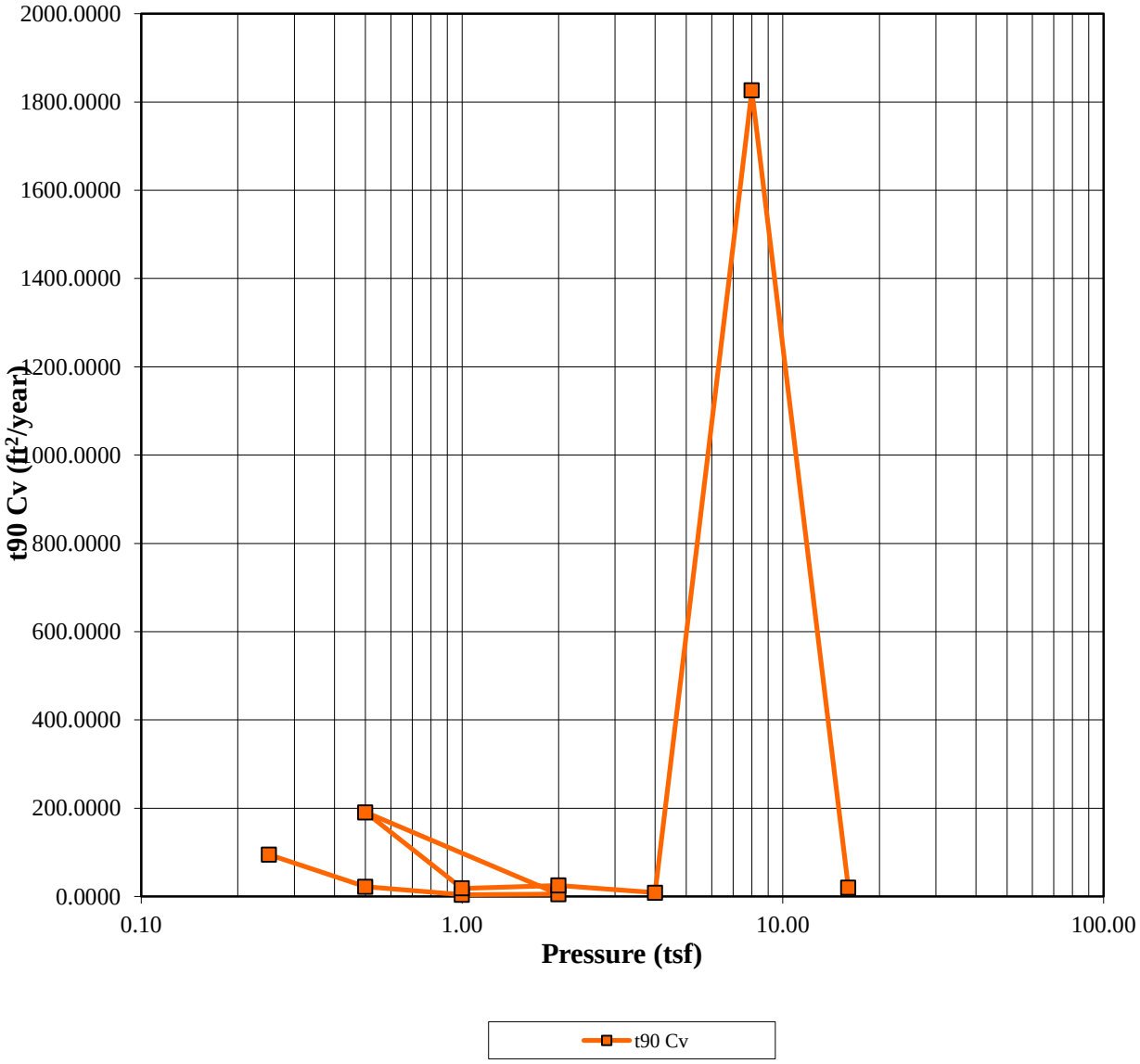


	Before	After				
			Liquid Limits:	54	**Test Date:**	6/8/17
Moisture (%):	43.57	24.28	**Plastic Limits:**	18		
Dry Density (pcf):	76.09	101.07	**Plasticity Index (%):**	0		
Saturation (%):	97.44	99.35				
Void Ratio:	1.1936	0.6157	**Specific Gravity:**	2.679	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(22))			
Project Number:	7928	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

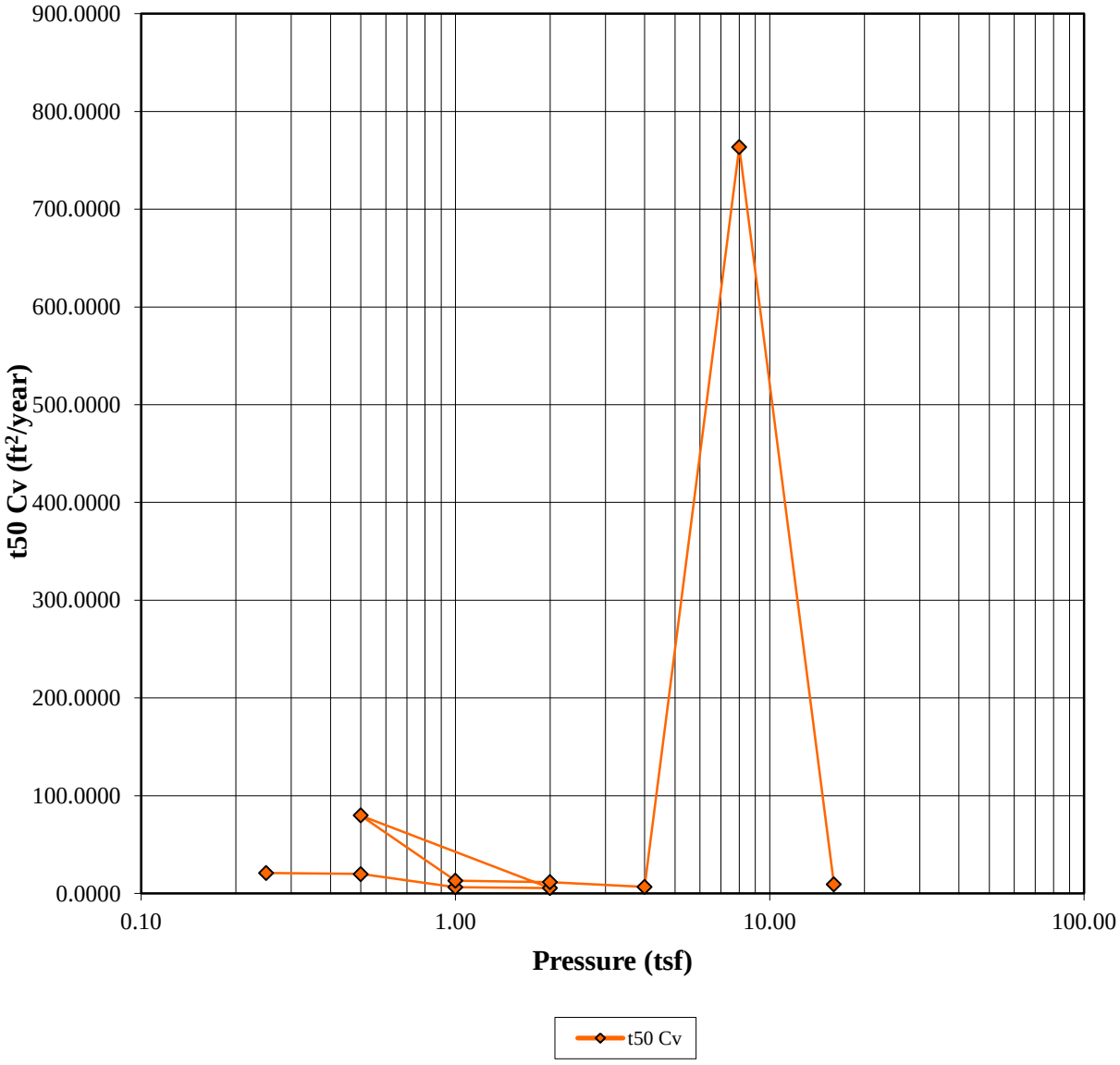
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	54	**Test Date:**	6/8/17
Moisture (%):	43.57	24.28	**Plastic Limits:**	18		
Dry Density (pcf):	76.09	101.07	**Plasticity Index (%):**	0		
Saturation (%):	97.44	99.35				
Void Ratio:	1.1936	0.6157	**Specific Gravity:**	2.679	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(22))			
Project Number:	7928	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

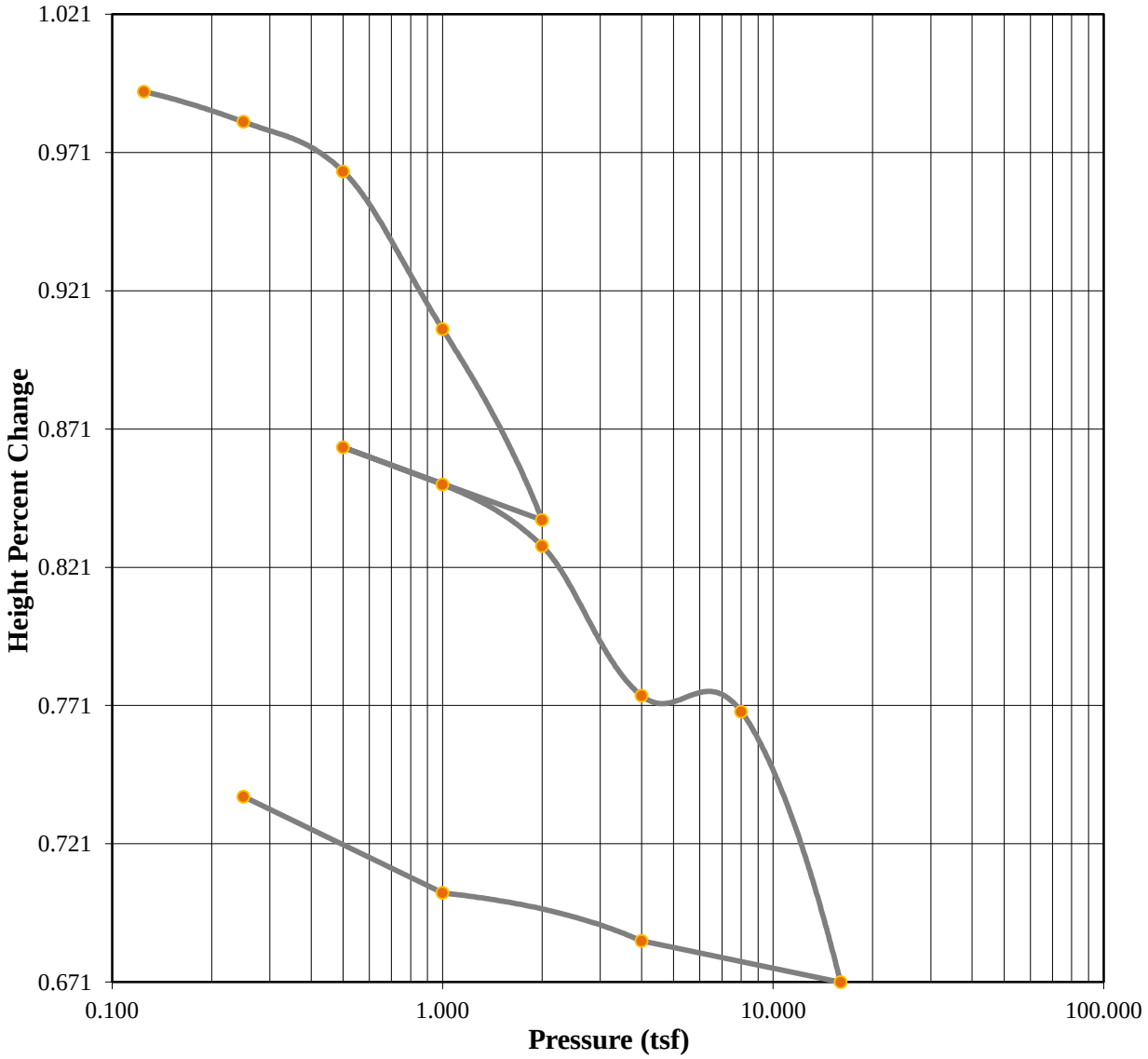
Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.57	24.28	**Liquid Limits:**	54	**Test Date:**	6/8/17
Dry Density (pcf):	76.09	101.07	**Plastic Limits:**	18		
Saturation (%):	97.44	99.35	**Plasticity Index (%):**	0		
Void Ratio:	1.1936	0.6157	**Specific Gravity:**	2.679	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(22))			
Project Number:	7928	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.57	24.28	**Liquid Limits:**	54	**Test Date:**	6/8/17
Dry Density (pcf):	76.09	101.07	**Plastic Limits:**	18		
Saturation (%):	97.44	99.35	**Plasticity Index (%):**	0		
Void Ratio:	1.1936	0.6157	**Specific Gravity:**	2.679	Measured	

Soil Description:	SANDY FAT CLAY(CH A-7-6(22))			
Project Number:	7928	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-1
Boring Number: BW-11
Depth: 18.0-20.0 ft.
Sample Type: Undisturbed

Sample Description: SANDY FAT CLAY(CH A-7-6(22))
Remarks:

Test Number:
Test Date: 6/8/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0020	0.5453	0.00	1.1940	0.000	0.000	0.000	0.000
1	0.125	0.0091	0.9929	0.5362	0.91	1.1740	0.000	0.000	0.000	0.000
2	0.250	0.0200	0.9820	0.5253	1.99	1.1503	7.872	8.331	94.797	20.809
3	0.500	0.0379	0.9641	0.5074	3.78	1.1109	32.587	8.405	22.070	19.879
4	1.000	0.0950	0.9070	0.4503	9.48	0.9861	155.949	23.137	4.082	6.392
5	2.000	0.1640	0.8380	0.3813	16.36	0.8350	104.655	22.826	5.193	5.531
6	0.500	0.1377	0.8643	0.4076	13.74	0.8924	3.030	* 1.6832	190.779	79.775
7	1.000	0.1511	0.8509	0.3942	15.08	0.8631	30.295	9.883	18.492	13.169
8	2.000	0.1734	0.8286	0.3719	17.30	0.8144	21.094	10.575	25.188	11.672
9	4.000	0.2275	0.7745	0.3178	22.71	0.6957	53.891	16.143	8.612	6.679
10	8.000	0.2332	0.7688	0.3120	23.28	0.6833	* 0.2504	0.139	1826.279	763.594
11	16.000	0.3311	0.6709	0.2142	33.04	0.4691	17.418	8.792	19.999	9.205
12	4.000	0.3162	0.6858	0.2291	31.56	0.5016	0.000	0.000	0.000	0.000
13	1.000	0.2988	0.7032	0.2465	29.82	0.5397	0.000	0.000	0.000	0.000
14	0.250	0.2640	0.7380	0.2813	26.35	0.6159	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 6/8/17

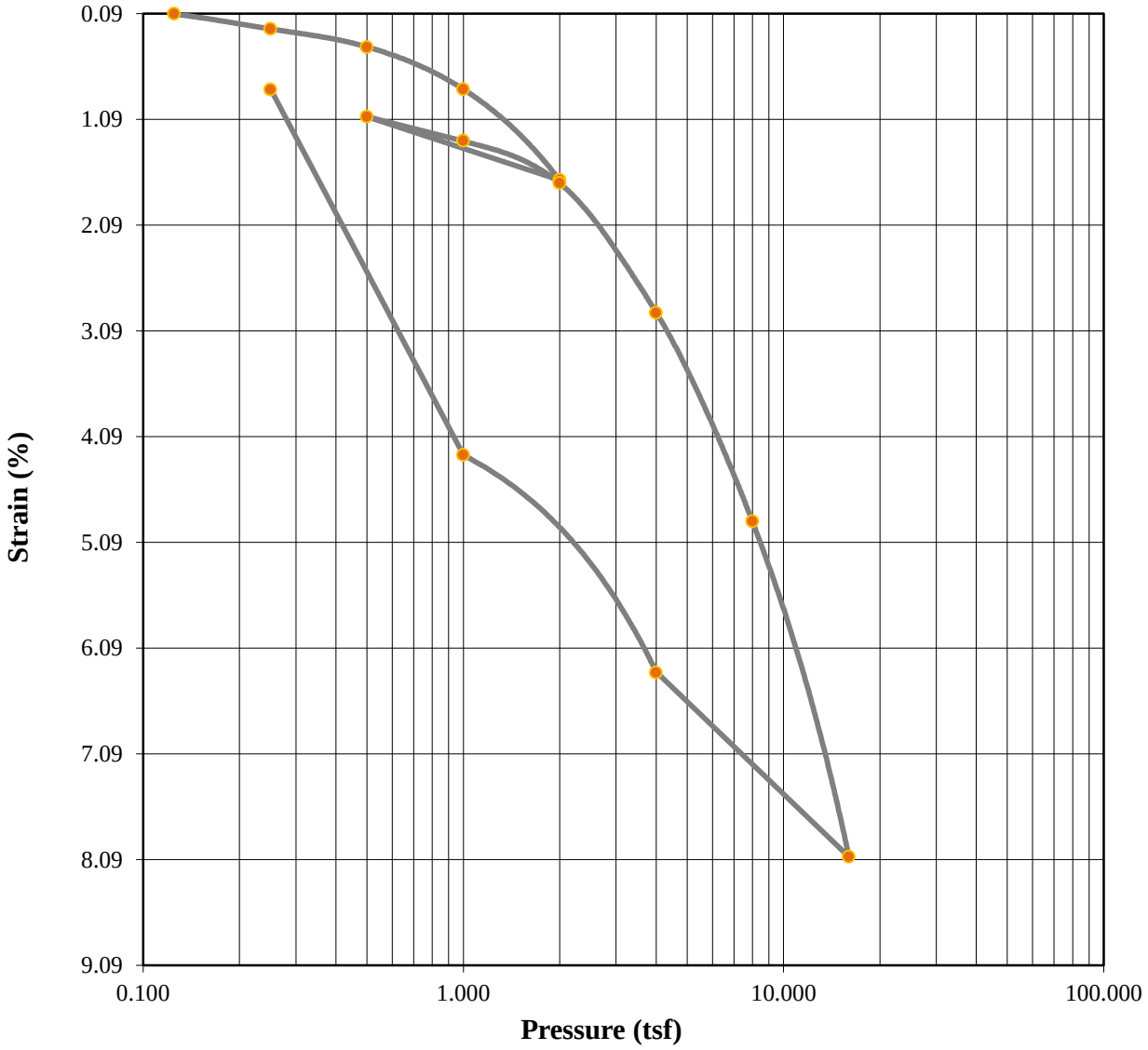
Sample Number: T-1 **Sample Description:**
Boring Number: BW-11 SANDY FAT CLAY(CH A-7-6(22))
Depth: 18.0-20.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 54.0000 **Initial Void Ratio:** 1.1936 **Initial Height (in):** 1.0020
Plastic Limit: 18.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5040
Specific Gravity: 2.6790 Measured **Weight of Ring (g):** 111.1100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	109.53	250.71
Dry Soil + Container (g)	86.10	227.40
Weight of Container (g)	32.32	131.41
Moisture Content (%)	43.57	24.28
Void Ratio	1.1936	0.6157
Saturation (%)	97.44	99.35
Dry Density (pcf)	76.09	101.07

Tested By: B. Hak **Checked By:** C. Dugger

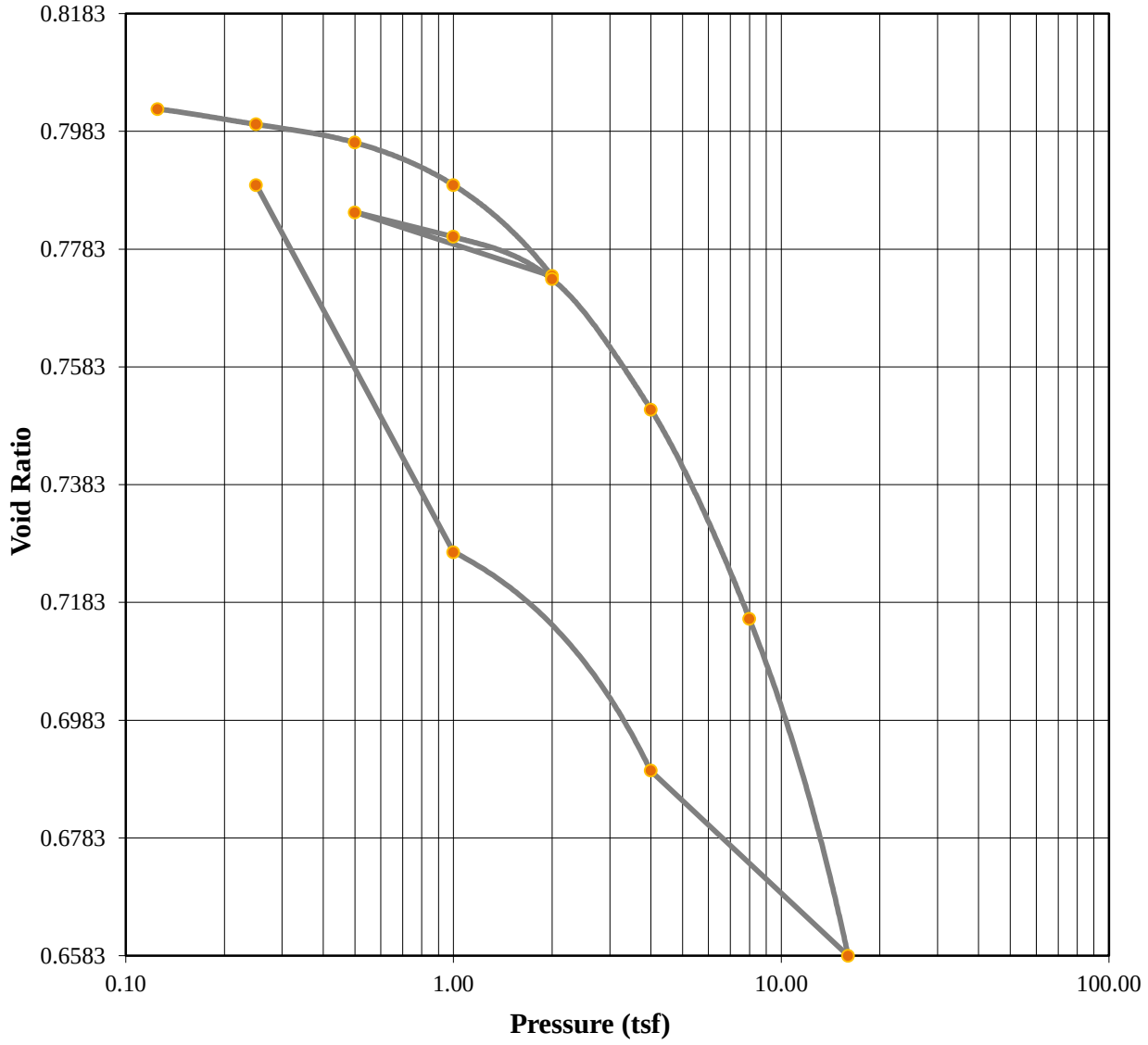
Consolidation Test
Test Results



	Before	After				
Moisture (%):	24.96	26.06	**Liquid Limits:**	73	**Test Date:**	7/27/2017
Dry Density (pcf):	99.78	100.13	**Plastic Limits:**	21		
Saturation (%):	89.34	94.01	**Plasticity Index (%):**	0		
Void Ratio:	0.8047	0.7903	**Specific Gravity:**	2.888	Measured	

Sample Description:	(A-7-6(59))			
Project Number:	7928	**Depth:**	100.0-102.0 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

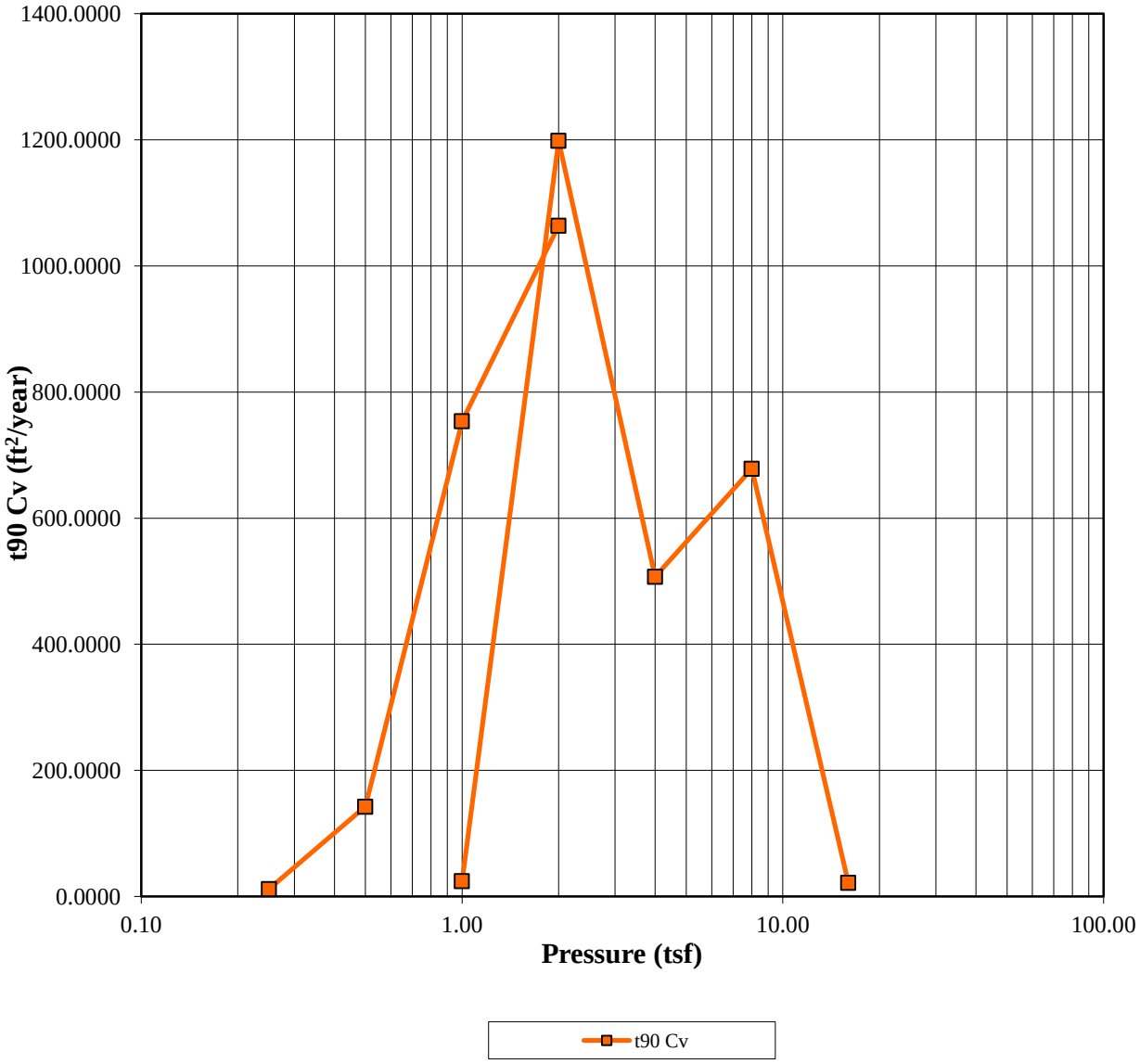
Consolidation Test
Test Results



	Before	After				
Moisture (%):	24.96	26.06	**Liquid Limits:**	73	**Test Date:**	7/27/2017
Dry Density (pcf):	99.78	100.13	**Plastic Limits:**	21		
Saturation (%):	89.34	94.01	**Plasticity Index (%):**	0		
Void Ratio:	0.8047	0.7903	**Specific Gravity:**	2.888	Measured	

Soil Description:	(A-7-6(59))			
Project Number:	7928	**Depth:**	100.0-102.0 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

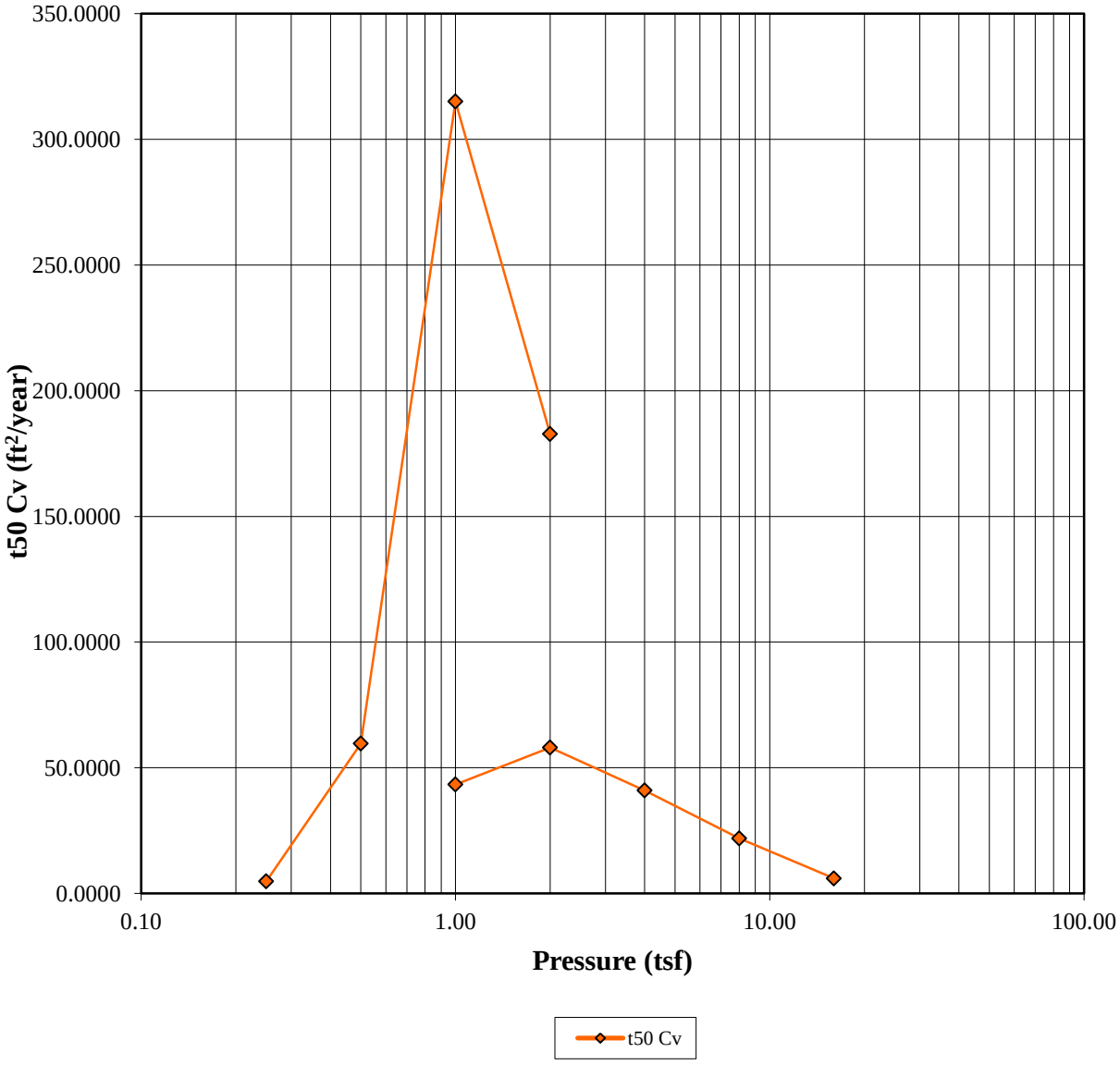
Consolidation Test
Test Results



	Before	After				
Moisture (%):	24.96	26.06	**Liquid Limits:**	73	**Test Date:**	7/27/2017
Dry Density (pcf):	99.78	100.13	**Plastic Limits:**	21		
Saturation (%):	89.34	94.01	**Plasticity Index (%):**	0		
Void Ratio:	0.8047	0.7903	**Specific Gravity:**	2.888	Measured	

Soil Description:	(A-7-6(59))			
Project Number:	7928	**Depth:**	100.0-102.0 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

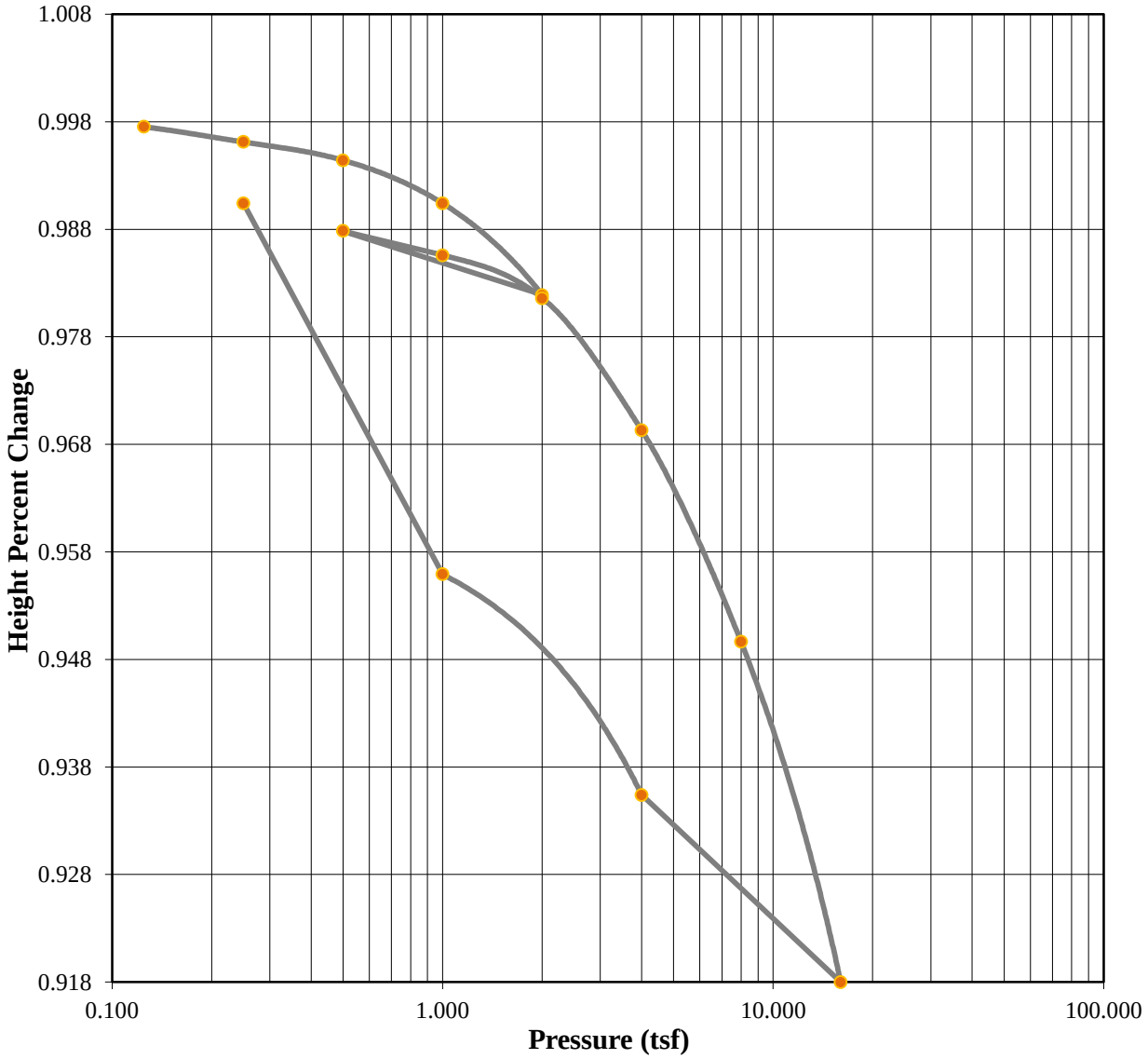
Consolidation Test
Test Results



	Before	After				
Moisture (%):	24.96	26.06	**Liquid Limits:**	73	**Test Date:**	7/27/2017
Dry Density (pcf):	99.78	100.13	**Plastic Limits:**	21		
Saturation (%):	89.34	94.01	**Plasticity Index (%):**	0		
Void Ratio:	0.8047	0.7903	**Specific Gravity:**	2.888	Measured	

Soil Description:	(A-7-6(59))			
Project Number:	7928	**Depth:**	100.0-102.0 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	24.96	26.06	**Liquid Limits:**	73	**Test Date:**	7/27/2017
Dry Density (pcf):	99.78	100.13	**Plastic Limits:**	21		
Saturation (%):	89.34	94.01	**Plasticity Index (%):**	0		
Void Ratio:	0.8047	0.7903	**Specific Gravity:**	2.888	Measured	

Soil Description:	(A-7-6(59))			
Project Number:	7928	**Depth:**	100.0-102.0 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-11	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-5
Boring Number: BW-11
Depth: 100.0-102.0 ft.
Sample Type: Undisturbed

Sample Description: (A-7-6(59))
Remarks:

Test Number:
Test Date: 7/27/2017

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.4447	0.00	0.8036	0.000	0.000	0.000	0.000
1	0.125	0.0009	0.9971	0.4438	0.09	0.8021	0.000	0.000	0.000	0.000
2	0.250	0.0023	0.9957	0.4424	0.23	0.7995	65.503	* 36.3903	11.712	4.898
3	0.500	0.0040	0.9940	0.4407	0.40	0.7964	5.362	* 2.9787	142.599	59.628
4	1.000	0.0080	0.9900	0.4367	0.80	0.7892	1.006	* 0.5591	753.646	315.133
5	2.000	0.0165	0.9815	0.4281	1.66	0.7737	0.701	0.947	1064.010	182.770
6	0.500	0.0106	0.9874	0.4341	1.06	0.7846	0.000	0.000	0.000	0.000
7	1.000	0.0128	0.9852	0.4318	1.29	0.7804	30.689	4.025	24.472	43.342
8	2.000	0.0168	0.9812	0.4278	1.69	0.7732	0.622	2.979	1198.520	58.100
9	4.000	0.0291	0.9689	0.4156	2.91	0.7511	1.433	4.113	506.990	41.028
10	8.000	0.0488	0.9492	0.3959	4.89	0.7155	1.028	7.397	678.459	21.899
11	16.000	0.0804	0.9176	0.3643	8.06	0.6583	29.801	25.058	21.862	6.040
12	4.000	0.0630	0.9350	0.3817	6.31	0.6897	0.000	0.000	0.000	0.000
13	1.000	0.0425	0.9555	0.4022	4.26	0.7269	0.000	0.000	0.000	0.000
14	0.250	0.0080	0.9900	0.4367	0.80	0.7892	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 7/27/2017

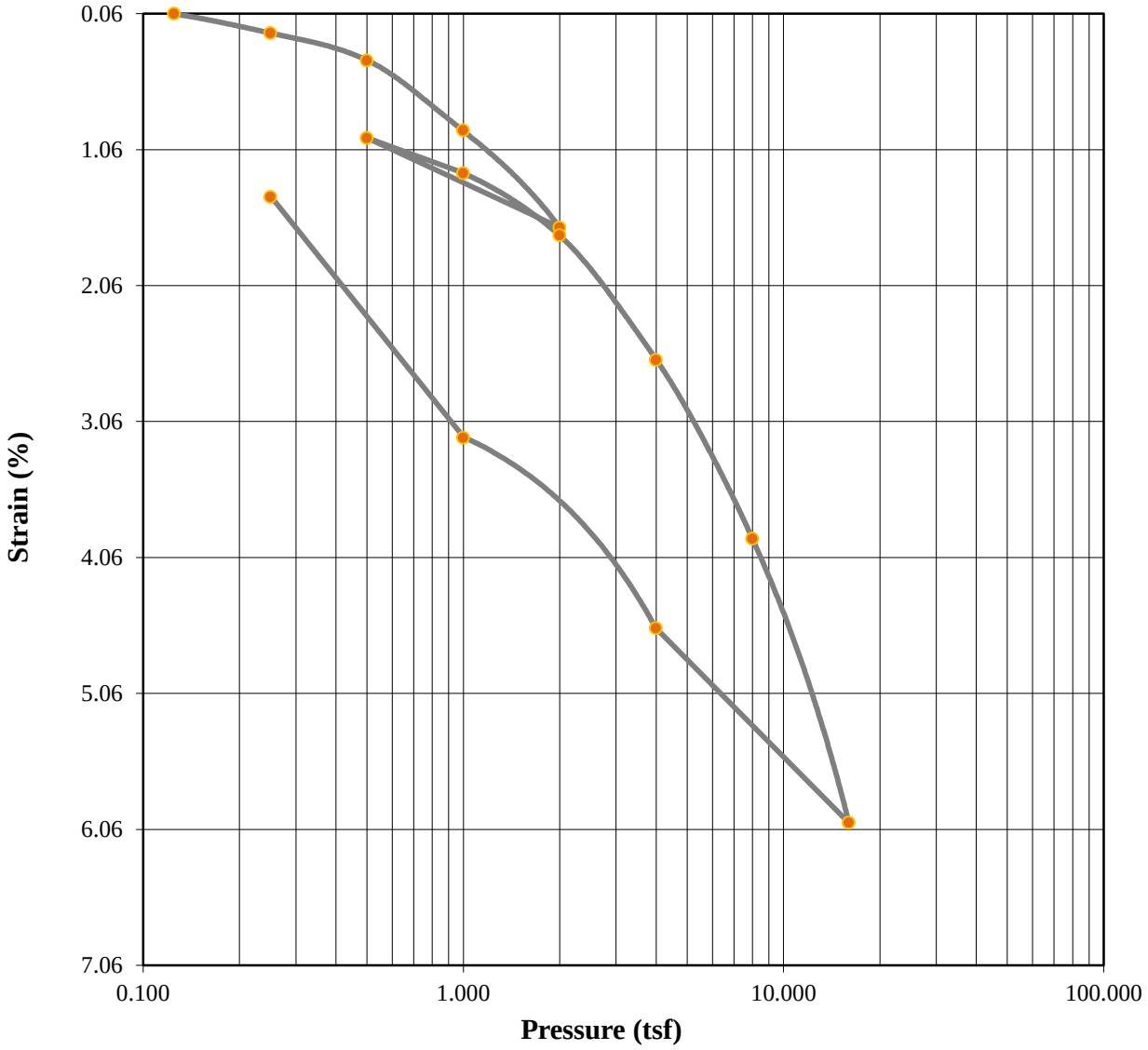
Sample Number: T-5 **Sample Description:**
Boring Number: BW-11 (A-7-6(59))
Depth: 100.0-102.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 73.0000 **Initial Void Ratio:** 0.8047 **Initial Height (in):** 0.9980
Plastic Limit: 21.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5060
Specific Gravity: 2.8880 Measured **Weight of Ring (g):** 110.7600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	99.05	290.03
Dry Soil + Container (g)	85.70	256.68
Weight of Container (g)	32.22	128.69
Moisture Content (%)	24.96	26.06
Void Ratio	0.8047	0.7903
Saturation (%)	89.34	94.01
Dry Density (pcf)	99.78	100.13

Tested By: B. Hak **Checked By:** C. Dugger

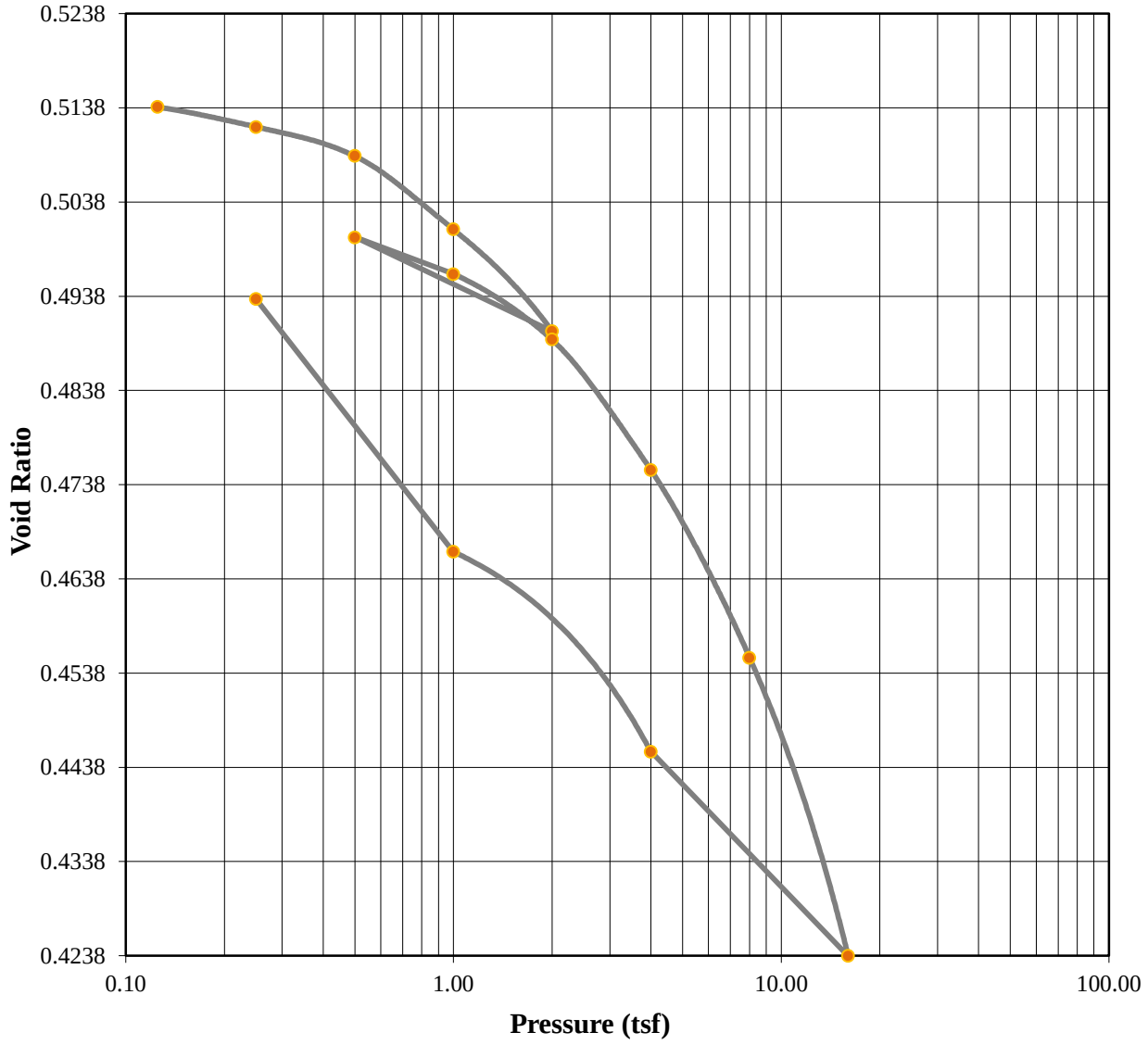
Consolidation Test
Test Results



	Before	After				
Moisture (%):	18.63	19.03	**Liquid Limits:**	61	**Test Date:**	08/01/17
Dry Density (pcf):	110.38	111.60	**Plastic Limits:**	16		
Saturation (%):	96.59	101.94	**Plasticity Index (%):**	0		
Void Ratio:	0.5141	0.4929	**Specific Gravity:**	2.683	Measured	

Sample Description:	FAT CLAY with GRAVEL(CH A-7-6(35))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

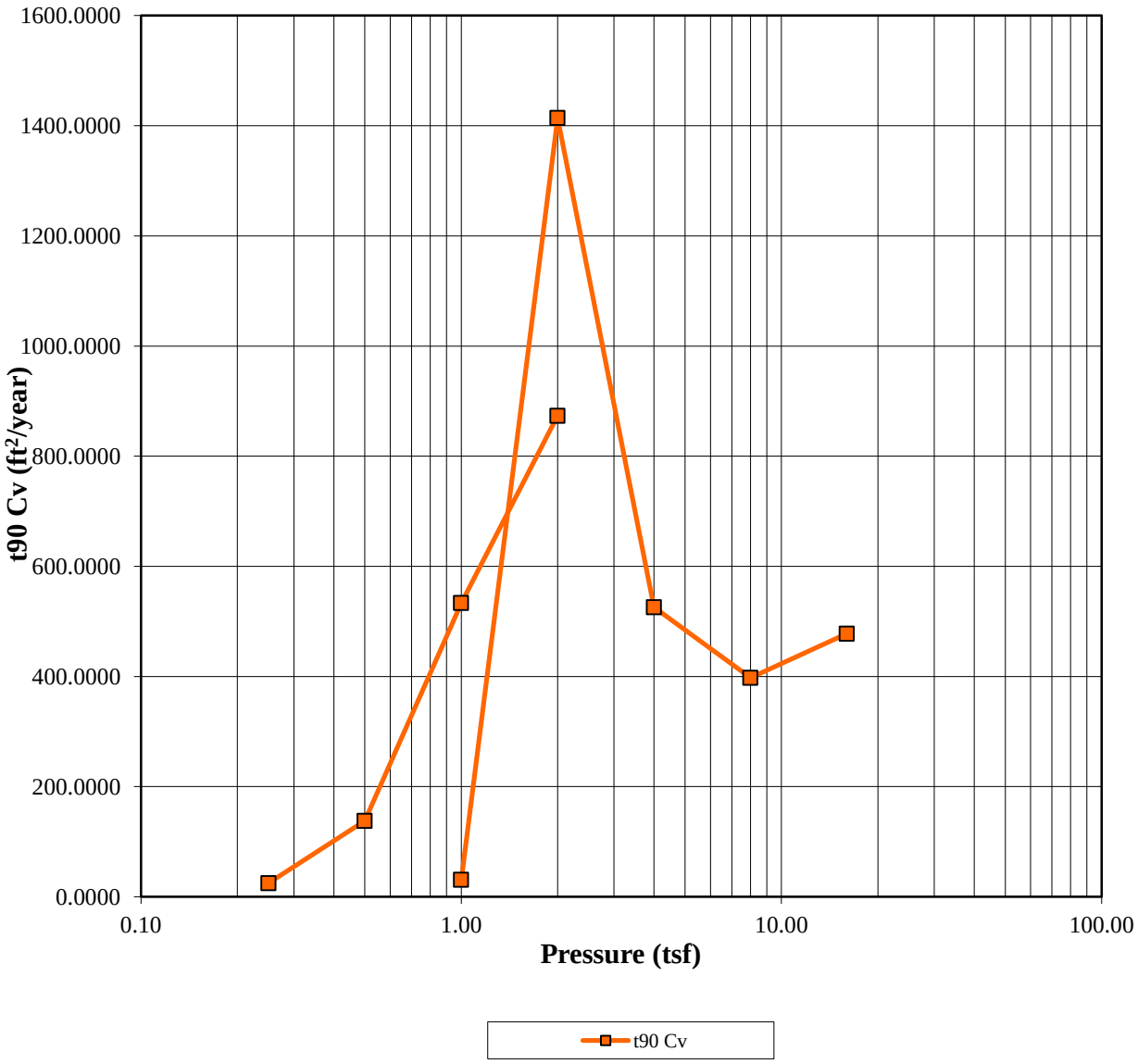
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	61	**Test Date:**	08/01/17
Moisture (%):	18.63	19.03	**Plastic Limits:**	16		
Dry Density (pcf):	110.38	111.60	**Plasticity Index (%):**	0		
Saturation (%):	96.59	101.94				
Void Ratio:	0.5141	0.4929	**Specific Gravity:**	2.683	Measured	

Soil Description:	FAT CLAY with GRAVEL(CH A-7-6(35))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

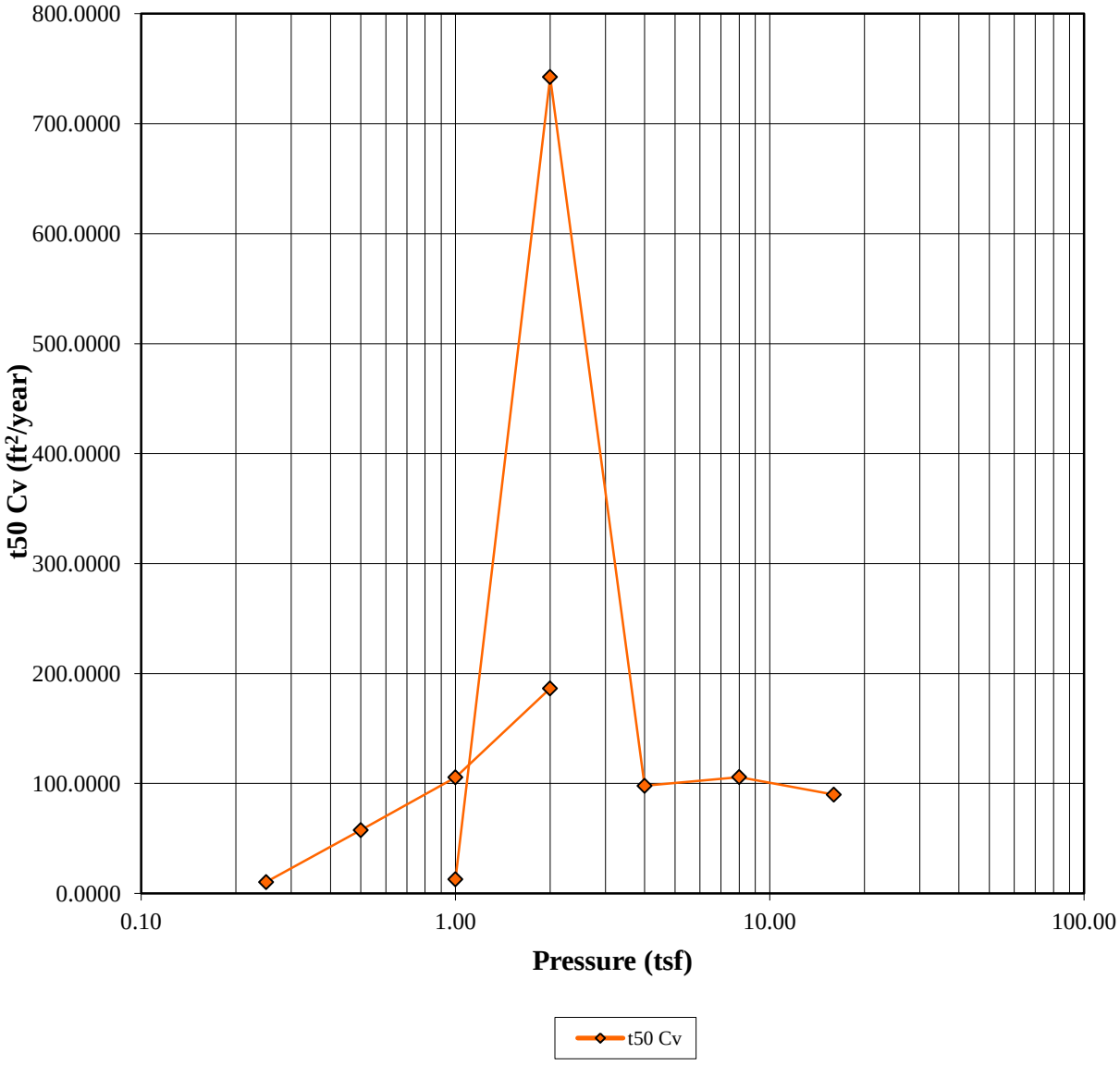
Consolidation Test
Test Results



	Before	After				
Moisture (%):	18.63	19.03	**Liquid Limits:**	61	**Test Date:**	08/01/17
Dry Density (pcf):	110.38	111.60	**Plastic Limits:**	16		
Saturation (%):	96.59	101.94	**Plasticity Index (%):**	0		
Void Ratio:	0.5141	0.4929	**Specific Gravity:**	2.683	Measured	

Soil Description:	FAT CLAY with GRAVEL(CH A-7-6(35))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

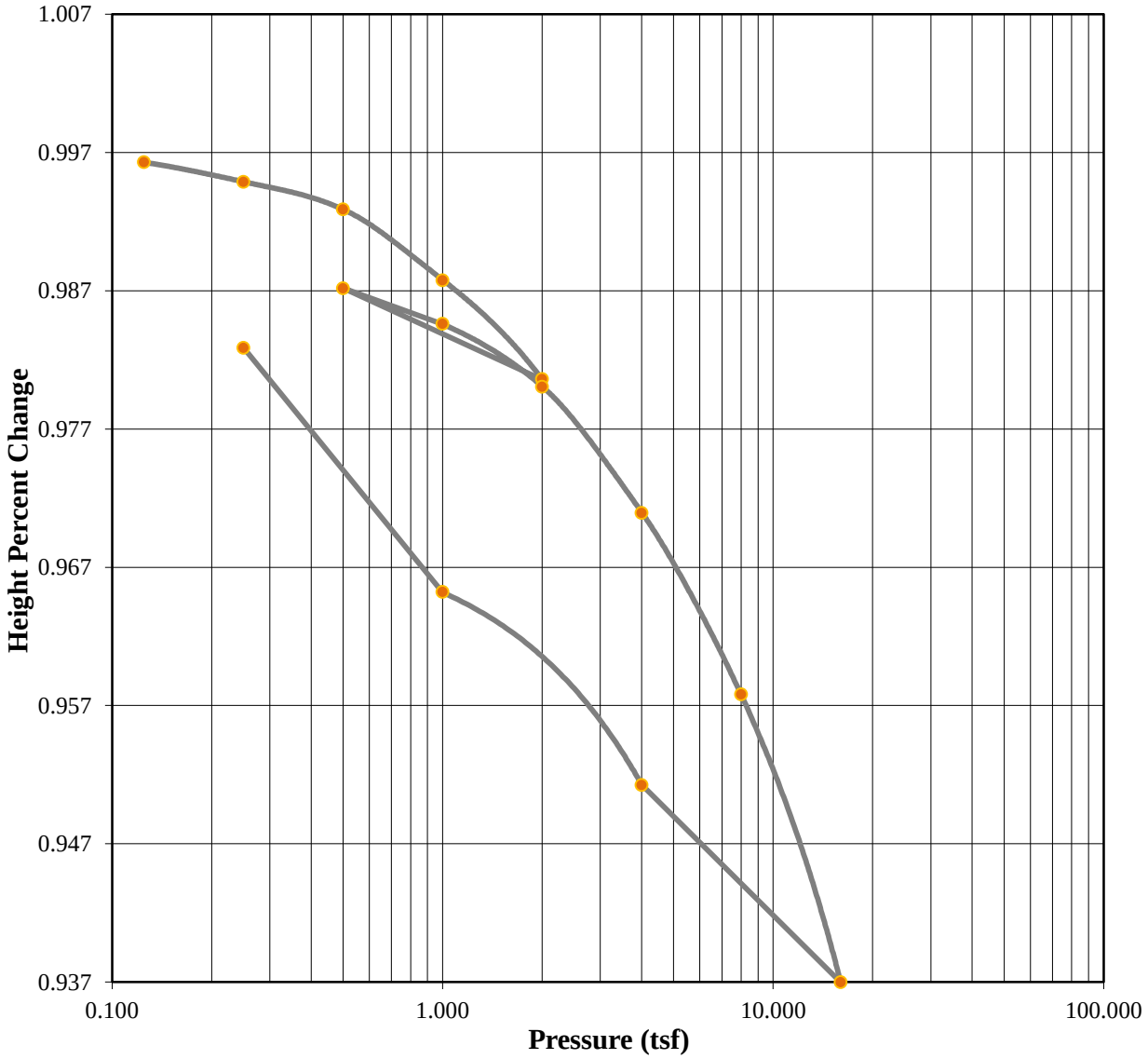
Consolidation Test
Test Results



	Before	After				
Moisture (%):	18.63	19.03	**Liquid Limits:**	61	**Test Date:**	08/01/17
Dry Density (pcf):	110.38	111.60	**Plastic Limits:**	16		
Saturation (%):	96.59	101.94	**Plasticity Index (%):**	0		
Void Ratio:	0.5141	0.4929	**Specific Gravity:**	2.683	Measured	

Soil Description:	FAT CLAY with GRAVEL(CH A-7-6(35))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	61	**Test Date:**	08/01/17
Moisture (%):	18.63	19.03	**Plastic Limits:**	16		
Dry Density (pcf):	110.38	111.60	**Plasticity Index (%):**	0		
Saturation (%):	96.59	101.94				
Void Ratio:	0.5141	0.4929	**Specific Gravity:**	2.683	Measured	

Soil Description:	FAT CLAY with GRAVEL(CH A-7-6(35))			
Project Number:	7928	**Depth:**	88.0-90.0 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-4
Boring Number: BW-12
Depth: 88.0-90.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with GRAVEL(CH A-7-6(35))
Remarks:

Test Number:
Test Date: 08/01/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.3388	0.00	0.5148	0.000	0.000	0.000	0.000
1	0.125	0.0006	0.9964	0.3383	0.06	0.5139	0.000	0.000	0.000	0.000
2	0.250	0.0020	0.9950	0.3368	0.20	0.5118	30.660	* 17.0332	24.987	10.448
3	0.500	0.0040	0.9930	0.3348	0.40	0.5087	5.534	* 3.0744	137.882	57.656
4	1.000	0.0091	0.9879	0.3297	0.92	0.5009	1.416	1.662	533.413	105.568
5	2.000	0.0163	0.9807	0.3226	1.63	0.4901	0.852	0.927	873.673	186.451
6	0.500	0.0097	0.9873	0.3291	0.97	0.5001	0.000	0.000	0.000	0.000
7	1.000	0.0123	0.9847	0.3266	1.23	0.4962	24.291	* 13.4950	30.891	12.917
8	2.000	0.0168	0.9802	0.3220	1.69	0.4892	0.526	0.233	1414.029	742.375
9	4.000	0.0259	0.9711	0.3129	2.60	0.4754	1.388	1.731	525.614	97.934
10	8.000	0.0391	0.9579	0.2998	3.92	0.4555	1.785	1.560	397.749	105.767
11	16.000	0.0599	0.9371	0.2789	6.01	0.4238	1.422	1.758	478.030	89.825
12	4.000	0.0456	0.9514	0.2932	4.58	0.4455	0.000	0.000	0.000	0.000
13	1.000	0.0317	0.9653	0.3072	3.17	0.4667	0.000	0.000	0.000	0.000
14	0.250	0.0140	0.9830	0.3248	1.40	0.4935	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 08/01/17

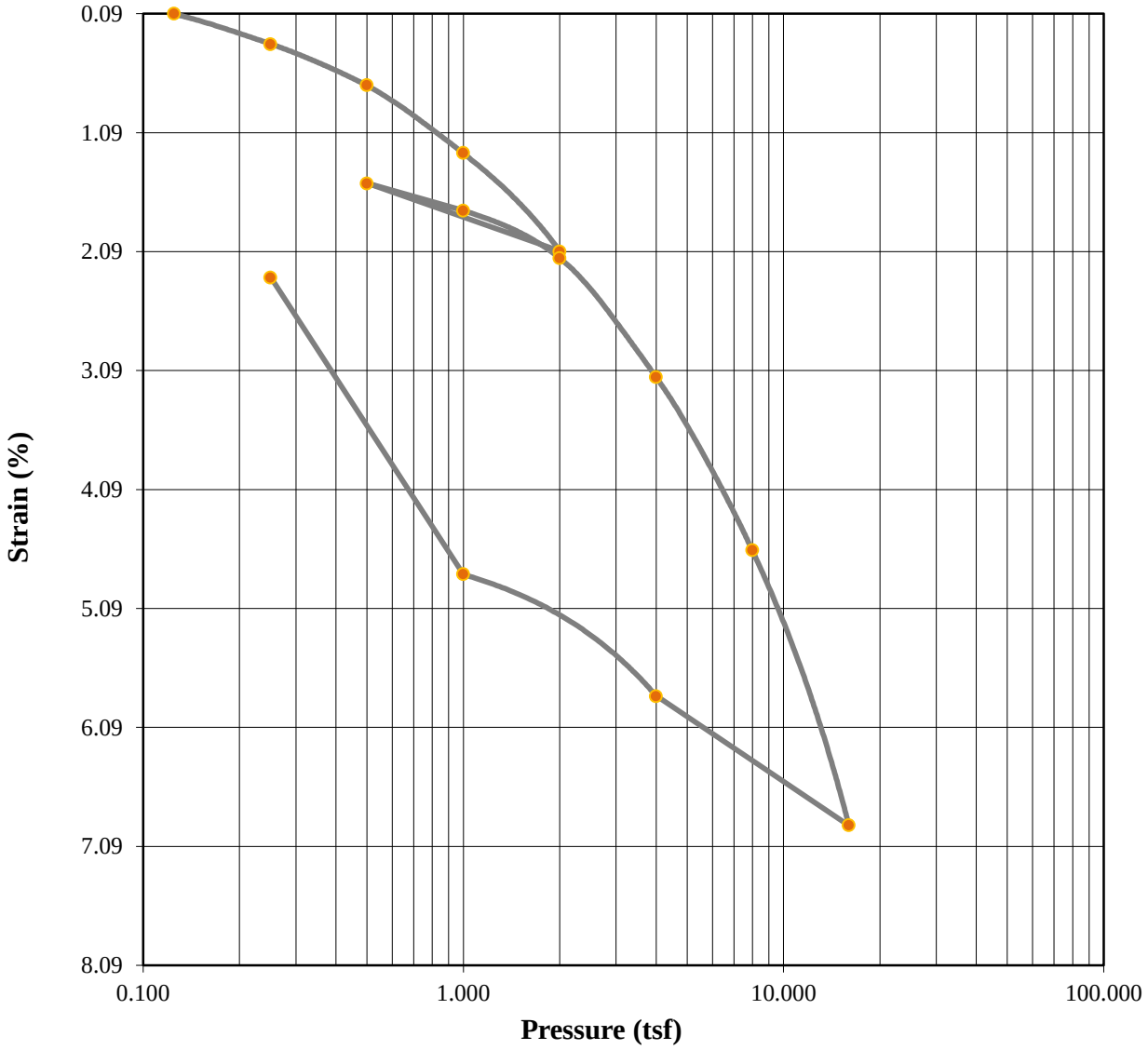
Sample Number: T-4 **Sample Description:**
Boring Number: BW-12 FAT CLAY with GRAVEL(CH A-7-6(35))
Depth: 88.0-90.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 61.0000 **Initial Void Ratio:** 0.5141 **Initial Height (in):** 0.9970
Plastic Limit: 16.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.6830 Measured **Weight of Ring (g):** 110.7800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	118.13	295.86
Dry Soil + Container (g)	104.63	269.04
Weight of Container (g)	32.16	128.07
Moisture Content (%)	18.63	19.03
Void Ratio	0.5141	0.4929
Saturation (%)	96.59	101.94
Dry Density (pcf)	110.38	111.60

Tested By: B. Hak **Checked By:** C. Dugger

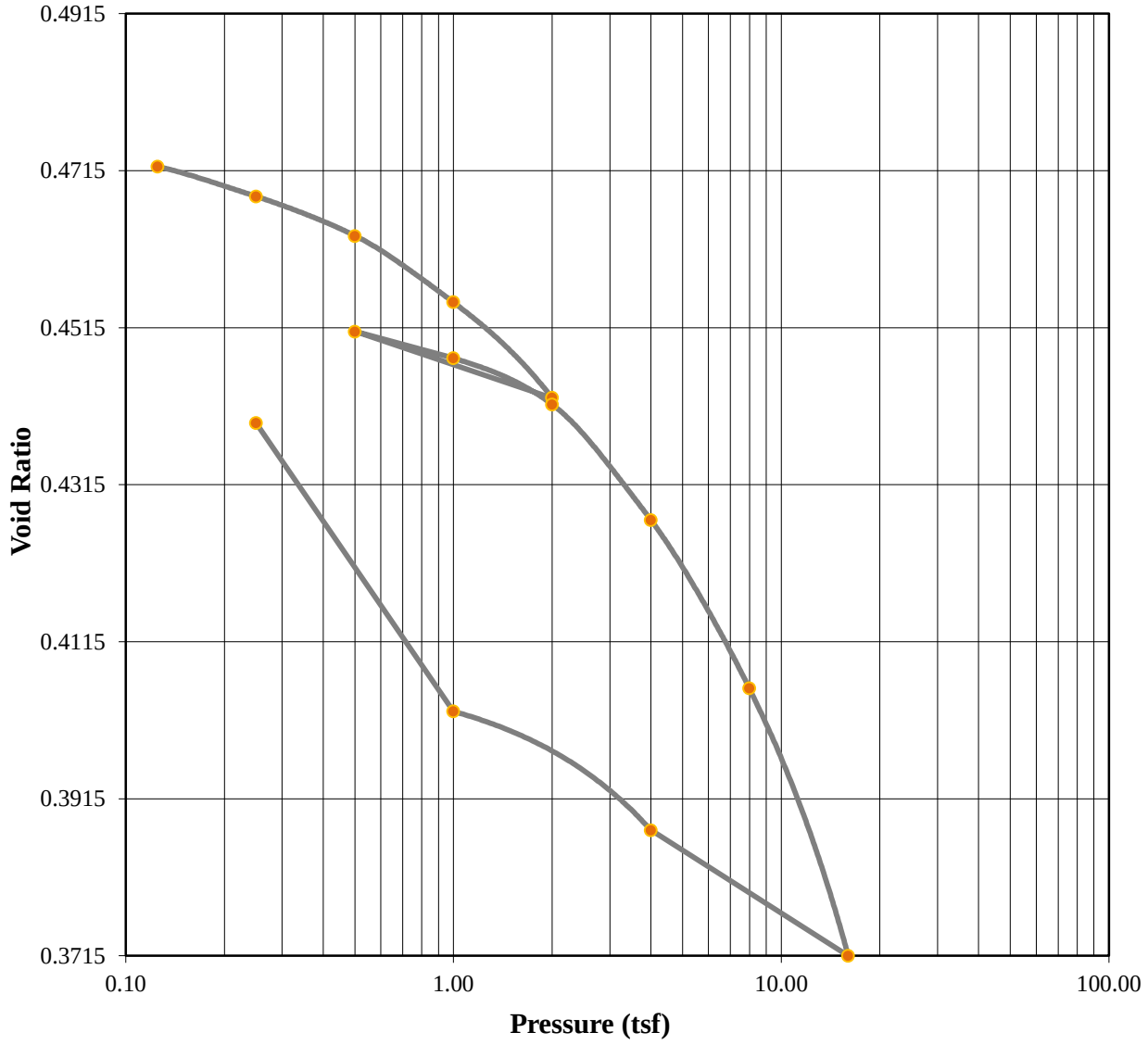
Consolidation Test
Test Results



	Before	After				
Moisture (%):	15.58	15.15	**Liquid Limits:**	33	**Test Date:**	8/3/17
Dry Density (pcf):	114.76	118.49	**Plastic Limits:**	12		
Saturation (%):	88.82	95.73	**Plasticity Index (%):**	0		
Void Ratio:	0.4714	0.4375	**Specific Gravity:**	2.713	Measured	

Sample Description:	SANDY LEAN CLAY(CL A-6(9))			
Project Number:	7928	**Depth:**	113.0-115.0 f	**Remarks:**
Sample Number:	T-7	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

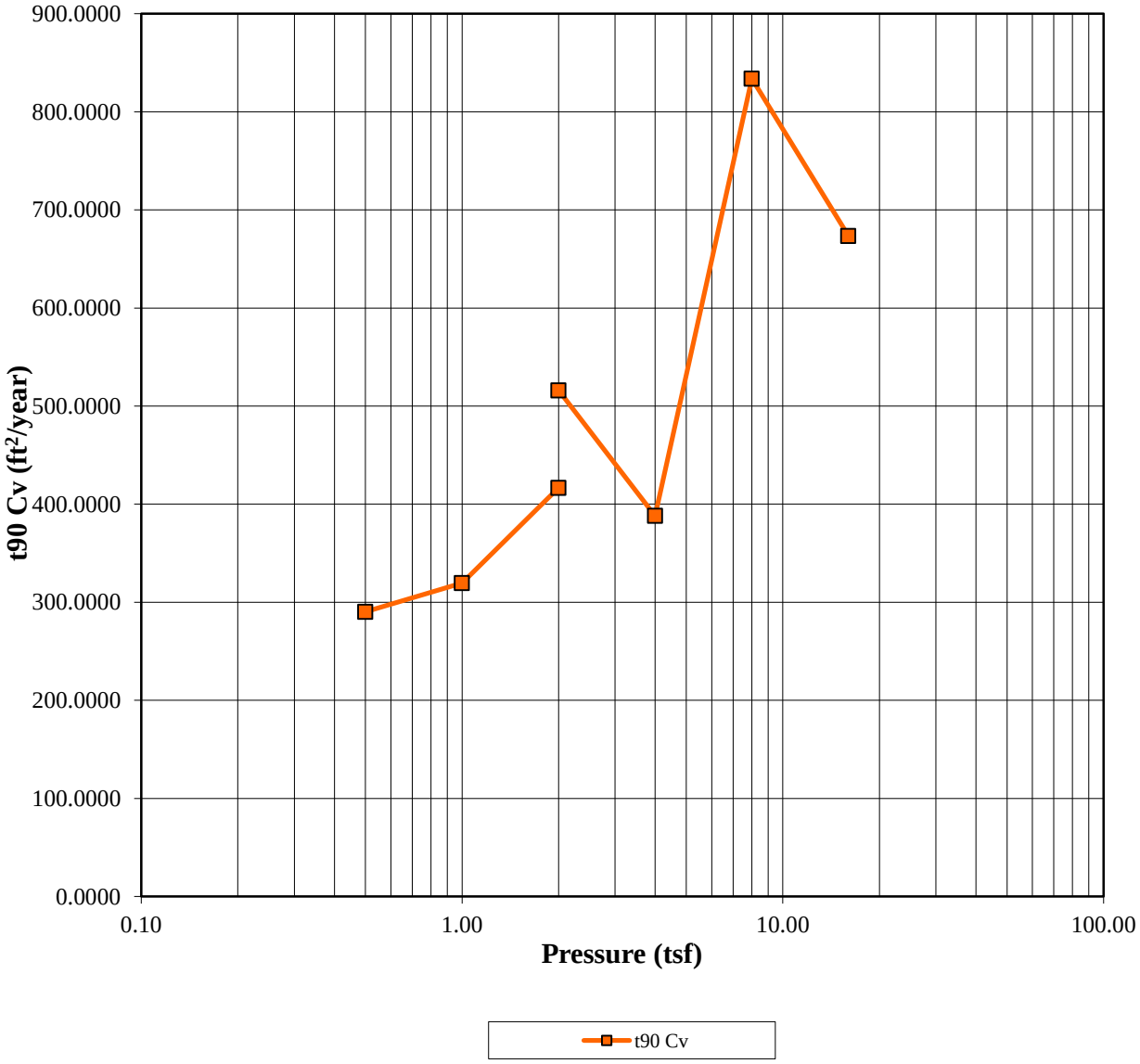


	Before	After				
Moisture (%):	15.58	15.15	**Liquid Limits:**	33	**Test Date:**	8/3/17
Dry Density (pcf):	114.76	118.49	**Plastic Limits:**	12		
Saturation (%):	88.82	95.73	**Plasticity Index (%):**	0		
Void Ratio:	0.4714	0.4375	**Specific Gravity:**	2.713	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(9))			
Project Number:	7928	**Depth:**	113.0-115.0 f	**Remarks:**
Sample Number:	T-7	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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MOBILE, ALABAMA

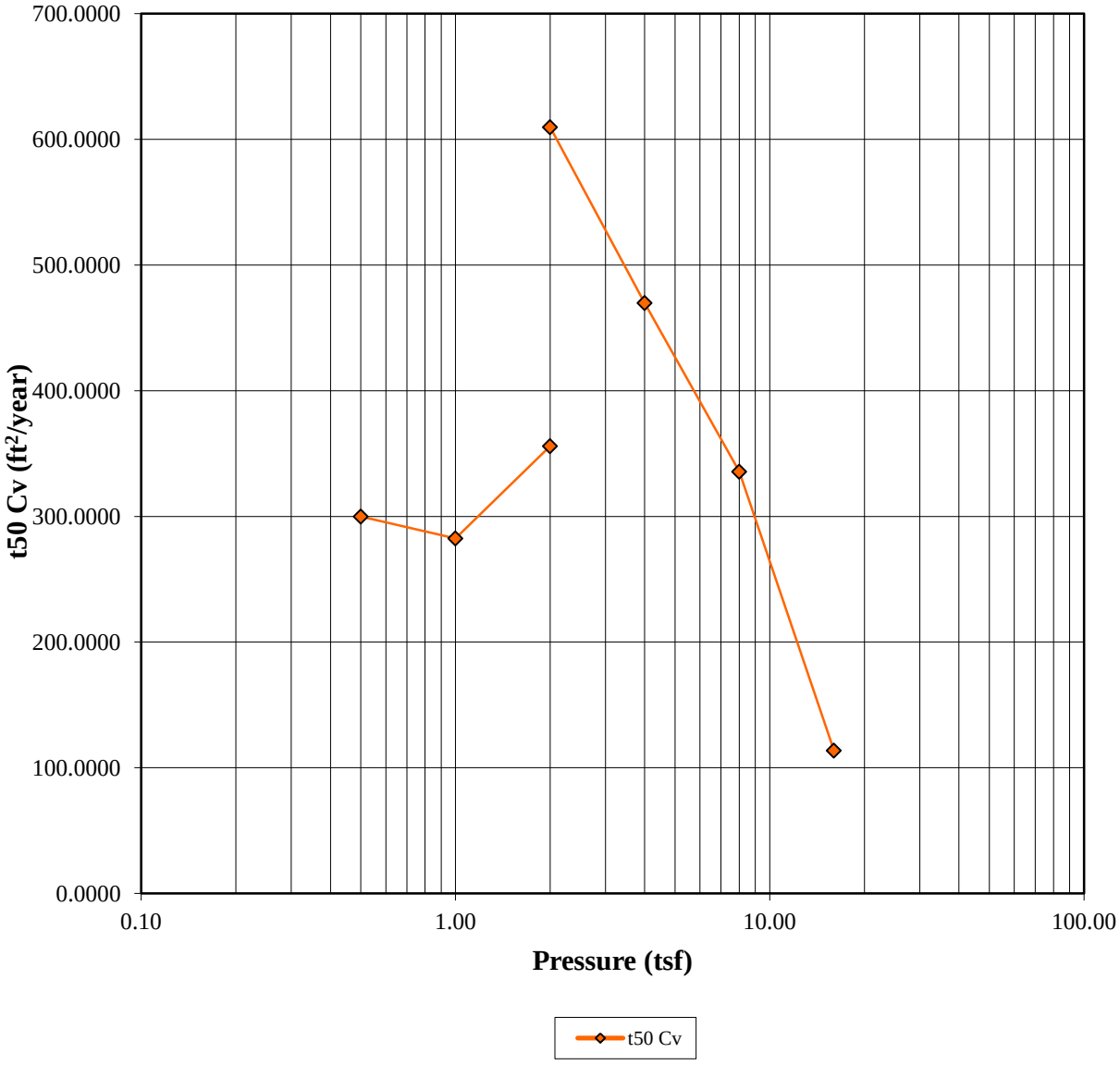
Consolidation Test
Test Results



	Before	After				
Moisture (%):	15.58	15.15	**Liquid Limits:**	33	**Test Date:**	8/3/17
Dry Density (pcf):	114.76	118.49	**Plastic Limits:**	12		
Saturation (%):	88.82	95.73	**Plasticity Index (%):**	0		
Void Ratio:	0.4714	0.4375	**Specific Gravity:**	2.713	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(9))			
Project Number:	7928	**Depth:**	113.0-115.0 f	**Remarks:**
Sample Number:	T-7	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

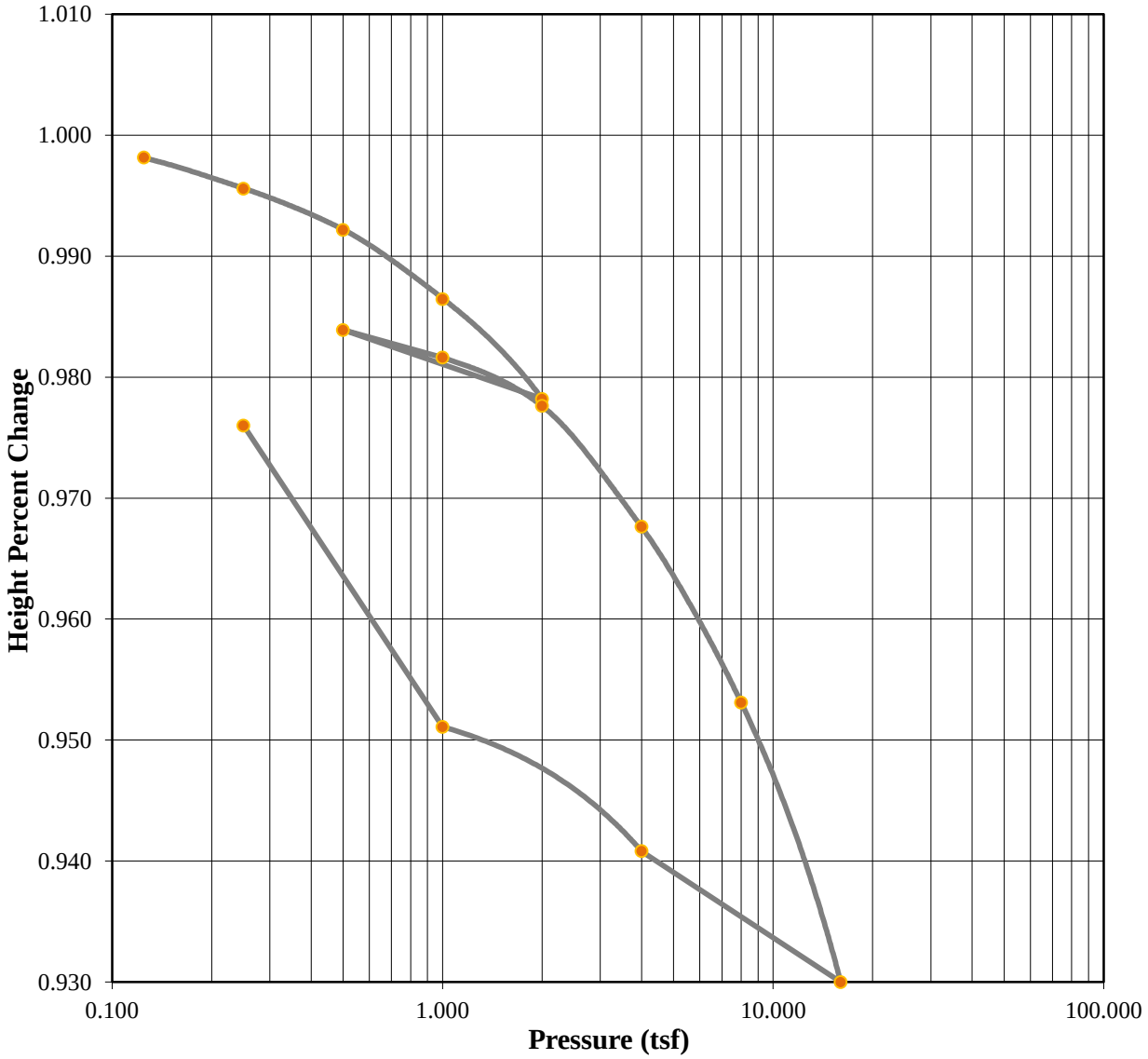
Consolidation Test
Test Results



	Before	After				
Moisture (%):	15.58	15.15	**Liquid Limits:**	33	**Test Date:**	8/3/17
Dry Density (pcf):	114.76	118.49	**Plastic Limits:**	12		
Saturation (%):	88.82	95.73	**Plasticity Index (%):**	0		
Void Ratio:	0.4714	0.4375	**Specific Gravity:**	2.713	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(9))			
Project Number:	7928	**Depth:**	113.0-115.0 f	**Remarks:**
Sample Number:	T-7	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	33	**Test Date:**	8/3/17
Moisture (%):	15.58	15.15	**Plastic Limits:**	12		
Dry Density (pcf):	114.76	118.49	**Plasticity Index (%):**	0		
Saturation (%):	88.82	95.73				
Void Ratio:	0.4714	0.4375	**Specific Gravity:**	2.713	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(9))			
Project Number:	7928	**Depth:**	113.0-115.0 f	**Remarks:**
Sample Number:	T-7	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-7
Boring Number: BW-12
Depth: 113.0-115.0 ft.
Sample Type: Undisturbed

Sample Description: SANDY LEAN CLAY(CL A-6(9))
Remarks:

Test Number:
Test Date: 8/3/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9990	0.3209	0.00	0.4732	0.000	0.000	0.000	0.000
1	0.125	0.0009	0.9981	0.3201	0.09	0.4720	0.000	0.000	0.000	0.000
2	0.250	0.0034	0.9956	0.3175	0.34	0.4682	0.000	0.000	0.000	0.000
3	0.500	0.0068	0.9922	0.3141	0.69	0.4632	2.625	0.590	290.222	299.981
4	1.000	0.0125	0.9865	0.3084	1.26	0.4547	2.355	0.619	319.743	282.574
5	2.000	0.0208	0.9782	0.3001	2.08	0.4425	1.777	0.483	416.653	355.990
6	0.500	0.0151	0.9839	0.3058	1.51	0.4510	0.000	0.000	0.000	0.000
7	1.000	0.0174	0.9816	0.3035	1.74	0.4476	0.000	0.000	0.000	0.000
8	2.000	0.0214	0.9776	0.2995	2.14	0.4417	1.433	0.282	516.136	609.727
9	4.000	0.0314	0.9676	0.2895	3.14	0.4270	1.867	0.358	388.057	469.891
10	8.000	0.0459	0.9531	0.2750	4.60	0.4055	0.843	0.487	833.706	335.626
11	16.000	0.0690	0.9300	0.2519	6.91	0.3715	0.994	1.368	673.609	113.615
12	4.000	0.0582	0.9408	0.2627	5.82	0.3875	0.000	0.000	0.000	0.000
13	1.000	0.0479	0.9511	0.2730	4.80	0.4026	0.000	0.000	0.000	0.000
14	0.250	0.0230	0.9760	0.2979	2.30	0.4393	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 8/3/17

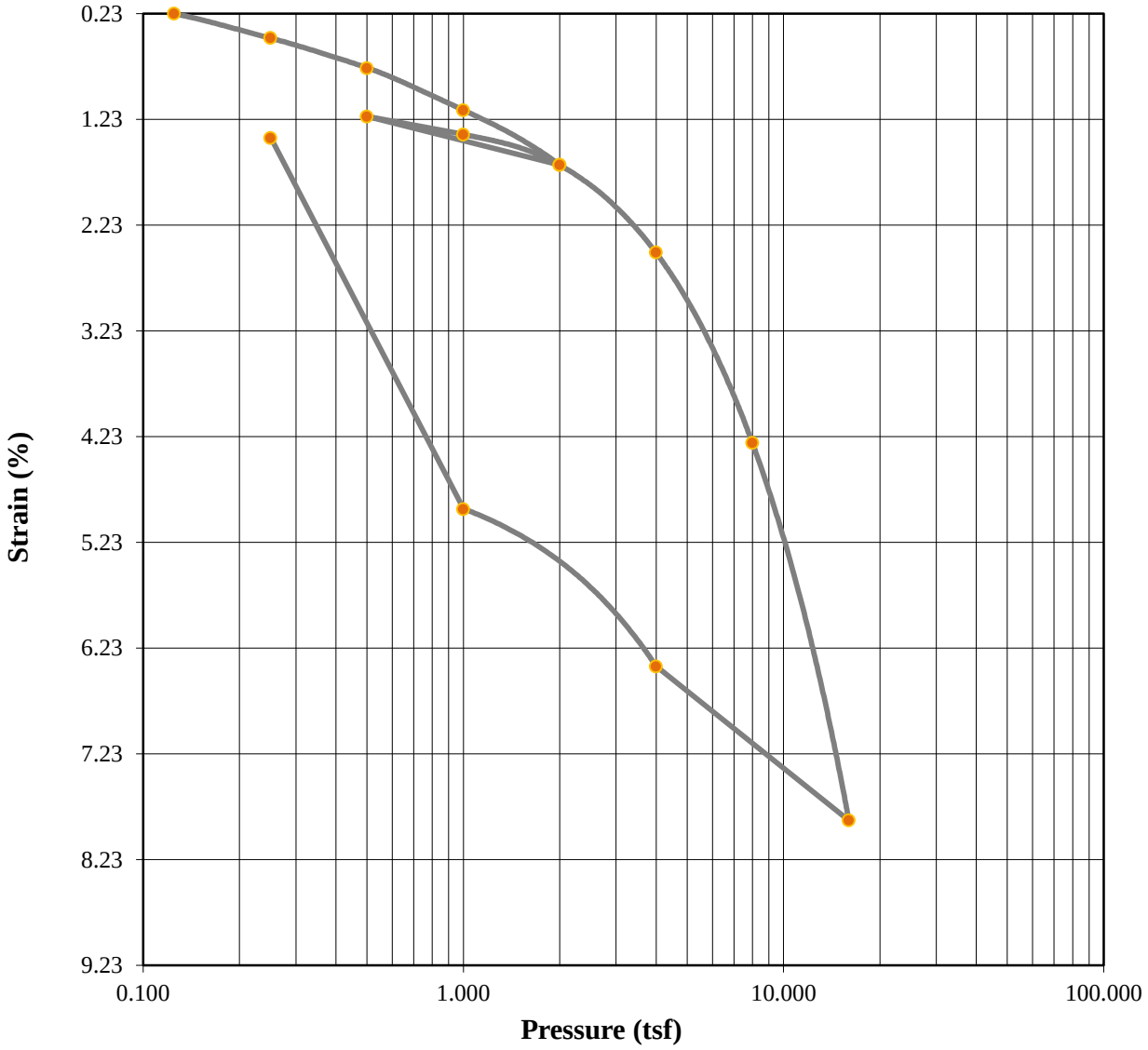
Sample Number: T-7 **Sample Description:**
Boring Number: BW-12 SANDY LEAN CLAY(CL A-6(9))
Depth: 113.0-115.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 33.0000 **Initial Void Ratio:** 0.4714 **Initial Height (in):** 0.9990
Plastic Limit: 12.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.7130 Measured **Weight of Ring (g):** 111.0900

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	134.74	299.37
Dry Soil + Container (g)	120.93	276.83
Weight of Container (g)	32.30	128.06
Moisture Content (%)	15.58	15.15
Void Ratio	0.4714	0.4375
Saturation (%)	88.82	95.73
Dry Density (pcf)	114.76	118.49

Tested By: B. Hak **Checked By:** C. Dugger

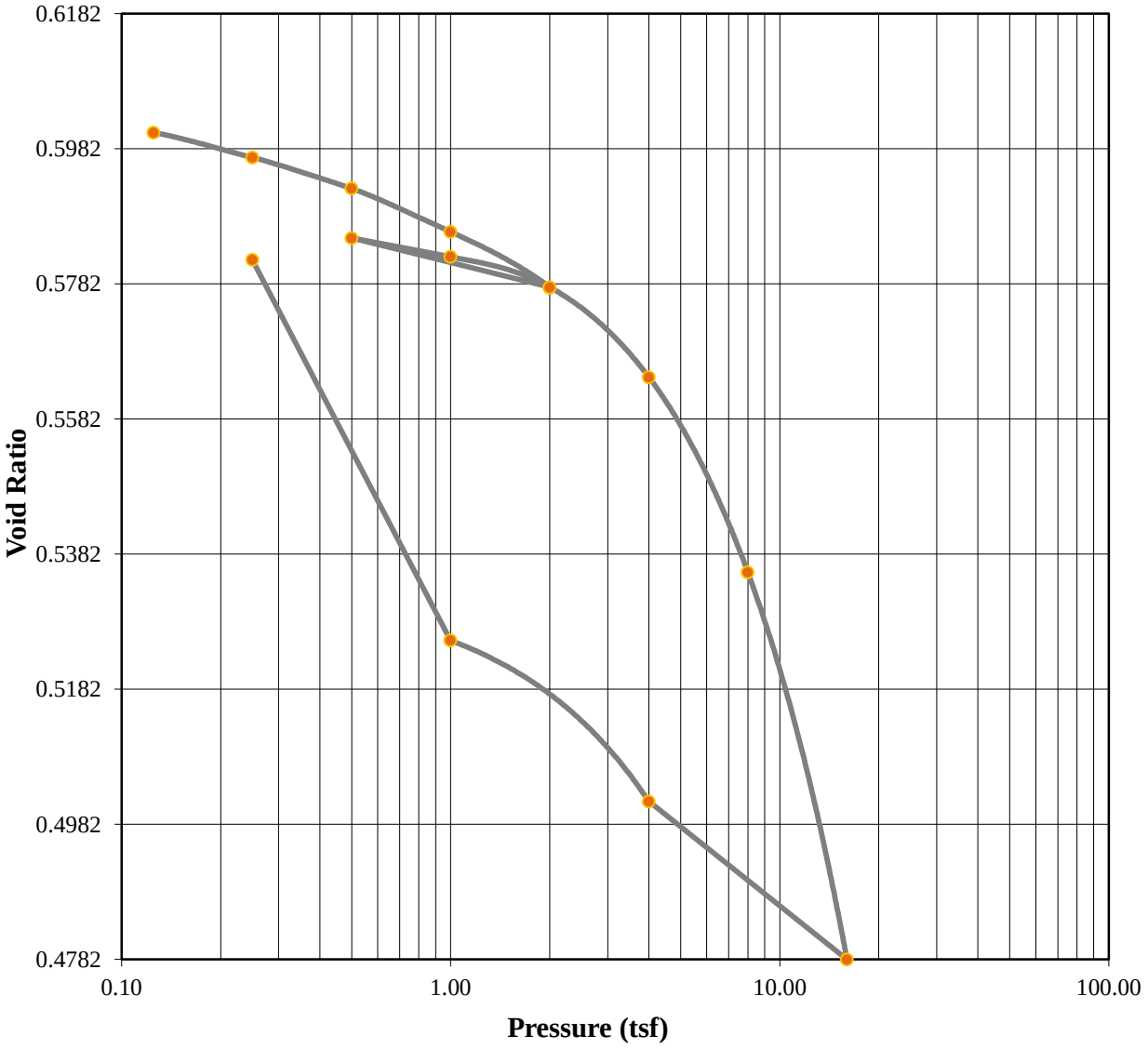
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	55	**Test Date:**	8/7/17
Moisture (%):	25.19	27.90	**Plastic Limits:**	19		
Dry Density (pcf):	97.23	97.65	**Plasticity Index (%):**	0		
Saturation (%):	103.85	116.37				
Void Ratio:	0.6028	0.5803	**Specific Gravity:**	2.503	Measured	

Sample Description:	FAT CLAY with SAND(CH A-7-6(29))			
Project Number:	7928	**Depth:**	140.0-142.0 f	**Remarks:**
Sample Number:	T-9	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

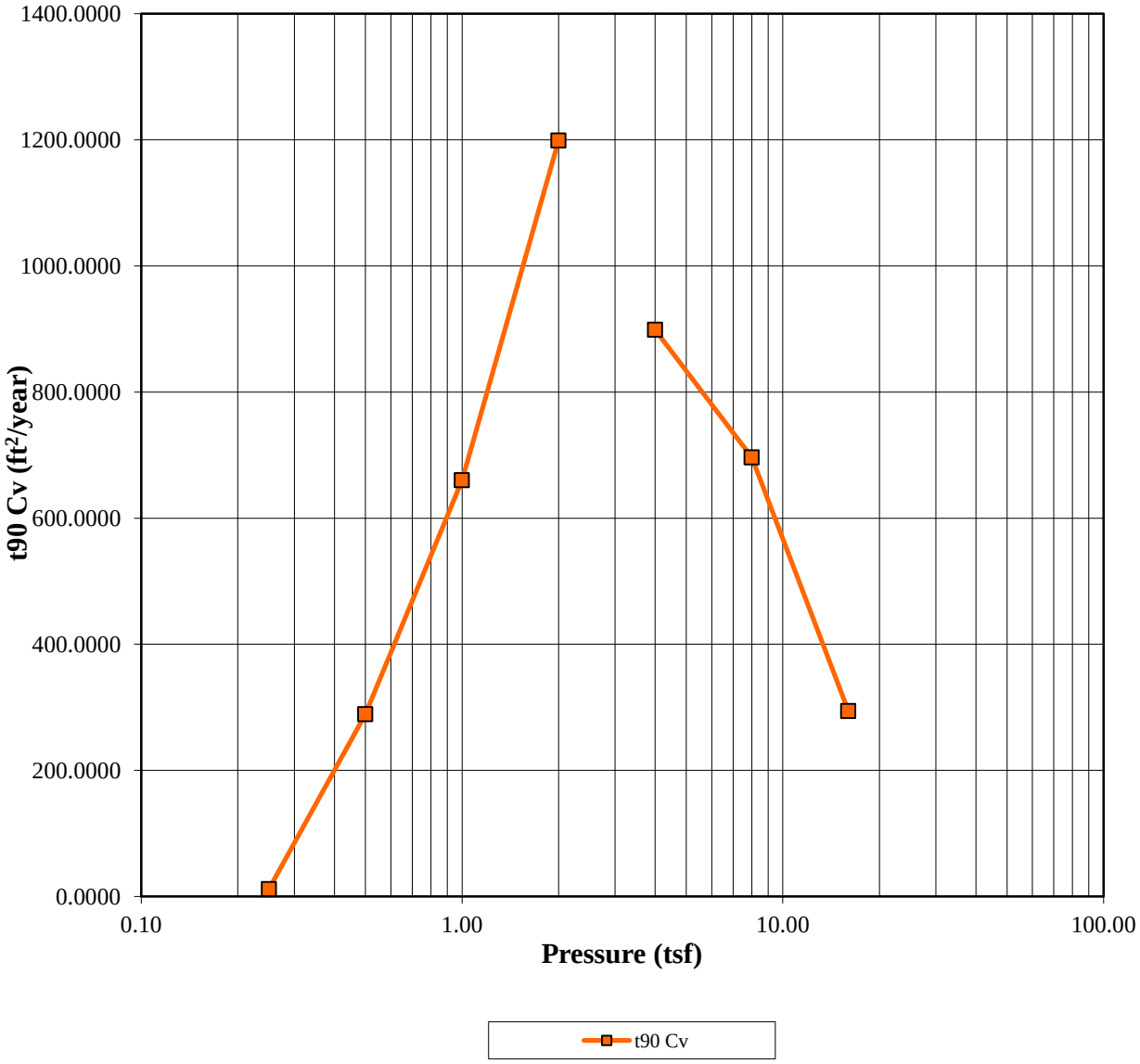
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	55	**Test Date:**	8/7/17
Moisture (%):	25.19	27.90	**Plastic Limits:**	19		
Dry Density (pcf):	97.23	97.65	**Plasticity Index (%):**	0		
Saturation (%):	103.85	116.37				
Void Ratio:	0.6028	0.5803	**Specific Gravity:**	2.503	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(29))			
Project Number:	7928	**Depth:**	140.0-142.0 f	**Remarks:**
Sample Number:	T-9	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

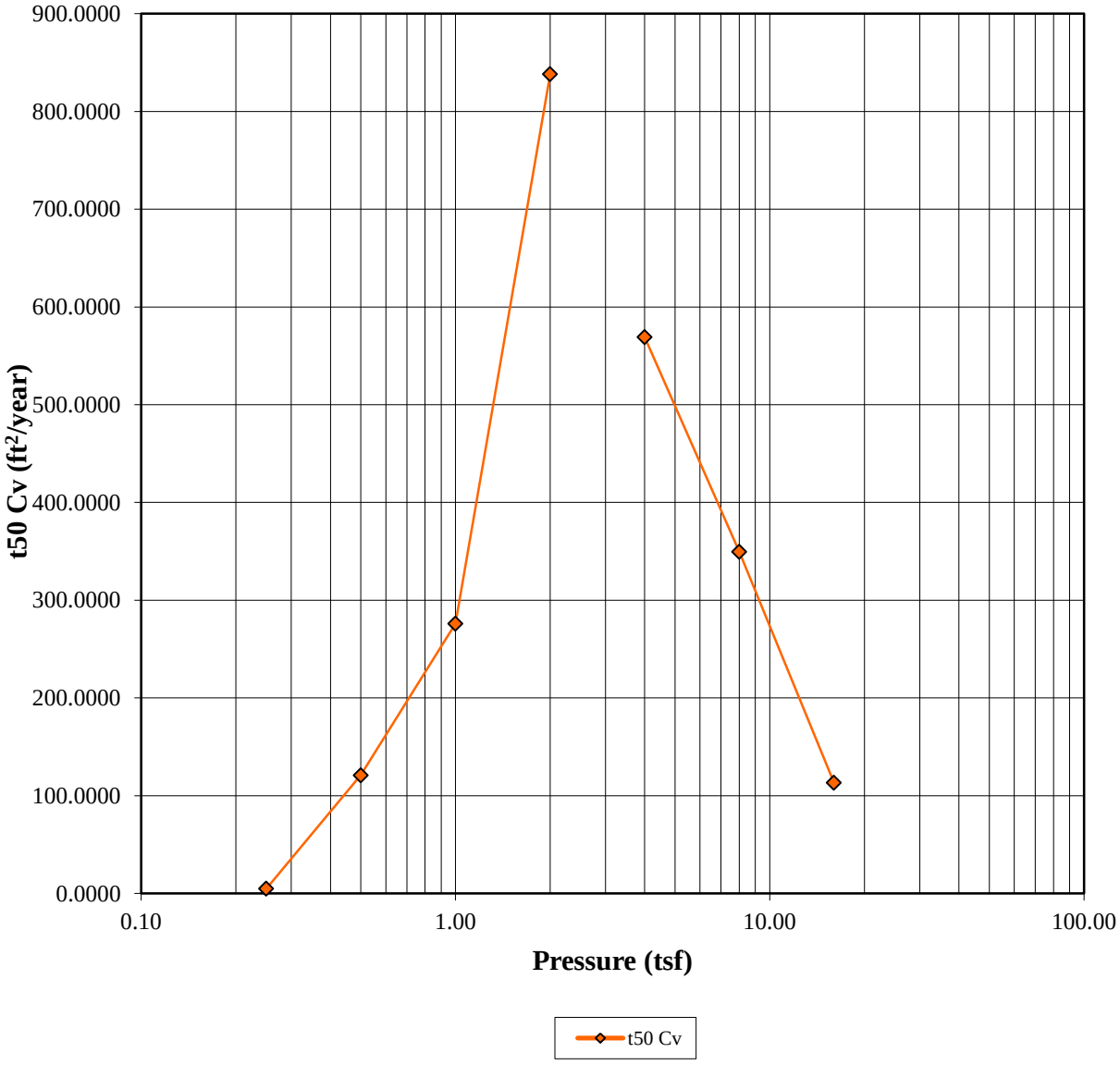
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	55	**Test Date:**	8/7/17
Moisture (%):	25.19	27.90	**Plastic Limits:**	19		
Dry Density (pcf):	97.23	97.65	**Plasticity Index (%):**	0		
Saturation (%):	103.85	116.37				
Void Ratio:	0.6028	0.5803	**Specific Gravity:**	2.503	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(29))			
Project Number:	7928	**Depth:**	140.0-142.0 f	**Remarks:**
Sample Number:	T-9	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

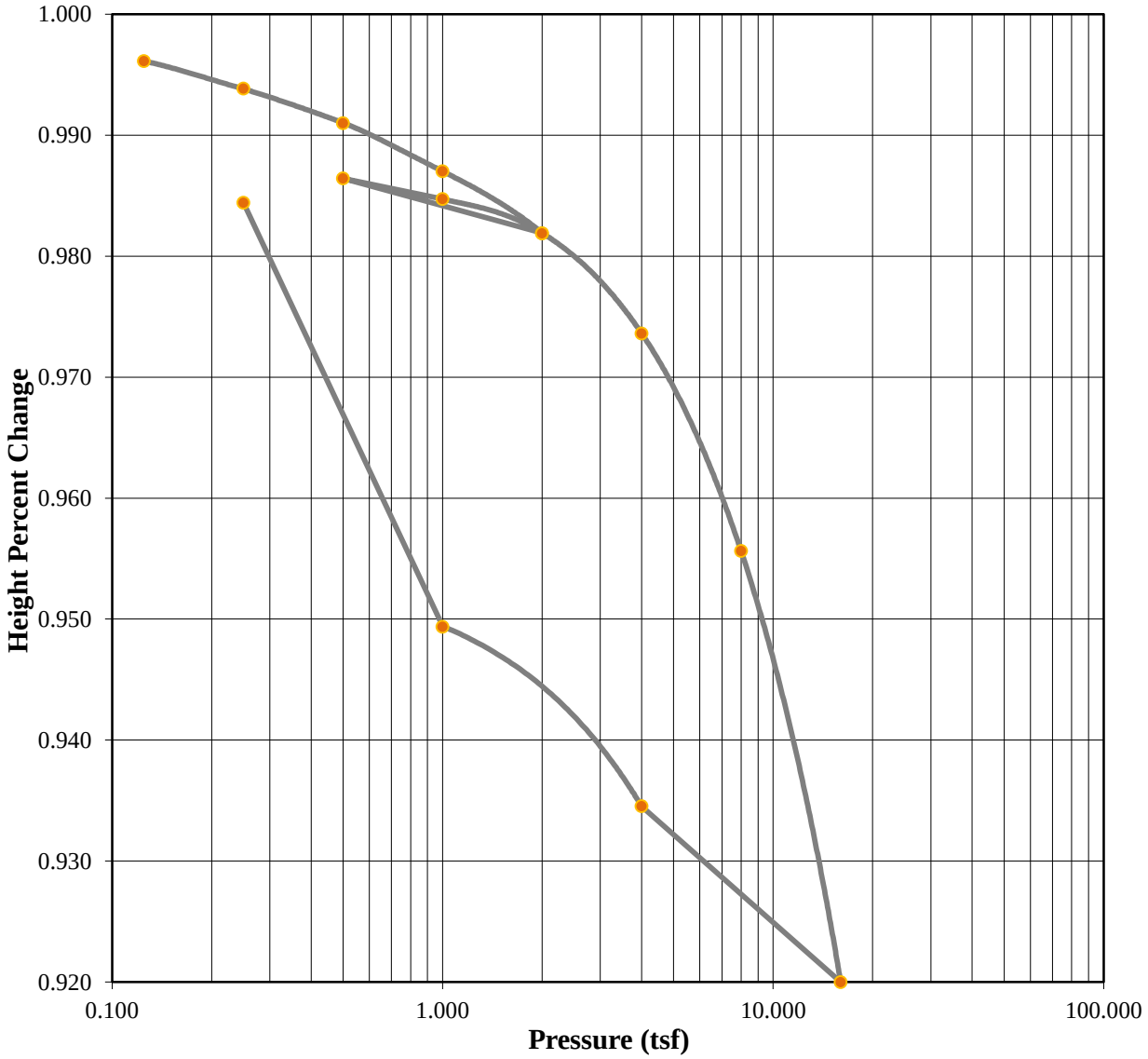
Consolidation Test
Test Results



	Before	After				
Moisture (%):	25.19	27.90	**Liquid Limits:**	55	**Test Date:**	8/7/17
Dry Density (pcf):	97.23	97.65	**Plastic Limits:**	19		
Saturation (%):	103.85	116.37	**Plasticity Index (%):**	0		
Void Ratio:	0.6028	0.5803	**Specific Gravity:**	2.503	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(29))			
Project Number:	7928	**Depth:**	140.0-142.0 f	**Remarks:**
Sample Number:	T-9	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	55	**Test Date:**	8/7/17
Moisture (%):	25.19	27.90	**Plastic Limits:**	19		
Dry Density (pcf):	97.23	97.65	**Plasticity Index (%):**	0		
Saturation (%):	103.85	116.37				
Void Ratio:	0.6028	0.5803	**Specific Gravity:**	2.503	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(29))			
Project Number:	7928	**Depth:**	140.0-142.0 f	**Remarks:**
Sample Number:	T-9	**Boring Number:**	BW-12	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-9
Boring Number: BW-12
Depth: 140.0-142.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(29))
Remarks:

Test Number:
Test Date: 8/7/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.3759	0.00	0.6042	0.000	0.000	0.000	0.000
1	0.125	0.0023	0.9957	0.3736	0.23	0.6006	0.000	0.000	0.000	0.000
2	0.250	0.0046	0.9934	0.3713	0.46	0.5969	65.507	* 36.3927	11.658	4.875
3	0.500	0.0074	0.9906	0.3685	0.74	0.5923	2.625	* 1.4581	289.304	120.975
4	1.000	0.0114	0.9866	0.3645	1.14	0.5859	1.141	* 0.6336	660.418	276.160
5	2.000	0.0165	0.9815	0.3594	1.66	0.5777	0.622	0.207	1199.212	838.116
6	0.500	0.0120	0.9860	0.3639	1.20	0.5850	0.000	0.000	0.000	0.000
7	1.000	0.0137	0.9843	0.3622	1.37	0.5822	0.000	0.000	0.000	0.000
8	2.000	0.0165	0.9815	0.3594	1.66	0.5777	0.000	0.000	0.000	0.000
9	4.000	0.0248	0.9732	0.3511	2.49	0.5644	0.815	0.299	898.900	569.178
10	8.000	0.0428	0.9552	0.3331	4.29	0.5355	1.014	0.469	696.404	349.465
11	16.000	0.0784	0.9196	0.2975	7.86	0.4782	2.223	1.342	294.347	113.302
12	4.000	0.0639	0.9341	0.3120	6.40	0.5016	0.000	0.000	0.000	0.000
13	1.000	0.0490	0.9490	0.3269	4.91	0.5254	0.000	0.000	0.000	0.000
14	0.250	0.0140	0.9840	0.3619	1.40	0.5817	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 8/7/17

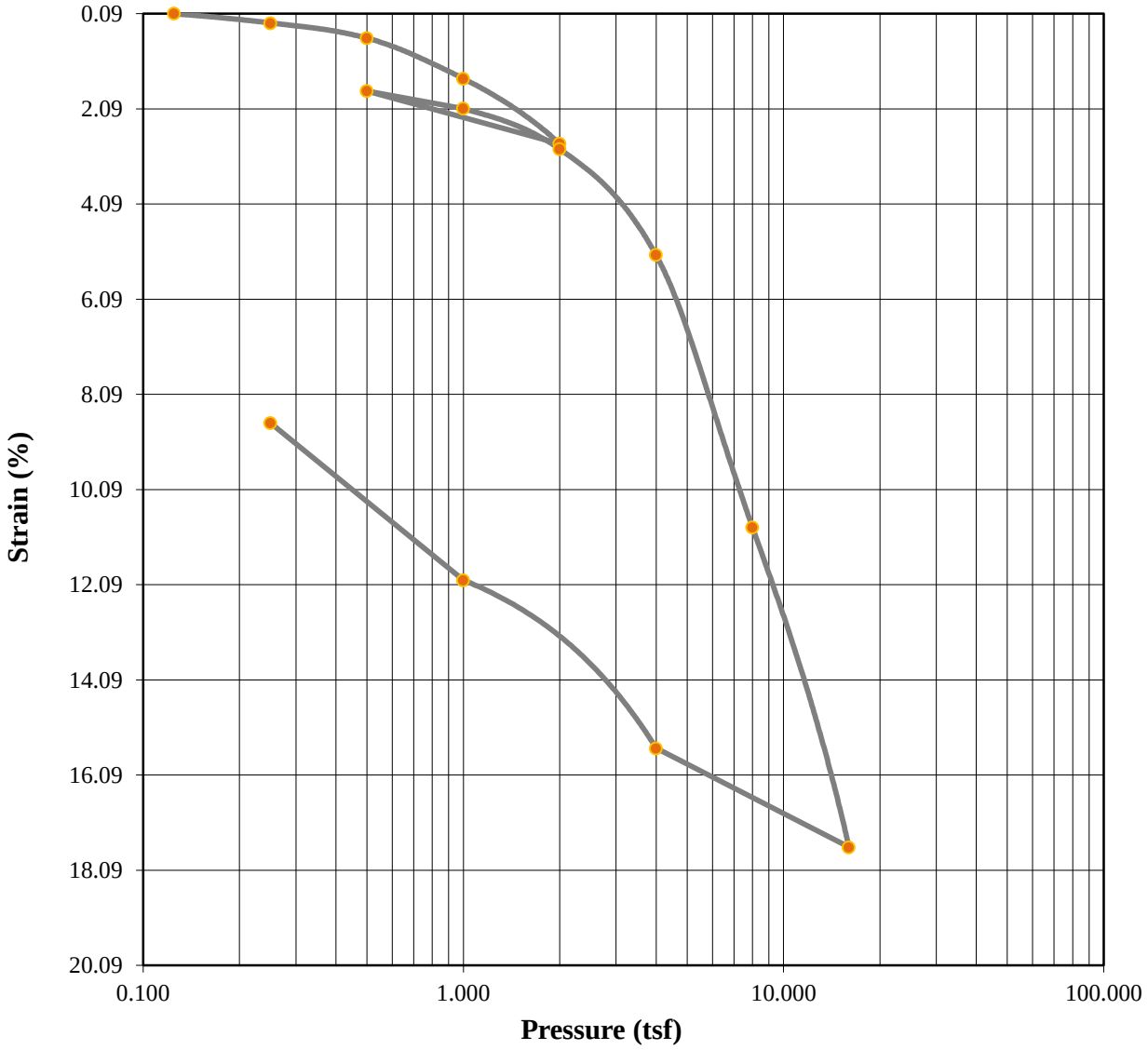
Sample Number: T-9 **Sample Description:**
Boring Number: BW-12 FAT CLAY with SAND(CH A-7-6(29))
Depth: 140.0-142.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 55.0000 **Initial Void Ratio:** 0.6028 **Initial Height (in):** 0.9980
Plastic Limit: 19.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.5030 Measured **Weight of Ring (g):** 110.7300

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	128.35	289.04
Dry Soil + Container (g)	109.10	254.48
Weight of Container (g)	32.68	130.61
Moisture Content (%)	25.19	27.90
Void Ratio	0.6028	0.5803
Saturation (%)	103.85	116.37
Dry Density (pcf)	97.23	97.65

Tested By: B. Hak **Checked By:** C. Dugger

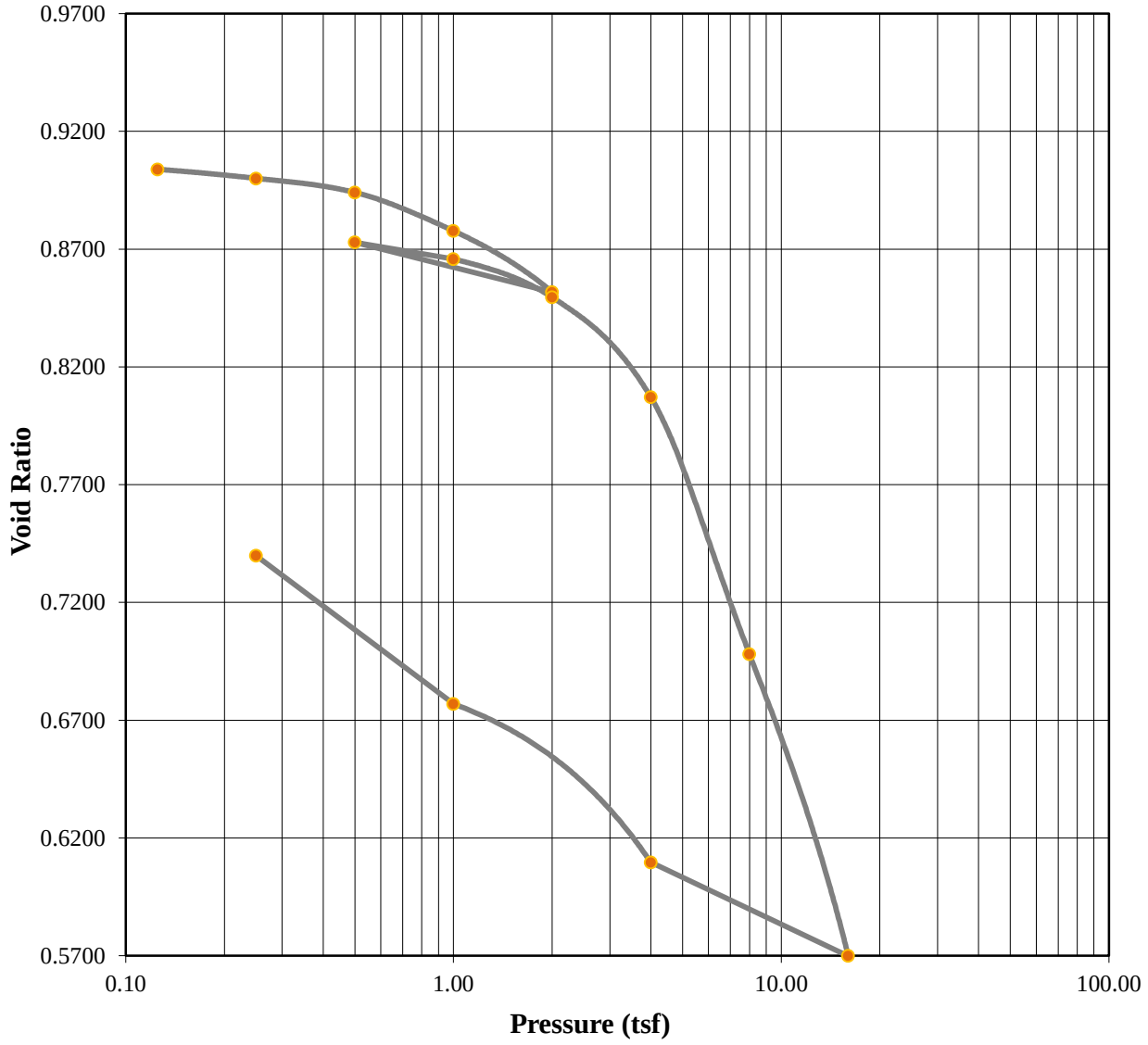
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.76	32.26	**Liquid Limits:**	55	**Test Date:**	4/8/17
Dry Density (pcf):	84.96	92.73	**Plastic Limits:**	16		
Saturation (%):	105.07	111.90	**Plasticity Index (%):**	0		
Void Ratio:	0.9075	0.7417	**Specific Gravity:**	2.598	Measured	

Sample Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7852	**Depth:**	73.0-75.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-14	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

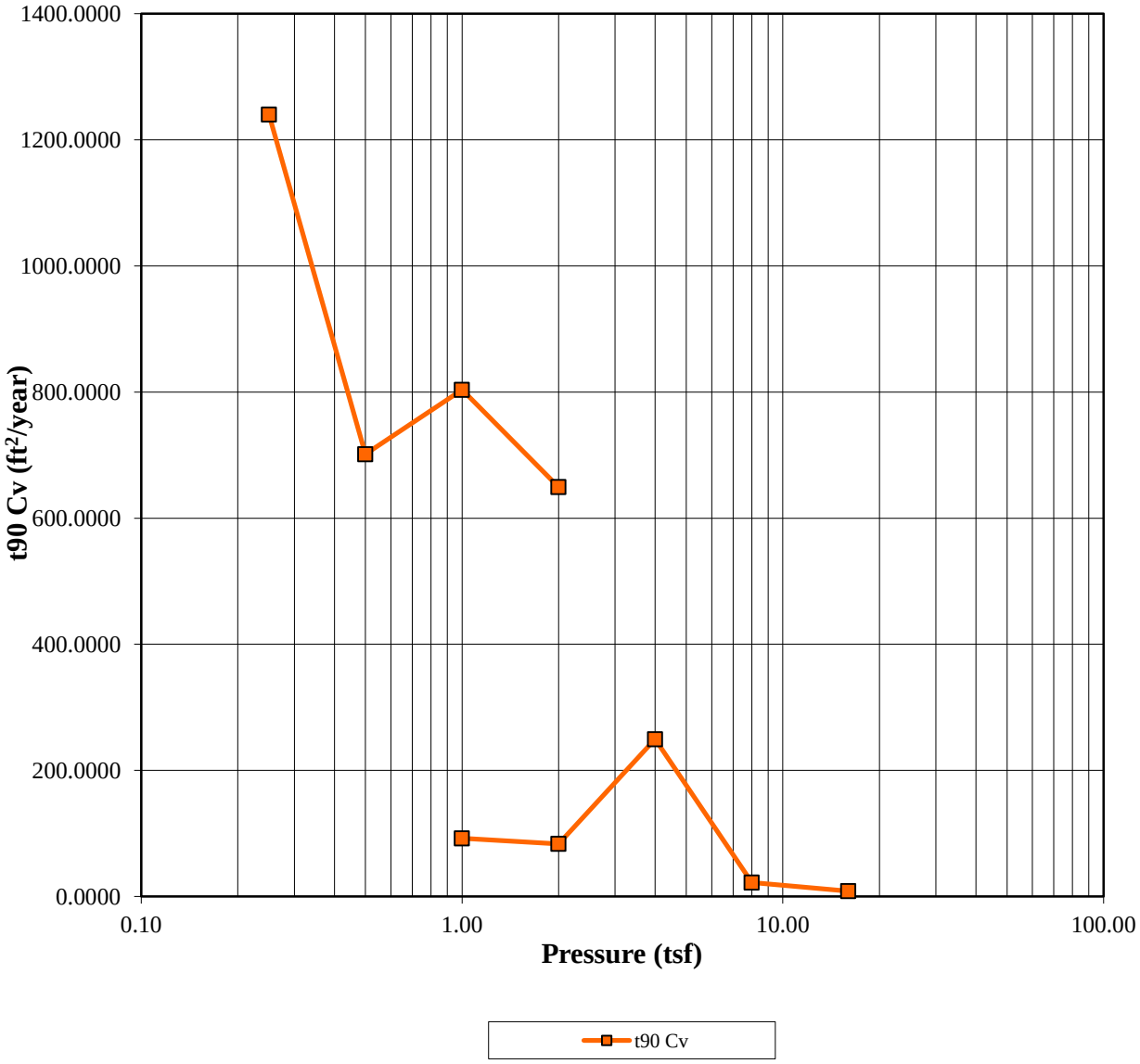
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.76	32.26	**Liquid Limits:**	55	**Test Date:**	4/8/17
Dry Density (pcf):	84.96	92.73	**Plastic Limits:**	16		
Saturation (%):	105.07	111.90	**Plasticity Index (%):**	0		
Void Ratio:	0.9075	0.7417	**Specific Gravity:**	2.598	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7852	**Depth:**	73.0-75.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-14	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

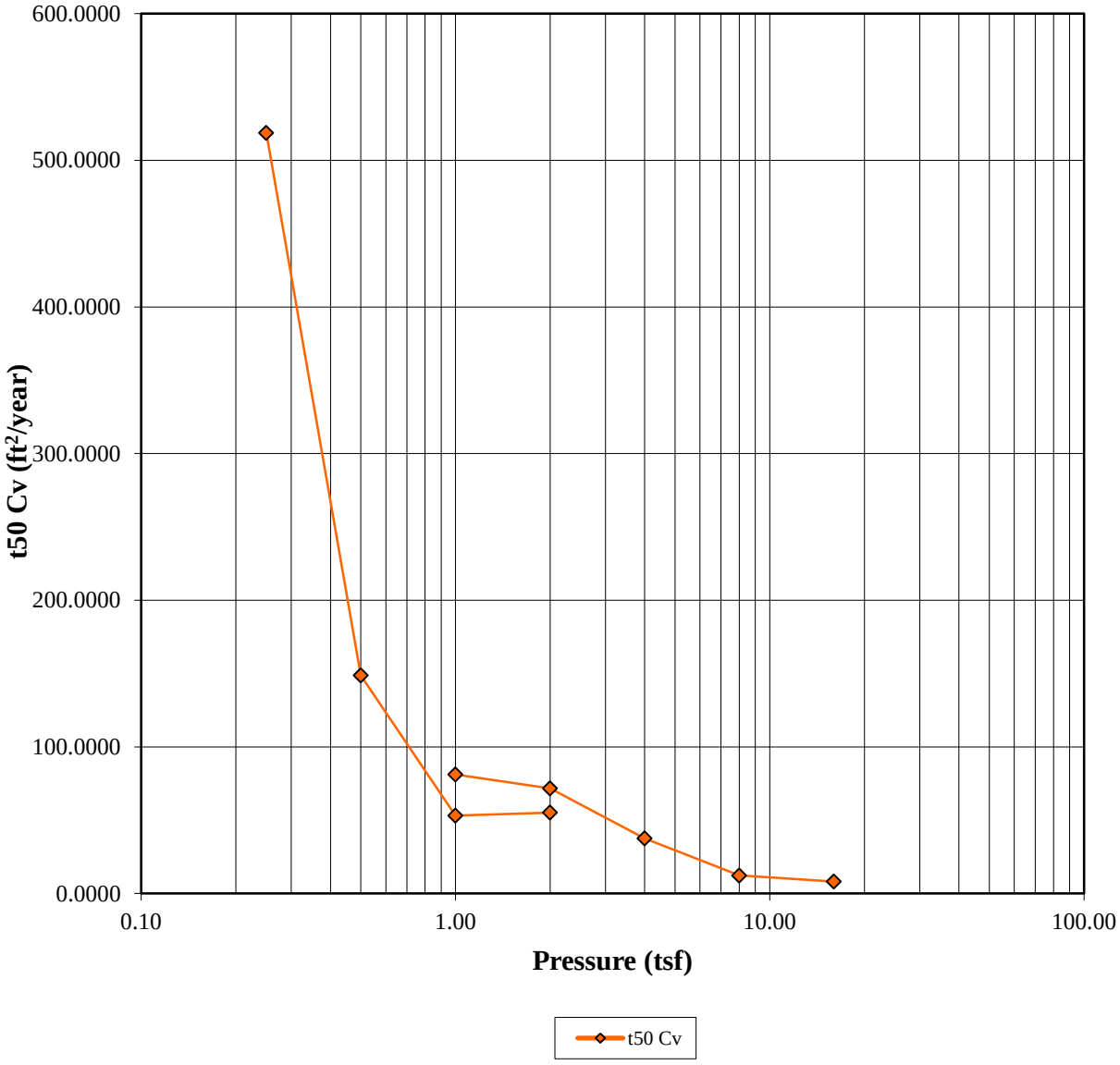
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.76	32.26	**Liquid Limits:**	55	**Test Date:**	4/8/17
Dry Density (pcf):	84.96	92.73	**Plastic Limits:**	16		
Saturation (%):	105.07	111.90	**Plasticity Index (%):**	0		
Void Ratio:	0.9075	0.7417	**Specific Gravity:**	2.598	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7852	**Depth:**	73.0-75.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-14	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

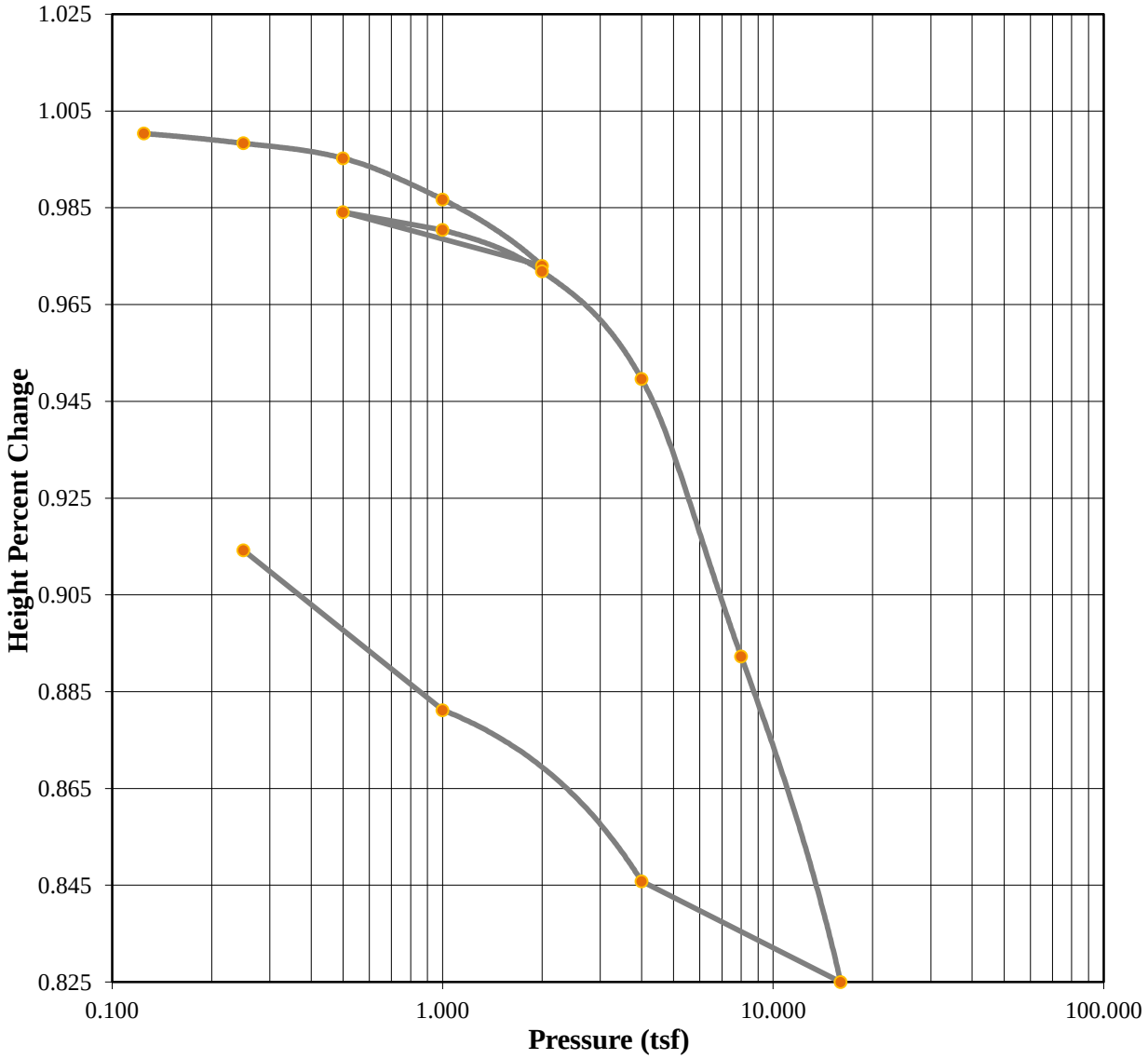
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.76	32.26	**Liquid Limits:**	55	**Test Date:**	4/8/17
Dry Density (pcf):	84.96	92.73	**Plastic Limits:**	16		
Saturation (%):	105.07	111.90	**Plasticity Index (%):**	0		
Void Ratio:	0.9075	0.7417	**Specific Gravity:**	2.598	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7852	**Depth:**	73.0-75.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-14	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.76	32.26	**Liquid Limits:**	55	**Test Date:**	4/8/17
Dry Density (pcf):	84.96	92.73	**Plastic Limits:**	16		
Saturation (%):	105.07	111.90	**Plasticity Index (%):**	0		
Void Ratio:	0.9075	0.7417	**Specific Gravity:**	2.598	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7852	**Depth:**	73.0-75.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-14	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-3
Boring Number: BW-14
Depth: 73.0-75.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(26))
Remarks:

Test Number:
Test Date: 4/8/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0010	0.4757	0.00	0.9055	0.000	0.000	0.000	0.000
1	0.125	0.0009	1.0001	0.4748	0.09	0.9039	0.000	0.000	0.000	0.000
2	0.250	0.0029	0.9981	0.4728	0.28	0.9001	0.622	* 0.3453	1240.347	518.672
3	0.500	0.0060	0.9950	0.4697	0.60	0.8941	1.092	1.197	701.492	148.669
4	1.000	0.0145	0.9865	0.4611	1.45	0.8778	0.937	3.297	803.638	53.060
5	2.000	0.0282	0.9728	0.4474	2.82	0.8518	1.127	3.085	649.489	55.142
6	0.500	0.0171	0.9839	0.4586	1.71	0.8729	0.000	0.000	0.000	0.000
7	1.000	0.0208	0.9802	0.4549	2.08	0.8659	8.071	2.128	92.114	81.160
8	2.000	0.0294	0.9716	0.4463	2.93	0.8496	8.736	2.368	83.619	71.675
9	4.000	0.0516	0.9494	0.4241	5.16	0.8072	2.797	4.304	249.382	37.646
10	8.000	0.1089	0.8921	0.3668	10.88	0.6981	27.732	11.675	22.205	12.253
11	16.000	0.1762	0.8248	0.2995	17.60	0.5700	62.246	14.932	8.457	8.190
12	4.000	0.1554	0.8456	0.3203	15.52	0.6097	0.000	0.000	0.000	0.000
13	1.000	0.1200	0.8810	0.3556	11.99	0.6770	0.000	0.000	0.000	0.000
14	0.250	0.0870	0.9140	0.3887	8.69	0.7399	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 4/8/17

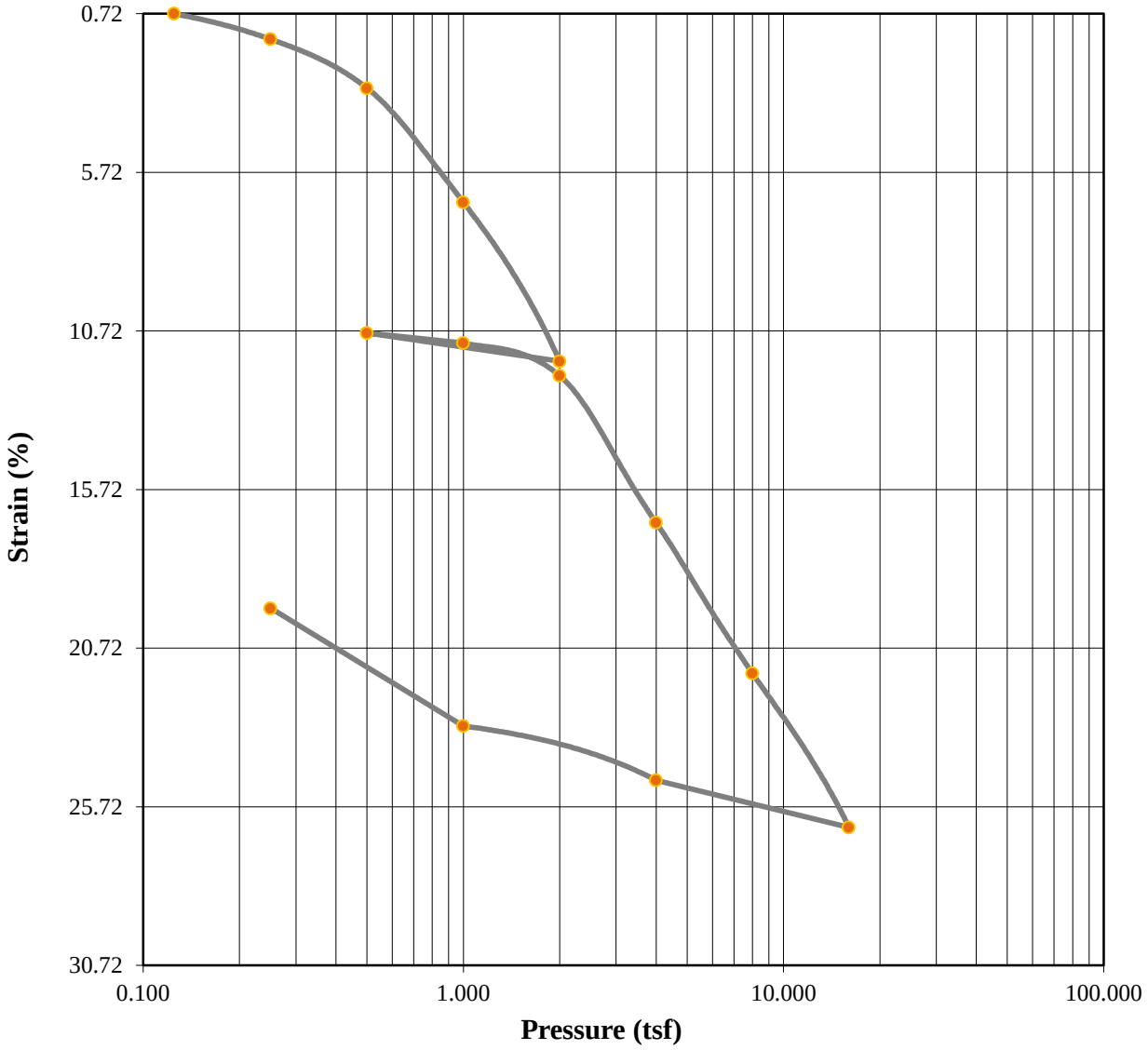
Sample Number: T-3 **Sample Description:**
Boring Number: BW-14 FAT CLAY with SAND(CH A-7-6(26))
Depth: 73.0-75.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 55.0000 **Initial Void Ratio:** 0.9075 **Initial Height (in):** 1.0010
Plastic Limit: 16.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.5980 Measured **Weight of Ring (g):** 111.1100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	143.39	273.02
Dry Soil + Container (g)	113.48	237.83
Weight of Container (g)	32.12	128.75
Moisture Content (%)	36.76	32.26
Void Ratio	0.9075	0.7417
Saturation (%)	105.07	111.90
Dry Density (pcf)	84.96	92.73

Tested By: B. Hak **Checked By:** C. Dugger

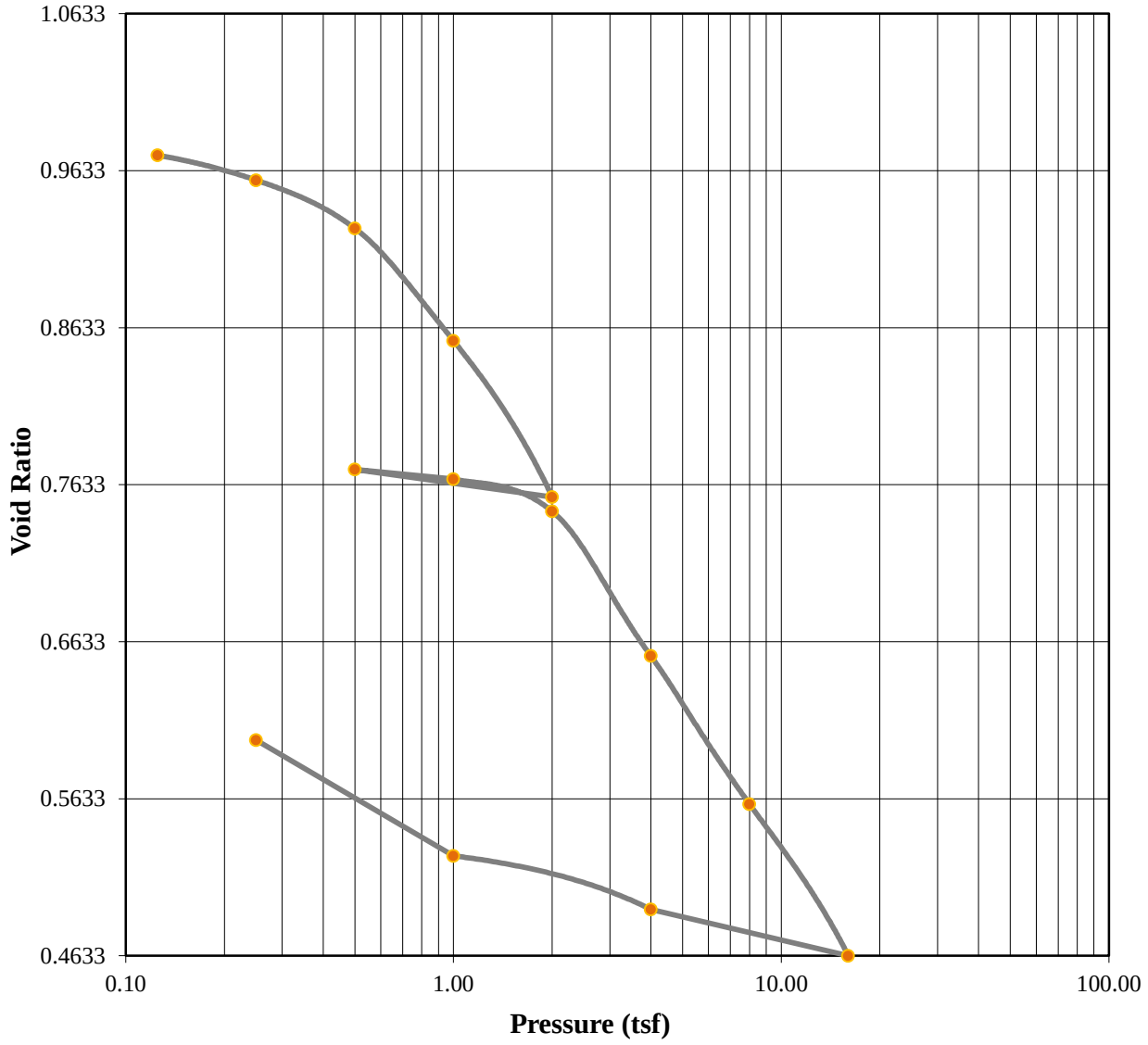
Consolidation Test
Test Results



	Before	After				
Moisture (%):	34.05	22.99	**Liquid Limits:**	44	**Test Date:**	3/14/17
Dry Density (pcf):	84.70	103.81	**Plastic Limits:**	13		
Saturation (%):	92.82	99.47	**Plasticity Index (%):**	0		
Void Ratio:	0.9863	0.5998	**Specific Gravity:**	2.701	Measured	

Sample Description:	CLAYEY SAND(SC A-7-6(10))			
Project Number:	7852	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

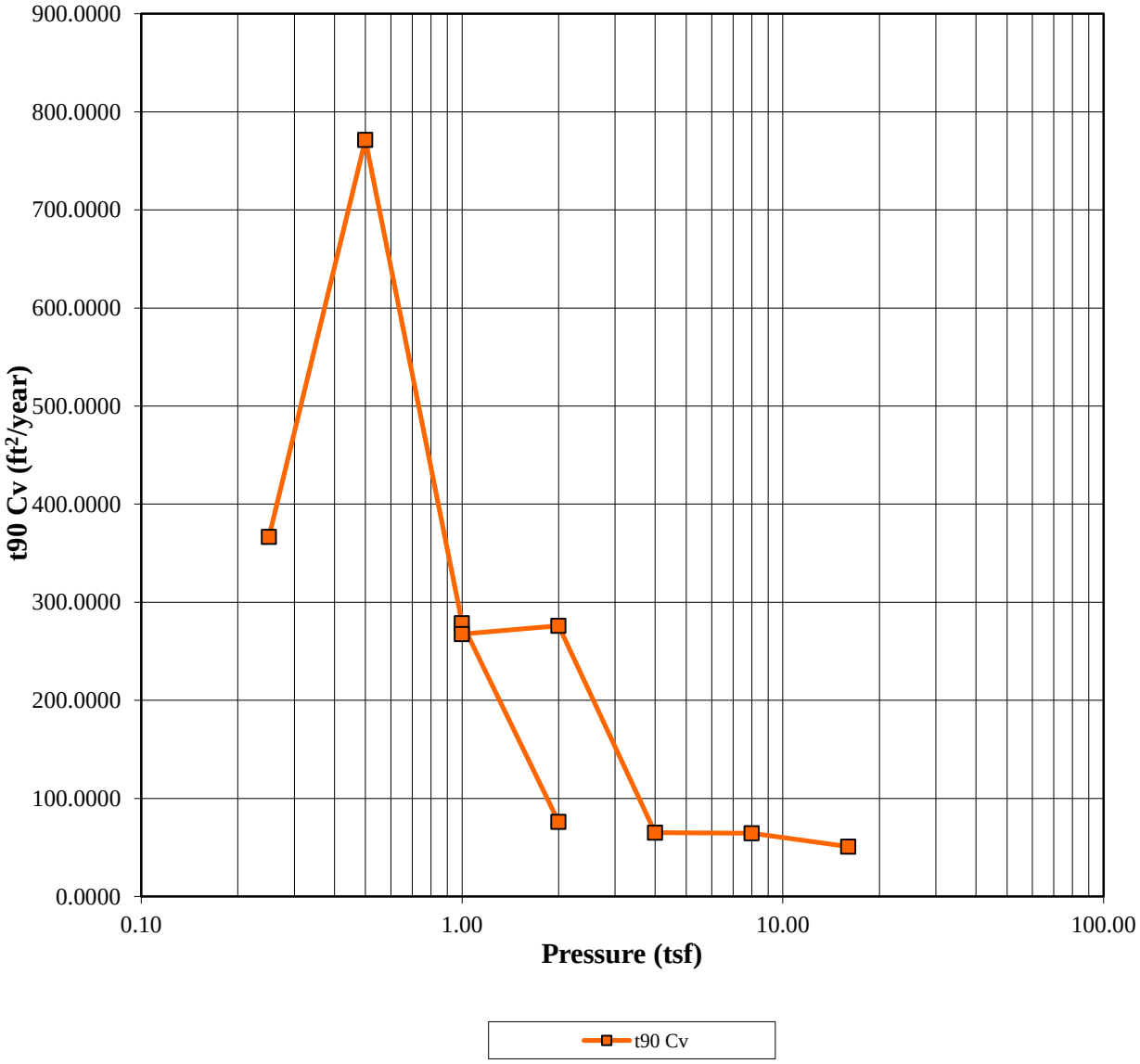
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	44	**Test Date:**	3/14/17
Moisture (%):	34.05	22.99	**Plastic Limits:**	13		
Dry Density (pcf):	84.70	103.81	**Plasticity Index (%):**	0		
Saturation (%):	92.82	99.47				
Void Ratio:	0.9863	0.5998	**Specific Gravity:**	2.701	Measured	

Soil Description:	CLAYEY SAND(SC A-7-6(10))			
Project Number:	7852	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

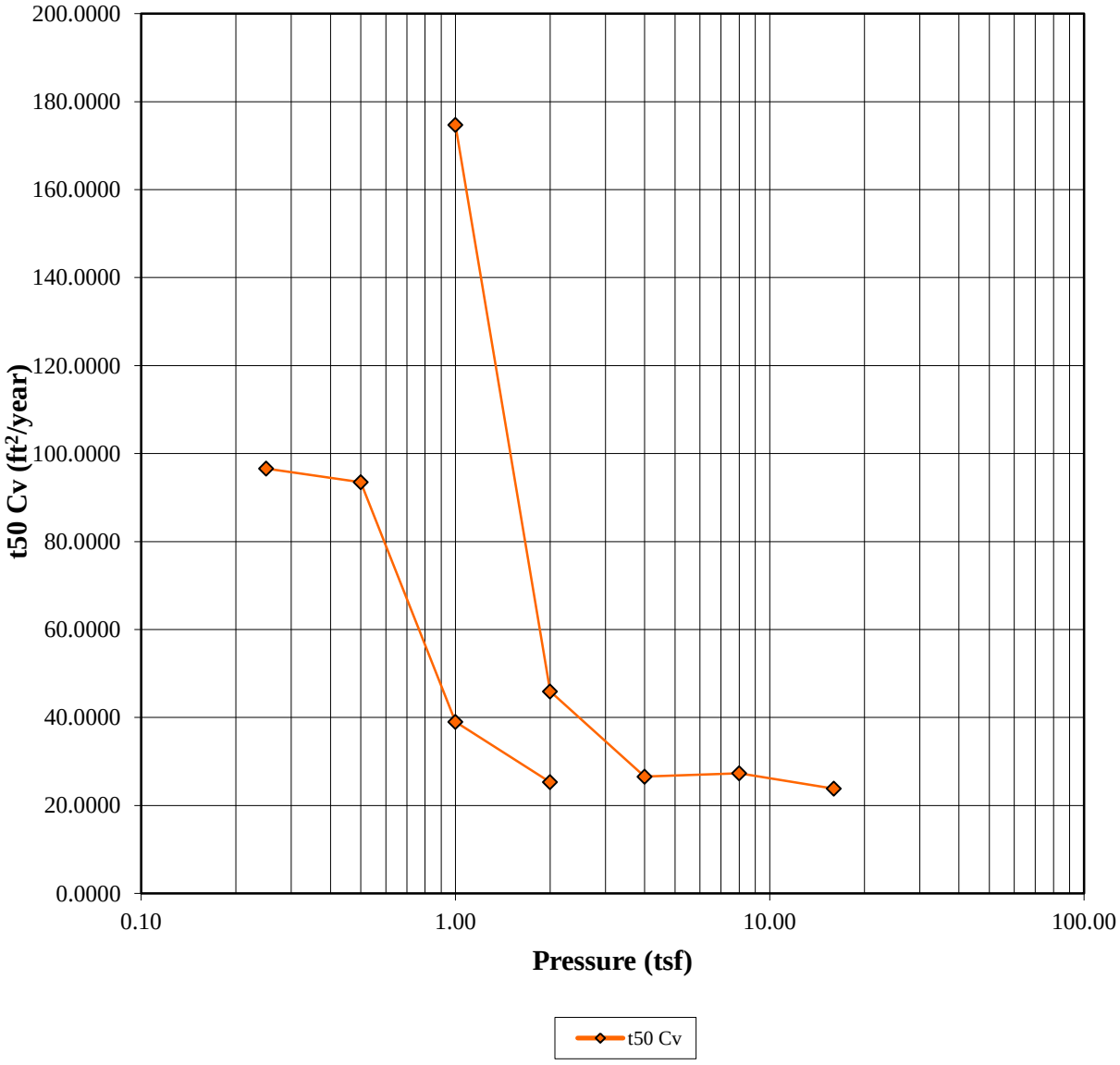
Consolidation Test
Test Results



	Before	After				
Moisture (%):	34.05	22.99	**Liquid Limits:**	44	**Test Date:**	3/14/17
Dry Density (pcf):	84.70	103.81	**Plastic Limits:**	13		
Saturation (%):	92.82	99.47	**Plasticity Index (%):**	0		
Void Ratio:	0.9863	0.5998	**Specific Gravity:**	2.701	Measured	

Soil Description:	CLAYEY SAND(SC A-7-6(10))			
Project Number:	7852	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

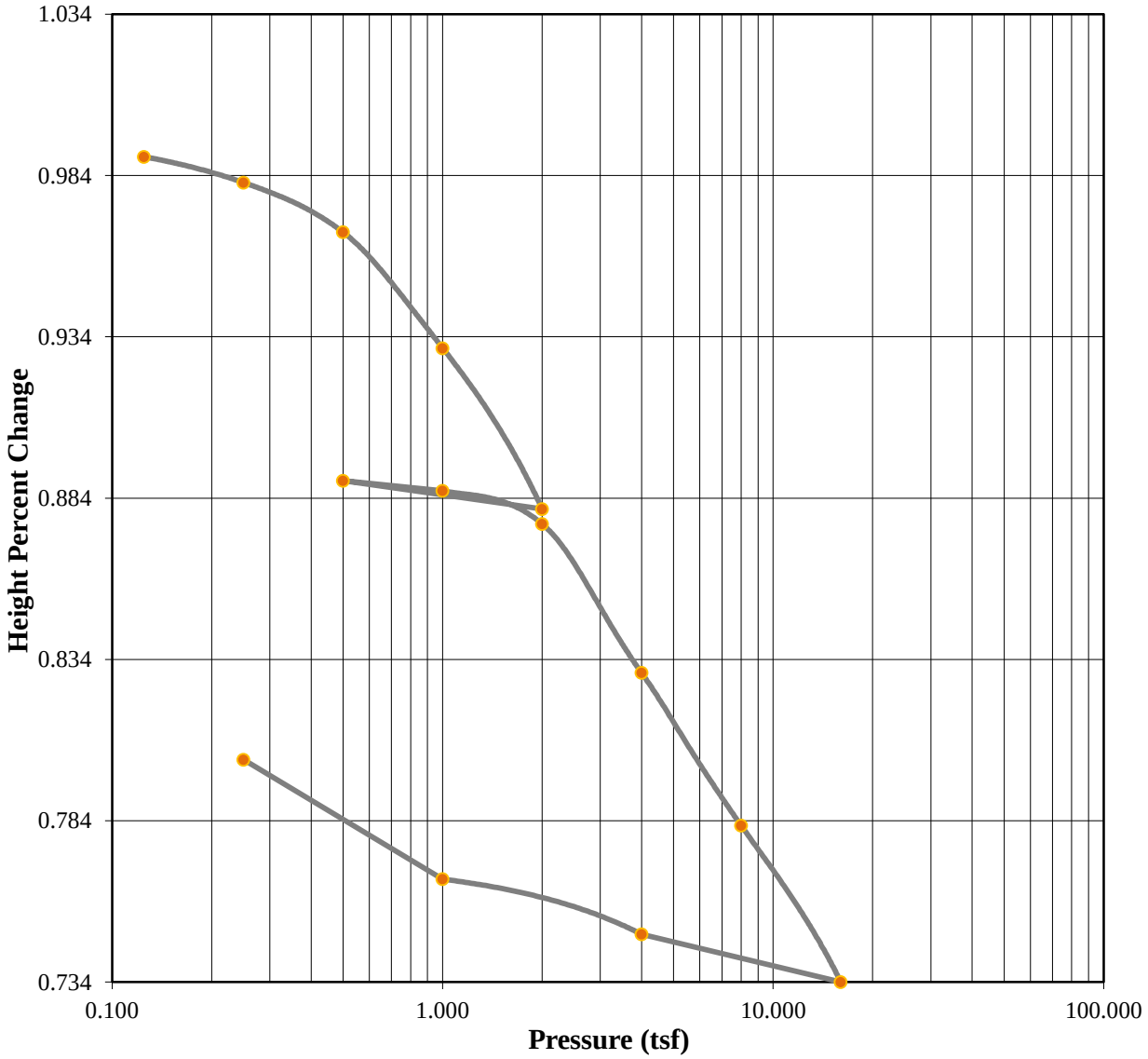
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	44	**Test Date:**	3/14/17
Moisture (%):	34.05	22.99	**Plastic Limits:**	13		
Dry Density (pcf):	84.70	103.81	**Plasticity Index (%):**	0		
Saturation (%):	92.82	99.47				
Void Ratio:	0.9863	0.5998	**Specific Gravity:**	2.701	Measured	

Soil Description:	CLAYEY SAND(SC A-7-6(10))			
Project Number:	7852	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	34.05	22.99	**Liquid Limits:**	44	**Test Date:**	3/14/17
Dry Density (pcf):	84.70	103.81	**Plastic Limits:**	13		
Saturation (%):	92.82	99.47	**Plasticity Index (%):**	0		
Void Ratio:	0.9863	0.5998	**Specific Gravity:**	2.701	Measured	

Soil Description:	CLAYEY SAND(SC A-7-6(10))			
Project Number:	7852	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-1
Boring Number: BW-15
Depth: 18.5-20.5 ft.
Sample Type: Undisturbed

Sample Description: CLAYEY SAND(SC A-7-6(10))
Remarks:

Test Number:
Test Date: 3/14/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.4953	0.00	0.9873	0.000	0.000	0.000	0.000
1	0.125	0.0071	0.9899	0.4882	0.72	0.9731	0.000	0.000	0.000	0.000
2	0.250	0.0151	0.9819	0.4802	1.52	0.9572	2.035	1.794	366.531	96.584
3	0.500	0.0305	0.9665	0.4648	3.06	0.9265	0.937	1.796	771.430	93.489
4	1.000	0.0664	0.9306	0.4289	6.66	0.8549	2.405	3.990	278.617	39.014
5	2.000	0.1163	0.8807	0.3790	11.67	0.7554	7.881	5.509	76.150	25.306
6	0.500	0.1075	0.8895	0.3878	10.78	0.7730	0.000	0.000	0.000	0.000
7	1.000	0.1106	0.8864	0.3847	11.10	0.7668	2.272	0.808	267.563	174.700
8	2.000	0.1209	0.8761	0.3744	12.13	0.7463	2.151	3.005	276.119	45.912
9	4.000	0.1671	0.8299	0.3282	16.76	0.6542	8.179	4.663	65.159	26.555
10	8.000	0.2144	0.7826	0.2809	21.51	0.5599	7.361	4.027	64.377	27.339
11	16.000	0.2629	0.7341	0.2324	26.37	0.4633	8.198	4.064	50.867	23.837
12	4.000	0.2481	0.7489	0.2472	24.88	0.4928	0.000	0.000	0.000	0.000
13	1.000	0.2310	0.7660	0.2644	23.17	0.5269	0.000	0.000	0.000	0.000
14	0.250	0.1940	0.8030	0.3013	19.46	0.6006	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/14/17

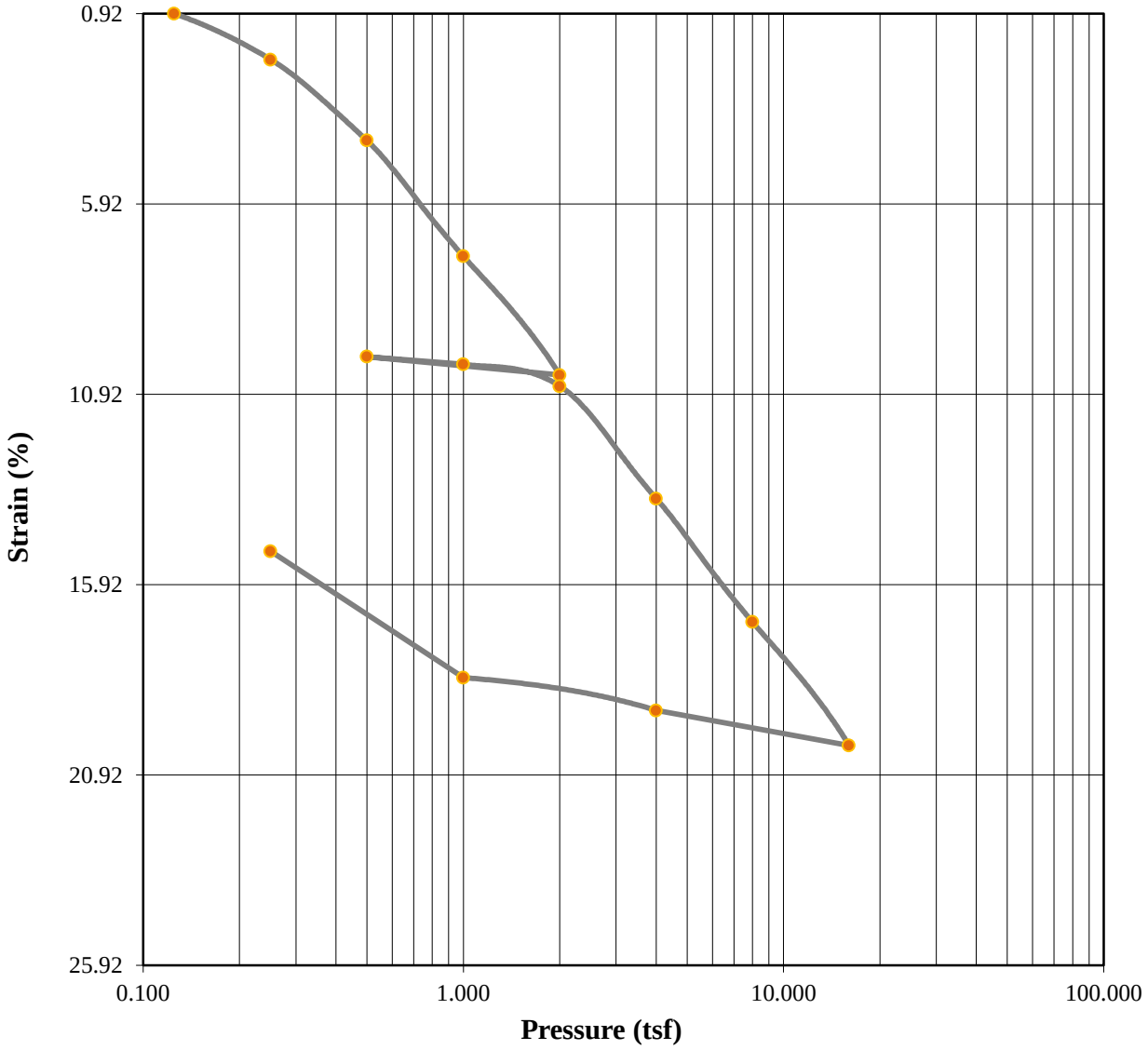
Sample Number: T-1 **Sample Description:**
Boring Number: BW-15 CLAYEY SAND(SC A-7-6(10))
Depth: 18.5-20.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 44.0000 **Initial Void Ratio:** 0.9863 **Initial Height (in):** 0.9970
Plastic Limit: 13.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.7010 Measured **Weight of Ring (g):** 110.7700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	131.73	265.03
Dry Soil + Container (g)	106.43	240.40
Weight of Container (g)	32.12	133.28
Moisture Content (%)	34.05	22.99
Void Ratio	0.9863	0.5998
Saturation (%)	92.82	99.47
Dry Density (pcf)	84.70	103.81

Tested By: B. Hak **Checked By:** C. Dugger

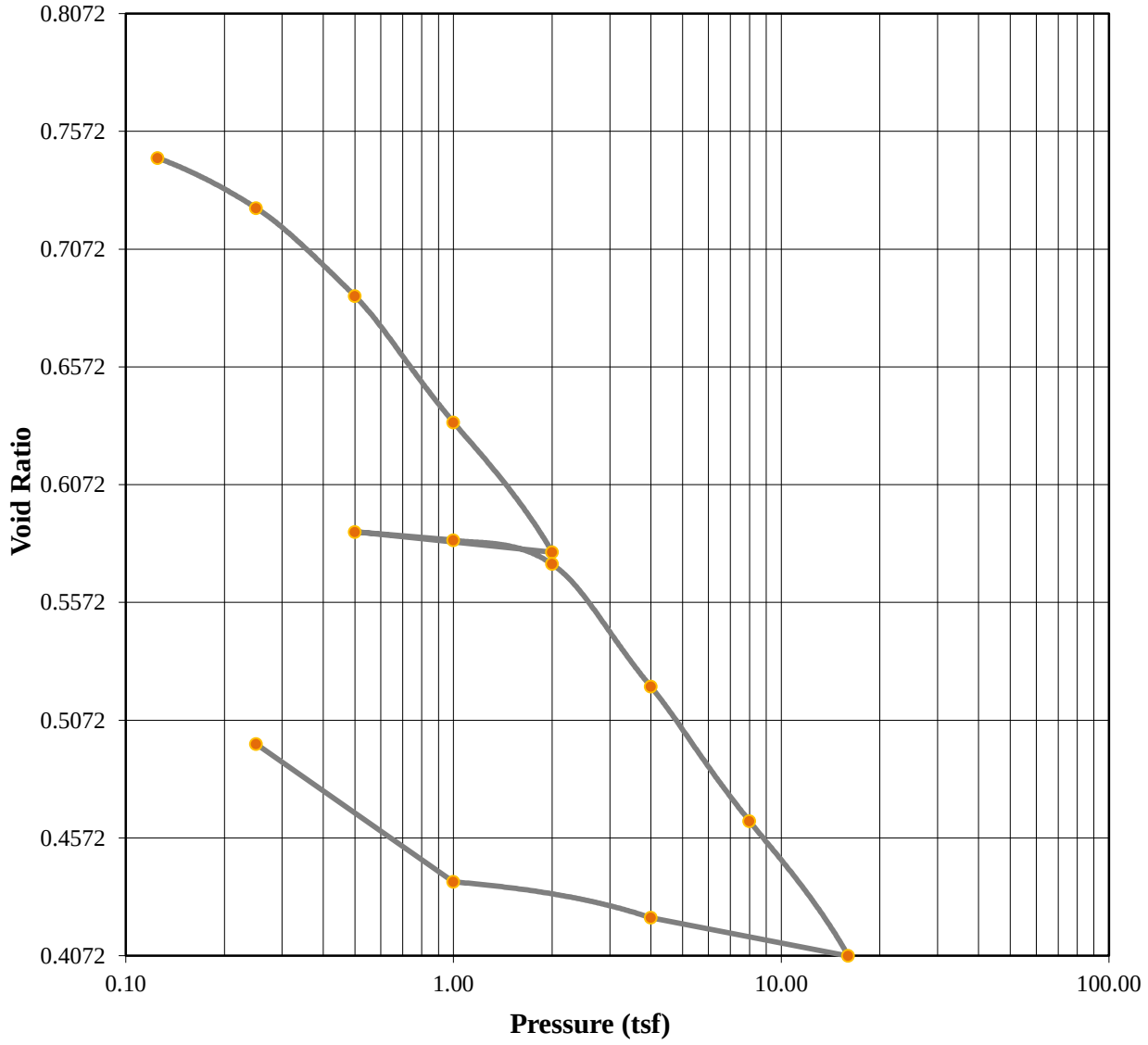
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.85	23.93	**Liquid Limits:**	0	**Test Date:**	3/16/17
Dry Density (pcf):	88.31	104.56	**Plastic Limits:**	0		
Saturation (%):	100.67	121.72	**Plasticity Index (%):**	0		
Void Ratio:	0.7660	0.5004	**Specific Gravity:**	2.497	Measured	

Sample Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	28.5-30.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

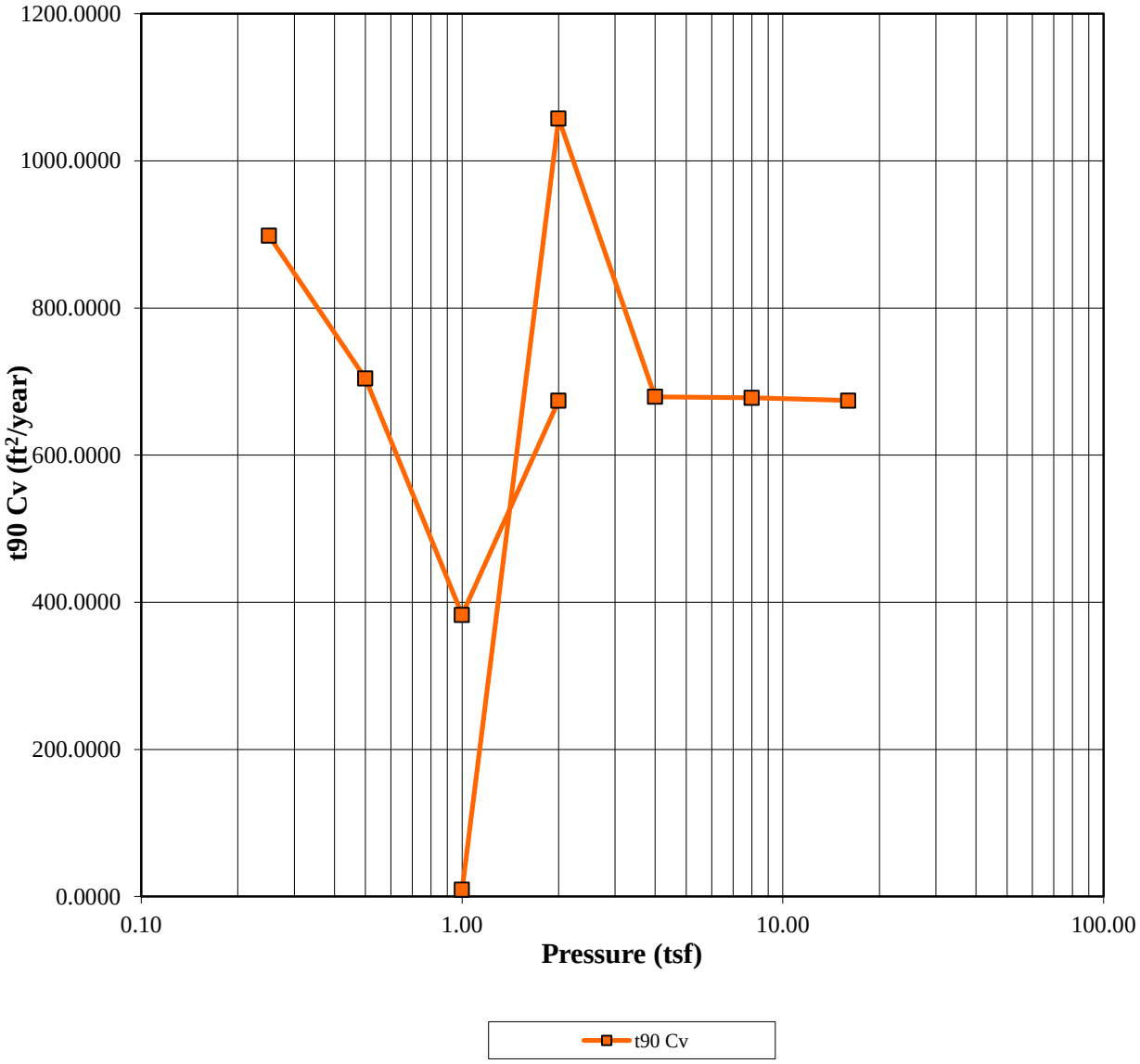
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	3/16/17
Moisture (%):	30.85	23.93	**Plastic Limits:**	0		
Dry Density (pcf):	88.31	104.56	**Plasticity Index (%):**	0		
Saturation (%):	100.67	121.72				
Void Ratio:	0.7660	0.5004	**Specific Gravity:**	2.497	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	28.5-30.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

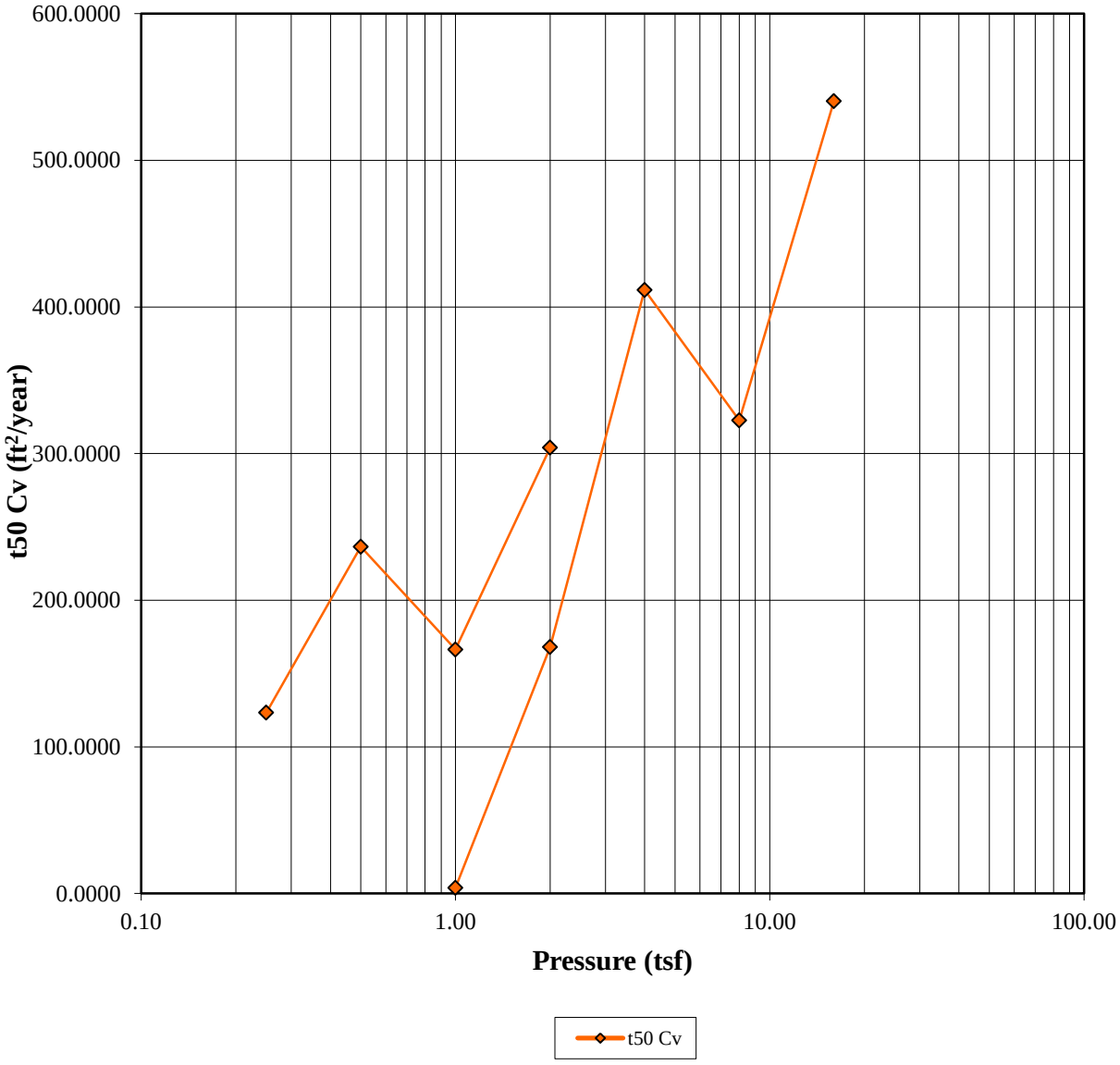
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.85	23.93	**Liquid Limits:**	0	**Test Date:**	3/16/17
Dry Density (pcf):	88.31	104.56	**Plastic Limits:**	0		
Saturation (%):	100.67	121.72	**Plasticity Index (%):**	0		
Void Ratio:	0.7660	0.5004	**Specific Gravity:**	2.497	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	28.5-30.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

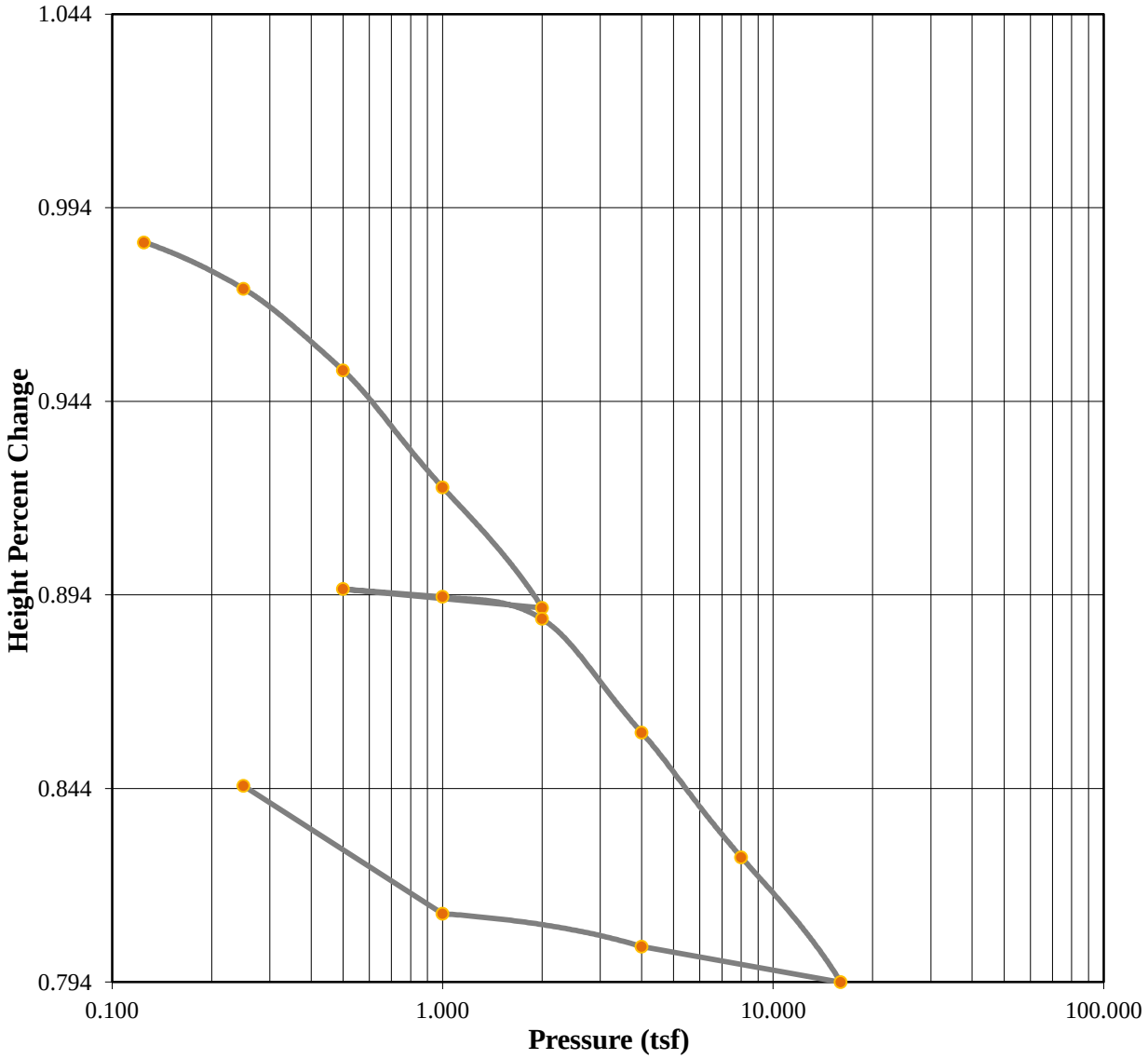
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	3/16/17
Moisture (%):	30.85	23.93	**Plastic Limits:**	0		
Dry Density (pcf):	88.31	104.56	**Plasticity Index (%):**	0		
Saturation (%):	100.67	121.72				
Void Ratio:	0.7660	0.5004	**Specific Gravity:**	2.497	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	28.5-30.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.85	23.93	**Liquid Limits:**	0	**Test Date:**	3/16/17
Dry Density (pcf):	88.31	104.56	**Plastic Limits:**	0		
Saturation (%):	100.67	121.72	**Plasticity Index (%):**	0		
Void Ratio:	0.7660	0.5004				
			Specific Gravity:	2.497	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	28.5-30.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-15	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-2
Boring Number: BW-15
Depth: 28.5-30.5 ft.
Sample Type: Undisturbed

Sample Description: SILTY SAND(SM A-2-4(0))
Remarks:

Test Number:
Test Date: 3/16/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.4299	0.00	0.7621	0.000	0.000	0.000	0.000
1	0.125	0.0091	0.9849	0.4208	0.92	0.7459	0.000	0.000	0.000	0.000
2	0.250	0.0211	0.9729	0.4088	2.12	0.7247	0.815	1.379	898.245	123.348
3	0.500	0.0422	0.9518	0.3877	4.25	0.6873	0.995	0.688	704.207	236.568
4	1.000	0.0724	0.9216	0.3575	7.29	0.6337	1.717	0.917	382.831	166.448
5	2.000	0.1035	0.8905	0.3264	10.41	0.5786	0.910	0.469	674.010	304.173
6	0.500	0.0987	0.8953	0.3312	9.93	0.5872	0.000	0.000	0.000	0.000
7	1.000	0.1007	0.8933	0.3292	10.13	0.5837	65.491	* 36.3839	9.429	3.943
8	2.000	0.1064	0.8876	0.3235	10.70	0.5735	0.577	0.843	1057.621	168.115
9	4.000	0.1357	0.8583	0.2942	13.65	0.5215	0.839	0.322	679.355	411.643
10	8.000	0.1679	0.8261	0.2619	16.90	0.4644	0.779	0.380	677.860	322.710
11	16.000	0.2002	0.7938	0.2297	20.14	0.4072	0.723	0.210	674.165	540.452
12	4.000	0.1910	0.8030	0.2389	19.22	0.4234	0.000	0.000	0.000	0.000
13	1.000	0.1825	0.8115	0.2474	18.36	0.4386	0.000	0.000	0.000	0.000
14	0.250	0.1495	0.8445	0.2804	15.04	0.4971	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/16/17

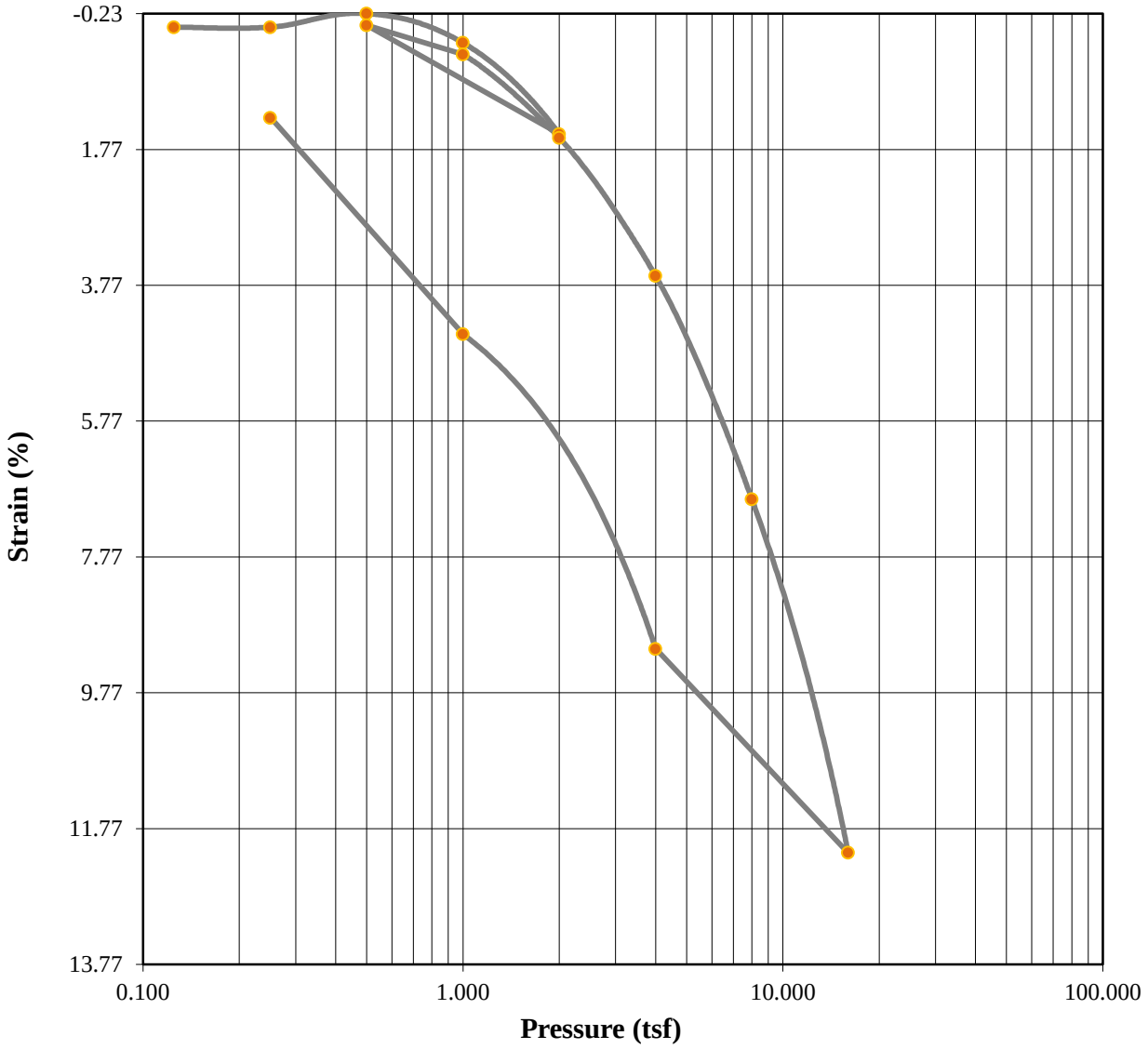
Sample Number: T-2 **Sample Description:**
Boring Number: BW-15 SILTY SAND(SM A-2-4(0))
Depth: 28.5-30.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 0.7660 **Initial Height (in):** 0.9940
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4970
Specific Gravity: 2.4970 Measured **Weight of Ring (g):** 98.6600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	139.45	273.29
Dry Soil + Container (g)	112.48	246.25
Weight of Container (g)	25.06	133.26
Moisture Content (%)	30.85	23.93
Void Ratio	0.7660	0.5004
Saturation (%)	100.67	121.72
Dry Density (pcf)	88.31	104.56

Tested By: B. Hak **Checked By:** C. Dugger

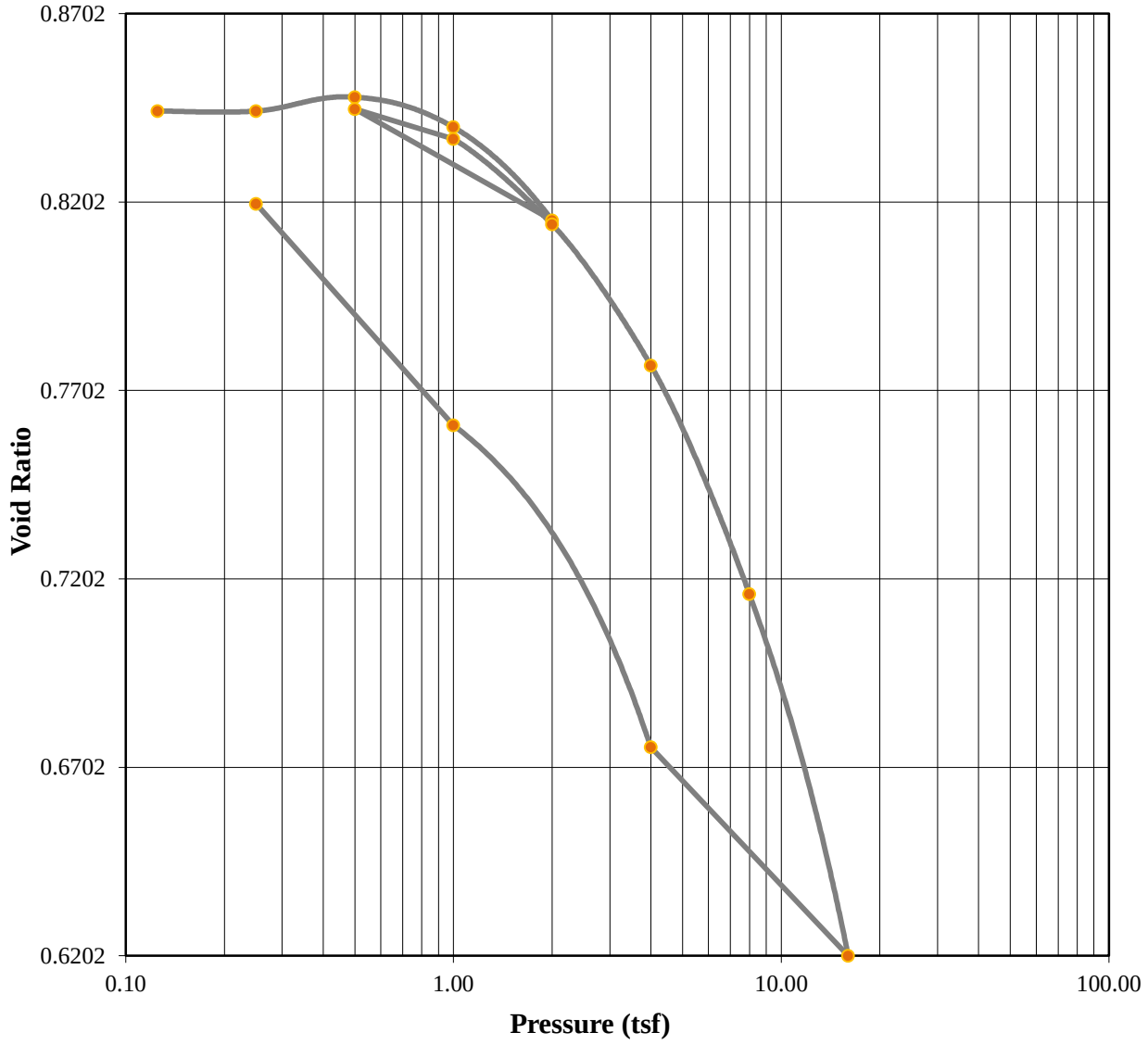
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	31	**Test Date:**	3/29/17
Moisture (%):	36.35	38.62	**Plastic Limits:**	14		
Dry Density (pcf):	84.46	85.20	**Plasticity Index (%):**	0		
Saturation (%):	107.24	116.12				
Void Ratio:	0.8434	0.8193	**Specific Gravity:**	2.499	Measured	

Sample Description:	FAT CLAY(CH A-7-6(95))			
Project Number:	7852	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-16	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

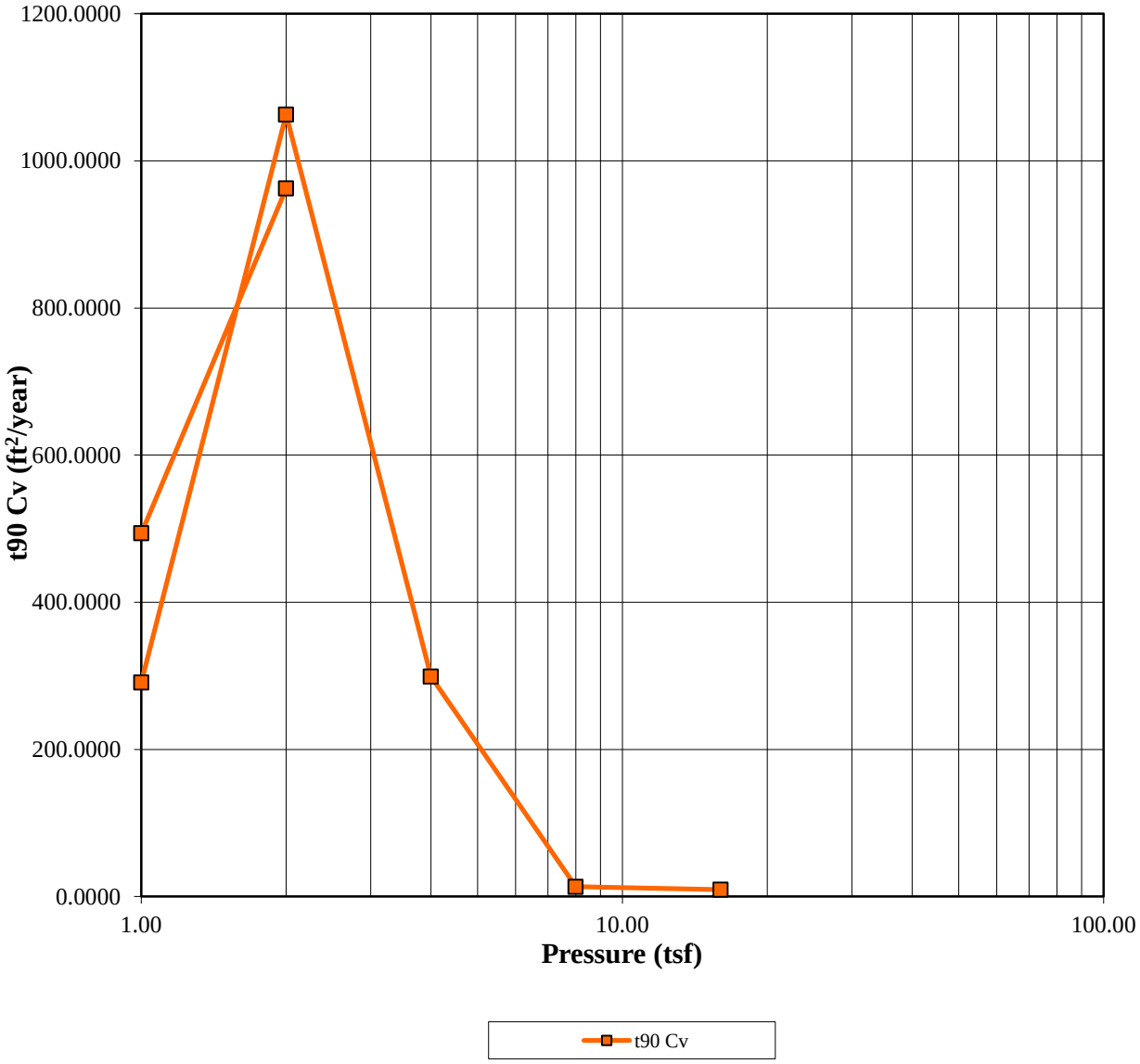
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.35	38.62	**Liquid Limits:**	31	**Test Date:**	3/29/17
Dry Density (pcf):	84.46	85.20	**Plastic Limits:**	14		
Saturation (%):	107.24	116.12	**Plasticity Index (%):**	0		
Void Ratio:	0.8434	0.8193	**Specific Gravity:**	2.499	Measured	

Soil Description:	FAT CLAY(CH A-7-6(95))			
Project Number:	7852	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-16	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

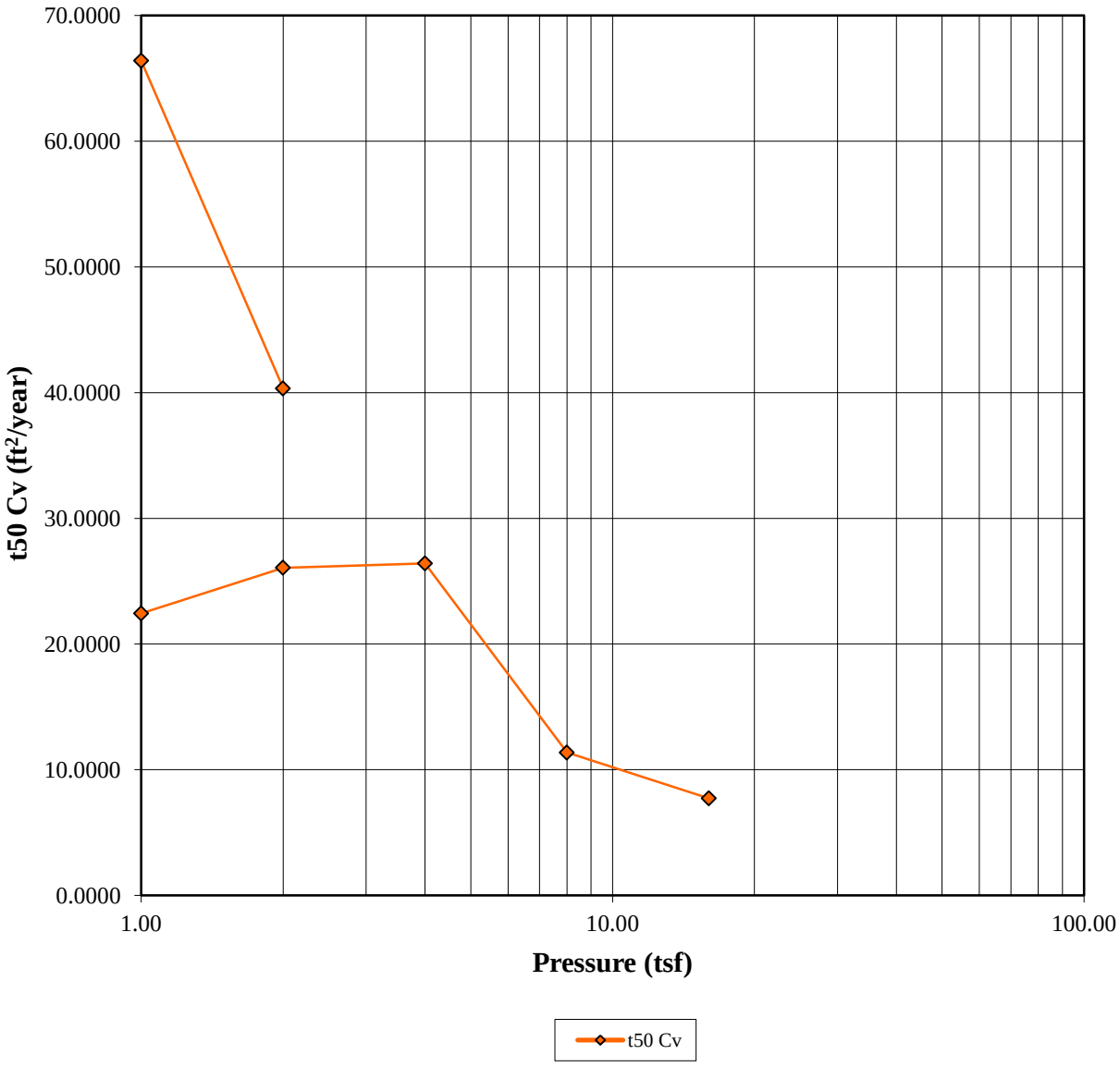
Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.35	38.62	**Liquid Limits:**	31	**Test Date:**	3/29/17
Dry Density (pcf):	84.46	85.20	**Plastic Limits:**	14		
Saturation (%):	107.24	116.12	**Plasticity Index (%):**	0		
Void Ratio:	0.8434	0.8193	**Specific Gravity:**	2.499	Measured	

Soil Description:	FAT CLAY(CH A-7-6(95))			
Project Number:	7852	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-16	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

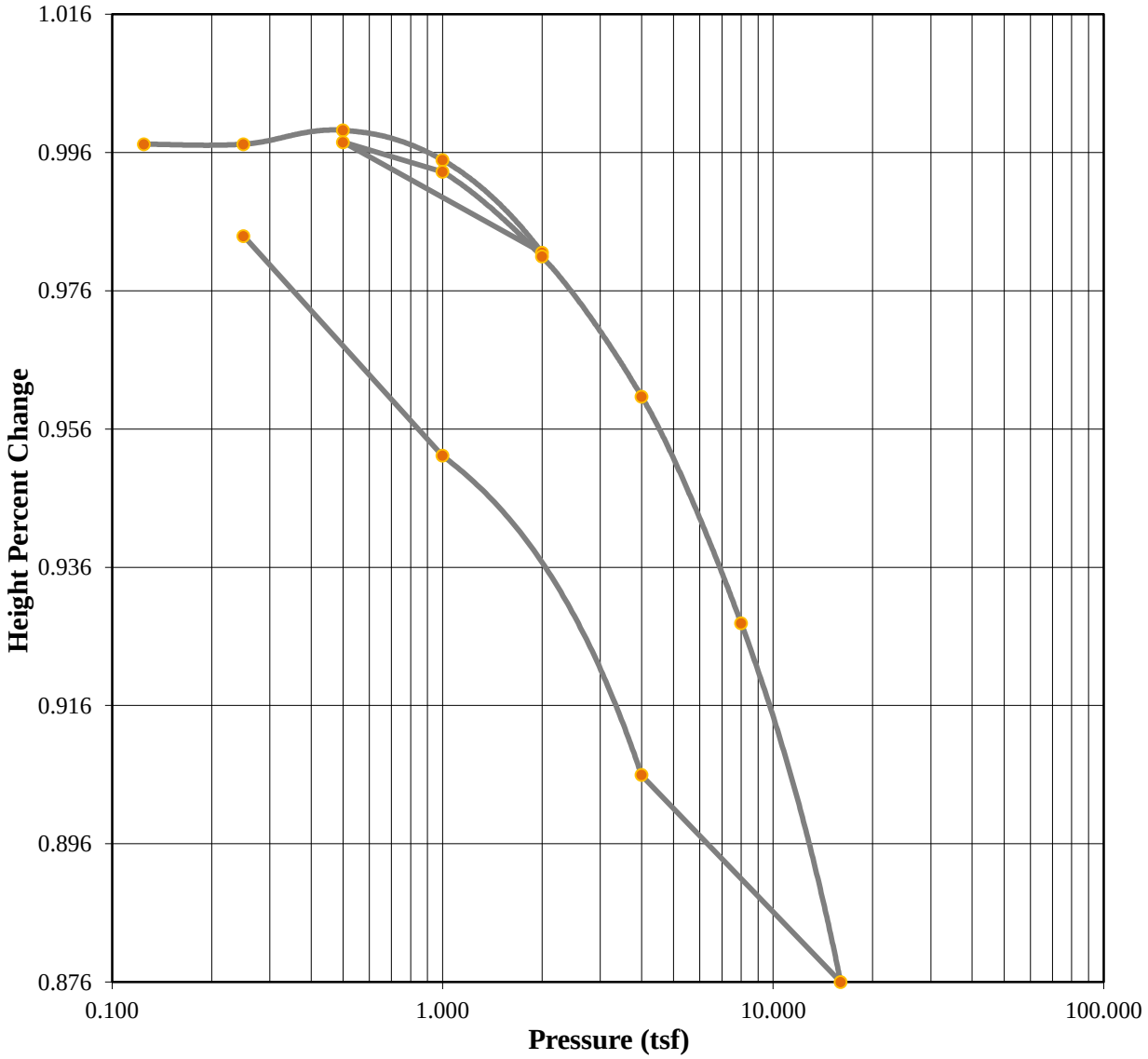
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	31	**Test Date:**	3/29/17
Moisture (%):	36.35	38.62	**Plastic Limits:**	14		
Dry Density (pcf):	84.46	85.20	**Plasticity Index (%):**	0		
Saturation (%):	107.24	116.12				
Void Ratio:	0.8434	0.8193	**Specific Gravity:**	2.499	Measured	

Soil Description:	FAT CLAY(CH A-7-6(95))			
Project Number:	7852	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-16	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	36.35	38.62	**Liquid Limits:**	31	**Test Date:**	3/29/17
Dry Density (pcf):	84.46	85.20	**Plastic Limits:**	14		
Saturation (%):	107.24	116.12	**Plasticity Index (%):**	0		
Void Ratio:	0.8434	0.8193	**Specific Gravity:**	2.499	Measured	

Soil Description:	FAT CLAY(CH A-7-6(95))			
Project Number:	7852	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-16	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-3
Boring Number: BW-16
Depth: 38.5-40.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(95))
Remarks:

Test Number:
Test Date: 3/29/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.4562	0.00	0.8437	0.000	0.000	0.000	0.000
1	0.125	-0.0003	0.9973	0.4565	-0.03	0.8443	0.000	0.000	0.000	0.000
2	0.250	-0.0003	0.9973	0.4565	-0.03	0.8443	0.000	0.000	0.000	0.000
3	0.500	-0.0023	0.9993	0.4585	-0.23	0.8480	0.000	0.000	0.000	0.000
4	1.000	0.0020	0.9950	0.4543	0.20	0.8400	1.552	2.680	493.766	66.413
5	2.000	0.0154	0.9816	0.4409	1.54	0.8153	0.775	4.293	962.587	40.343
6	0.500	-0.0006	0.9976	0.4568	-0.06	0.8448	0.000	0.000	0.000	0.000
7	1.000	0.0037	0.9933	0.4525	0.37	0.8369	2.625	7.905	290.887	22.436
8	2.000	0.0160	0.9810	0.4403	1.60	0.8142	0.701	6.637	1062.792	26.069
9	4.000	0.0362	0.9608	0.4200	3.63	0.7768	2.387	6.280	299.218	26.426
10	8.000	0.0690	0.9280	0.3872	6.92	0.7161	50.417	13.607	13.217	11.377
11	16.000	0.1209	0.8761	0.3353	12.13	0.6202	63.579	17.852	9.342	7.729
12	4.000	0.0910	0.9060	0.3653	9.12	0.6755	0.000	0.000	0.000	0.000
13	1.000	0.0448	0.9522	0.4115	4.49	0.7609	0.000	0.000	0.000	0.000
14	0.250	0.0130	0.9840	0.4432	1.30	0.8197	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/29/17

Sample Number: T-3 **Sample Description:**
Boring Number: BW-16 FAT CLAY(CH A-7-6(95))
Depth: 38.5-40.5 ft. **Remarks:**
Sample Type: Undisturbed

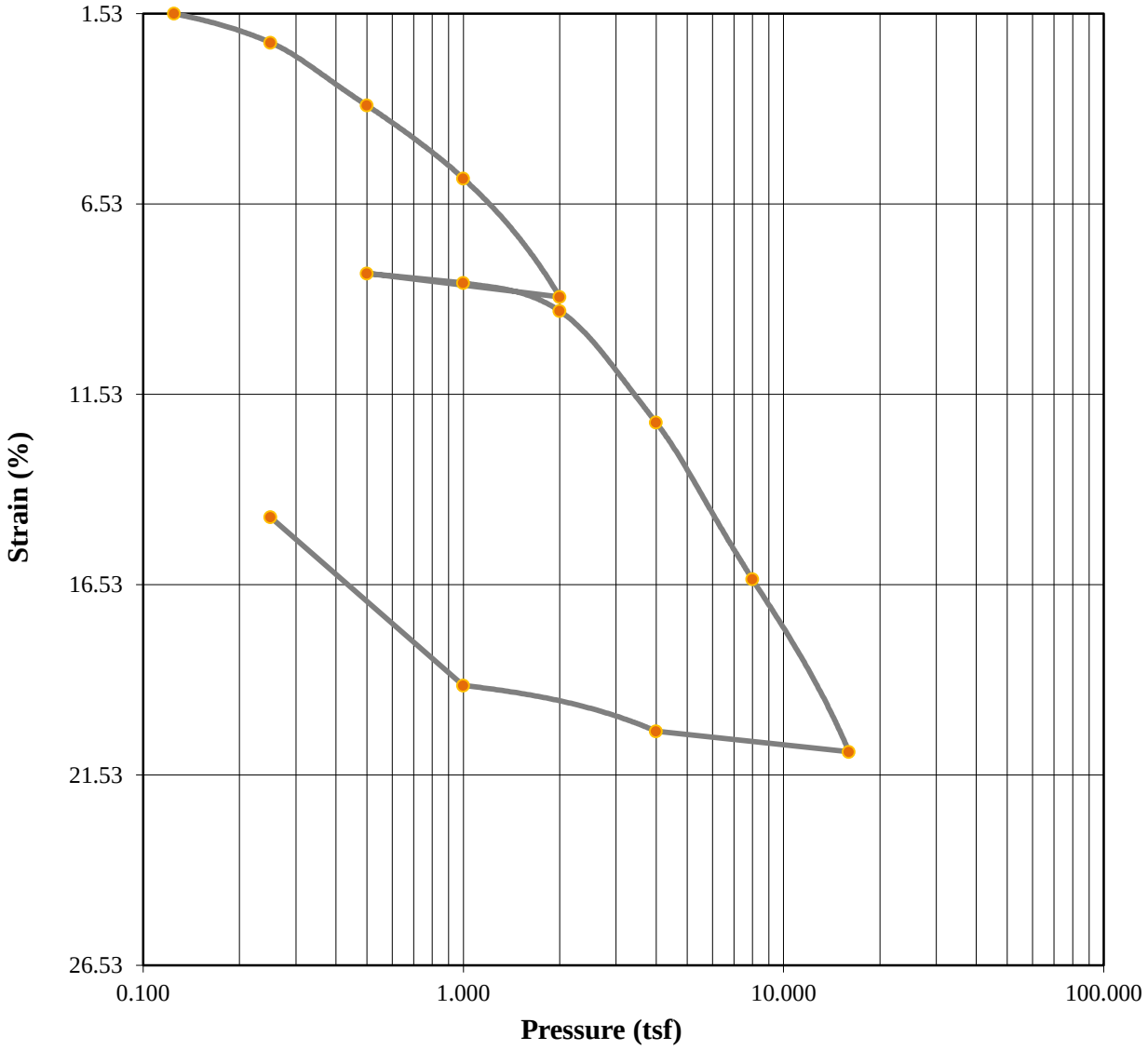
Test Number:
Liquid Limit: 31.0000 **Initial Void Ratio:** 0.8434 **Initial Height (in):** 0.9970
Plastic Limit: 14.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4990
Specific Gravity: 2.4990 Measured **Weight of Ring (g):** 111.1100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	120.69	278.59
Dry Soil + Container (g)	95.20	237.13
Weight of Container (g)	25.08	129.77
Moisture Content (%)	36.35	38.62
Void Ratio	0.8434	0.8193
Saturation (%)	107.24	116.12
Dry Density (pcf)	84.46	85.20

Tested By: B. Hak **Checked By:** C. Dugger

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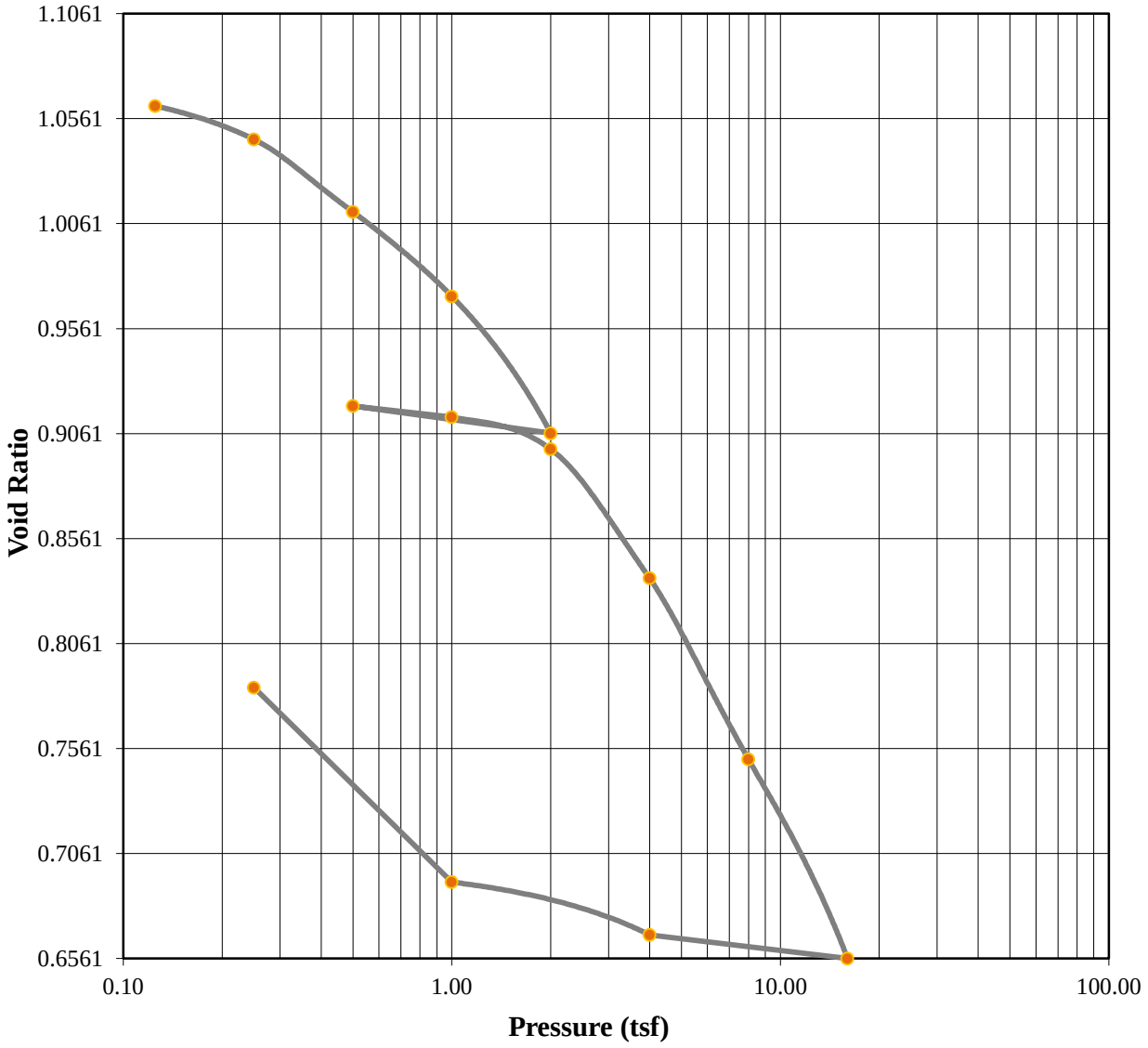
Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.39	30.47	**Liquid Limits:**	67	**Test Date:**	3/29/17
Dry Density (pcf):	79.54	99.00	**Plastic Limits:**	14		
Saturation (%):	98.33	118.81	**Plasticity Index (%):**	0		
Void Ratio:	1.0914	0.7827	**Specific Gravity:**	2.673	Measured	

Sample Description:	FAT CLAY(CH A-7-6(43))			
Project Number:	7852	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

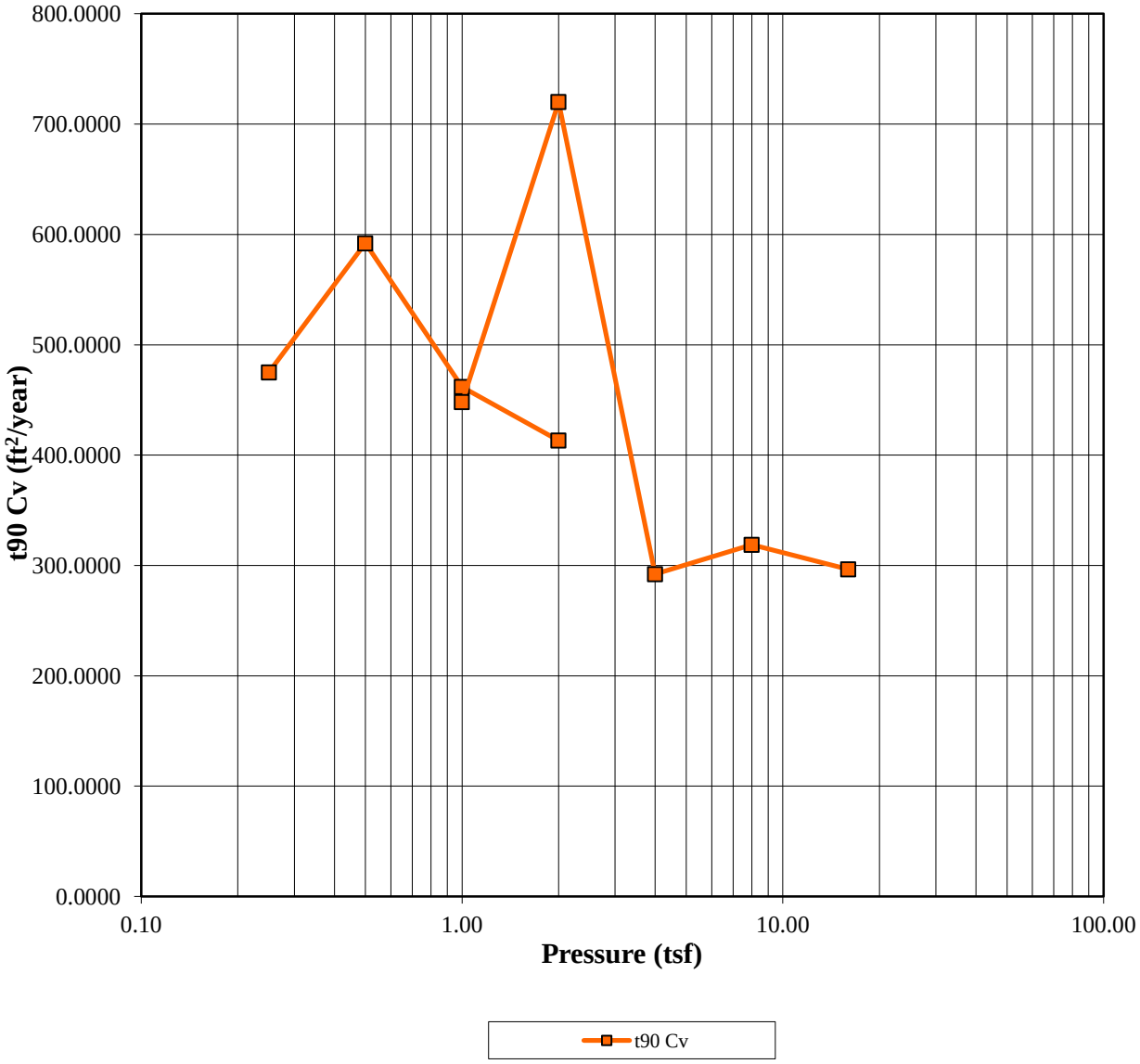
Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.39	30.47	**Liquid Limits:**	67	**Test Date:**	3/29/17
Dry Density (pcf):	79.54	99.00	**Plastic Limits:**	14		
Saturation (%):	98.33	118.81	**Plasticity Index (%):**	0		
Void Ratio:	1.0914	0.7827	**Specific Gravity:**	2.673	Measured	

Soil Description:	FAT CLAY(CH A-7-6(43))			
Project Number:	7852	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

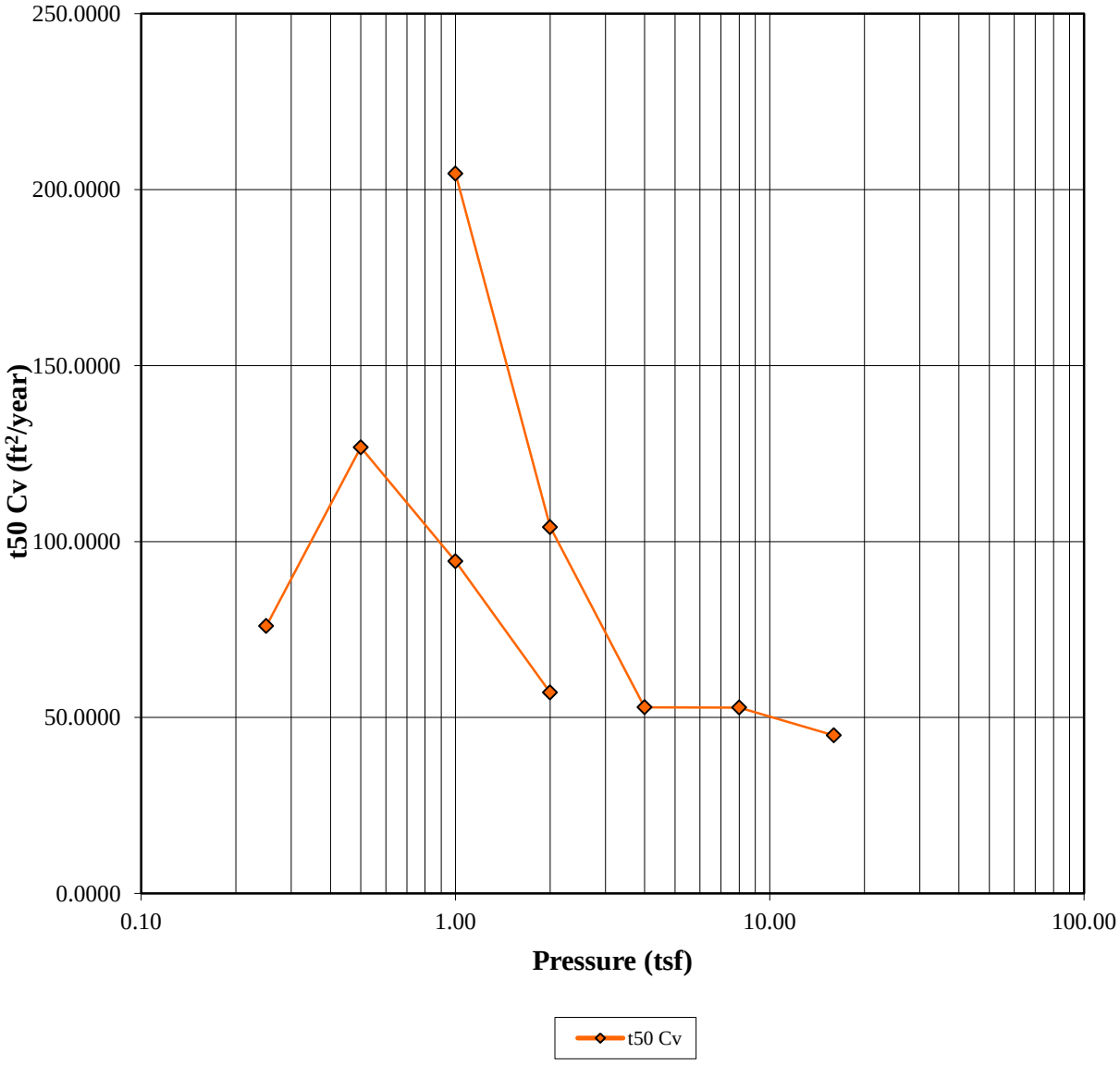
Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.39	30.47	**Liquid Limits:**	67	**Test Date:**	3/29/17
Dry Density (pcf):	79.54	99.00	**Plastic Limits:**	14		
Saturation (%):	98.33	118.81	**Plasticity Index (%):**	0		
Void Ratio:	1.0914	0.7827	**Specific Gravity:**	2.673	Measured	

Soil Description:	FAT CLAY(CH A-7-6(43))			
Project Number:	7852	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

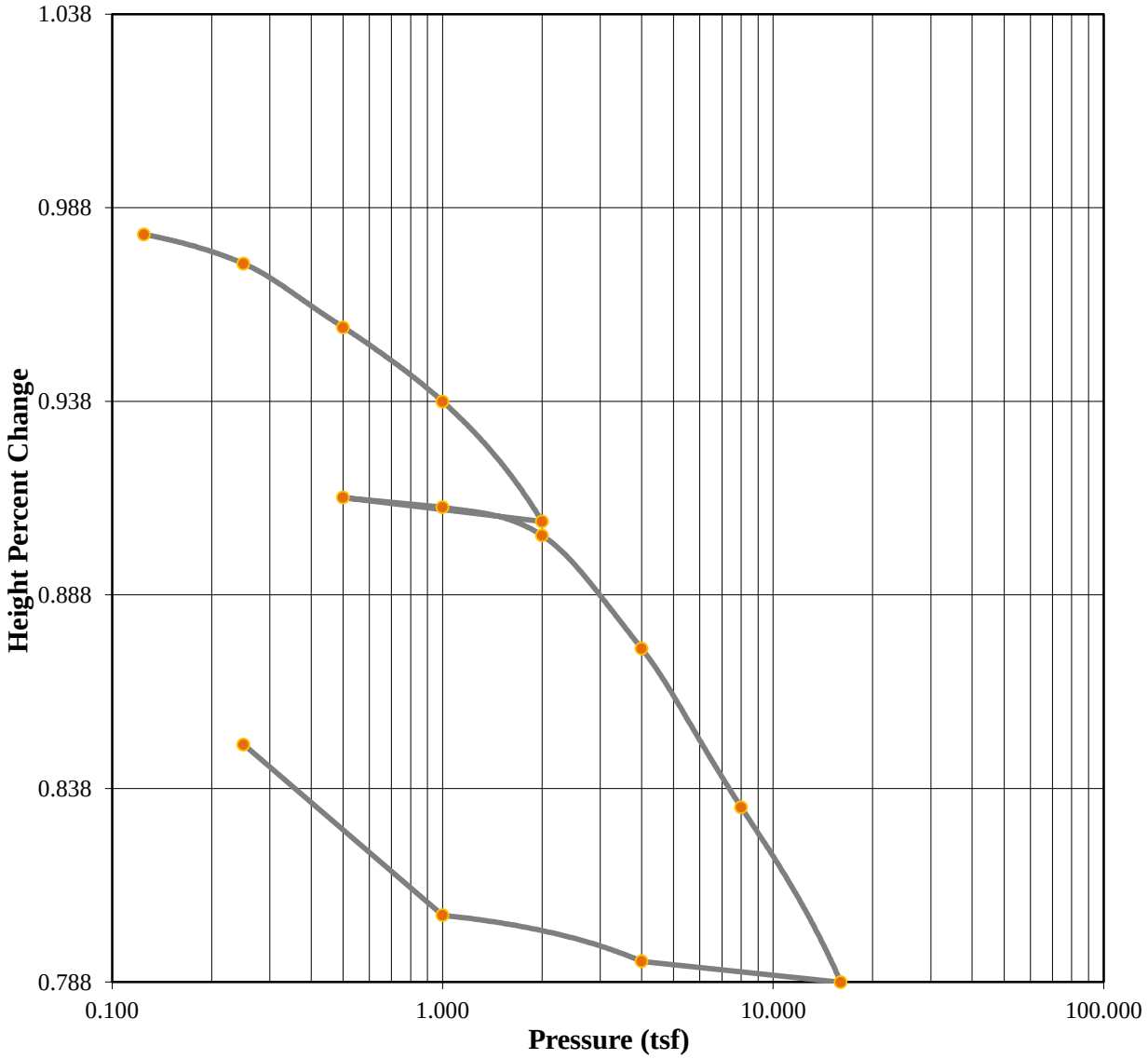
Consolidation Test
Test Results



	Before	After				
Moisture (%):	40.39	30.47	**Liquid Limits:**	67	**Test Date:**	3/29/17
Dry Density (pcf):	79.54	99.00	**Plastic Limits:**	14		
Saturation (%):	98.33	118.81	**Plasticity Index (%):**	0		
Void Ratio:	1.0914	0.7827	**Specific Gravity:**	2.673	Measured	

Soil Description:	FAT CLAY(CH A-7-6(43))			
Project Number:	7852	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	67	**Test Date:**	3/29/17
Moisture (%):	40.39	30.47	**Plastic Limits:**	14		
Dry Density (pcf):	79.54	99.00	**Plasticity Index (%):**	0		
Saturation (%):	98.33	118.81				
Void Ratio:	1.0914	0.7827	**Specific Gravity:**	2.673	Measured	

Soil Description:	FAT CLAY(CH A-7-6(43))			
Project Number:	7852	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-1
Boring Number: BW-24
Depth: 23.5-25.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(43))
Remarks:

Test Number:
Test Date: 3/29/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9960	0.5204	0.00	1.0942	0.000	0.000	0.000	0.000
1	0.125	0.0152	0.9808	0.5052	1.53	1.0622	0.000	0.000	0.000	0.000
2	0.250	0.0228	0.9732	0.4976	2.29	1.0462	1.543	2.240	475.041	76.006
3	0.500	0.0392	0.9568	0.4812	3.94	1.0117	1.196	1.298	592.035	126.754
4	1.000	0.0584	0.9376	0.4620	5.86	0.9715	1.473	1.674	461.722	94.402
5	2.000	0.0894	0.9066	0.4310	8.97	0.9063	1.540	2.586	413.149	57.135
6	0.500	0.0832	0.9128	0.4372	8.35	0.9193	0.000	0.000	0.000	0.000
7	1.000	0.0857	0.9103	0.4347	8.60	0.9140	1.431	0.728	448.040	204.619
8	2.000	0.0930	0.9030	0.4274	9.34	0.8987	0.876	1.408	719.946	104.143
9	4.000	0.1222	0.8738	0.3982	12.27	0.8372	2.023	2.593	292.062	52.927
10	8.000	0.1632	0.8328	0.3572	16.39	0.7510	1.684	2.359	318.742	52.847
11	16.000	0.2084	0.7876	0.3120	20.92	0.6561	1.619	2.482	296.437	44.937
12	4.000	0.2030	0.7930	0.3174	20.38	0.6674	0.000	0.000	0.000	0.000
13	1.000	0.1911	0.8049	0.3293	19.18	0.6925	0.000	0.000	0.000	0.000
14	0.250	0.1470	0.8490	0.3734	14.76	0.7851	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/29/17

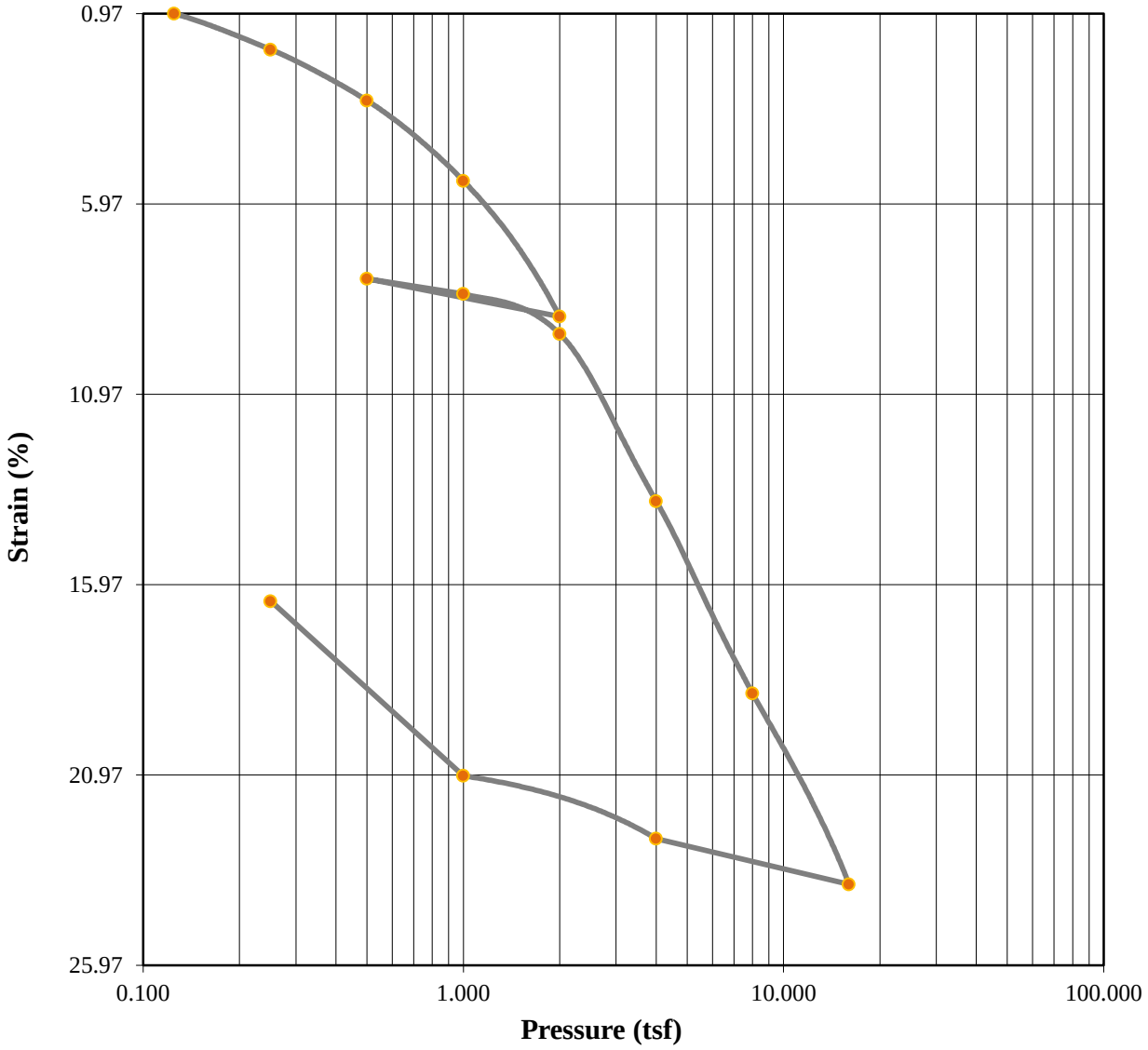
Sample Number: T-1 **Sample Description:**
Boring Number: BW-24 FAT CLAY(CH A-7-6(43))
Depth: 23.5-25.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 67.0000 **Initial Void Ratio:** 1.0914 **Initial Height (in):** 0.9960
Plastic Limit: 14.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4960
Specific Gravity: 2.6730 Measured **Weight of Ring (g):** 98.6800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	146.47	266.49
Dry Soil + Container (g)	113.57	235.38
Weight of Container (g)	32.11	133.29
Moisture Content (%)	40.39	30.47
Void Ratio	1.0914	0.7827
Saturation (%)	98.33	118.81
Dry Density (pcf)	79.54	99.00

Tested By: B. Hak **Checked By:** C. Dugger

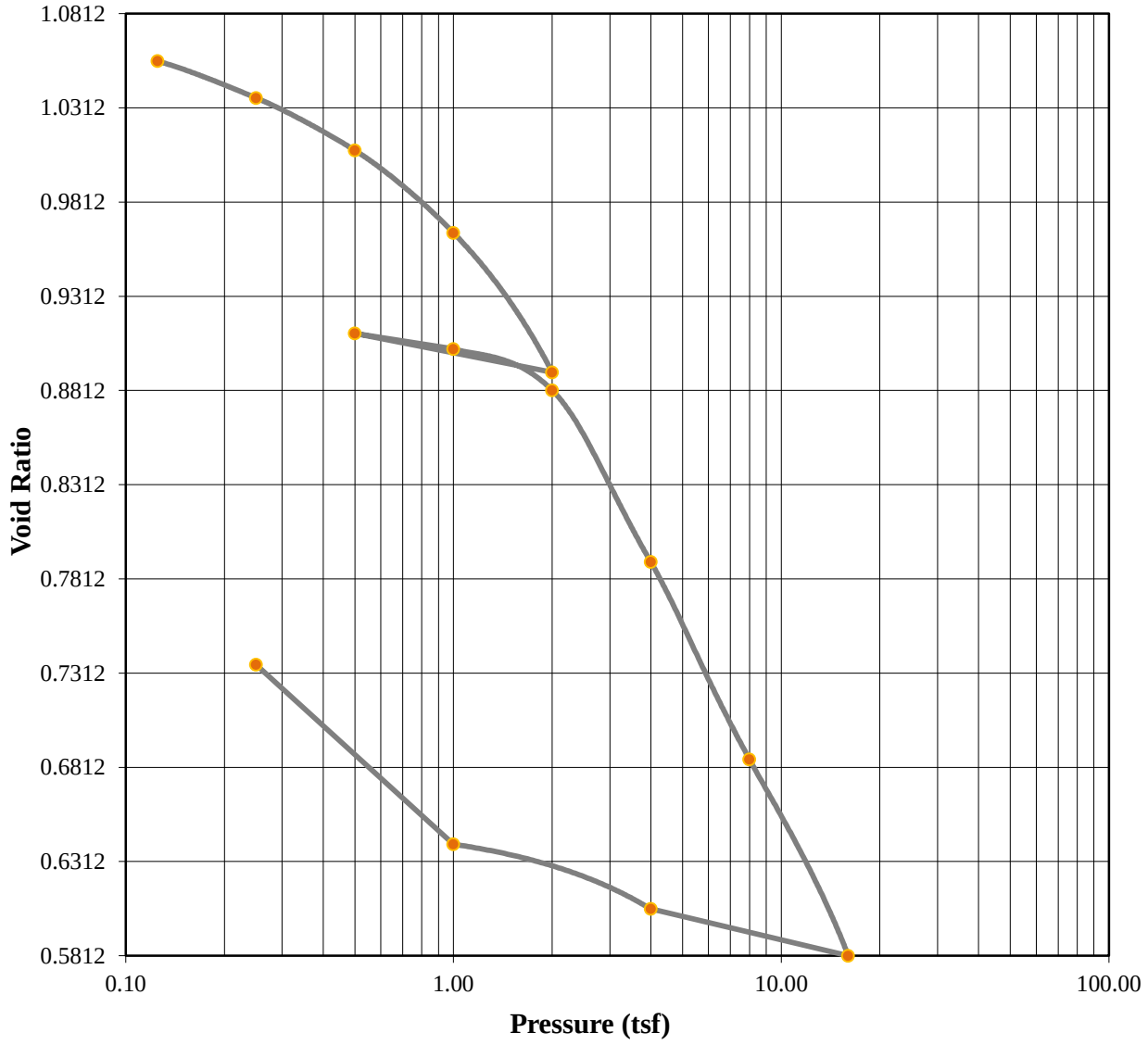
Consolidation Test
Test Results



	Before	After				
Moisture (%):	39.63	27.00	**Liquid Limits:**	0	**Test Date:**	4/3/17
Dry Density (pcf):	79.27	95.02	**Plastic Limits:**	0		
Saturation (%):	96.93	97.01	**Plasticity Index (%):**	0		
Void Ratio:	1.0750	0.7347	**Specific Gravity:**	2.641	Measured	

Sample Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

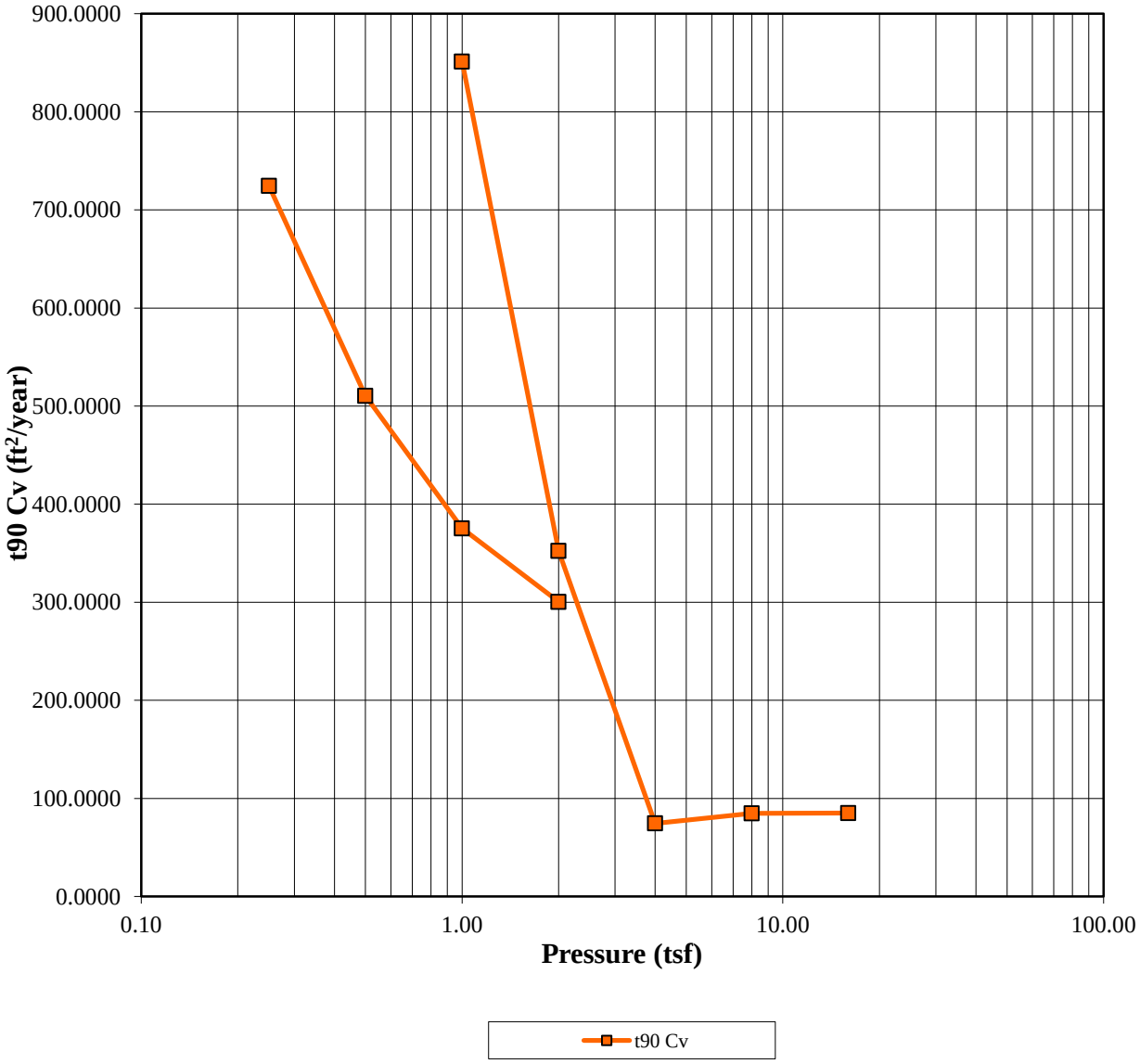
Consolidation Test
Test Results



	Before	After				
Moisture (%):	39.63	27.00	**Liquid Limits:**	0	**Test Date:**	4/3/17
Dry Density (pcf):	79.27	95.02	**Plastic Limits:**	0		
Saturation (%):	96.93	97.01	**Plasticity Index (%):**	0		
Void Ratio:	1.0750	0.7347	**Specific Gravity:**	2.641	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

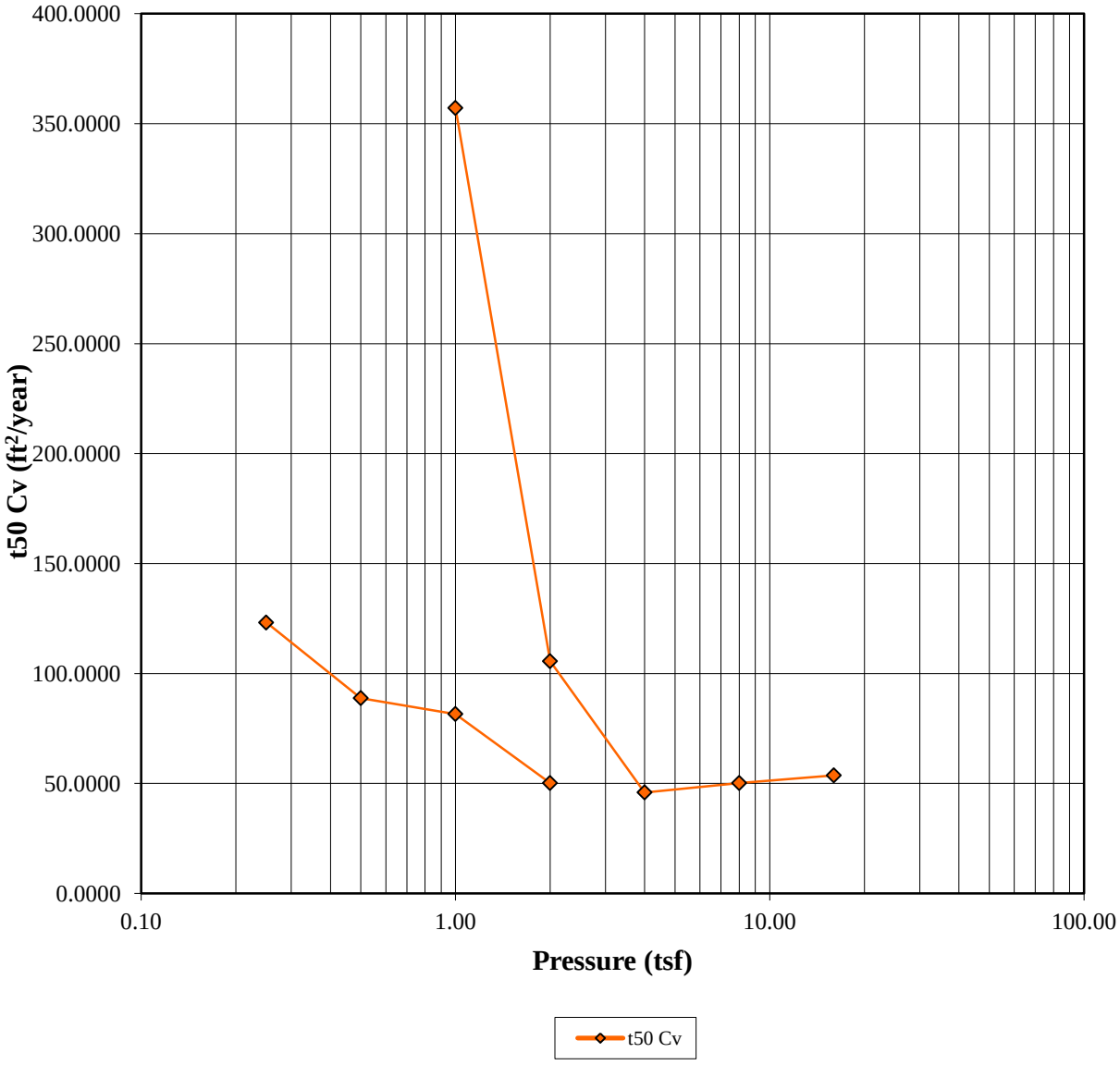
Consolidation Test
Test Results



	Before	After				
Moisture (%):	39.63	27.00	**Liquid Limits:**	0	**Test Date:**	4/3/17
Dry Density (pcf):	79.27	95.02	**Plastic Limits:**	0		
Saturation (%):	96.93	97.01	**Plasticity Index (%):**	0		
Void Ratio:	1.0750	0.7347	**Specific Gravity:**	2.641	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

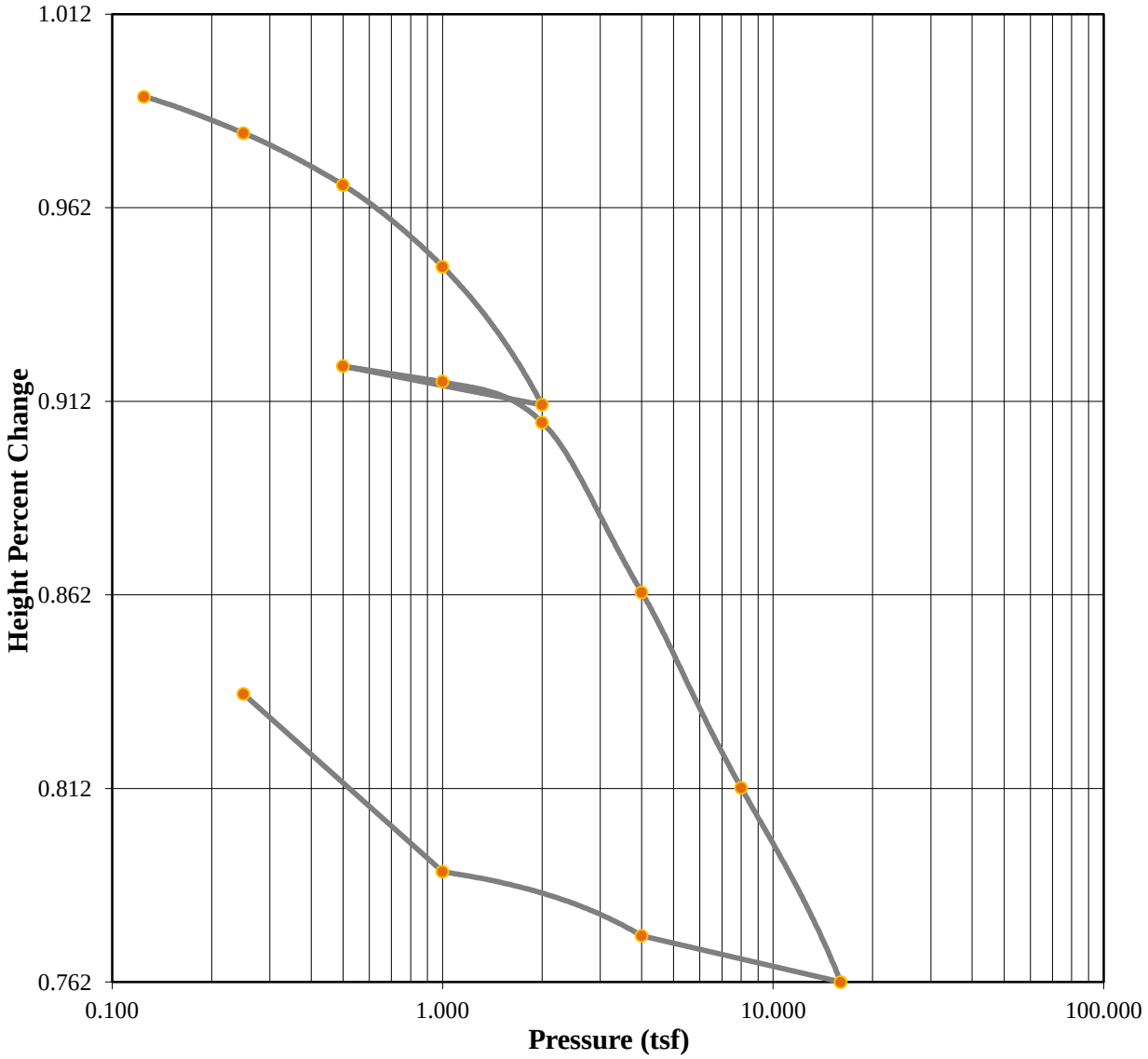
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	4/3/17
Moisture (%):	39.63	27.00	**Plastic Limits:**	0		
Dry Density (pcf):	79.27	95.02	**Plasticity Index (%):**	0		
Saturation (%):	96.93	97.01				
Void Ratio:	1.0750	0.7347	**Specific Gravity:**	2.641	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	4/3/17
Moisture (%):	39.63	27.00	**Plastic Limits:**	0		
Dry Density (pcf):	79.27	95.02	**Plasticity Index (%):**	0		
Saturation (%):	96.93	97.01				
Void Ratio:	1.0750	0.7347	**Specific Gravity:**	2.641	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7852	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-3
Boring Number: BW-24
Depth: 43.5-45.5 ft.
Sample Type: Undisturbed

Sample Description: SILTY SAND(SM A-2-4(0))
Remarks:

Test Number:
Test Date: 4/3/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0000	0.5183	0.00	1.0761	0.000	0.000	0.000	0.000
1	0.125	0.0097	0.9903	0.5086	0.97	1.0559	0.000	0.000	0.000	0.000
2	0.250	0.0191	0.9809	0.4992	1.91	1.0364	1.028	1.404	724.521	123.180
3	0.500	0.0325	0.9675	0.4858	3.25	1.0086	1.419	1.894	510.547	88.823
4	1.000	0.0536	0.9464	0.4647	5.36	0.9648	1.847	1.974	375.331	81.552
5	2.000	0.0893	0.9107	0.4291	8.93	0.8908	2.136	2.968	300.433	50.239
6	0.500	0.0793	0.9207	0.4391	7.93	0.9115	0.000	0.000	0.000	0.000
7	1.000	0.0833	0.9167	0.4351	8.33	0.9032	0.764	0.423	851.367	357.216
8	2.000	0.0938	0.9062	0.4245	9.38	0.8813	1.803	1.397	352.399	105.635
9	4.000	0.1377	0.8623	0.3806	13.77	0.7901	7.717	2.909	74.553	45.939
10	8.000	0.1882	0.8118	0.3301	18.82	0.6854	6.017	2.357	84.758	50.255
11	16.000	0.2384	0.7616	0.2799	23.84	0.5812	5.278	1.943	85.050	53.668
12	4.000	0.2264	0.7736	0.2919	22.64	0.6060	0.000	0.000	0.000	0.000
13	1.000	0.2099	0.7901	0.3085	20.99	0.6404	0.000	0.000	0.000	0.000
14	0.250	0.1640	0.8360	0.3543	16.40	0.7356	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 4/3/17

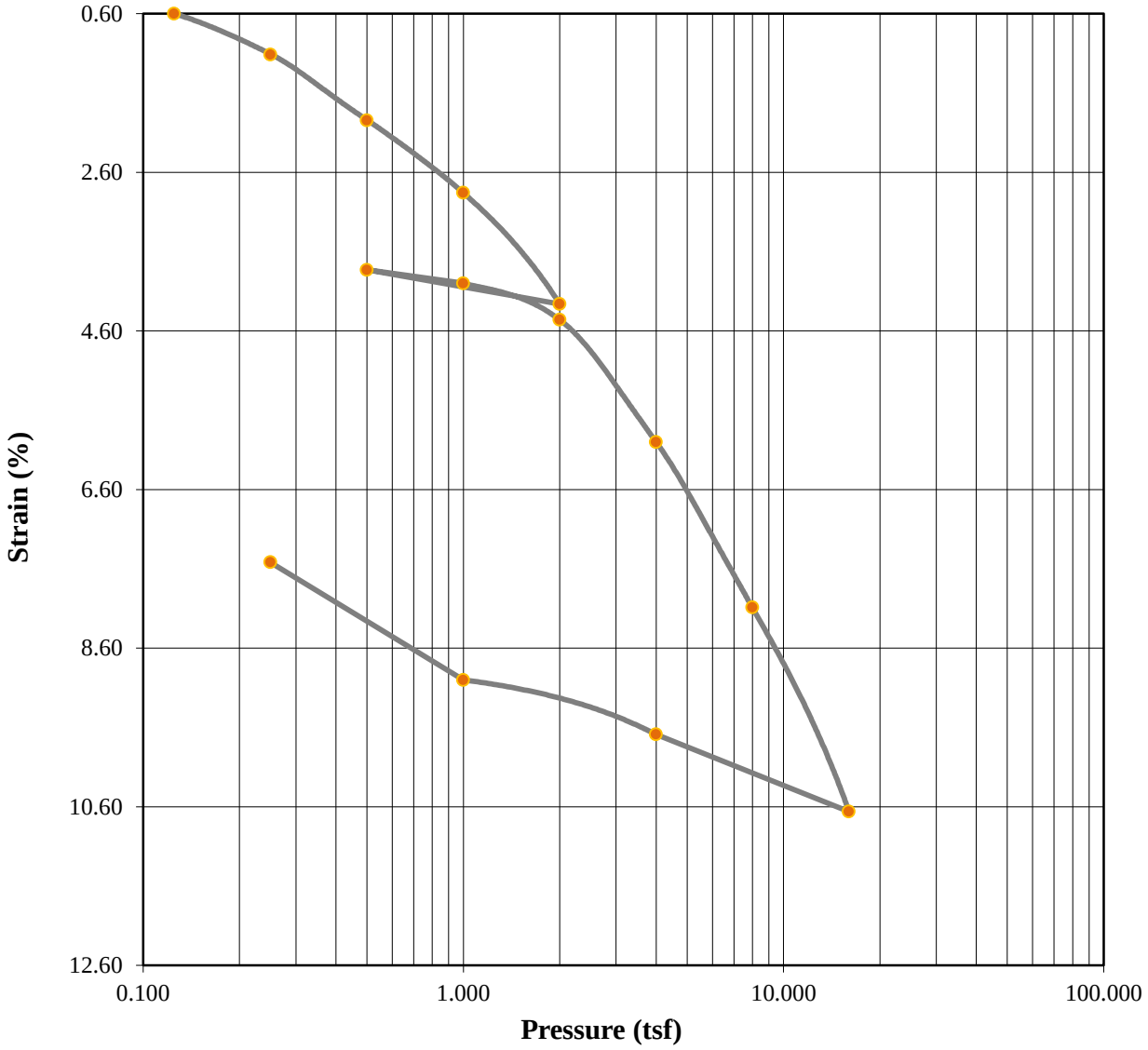
Sample Number: T-3 **Sample Description:**
Boring Number: BW-24 SILTY SAND(SM A-2-4(0))
Depth: 43.5-45.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 1.0750 **Initial Height (in):** 1.0000
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5060
Specific Gravity: 2.6410 Measured **Weight of Ring (g):** 110.7600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	138.81	255.40
Dry Soil + Container (g)	108.53	227.71
Weight of Container (g)	32.12	125.14
Moisture Content (%)	39.63	27.00
Void Ratio	1.0750	0.7347
Saturation (%)	96.93	97.01
Dry Density (pcf)	79.27	95.02

Tested By: B. Hak **Checked By:** C. Dugger

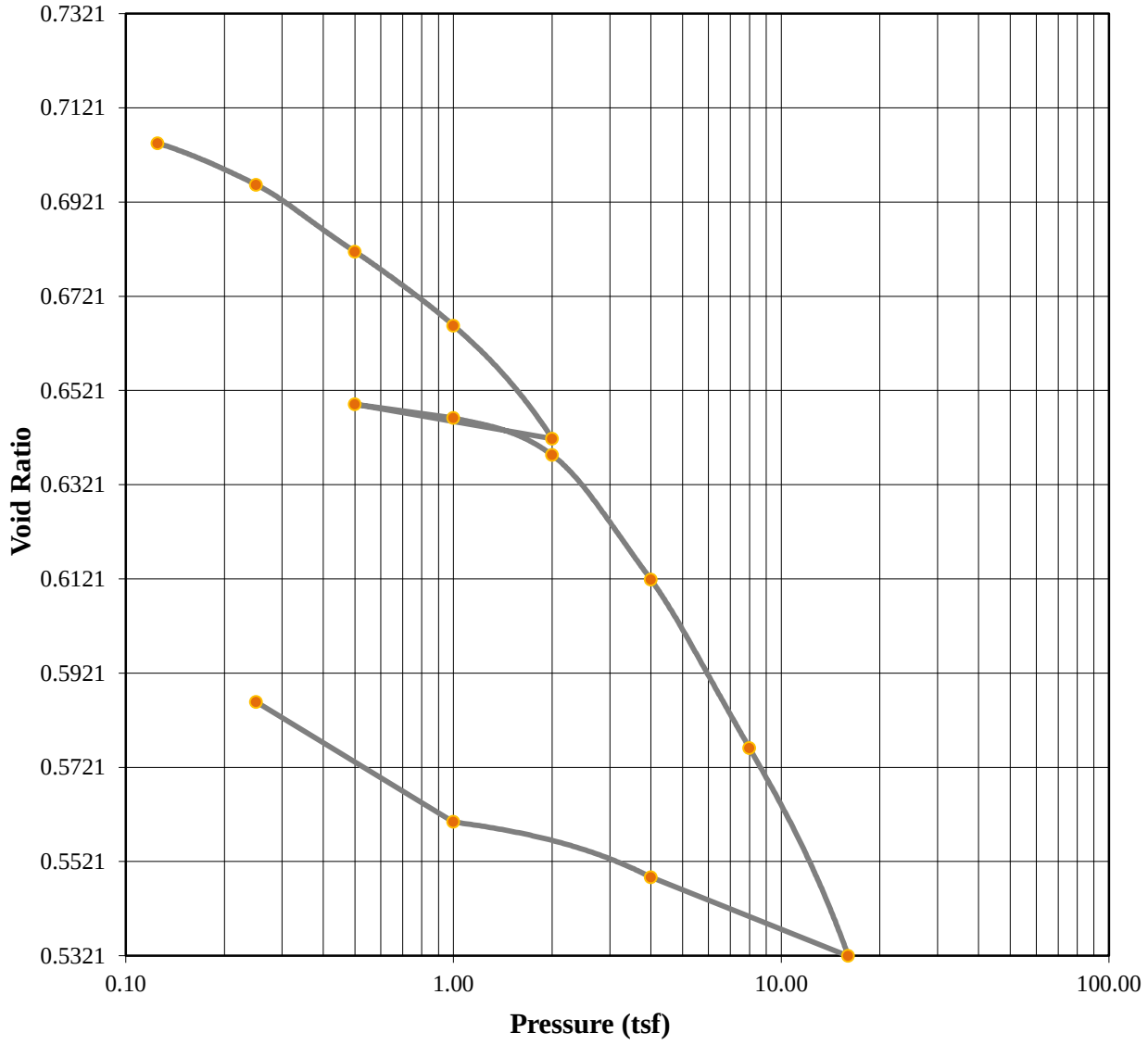
Consolidation Test
Test Results



	Before	After				
Moisture (%):	23.88	22.71	**Liquid Limits:**	58	**Test Date:**	4/5/17
Dry Density (pcf):	99.09	104.97	**Plastic Limits:**	23		
Saturation (%):	90.70	99.60	**Plasticity Index (%):**	0		
Void Ratio:	0.7172	0.5882	**Specific Gravity:**	2.727	Measured	

Sample Description:	FAT CLAY with SAND(CH A-7-6(31))			
Project Number:	7852	**Depth:**	68.5-70.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

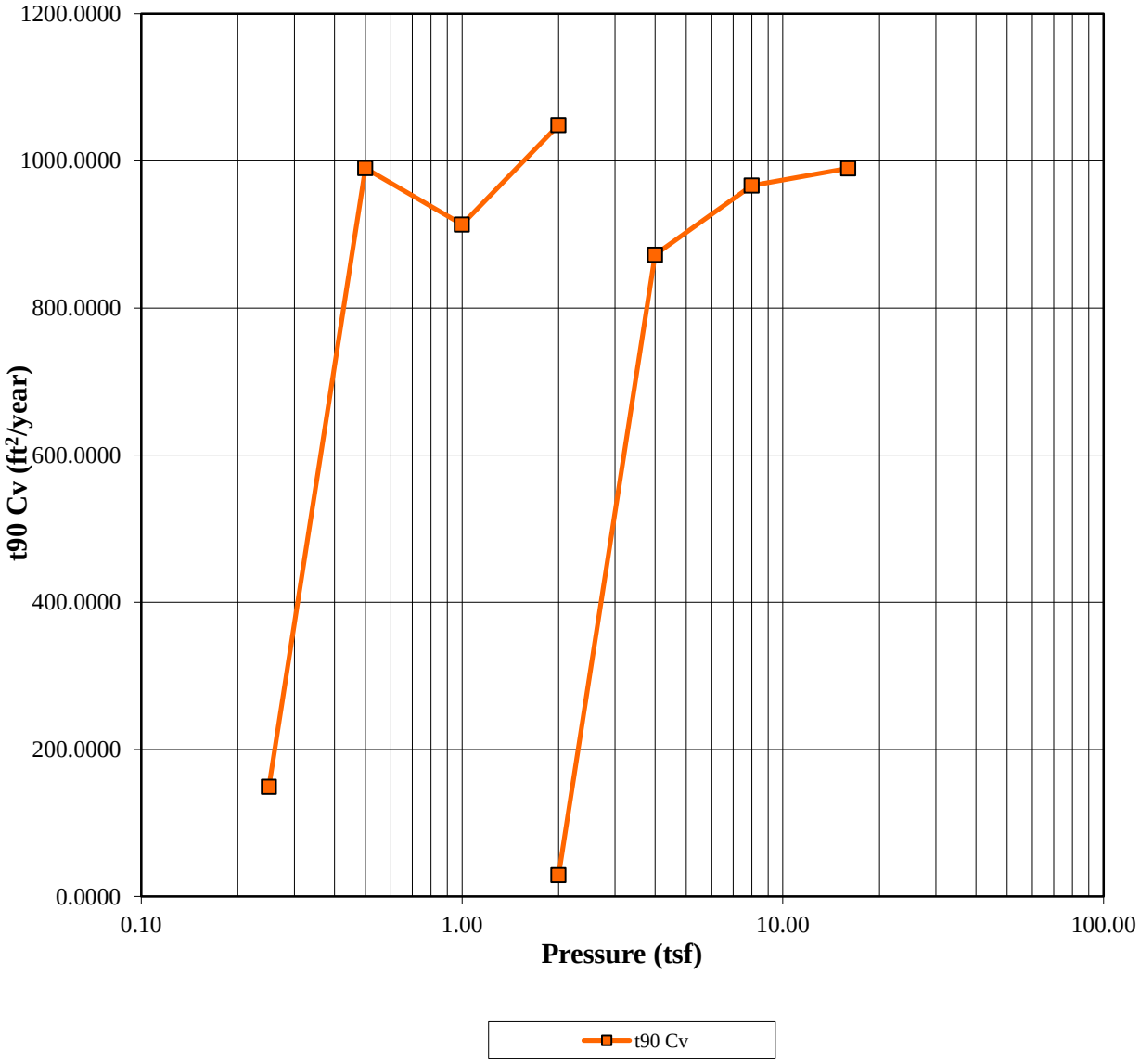
Consolidation Test
Test Results



	Before	After				
Moisture (%):	23.88	22.71	**Liquid Limits:**	58	**Test Date:**	4/5/17
Dry Density (pcf):	99.09	104.97	**Plastic Limits:**	23		
Saturation (%):	90.70	99.60	**Plasticity Index (%):**	0		
Void Ratio:	0.7172	0.5882	**Specific Gravity:**	2.727	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(31))			
Project Number:	7852	**Depth:**	68.5-70.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

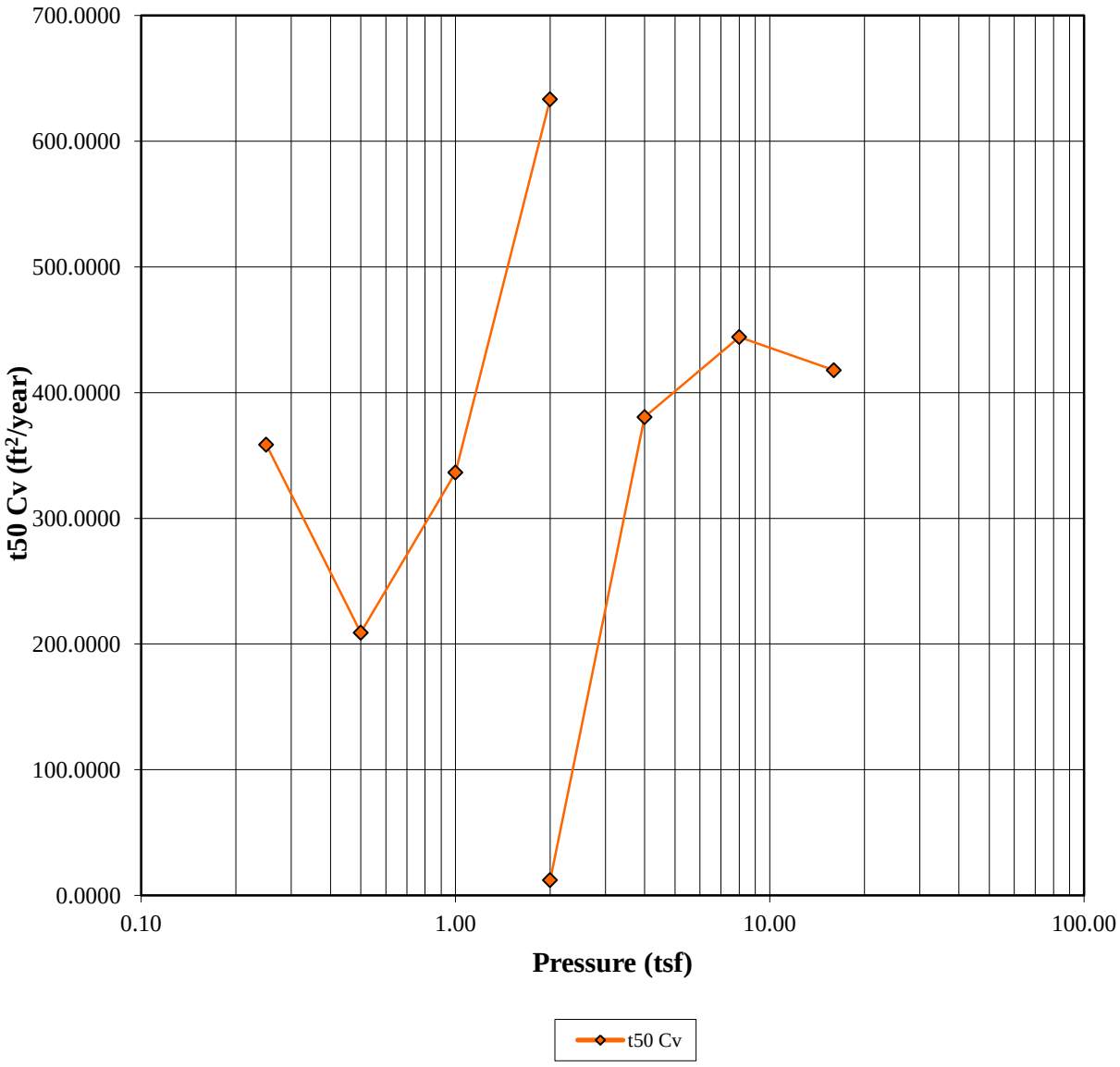
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	58	**Test Date:**	4/5/17
Moisture (%):	23.88	22.71	**Plastic Limits:**	23		
Dry Density (pcf):	99.09	104.97	**Plasticity Index (%):**	0		
Saturation (%):	90.70	99.60				
Void Ratio:	0.7172	0.5882	**Specific Gravity:**	2.727	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(31))			
Project Number:	7852	**Depth:**	68.5-70.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

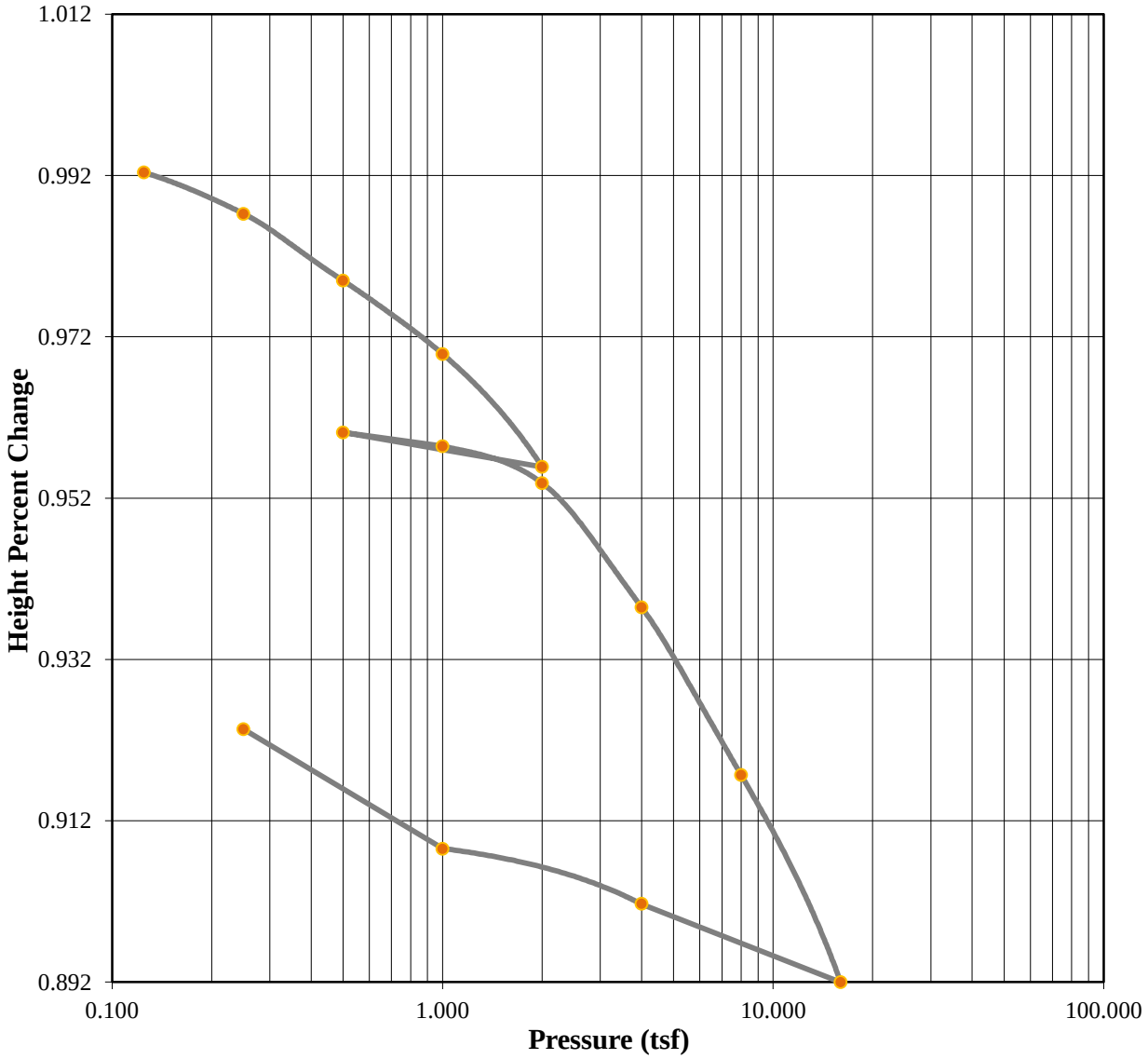
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	58	**Test Date:**	4/5/17
Moisture (%):	23.88	22.71	**Plastic Limits:**	23		
Dry Density (pcf):	99.09	104.97	**Plasticity Index (%):**	0		
Saturation (%):	90.70	99.60				
Void Ratio:	0.7172	0.5882	**Specific Gravity:**	2.727	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(31))			
Project Number:	7852	**Depth:**	68.5-70.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	23.88	22.71	**Liquid Limits:**	58	**Test Date:**	4/5/17
Dry Density (pcf):	99.09	104.97	**Plastic Limits:**	23		
Saturation (%):	90.70	99.60	**Plasticity Index (%):**	0		
Void Ratio:	0.7172	0.5882	**Specific Gravity:**	2.727	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(31))			
Project Number:	7852	**Depth:**	68.5-70.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-24	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7852

Sample Number: T-4
Boring Number: BW-24
Depth: 68.5-70.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(31))
Remarks:

Test Number:
Test Date: 4/5/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.4160	0.00	0.7149	0.000	0.000	0.000	0.000
1	0.125	0.0060	0.9920	0.4100	0.60	0.7046	0.000	0.000	0.000	0.000
2	0.250	0.0111	0.9869	0.4049	1.11	0.6958	5.057	0.488	149.036	358.604
3	0.500	0.0194	0.9786	0.3966	1.94	0.6816	0.749	0.824	989.997	209.046
4	1.000	0.0285	0.9695	0.3875	2.86	0.6659	0.796	0.502	913.535	336.372
5	2.000	0.0425	0.9555	0.3735	4.26	0.6419	0.674	0.259	1048.844	633.431
6	0.500	0.0382	0.9598	0.3778	3.83	0.6492	0.000	0.000	0.000	0.000
7	1.000	0.0399	0.9581	0.3761	4.00	0.6463	0.000	0.000	0.000	0.000
8	2.000	0.0445	0.9535	0.3716	4.46	0.6384	24.278	* 13.4878	28.978	12.118
9	4.000	0.0599	0.9381	0.3562	6.00	0.6120	0.781	0.416	872.534	380.575
10	8.000	0.0807	0.9173	0.3353	8.09	0.5762	0.674	0.341	966.639	444.267
11	16.000	0.1064	0.8916	0.3097	10.66	0.5321	0.622	0.342	989.850	417.769
12	4.000	0.0967	0.9013	0.3194	9.69	0.5488	0.000	0.000	0.000	0.000
13	1.000	0.0898	0.9082	0.3262	9.00	0.5605	0.000	0.000	0.000	0.000
14	0.250	0.0750	0.9230	0.3410	7.52	0.5860	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7852
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 4/5/17

Sample Number: T-4 **Sample Description:**
Boring Number: BW-24 FAT CLAY with SAND(CH A-7-6(31))
Depth: 68.5-70.5 ft. **Remarks:**
Sample Type: Undisturbed

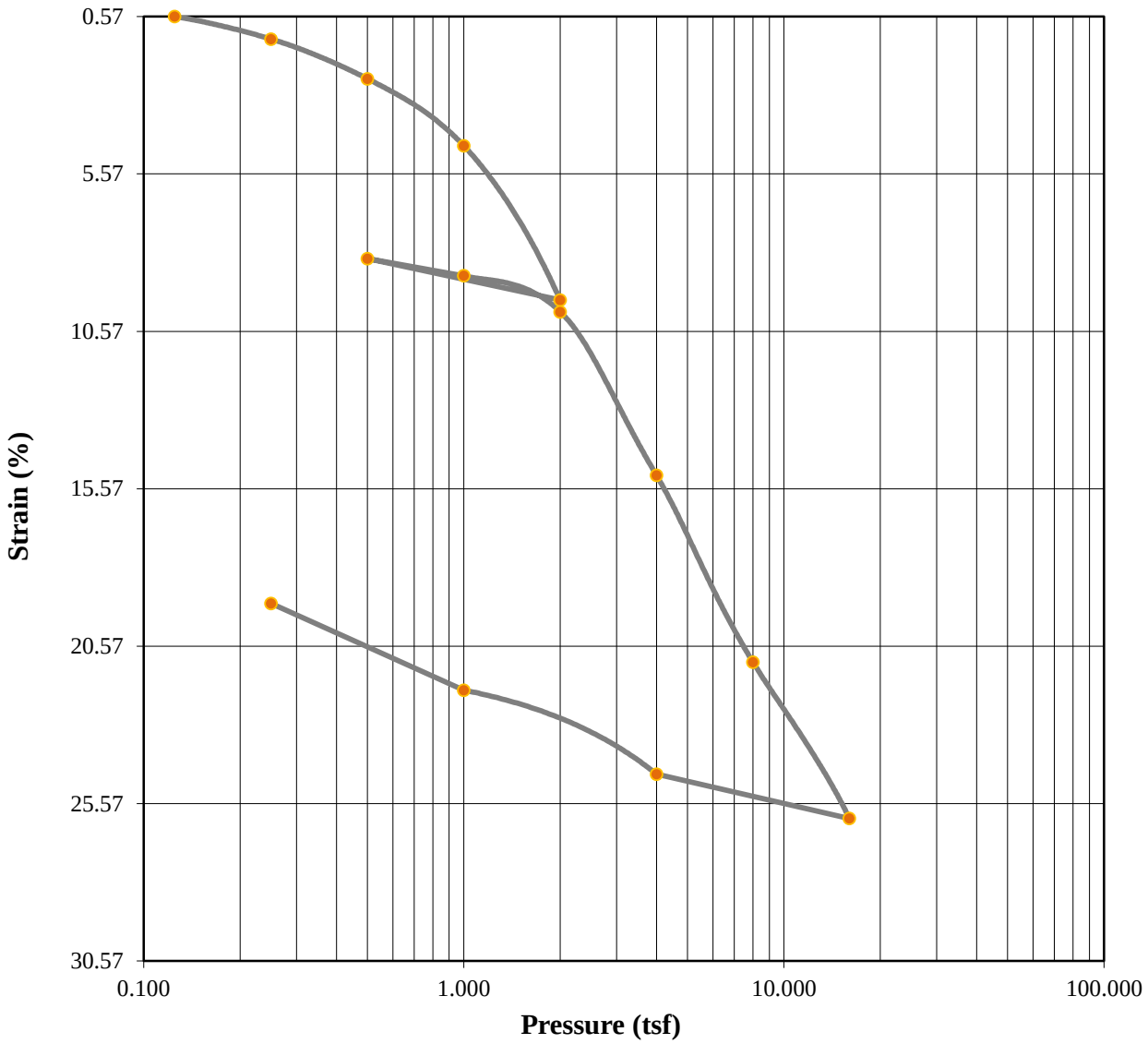
Test Number:
Liquid Limit: 58.0000 **Initial Void Ratio:** 0.7172 **Initial Height (in):** 0.9980
Plastic Limit: 23.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.7270 Measured **Weight of Ring (g):** 110.7600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	145.38	281.97
Dry Soil + Container (g)	123.60	253.62
Weight of Container (g)	32.38	128.77
Moisture Content (%)	23.88	22.71
Void Ratio	0.7172	0.5882
Saturation (%)	90.70	99.60
Dry Density (pcf)	99.09	104.97

Tested By: B. Hak **Checked By:** C. Dugger

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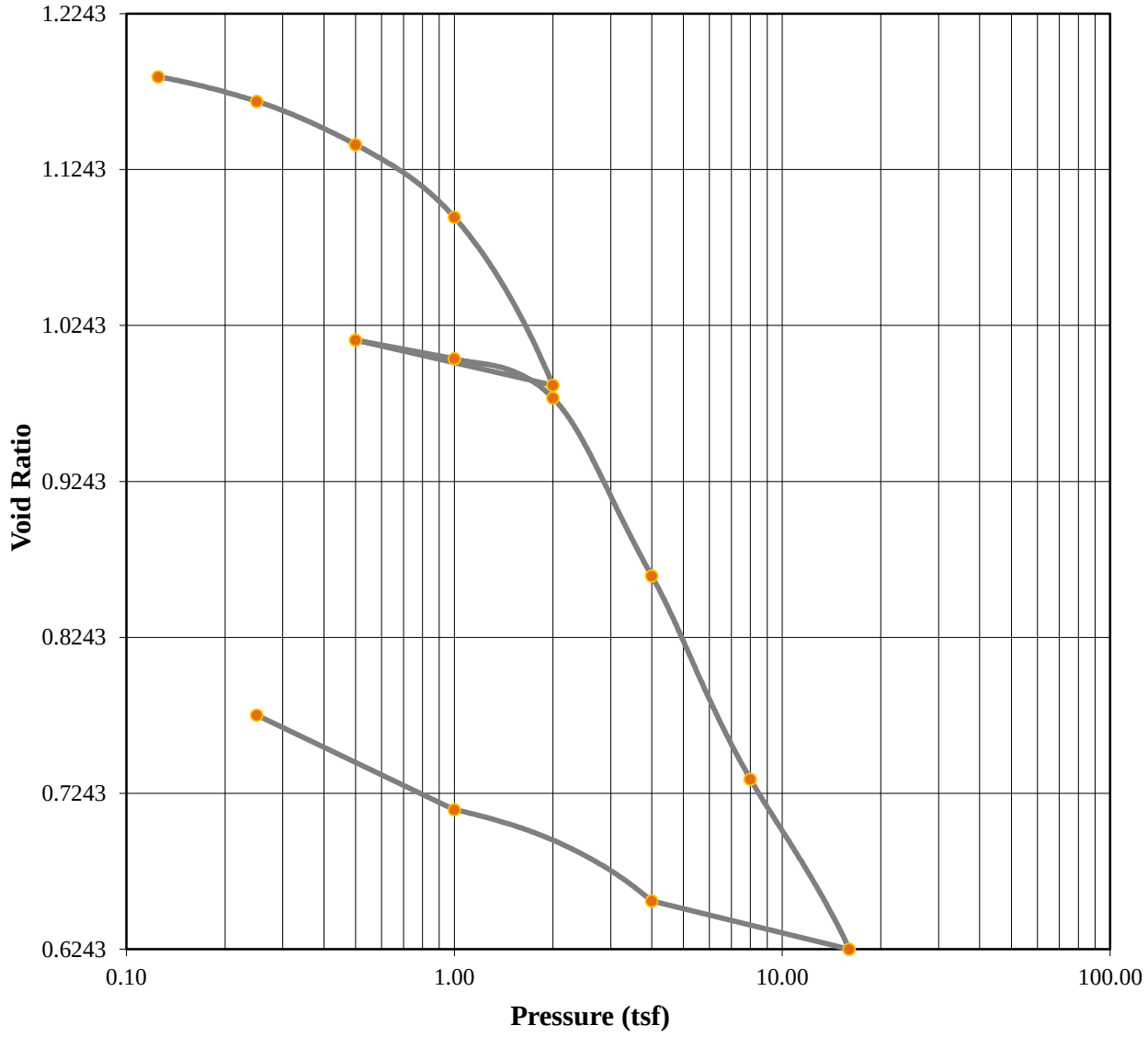
Consolidation Test
Test Results



	Before	After				
Moisture (%):	46.08	30.25	**Liquid Limits:**	43	**Test Date:**	1/11/17
Dry Density (pcf):	75.33	94.57	**Plastic Limits:**	20		
Saturation (%):	101.92	106.72	**Plasticity Index (%):**	0		
Void Ratio:	1.2012	0.7782	**Specific Gravity:**	2.655	Measured	

Sample Description:	SANDY LEAN CLAY(CL A-7-6(14))			
Project Number:	7837	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



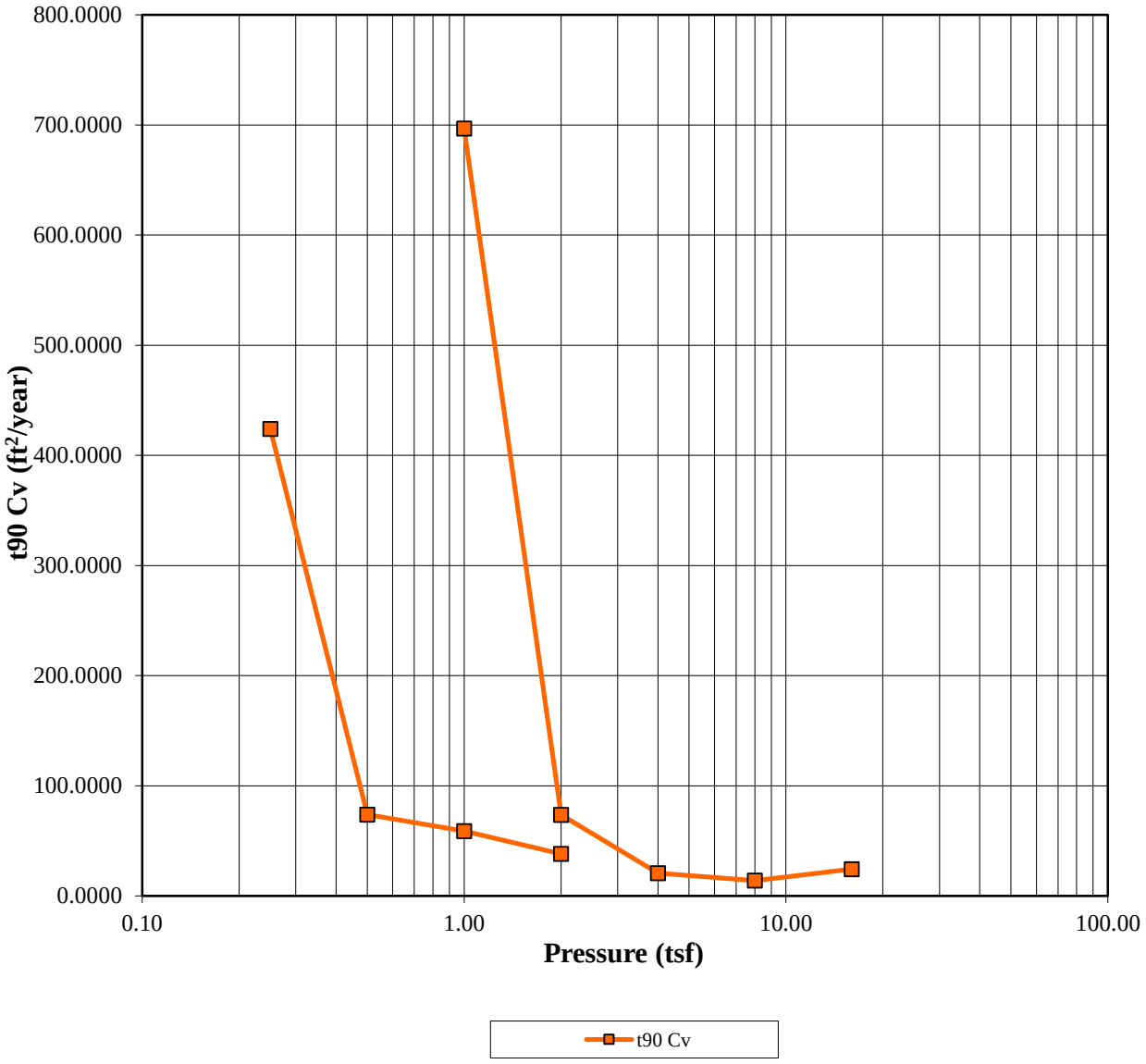
	Before	After				
Moisture (%):	46.08	30.25	**Liquid Limits:**	43	**Test Date:**	1/11/17
Dry Density (pcf):	75.33	94.57	**Plastic Limits:**	20		
Saturation (%):	101.92	106.72	**Plasticity Index (%):**	0		
Void Ratio:	1.2012	0.7782	**Specific Gravity:**	2.655	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-7-6(14))			
Project Number:	7837	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test
Test Results

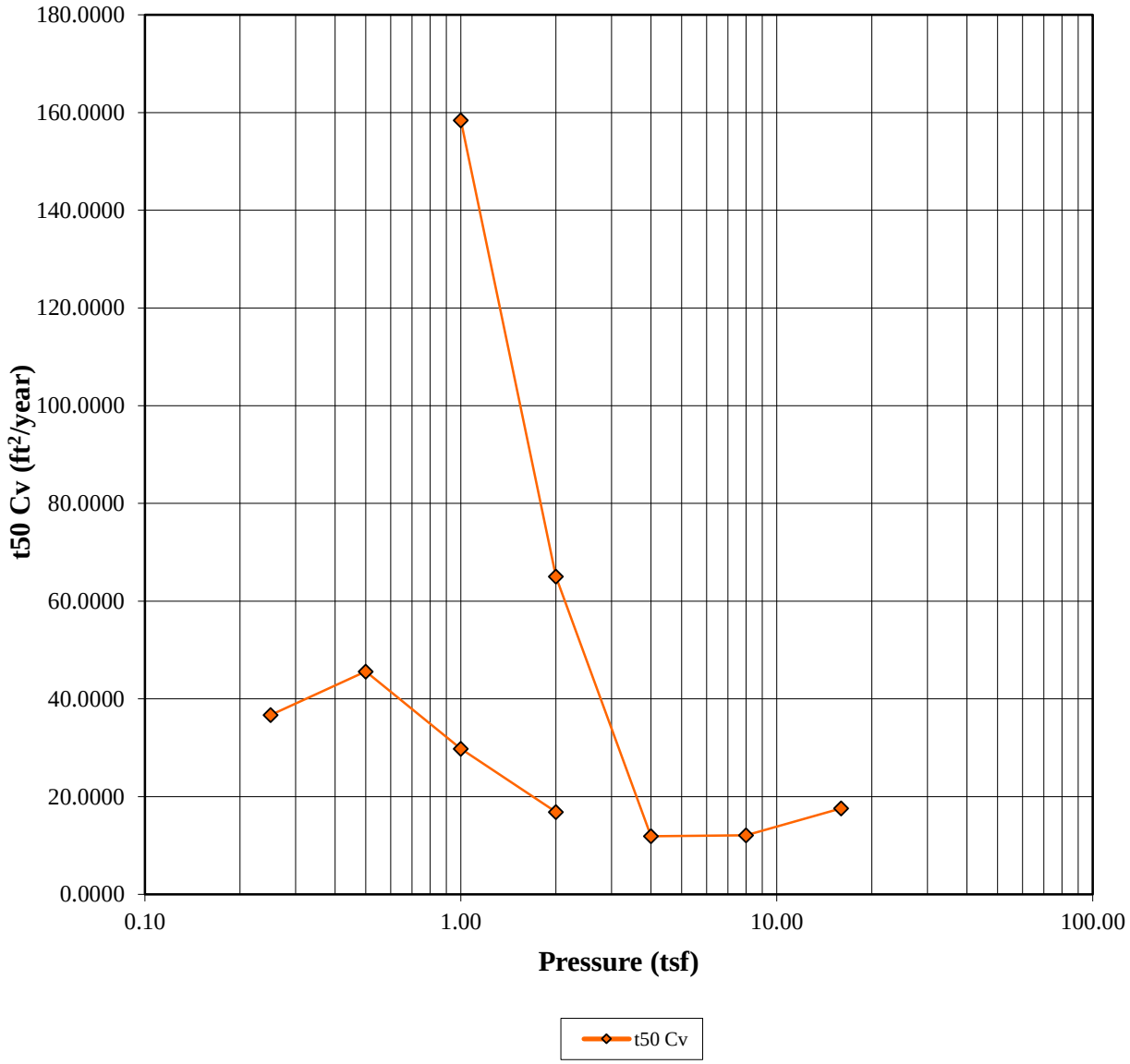


	Before	After				
Moisture (%):	46.08	30.25	**Liquid Limits:**	43	**Test Date:**	1/11/17
Dry Density (pcf):	75.33	94.57	**Plastic Limits:**	20		
Saturation (%):	101.92	106.72	**Plasticity Index (%):**	0		
Void Ratio:	1.2012	0.7782	**Specific Gravity:**	2.655	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-7-6(14))			
Project Number:	7837	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

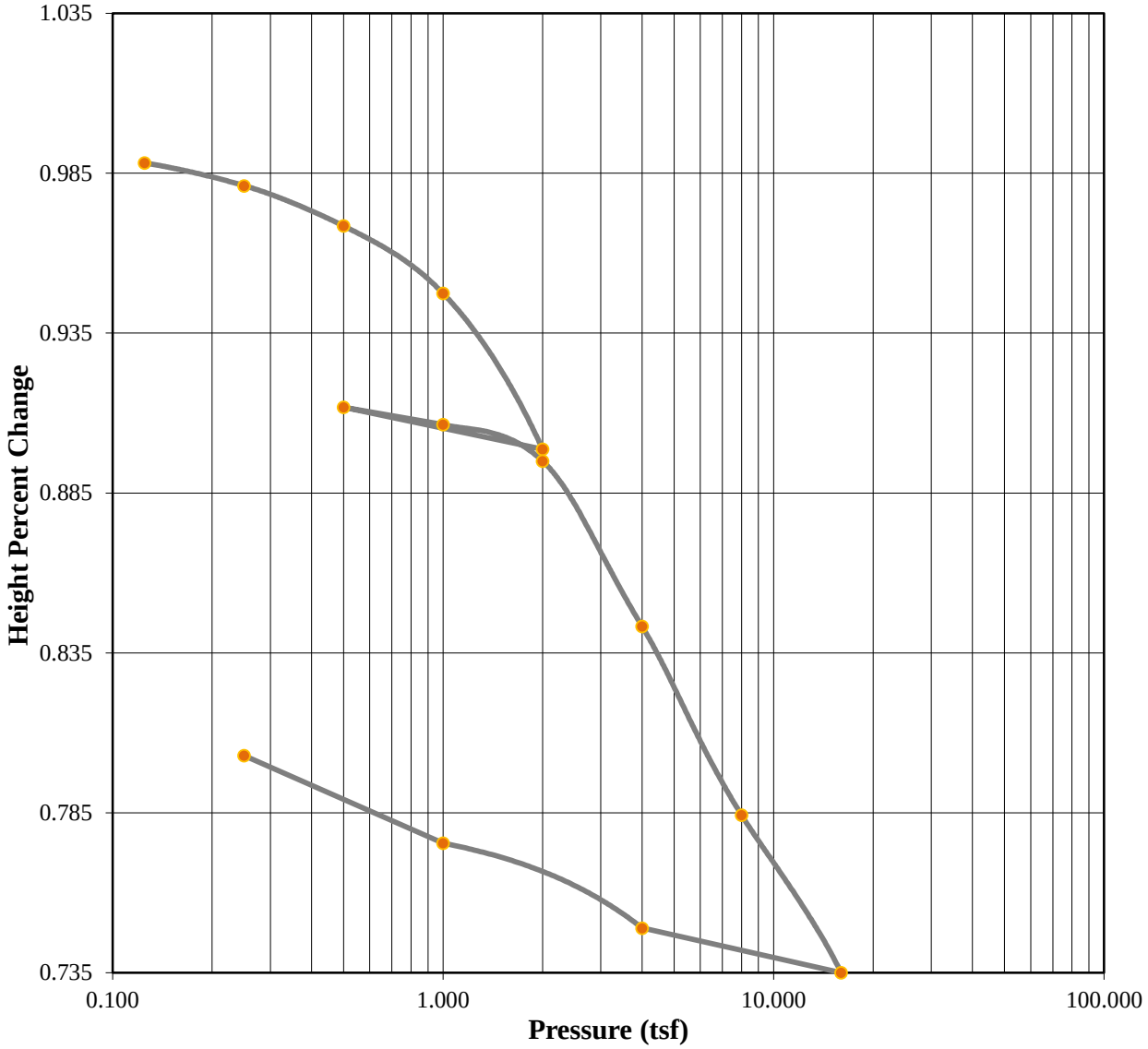
Consolidation Test
Test Results



	Before	After				
Moisture (%):	46.08	30.25	**Liquid Limits:**	43	**Test Date:**	1/11/17
Dry Density (pcf):	75.33	94.57	**Plastic Limits:**	20		
Saturation (%):	101.92	106.72	**Plasticity Index (%):**	0		
Void Ratio:	1.2012	0.7782	**Specific Gravity:**	2.655	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-7-6(14))			
Project Number:	7837	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	46.08	30.25	**Liquid Limits:**	43	**Test Date:**	1/11/17
Dry Density (pcf):	75.33	94.57	**Plastic Limits:**	20		
Saturation (%):	101.92	106.72	**Plasticity Index (%):**	0		
Void Ratio:	1.2012	0.7782	**Specific Gravity:**	2.655	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-7-6(14))			
Project Number:	7837	**Depth:**	23.5-25.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-1
Boring Number: BW-25
Depth: 23.5-25.5 ft.
Sample Type: Undisturbed

Sample Description: SANDY LEAN CLAY(CL A-7-6(14))
Remarks:

Test Number:
Test Date: 1/11/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.5415	0.00	1.1965	0.000	0.000	0.000	0.000
1	0.125	0.0057	0.9883	0.5358	0.57	1.1839	0.000	0.000	0.000	0.000
2	0.250	0.0128	0.9812	0.5286	1.29	1.1681	1.757	4.712	424.063	36.729
3	0.500	0.0254	0.9686	0.5161	2.55	1.1404	9.814	3.697	73.977	45.621
4	1.000	0.0465	0.9475	0.4950	4.68	1.0938	11.806	5.416	58.846	29.798
5	2.000	0.0952	0.8988	0.4462	9.58	0.9860	16.366	8.611	38.193	16.864
6	0.500	0.0821	0.9119	0.4593	8.26	1.0150	0.000	0.000	0.000	0.000
7	1.000	0.0875	0.9065	0.4539	8.81	1.0030	0.912	0.933	696.939	158.391
8	2.000	0.0989	0.8951	0.4425	9.95	0.9778	8.430	2.214	73.535	65.054
9	4.000	0.1506	0.8434	0.3909	15.15	0.8638	26.473	10.751	20.794	11.895
10	8.000	0.2096	0.7844	0.3319	21.08	0.7333	34.253	9.134	13.900	12.110
11	16.000	0.2589	0.7351	0.2825	26.05	0.6243	17.125	5.510	24.416	17.629
12	4.000	0.2449	0.7491	0.2965	24.64	0.6552	0.000	0.000	0.000	0.000
13	1.000	0.2184	0.7756	0.3230	21.97	0.7138	0.000	0.000	0.000	0.000
14	0.250	0.1910	0.8030	0.3505	19.22	0.7744	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

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Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/11/17

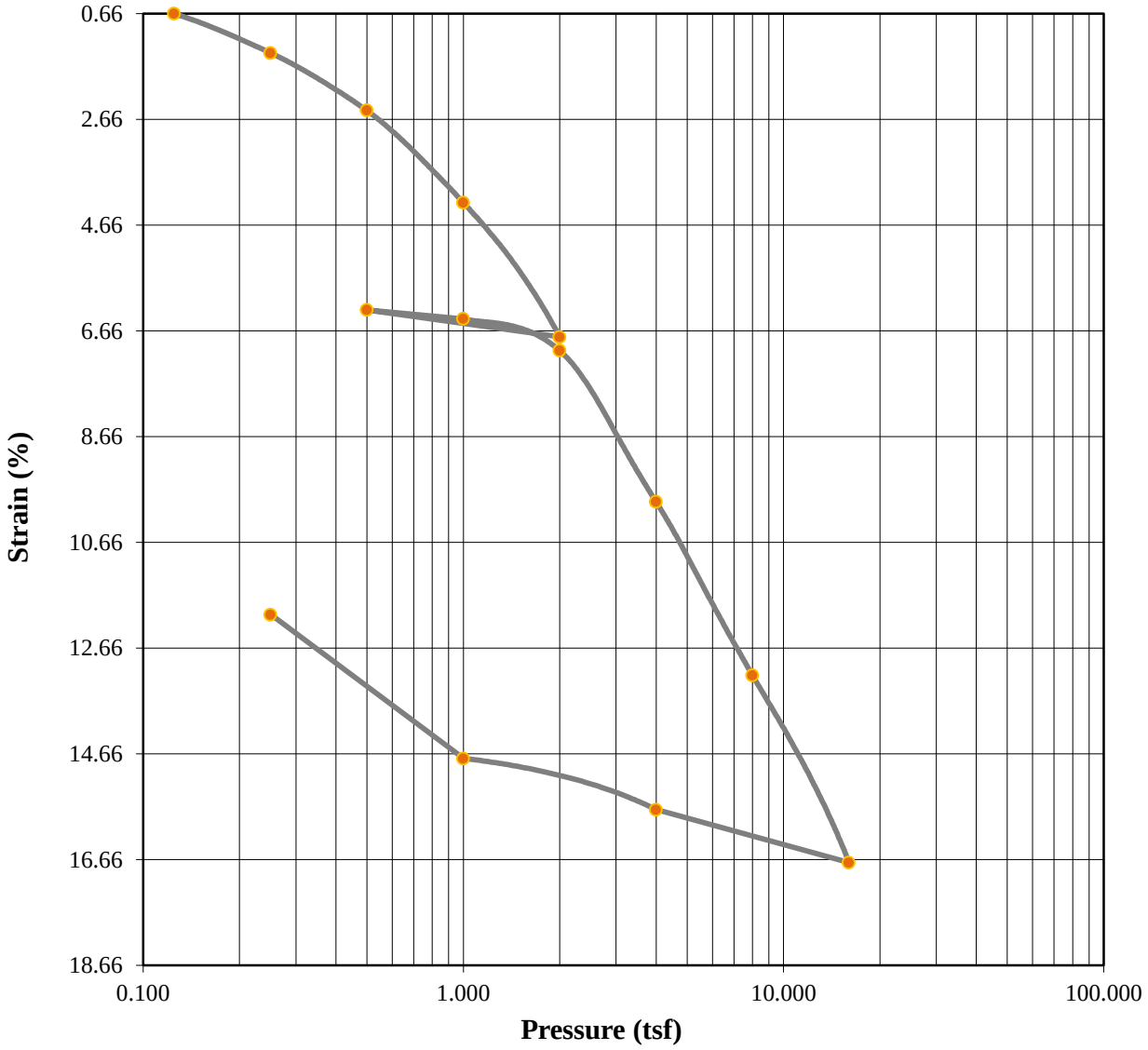
Sample Number: T-1 **Sample Description:**
Boring Number: BW-25 SANDY LEAN CLAY(CL A-7-6(14))
Depth: 23.5-25.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 43.0000 **Initial Void Ratio:** 1.2012 **Initial Height (in):** 0.9940
Plastic Limit: 20.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.6550 Measured **Weight of Ring (g):** 98.7100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	120.25	255.97
Dry Soil + Container (g)	92.48	226.41
Weight of Container (g)	32.22	128.68
Moisture Content (%)	46.08	30.25
Void Ratio	1.2012	0.7782
Saturation (%)	101.92	106.72
Dry Density (pcf)	75.33	94.57

Tested By: B. Hak **Checked By:** C. Dugger

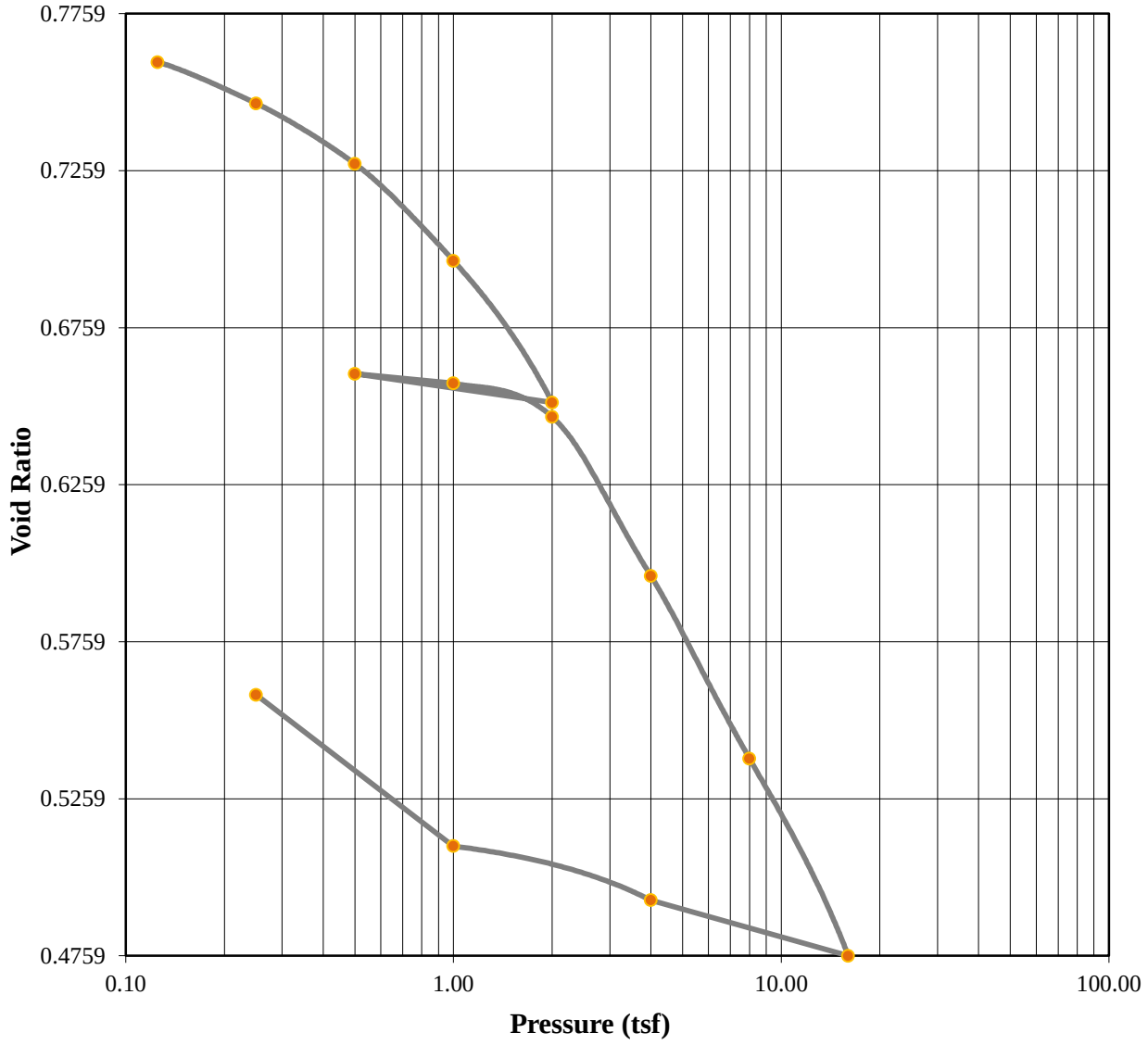
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	1/14/17
Moisture (%):	26.73	21.43	**Plastic Limits:**	18		
Dry Density (pcf):	93.72	105.52	**Plasticity Index (%):**	0		
Saturation (%):	91.88	99.03				
Void Ratio:	0.7773	0.5636	**Specific Gravity:**	2.665	Measured	

Sample Description:	LEAN CLAY with SAND(CL A-6(9))			
Project Number:	7837	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

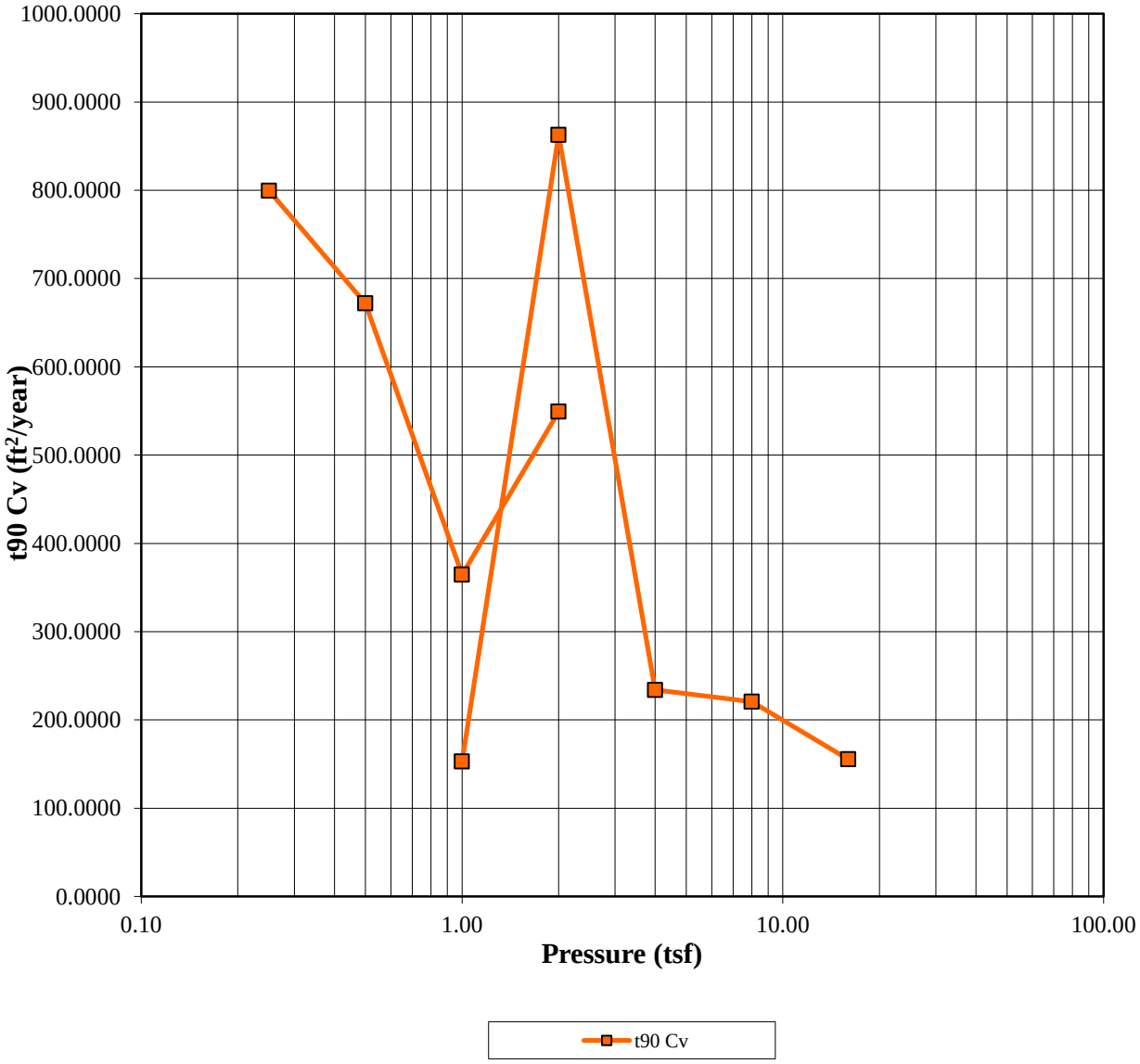
Consolidation Test
Test Results



	Before	After				
Moisture (%):	26.73	21.43	**Liquid Limits:**	34	**Test Date:**	1/14/17
Dry Density (pcf):	93.72	105.52	**Plastic Limits:**	18		
Saturation (%):	91.88	99.03	**Plasticity Index (%):**	0		
Void Ratio:	0.7773	0.5636	**Specific Gravity:**	2.665	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(9))			
Project Number:	7837	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

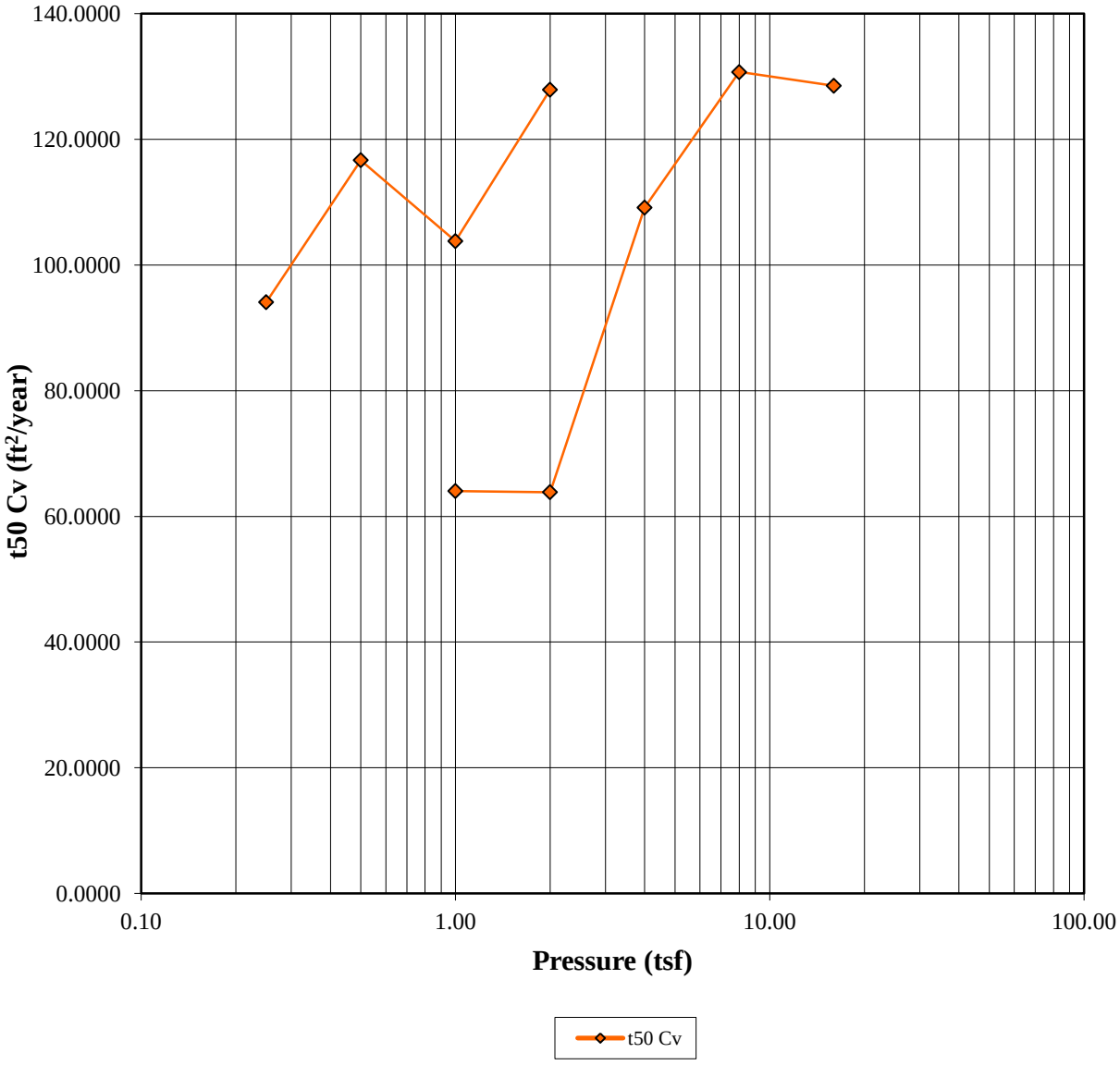
Consolidation Test
Test Results



	Before	After				
Moisture (%):	26.73	21.43	**Liquid Limits:**	34	**Test Date:**	1/14/17
Dry Density (pcf):	93.72	105.52	**Plastic Limits:**	18		
Saturation (%):	91.88	99.03	**Plasticity Index (%):**	0		
Void Ratio:	0.7773	0.5636	**Specific Gravity:**	2.665	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(9))			
Project Number:	7837	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

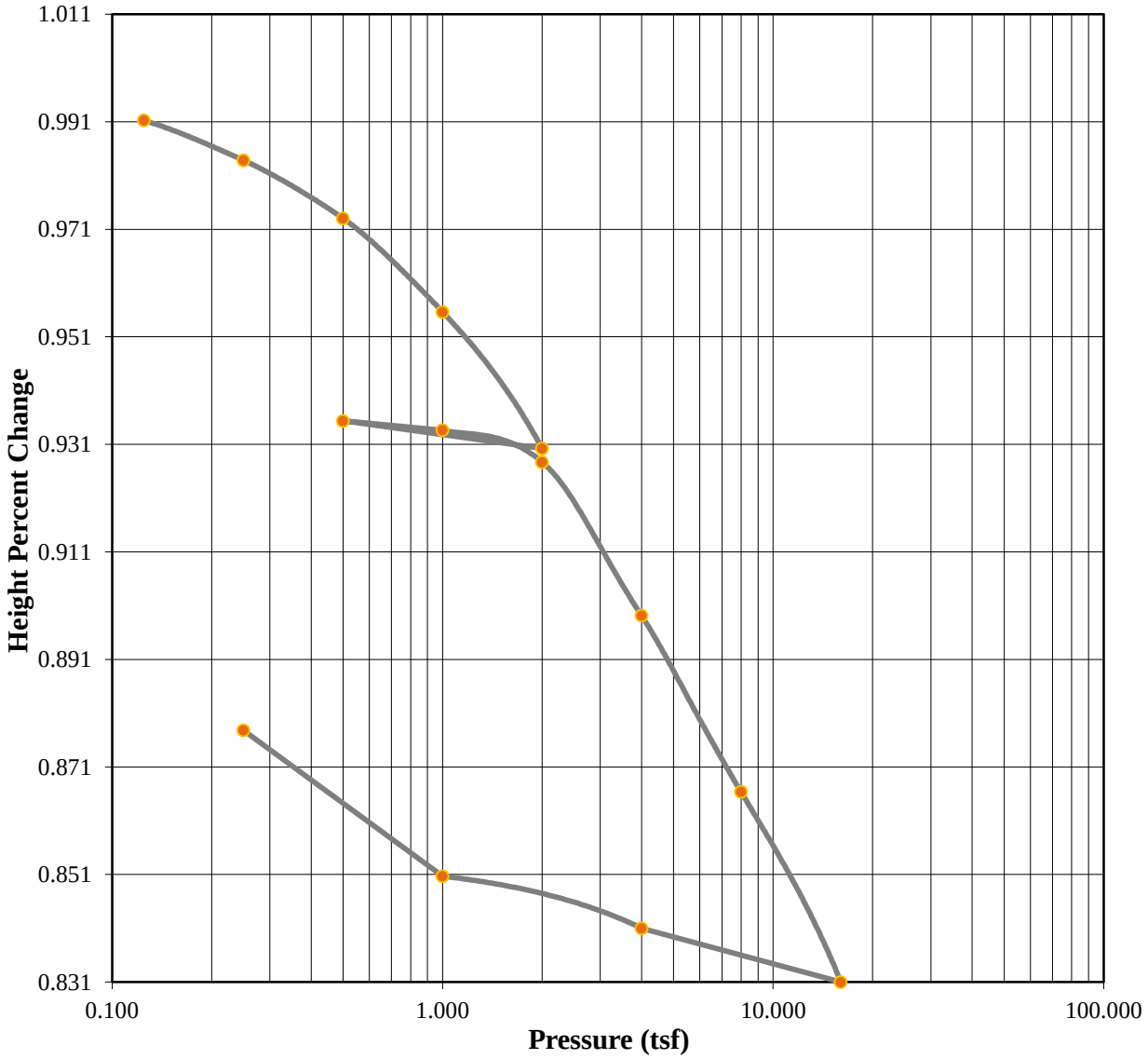
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	1/14/17
Moisture (%):	26.73	21.43	**Plastic Limits:**	18		
Dry Density (pcf):	93.72	105.52	**Plasticity Index (%):**	0		
Saturation (%):	91.88	99.03				
Void Ratio:	0.7773	0.5636	**Specific Gravity:**	2.665	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(9))			
Project Number:	7837	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	26.73	21.43	**Liquid Limits:**	34	**Test Date:**	1/14/17
Dry Density (pcf):	93.72	105.52	**Plastic Limits:**	18		
Saturation (%):	91.88	99.03	**Plasticity Index (%):**	0		
Void Ratio:	0.7773	0.5636	**Specific Gravity:**	2.665	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-6(9))			
Project Number:	7837	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-25	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-3
Boring Number: BW-25
Depth: 43.5-45.5 ft.
Sample Type: Undisturbed

Sample Description: LEAN CLAY with SAND(CL A-6(9))
Remarks:

Test Number:
Test Date: 1/14/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.4348	0.00	0.7721	0.000	0.000	0.000	0.000
1	0.125	0.0066	0.9914	0.4283	0.66	0.7605	0.000	0.000	0.000	0.000
2	0.250	0.0140	0.9840	0.4209	1.40	0.7473	0.937	1.850	799.683	94.110
3	0.500	0.0248	0.9732	0.4100	2.49	0.7281	1.091	1.459	672.026	116.686
4	1.000	0.0422	0.9558	0.3926	4.23	0.6972	1.938	1.582	364.702	103.815
5	2.000	0.0676	0.9304	0.3672	6.77	0.6521	1.220	1.217	549.307	127.904
6	0.500	0.0624	0.9356	0.3724	6.26	0.6612	0.000	0.000	0.000	0.000
7	1.000	0.0642	0.9338	0.3707	6.43	0.6582	4.406	* 2.4475	153.172	64.051
8	2.000	0.0701	0.9279	0.3647	7.03	0.6475	0.772	2.424	862.841	63.847
9	4.000	0.0987	0.8993	0.3362	9.89	0.5969	2.673	1.332	234.120	109.134
10	8.000	0.1315	0.8665	0.3034	13.17	0.5387	2.633	1.033	220.706	130.724
11	16.000	0.1668	0.8312	0.2680	16.71	0.4759	3.439	0.966	155.463	128.516
12	4.000	0.1568	0.8412	0.2780	15.71	0.4936	0.000	0.000	0.000	0.000
13	1.000	0.1471	0.8509	0.2877	14.74	0.5108	0.000	0.000	0.000	0.000
14	0.250	0.1200	0.8780	0.3148	12.02	0.5590	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/14/17

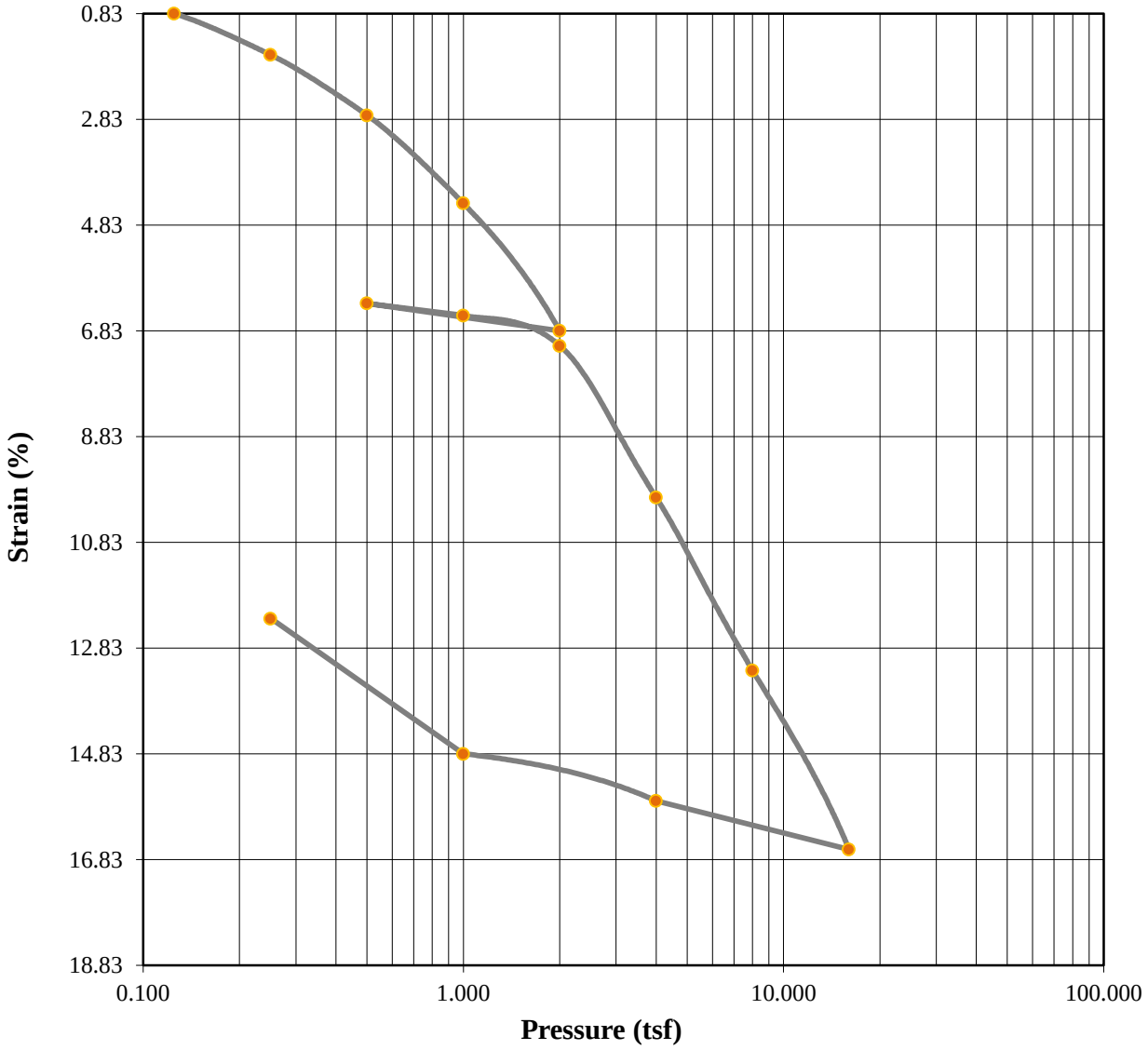
Sample Number: T-3 **Sample Description:**
Boring Number: BW-25 LEAN CLAY with SAND(CL A-6(9))
Depth: 43.5-45.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 34.0000 **Initial Void Ratio:** 0.7773 **Initial Height (in):** 0.9980
Plastic Limit: 18.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5020
Specific Gravity: 2.6650 Measured **Weight of Ring (g):** 110.7700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	120.61	276.89
Dry Soil + Container (g)	101.97	251.35
Weight of Container (g)	32.23	132.15
Moisture Content (%)	26.73	21.43
Void Ratio	0.7773	0.5636
Saturation (%)	91.88	99.03
Dry Density (pcf)	93.72	105.52

Tested By: B. Hak **Checked By:** C. Dugger

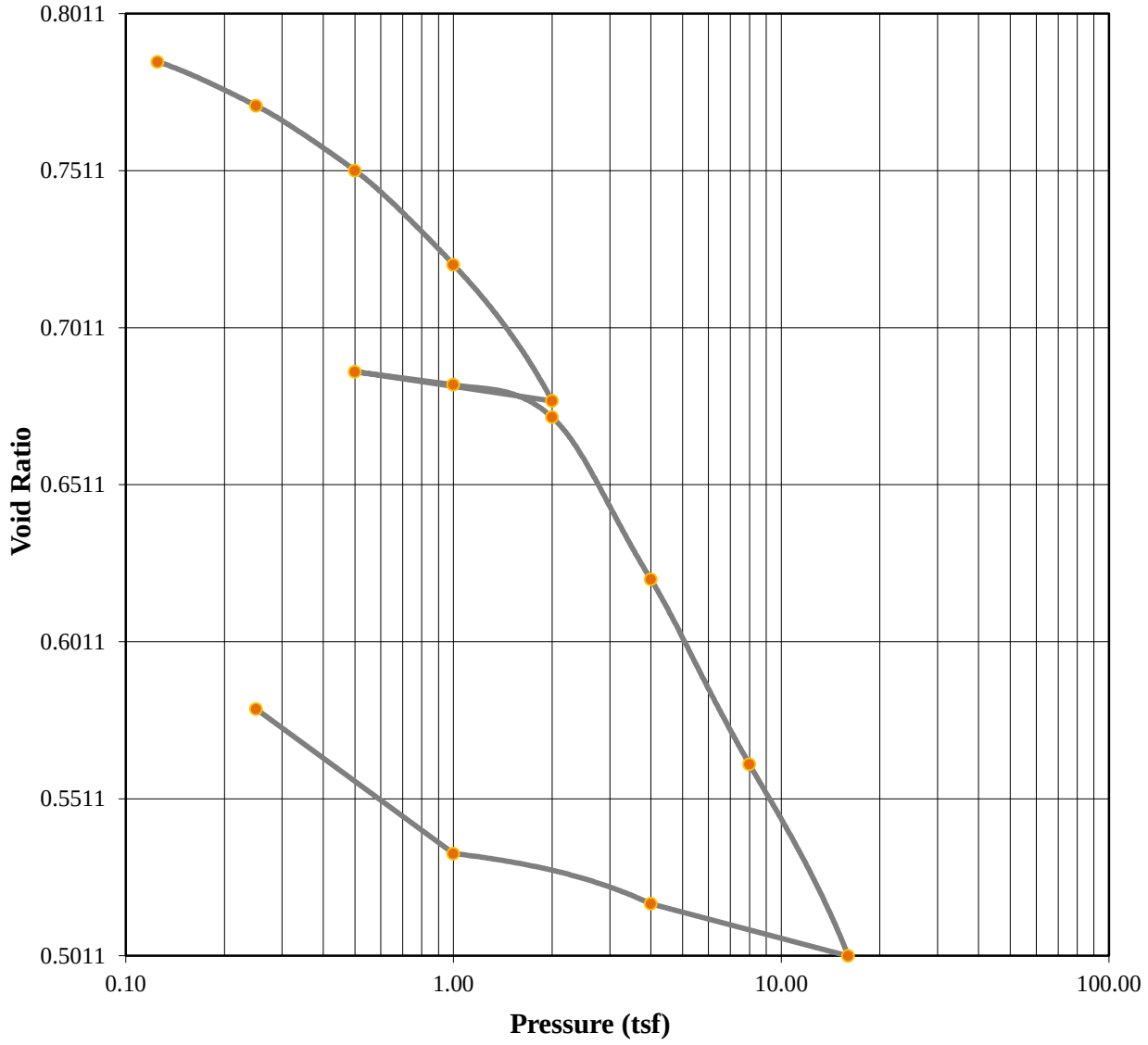
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.66	22.22	**Liquid Limits:**	31	**Test Date:**	1/17/17
Dry Density (pcf):	92.05	104.86	**Plastic Limits:**	14		
Saturation (%):	98.13	101.27	**Plasticity Index (%):**	0		
Void Ratio:	0.8007	0.5797	**Specific Gravity:**	2.660	Measured	

Sample Description:	CLAYEY SAND(SC A-6(2))			
Project Number:	7837	**Depth:**	28.5-30.5	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-26	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

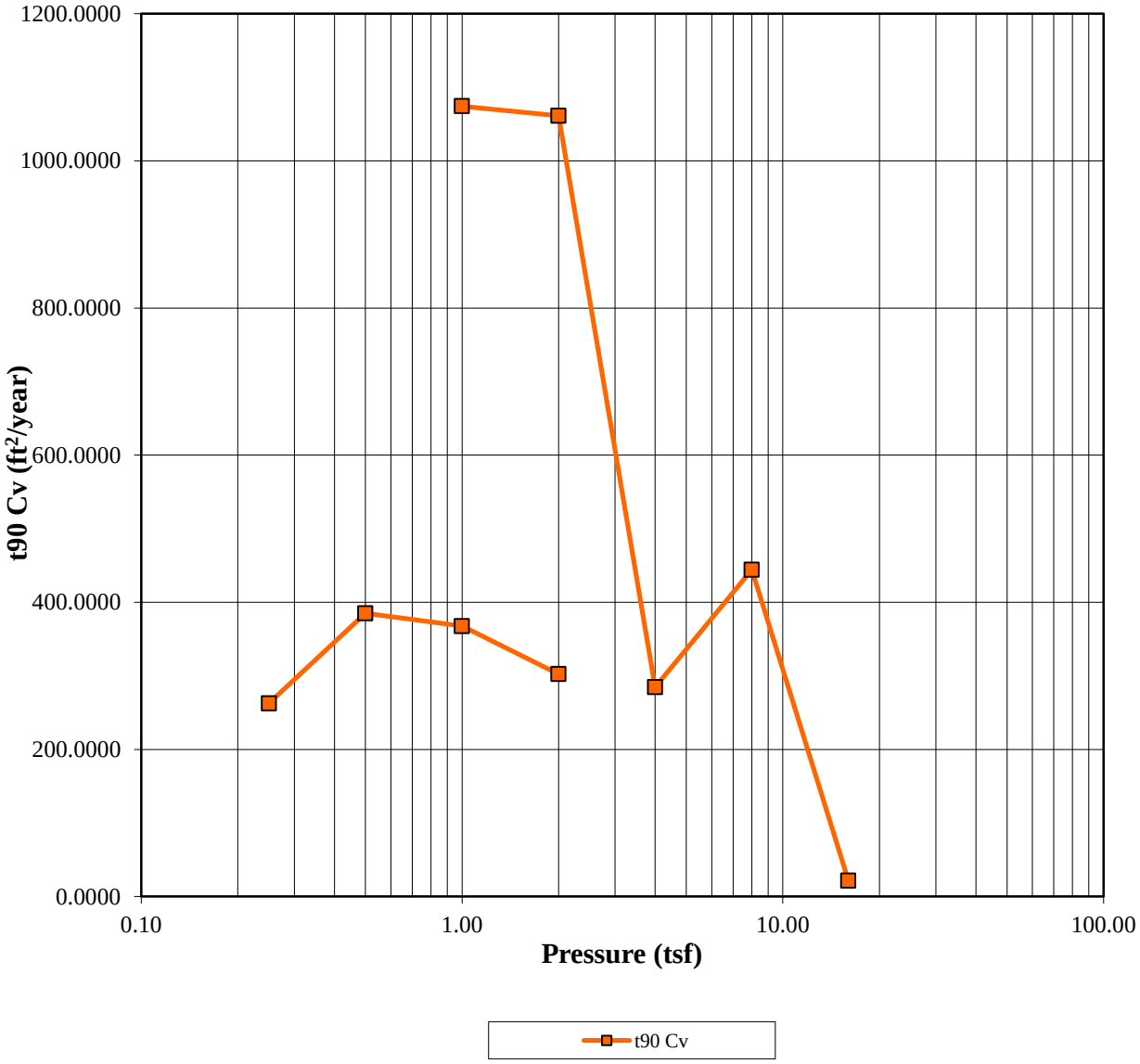
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.66	22.22	**Liquid Limits:**	31	**Test Date:**	1/17/17
Dry Density (pcf):	92.05	104.86	**Plastic Limits:**	14		
Saturation (%):	98.13	101.27	**Plasticity Index (%):**	0		
Void Ratio:	0.8007	0.5797	**Specific Gravity:**	2.660	Measured	

Soil Description:	CLAYEY SAND(SC A-6(2))			
Project Number:	7837	**Depth:**	28.5-30.5	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-26	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

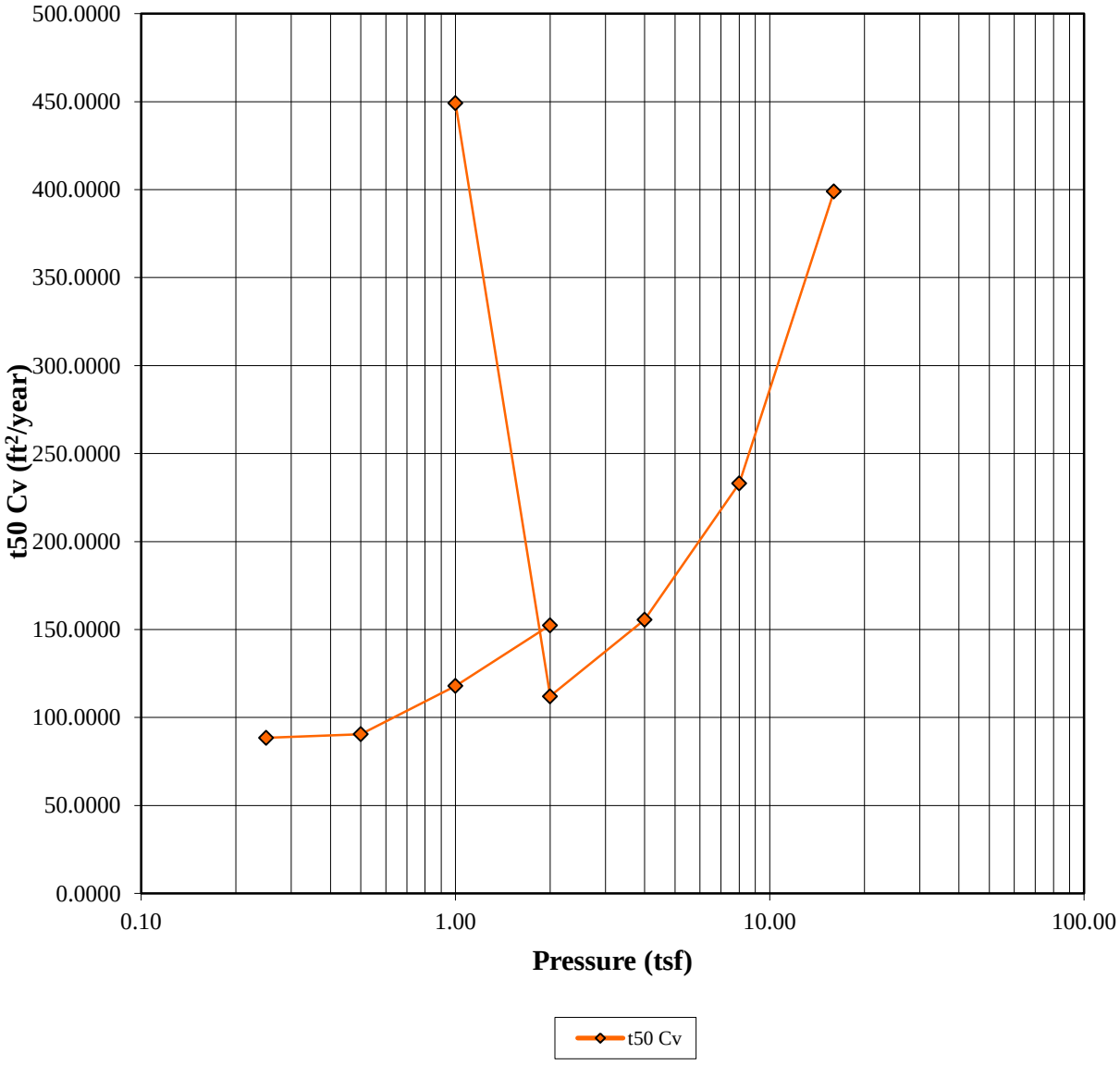
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.66	22.22	**Liquid Limits:**	31	**Test Date:**	1/17/17
Dry Density (pcf):	92.05	104.86	**Plastic Limits:**	14		
Saturation (%):	98.13	101.27	**Plasticity Index (%):**	0		
Void Ratio:	0.8007	0.5797	**Specific Gravity:**	2.660	Measured	

Soil Description:	CLAYEY SAND(SC A-6(2))			
Project Number:	7837	**Depth:**	28.5-30.5	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-26	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

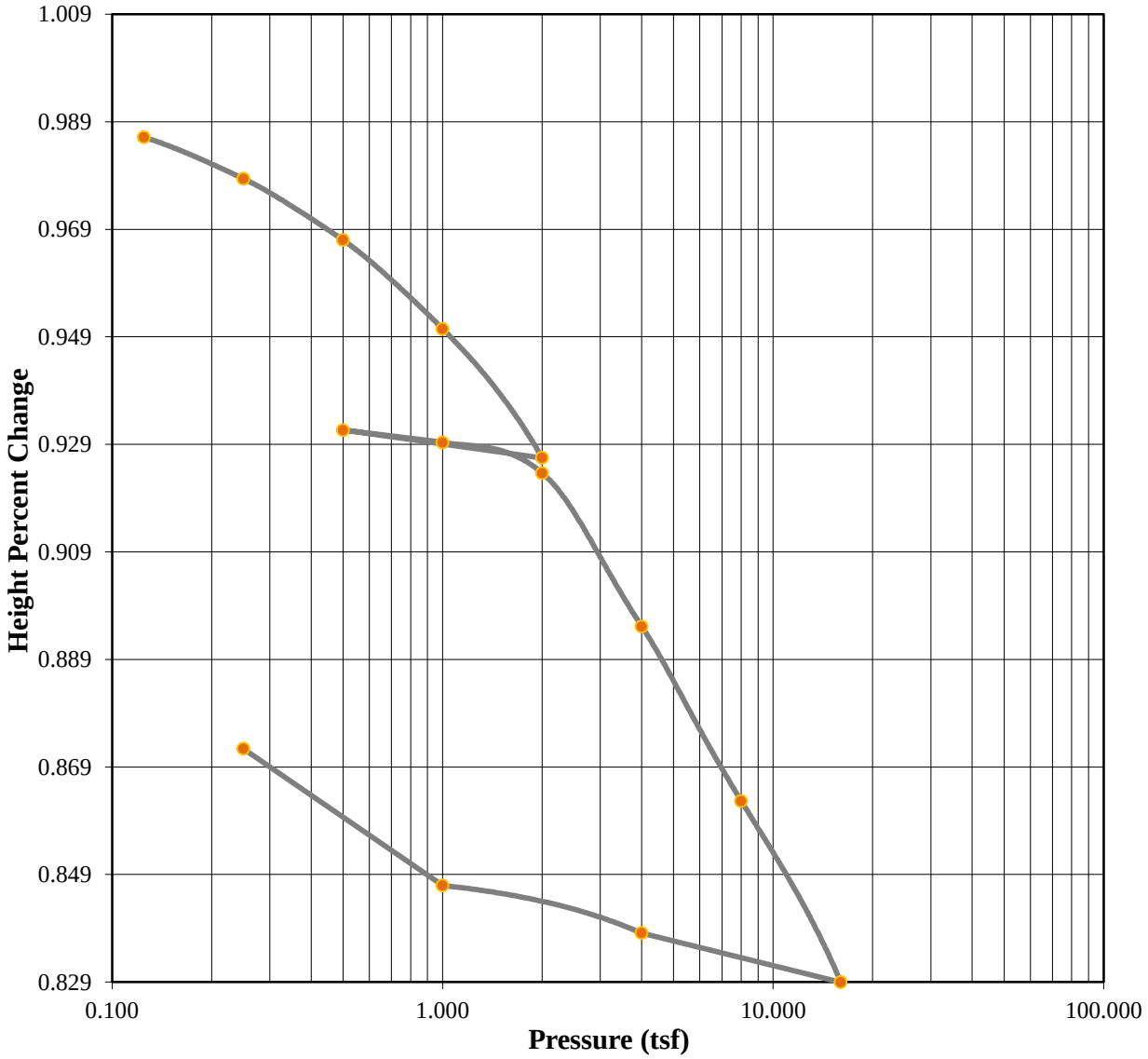
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.66	22.22	**Liquid Limits:**	31	**Test Date:**	1/17/17
Dry Density (pcf):	92.05	104.86	**Plastic Limits:**	14		
Saturation (%):	98.13	101.27	**Plasticity Index (%):**	0		
Void Ratio:	0.8007	0.5797	**Specific Gravity:**	2.660	Measured	

Soil Description:	CLAYEY SAND(SC A-6(2))			
Project Number:	7837	**Depth:**	28.5-30.5	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-26	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.66	22.22	**Liquid Limits:**	31	**Test Date:**	1/17/17
Dry Density (pcf):	92.05	104.86	**Plastic Limits:**	14		
Saturation (%):	98.13	101.27	**Plasticity Index (%):**	0		
Void Ratio:	0.8007	0.5797	**Specific Gravity:**	2.660	Measured	

Soil Description:	CLAYEY SAND(SC A-6(2))			
Project Number:	7837	**Depth:**	28.5-30.5	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-26	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-2
Boring Number: BW-26
Depth: 28.5-30.5
Sample Type: Undisturbed

Sample Description: CLAYEY SAND(SC A-6(2))
Remarks:

Test Number:
Test Date: 1/17/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.4420	0.00	0.8008	0.000	0.000	0.000	0.000
1	0.125	0.0083	0.9857	0.4337	0.83	0.7858	0.000	0.000	0.000	0.000
2	0.250	0.0160	0.9780	0.4260	1.61	0.7718	2.817	1.944	262.800	88.472
3	0.500	0.0274	0.9666	0.4146	2.75	0.7512	1.878	1.856	385.059	90.493
4	1.000	0.0439	0.9501	0.3981	4.42	0.7212	1.901	1.376	367.535	117.965
5	2.000	0.0679	0.9261	0.3741	6.83	0.6778	2.195	1.011	302.393	152.451
6	0.500	0.0627	0.9313	0.3793	6.31	0.6871	0.000	0.000	0.000	0.000
7	1.000	0.0650	0.9290	0.3770	6.54	0.6830	0.622	* 0.3453	1074.415	449.285
8	2.000	0.0707	0.9233	0.3713	7.11	0.6726	0.622	1.367	1061.257	112.094
9	4.000	0.0992	0.8948	0.3428	9.98	0.6210	2.176	0.925	284.740	155.587
10	8.000	0.1317	0.8623	0.3103	13.25	0.5621	1.295	0.573	444.274	233.140
11	16.000	0.1654	0.8286	0.2766	16.64	0.5011	24.260	0.309	21.900	398.970
12	4.000	0.1563	0.8377	0.2858	15.72	0.5177	0.000	0.000	0.000	0.000
13	1.000	0.1474	0.8466	0.2946	14.83	0.5337	0.000	0.000	0.000	0.000
14	0.250	0.1220	0.8720	0.3200	12.27	0.5797	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

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Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/17/17

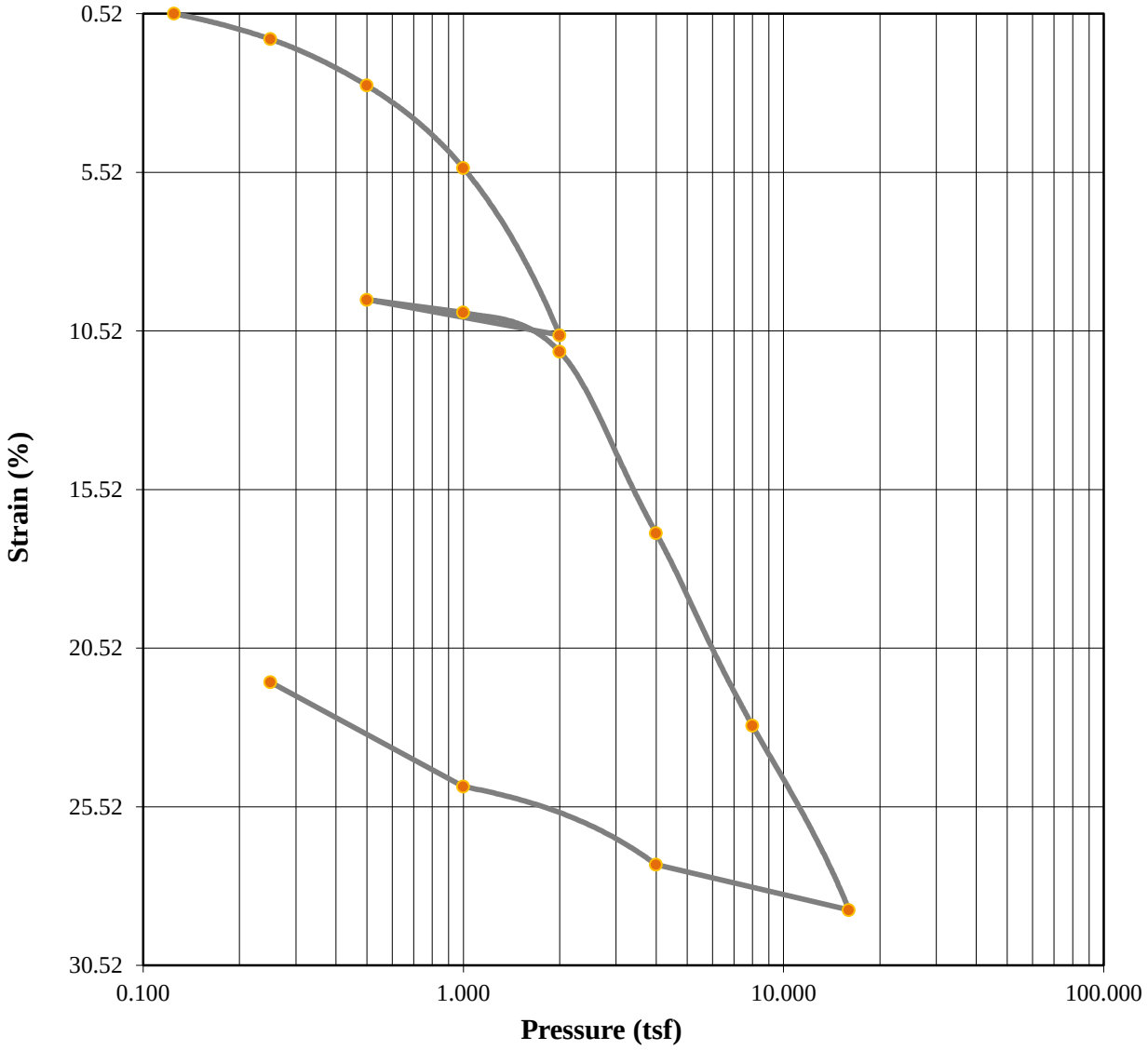
Sample Number: T-2 **Sample Description:**
Boring Number: BW-26 CLAYEY SAND(SC A-6(2))
Depth: 28.5-30.5 **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 31.0000 **Initial Void Ratio:** 0.8007 **Initial Height (in):** 0.9940
Plastic Limit: 14.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5060
Specific Gravity: 2.6600 Measured **Weight of Ring (g):** 98.6800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	117.87	277.45
Dry Soil + Container (g)	98.18	251.22
Weight of Container (g)	31.79	133.19
Moisture Content (%)	29.66	22.22
Void Ratio	0.8007	0.5797
Saturation (%)	98.13	101.27
Dry Density (pcf)	92.05	104.86

Tested By: B. Hak **Checked By:** C. Dugger

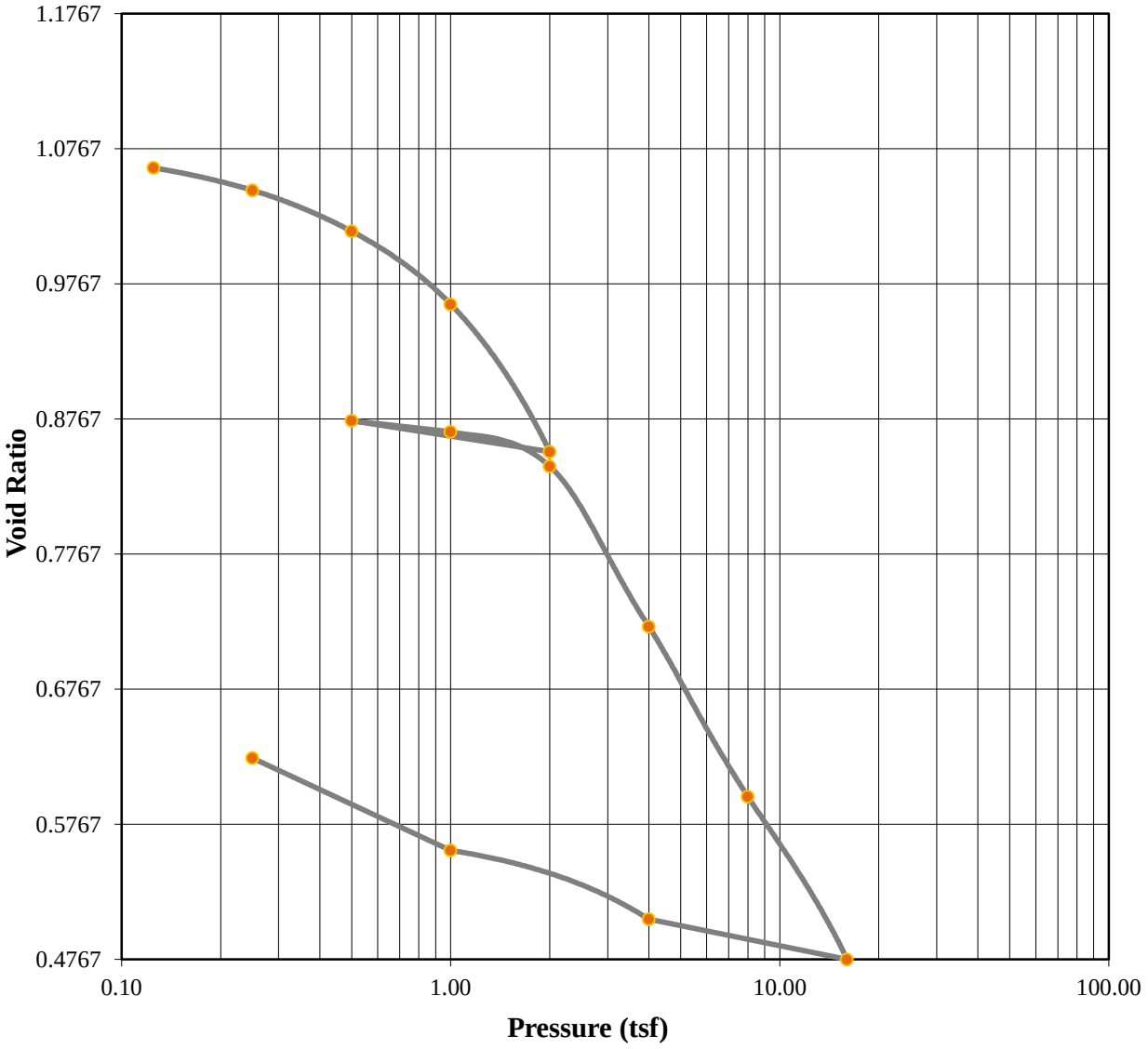
Consolidation Test
Test Results



	Before	After				
Moisture (%):	50.46	32.26	**Liquid Limits:**	37	**Test Date:**	1/20/17
Dry Density (pcf):	77.25	100.95	**Plastic Limits:**	15		
Saturation (%):	120.43	140.69	**Plasticity Index (%):**	0		
Void Ratio:	1.0753	0.6273	**Specific Gravity:**	2.570	Measured	

Sample Description:	CLAYEY SAND(SC A-6(6))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-27	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

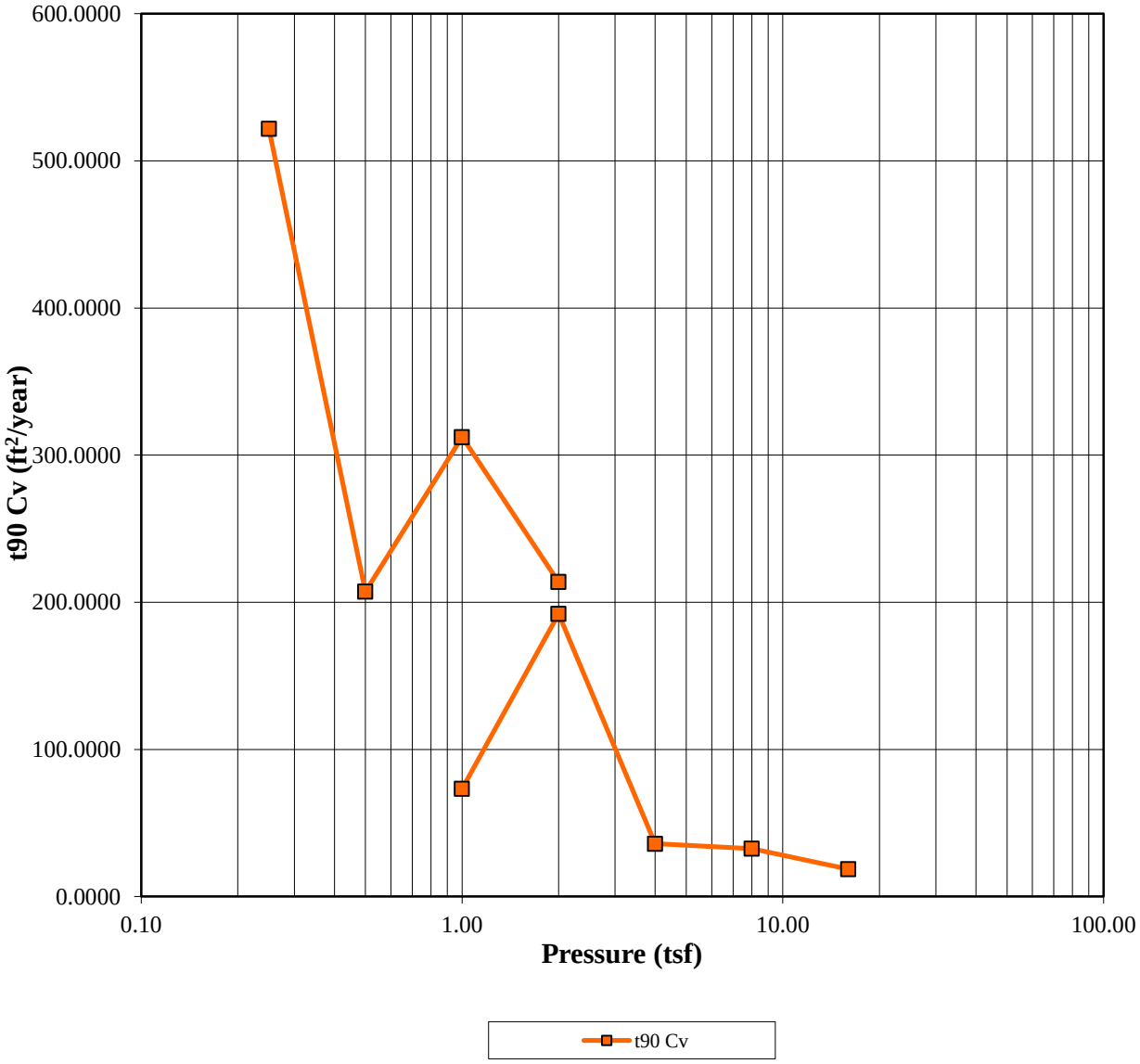
Consolidation Test
Test Results



	Before	After				
Moisture (%):	50.46	32.26	**Liquid Limits:**	37	**Test Date:**	1/20/17
Dry Density (pcf):	77.25	100.95	**Plastic Limits:**	15		
Saturation (%):	120.43	140.69	**Plasticity Index (%):**	0		
Void Ratio:	1.0753	0.6273	**Specific Gravity:**	2.570	Measured	

Soil Description:	CLAYEY SAND(SC A-6(6))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-27	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

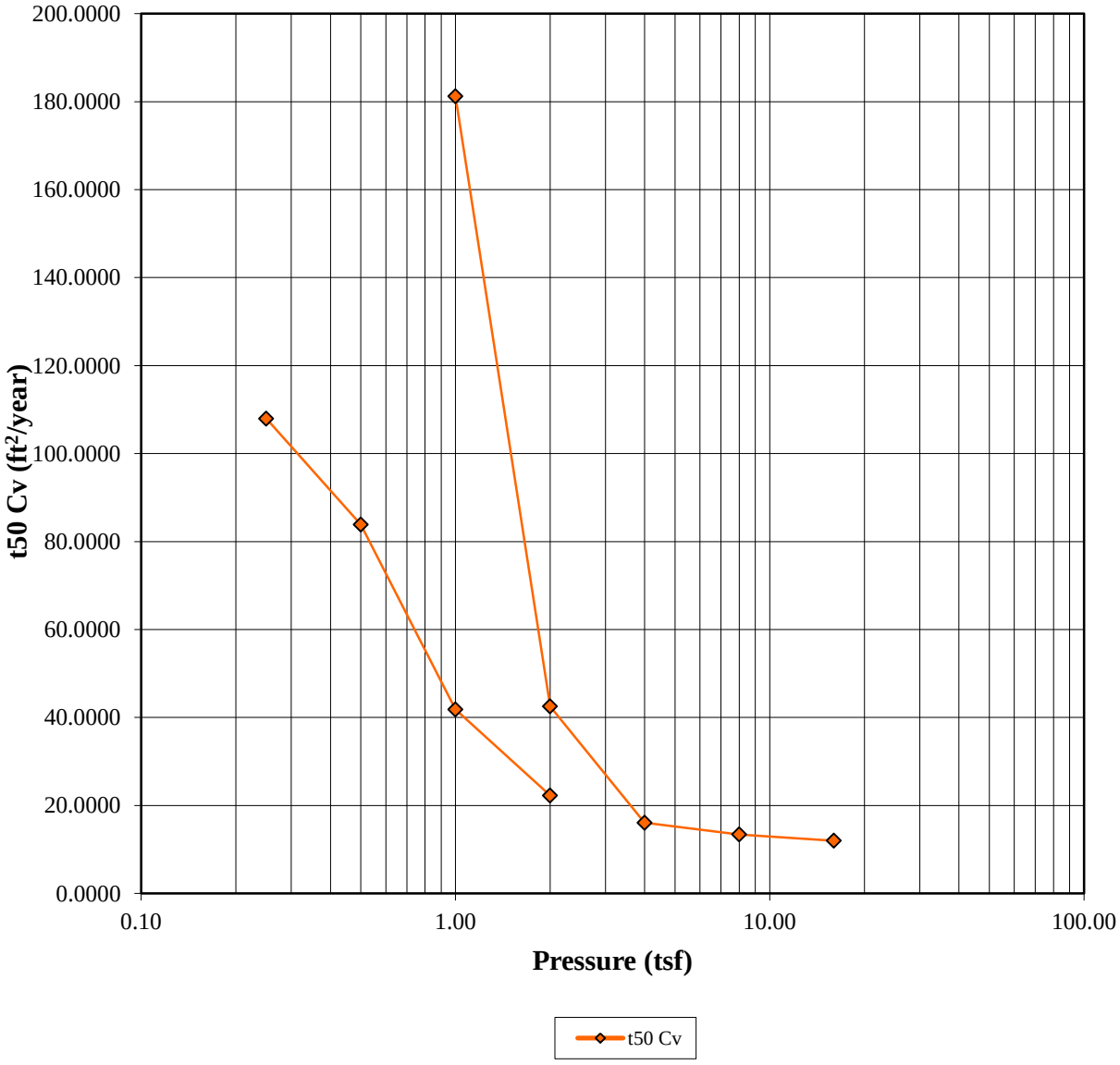


	Before	After				
Moisture (%):	50.46	32.26	**Liquid Limits:**	37	**Test Date:**	1/20/17
Dry Density (pcf):	77.25	100.95	**Plastic Limits:**	15		
Saturation (%):	120.43	140.69	**Plasticity Index (%):**	0		
Void Ratio:	1.0753	0.6273	**Specific Gravity:**	2.570	Measured	

Soil Description:	CLAYEY SAND(SC A-6(6))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-27	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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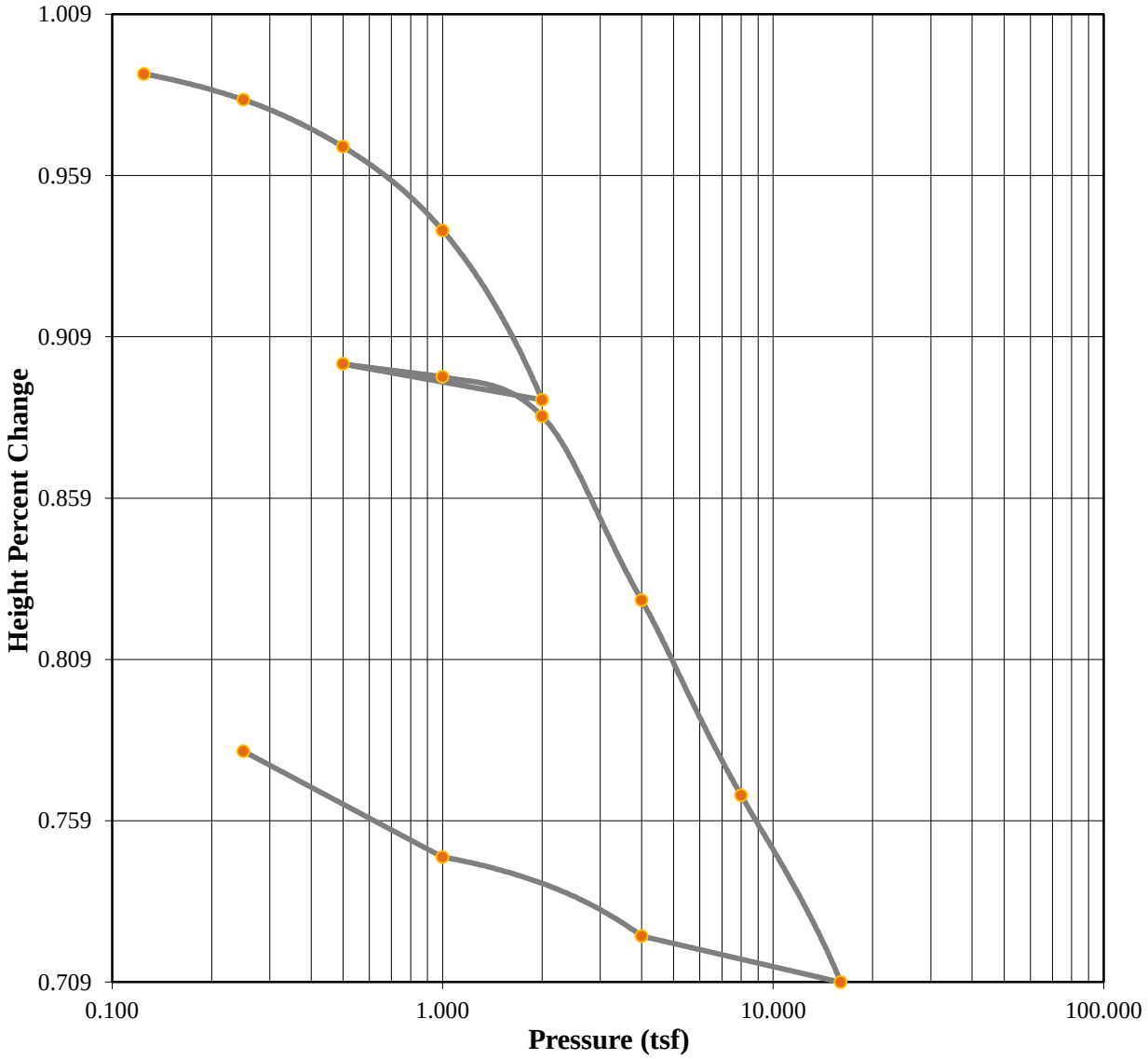
Consolidation Test
Test Results



	Before	After				
Moisture (%):	50.46	32.26	**Liquid Limits:**	37	**Test Date:**	1/20/17
Dry Density (pcf):	77.25	100.95	**Plastic Limits:**	15		
Saturation (%):	120.43	140.69	**Plasticity Index (%):**	0		
Void Ratio:	1.0753	0.6273	**Specific Gravity:**	2.570	Measured	

Soil Description:	CLAYEY SAND(SC A-6(6))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-27	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	50.46	32.26	**Liquid Limits:**	37	**Test Date:**	1/20/17
Dry Density (pcf):	77.25	100.95	**Plastic Limits:**	15		
Saturation (%):	120.43	140.69	**Plasticity Index (%):**	0		
Void Ratio:	1.0753	0.6273	**Specific Gravity:**	2.570	Measured	

Soil Description:	CLAYEY SAND(SC A-6(6))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-27	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-1
Boring Number: BW-27
Depth: 18.5-20.5 ft.
Sample Type: Undisturbed

Sample Description: CLAYEY SAND(SC A-6(6))
Remarks:

Test Number:
Test Date: 1/20/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9960	0.5156	0.00	1.0732	0.000	0.000	0.000	0.000
1	0.125	0.0051	0.9909	0.5104	0.52	1.0625	0.000	0.000	0.000	0.000
2	0.250	0.0131	0.9829	0.5025	1.32	1.0459	1.433	1.609	521.712	107.938
3	0.500	0.0277	0.9683	0.4879	2.78	1.0156	3.502	2.010	207.203	83.869
4	1.000	0.0536	0.9424	0.4620	5.38	0.9616	2.201	3.818	312.280	41.820
5	2.000	0.1061	0.8899	0.4095	10.65	0.8524	2.867	6.387	213.785	22.290
6	0.500	0.0950	0.9010	0.4206	9.53	0.8755	0.000	0.000	0.000	0.000
7	1.000	0.0989	0.8971	0.4166	9.93	0.8672	8.502	0.798	73.236	181.232
8	2.000	0.1112	0.8848	0.4044	11.17	0.8417	3.153	3.309	192.120	42.524
9	4.000	0.1682	0.8278	0.3473	16.89	0.7230	14.791	7.666	35.847	16.067
10	8.000	0.2287	0.7673	0.2869	22.96	0.5972	13.984	7.888	32.579	13.418
11	16.000	0.2866	0.7094	0.2290	28.77	0.4767	20.924	7.541	18.612	11.998
12	4.000	0.2723	0.7237	0.2433	27.34	0.5064	0.000	0.000	0.000	0.000
13	1.000	0.2478	0.7482	0.2678	24.88	0.5574	0.000	0.000	0.000	0.000
14	0.250	0.2150	0.7810	0.3006	21.59	0.6256	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/20/17

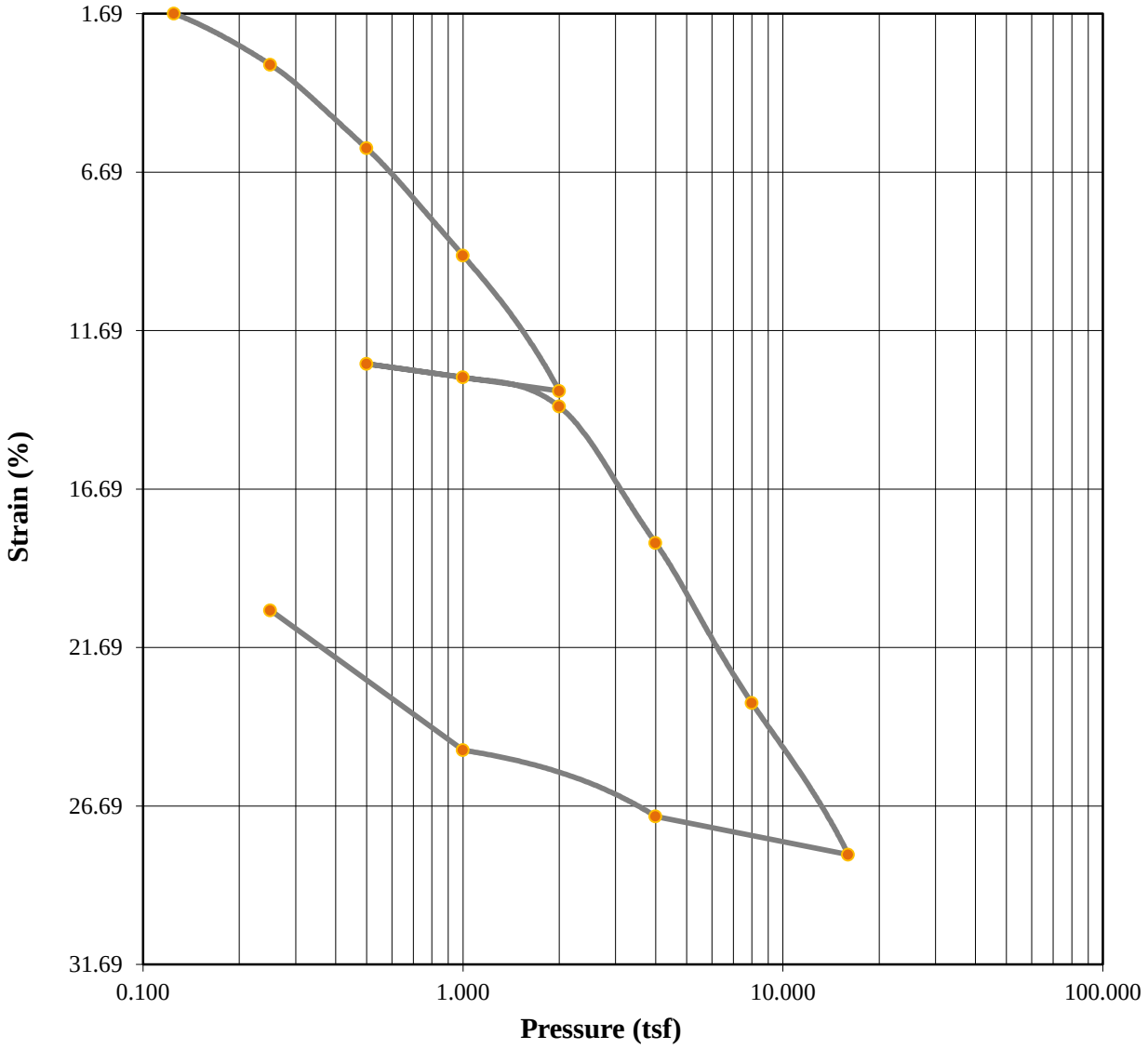
Sample Number: T-1 **Sample Description:**
Boring Number: BW-27 CLAYEY SAND(SC A-6(6))
Depth: 18.5-20.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 37.0000 **Initial Void Ratio:** 1.0753 **Initial Height (in):** 0.9960
Plastic Limit: 15.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4970
Specific Gravity: 2.5700 Measured **Weight of Ring (g):** 98.7000

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	124.57	254.79
Dry Soil + Container (g)	93.60	225.12
Weight of Container (g)	32.23	133.15
Moisture Content (%)	50.46	32.26
Void Ratio	1.0753	0.6273
Saturation (%)	120.43	140.69
Dry Density (pcf)	77.25	100.95

Tested By: B. Hak **Checked By:** C. Dugger

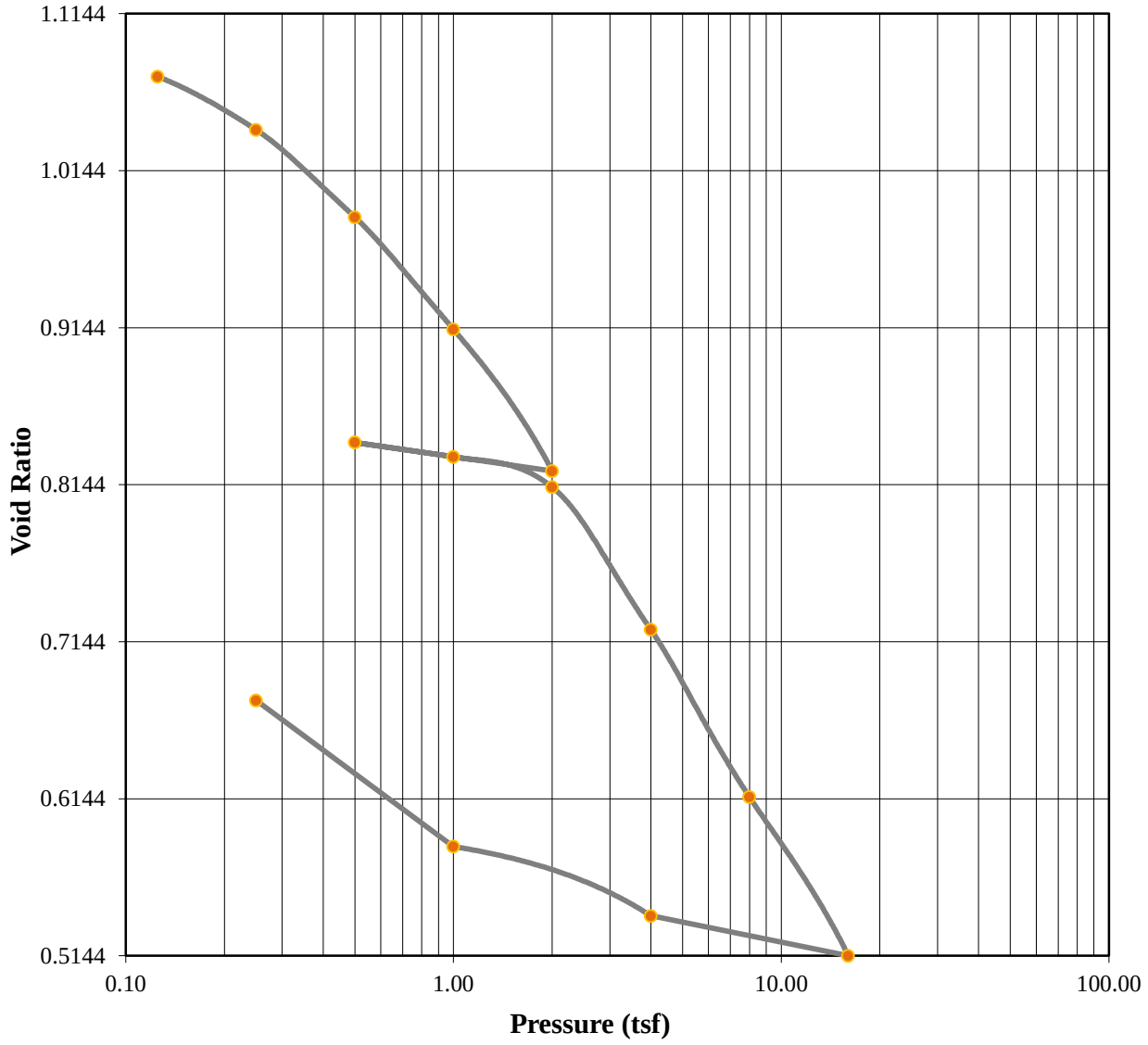
Consolidation Test
Test Results



	Before	After				
Moisture (%):	45.35	29.56	**Liquid Limits:**	44	**Test Date:**	1/24/17
Dry Density (pcf):	74.84	92.74	**Plastic Limits:**	16		
Saturation (%):	103.17	106.13	**Plasticity Index (%):**	0		
Void Ratio:	1.1096	0.6767	**Specific Gravity:**	2.534	Measured	

Sample Description:	LEAN CLAY with SAND(CL A-7-6(19))			
Project Number:	7837	**Depth:**	13.5-15.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-29	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

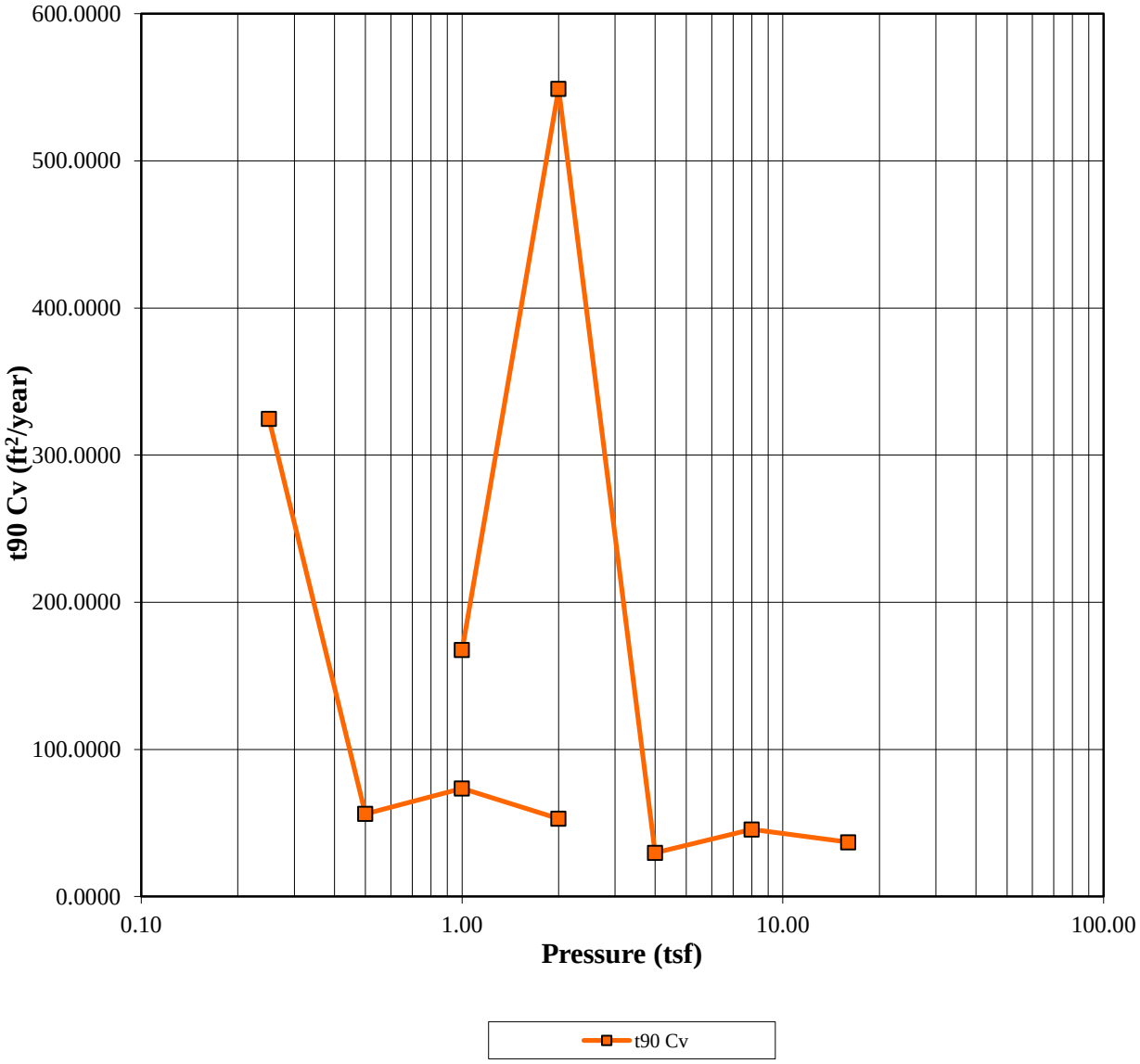
Consolidation Test
Test Results



	Before	After				
Moisture (%):	45.35	29.56	**Liquid Limits:**	44	**Test Date:**	1/24/17
Dry Density (pcf):	74.84	92.74	**Plastic Limits:**	16		
Saturation (%):	103.17	106.13	**Plasticity Index (%):**	0		
Void Ratio:	1.1096	0.6767	**Specific Gravity:**	2.534	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-7-6(19))			
Project Number:	7837	**Depth:**	13.5-15.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-29	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

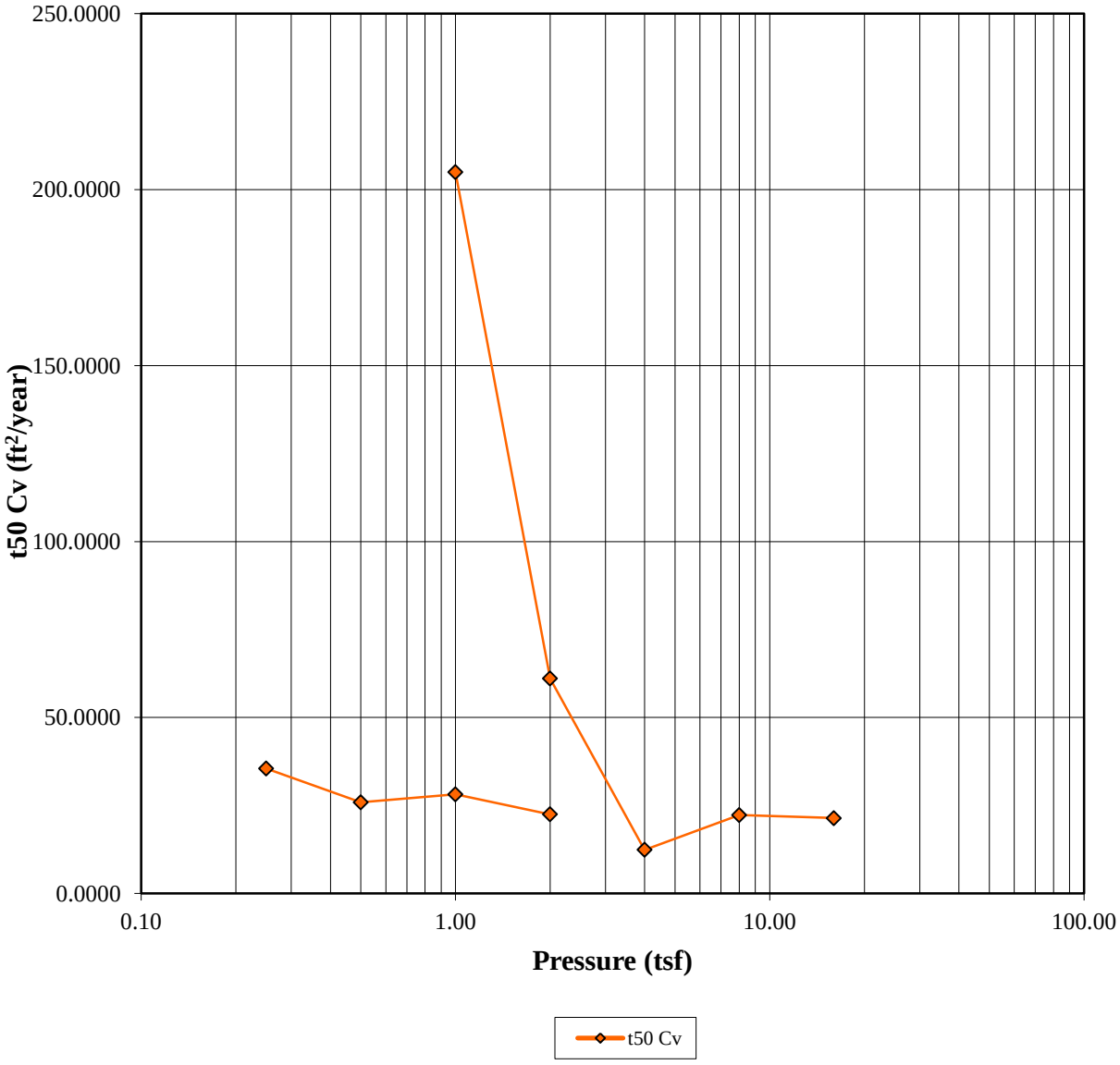
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	44	**Test Date:**	1/24/17
Moisture (%):	45.35	29.56	**Plastic Limits:**	16		
Dry Density (pcf):	74.84	92.74	**Plasticity Index (%):**	0		
Saturation (%):	103.17	106.13				
Void Ratio:	1.1096	0.6767	**Specific Gravity:**	2.534	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-7-6(19))			
Project Number:	7837	**Depth:**	13.5-15.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-29	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

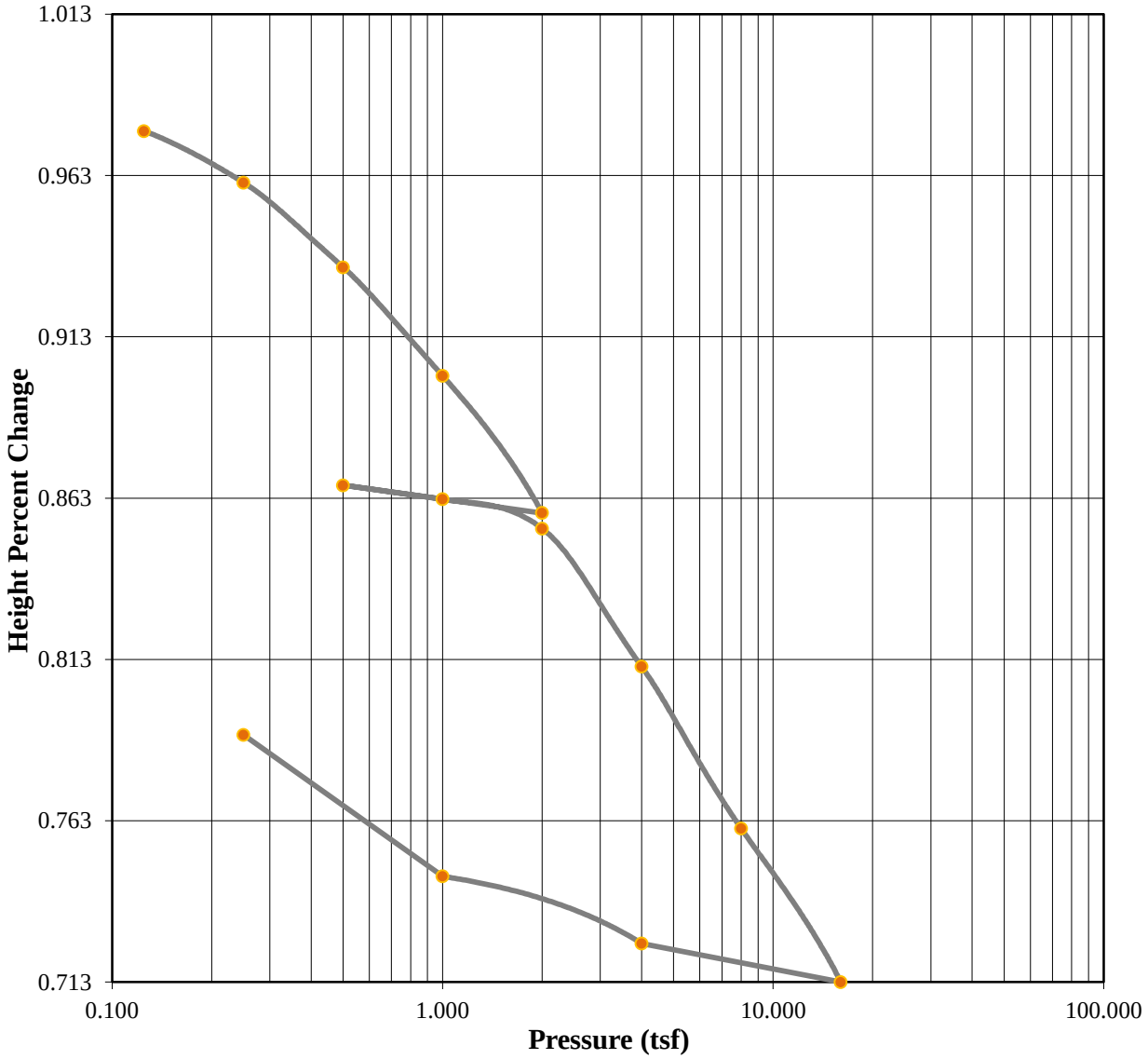
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	44	**Test Date:**	1/24/17
Moisture (%):	45.35	29.56	**Plastic Limits:**	16		
Dry Density (pcf):	74.84	92.74	**Plasticity Index (%):**	0		
Saturation (%):	103.17	106.13				
Void Ratio:	1.1096	0.6767	**Specific Gravity:**	2.534	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-7-6(19))			
Project Number:	7837	**Depth:**	13.5-15.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-29	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	45.35	29.56	**Liquid Limits:**	44	**Test Date:**	1/24/17
Dry Density (pcf):	74.84	92.74	**Plastic Limits:**	16		
Saturation (%):	103.17	106.13	**Plasticity Index (%):**	0		
Void Ratio:	1.1096	0.6767	**Specific Gravity:**	2.534	Measured	

Soil Description:	LEAN CLAY with SAND(CL A-7-6(19))			
Project Number:	7837	**Depth:**	13.5-15.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-29	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-1
Boring Number: BW-29
Depth: 13.5-15.5 ft.
Sample Type: Undisturbed

Sample Description: LEAN CLAY with SAND(CL A-7-6(19))
Remarks:

Test Number:
Test Date: 1/24/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.5229	0.00	1.1101	0.000	0.000	0.000	0.000
1	0.125	0.0168	0.9772	0.5061	1.69	1.0743	0.000	0.000	0.000	0.000
2	0.250	0.0328	0.9612	0.4901	3.30	1.0404	2.202	4.675	324.699	35.524
3	0.500	0.0590	0.9350	0.4639	5.94	0.9848	12.033	6.074	56.214	25.873
4	1.000	0.0927	0.9013	0.4303	9.32	0.9133	8.562	5.178	73.425	28.202
5	2.000	0.1352	0.8588	0.3878	13.60	0.8231	10.793	5.895	52.881	22.494
6	0.500	0.1266	0.8674	0.3963	12.74	0.8413	0.000	0.000	0.000	0.000
7	1.000	0.1309	0.8631	0.3920	13.17	0.8322	3.442	0.653	167.498	204.992
8	2.000	0.1400	0.8540	0.3829	14.09	0.8129	1.028	2.147	548.952	61.061
9	4.000	0.1828	0.8112	0.3401	18.39	0.7221	17.155	* 9.5307	29.683	12.412
10	8.000	0.2330	0.7610	0.2900	23.44	0.6155	9.837	4.674	45.560	22.278
11	16.000	0.2806	0.7134	0.2423	28.23	0.5144	10.671	4.271	36.906	21.424
12	4.000	0.2686	0.7254	0.2543	27.02	0.5399	0.000	0.000	0.000	0.000
13	1.000	0.2478	0.7462	0.2751	24.93	0.5840	0.000	0.000	0.000	0.000
14	0.250	0.2040	0.7900	0.3189	20.52	0.6770	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/24/17

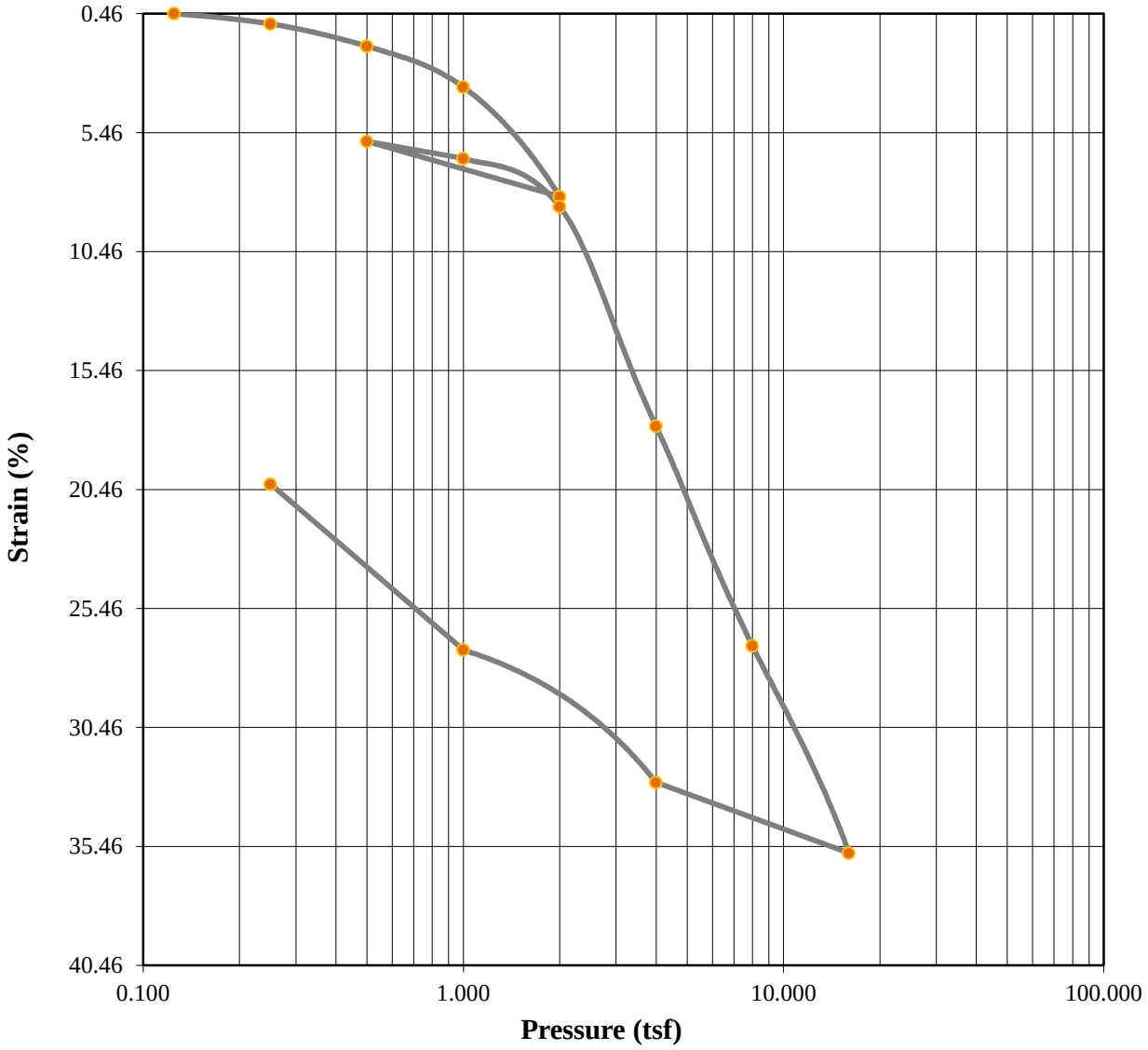
Sample Number: T-1 **Sample Description:**
Boring Number: BW-29 LEAN CLAY with SAND(CL A-7-6(19))
Depth: 13.5-15.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 44.0000 **Initial Void Ratio:** 1.1096 **Initial Height (in):** 0.9940
Plastic Limit: 16.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4940
Specific Gravity: 2.5340 Measured **Weight of Ring (g):** 98.6700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	115.40	254.53
Dry Soil + Container (g)	89.53	226.83
Weight of Container (g)	32.49	133.13
Moisture Content (%)	45.35	29.56
Void Ratio	1.1096	0.6767
Saturation (%)	103.17	106.13
Dry Density (pcf)	74.84	92.74

Tested By: B. Hak **Checked By:** C. Dugger

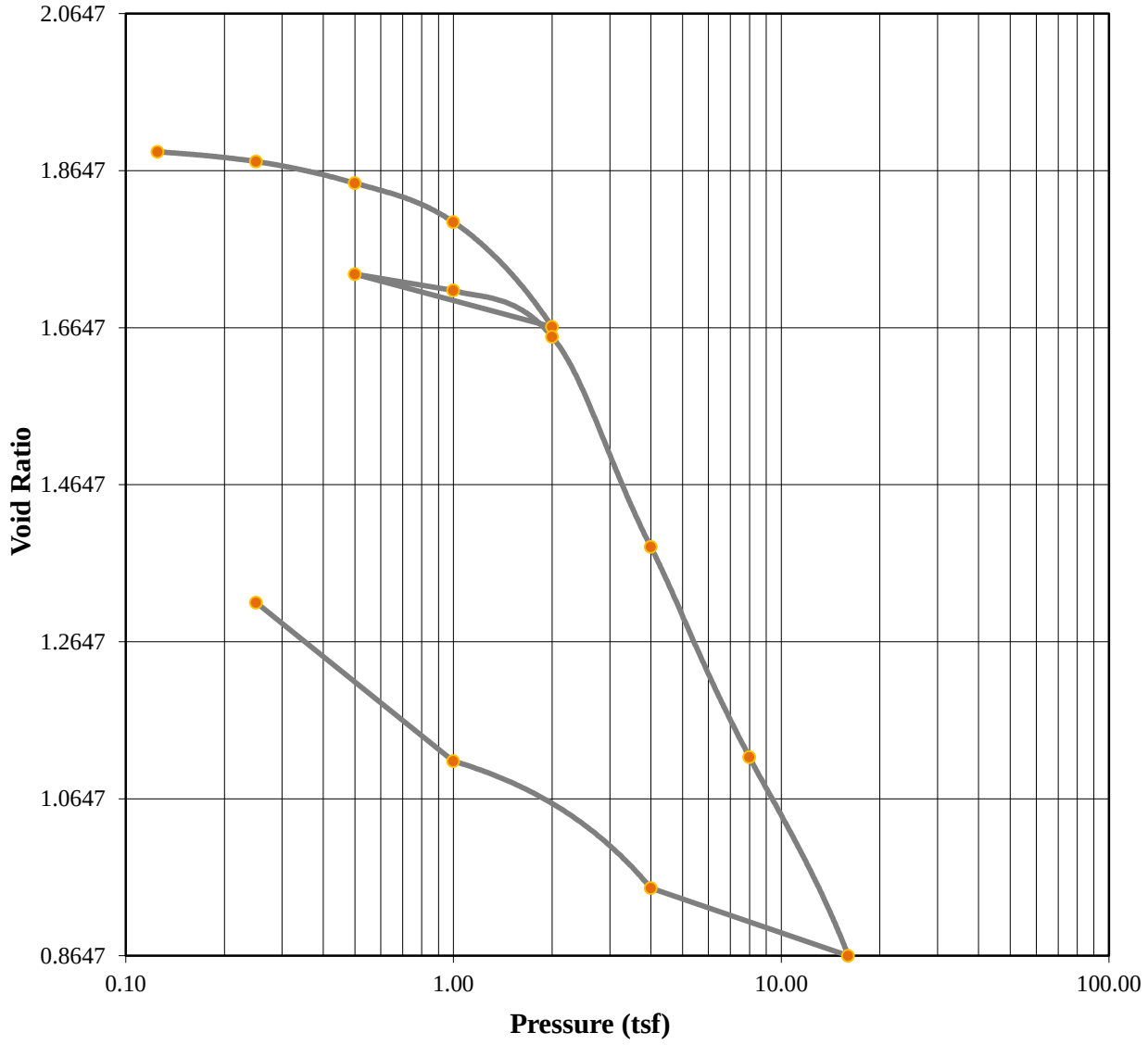
Consolidation Test
Test Results



	Before	After				
Moisture (%):	67.95	48.41	**Liquid Limits:**	63	**Test Date:**	1/31/17
Dry Density (pcf):	57.74	71.98	**Plastic Limits:**	26		
Saturation (%):	95.81	97.73	**Plasticity Index (%):**	0		
Void Ratio:	1.9027	1.3152	**Specific Gravity:**	2.689	Measured	

Sample Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7837	**Depth:**	33.0-35.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-30	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

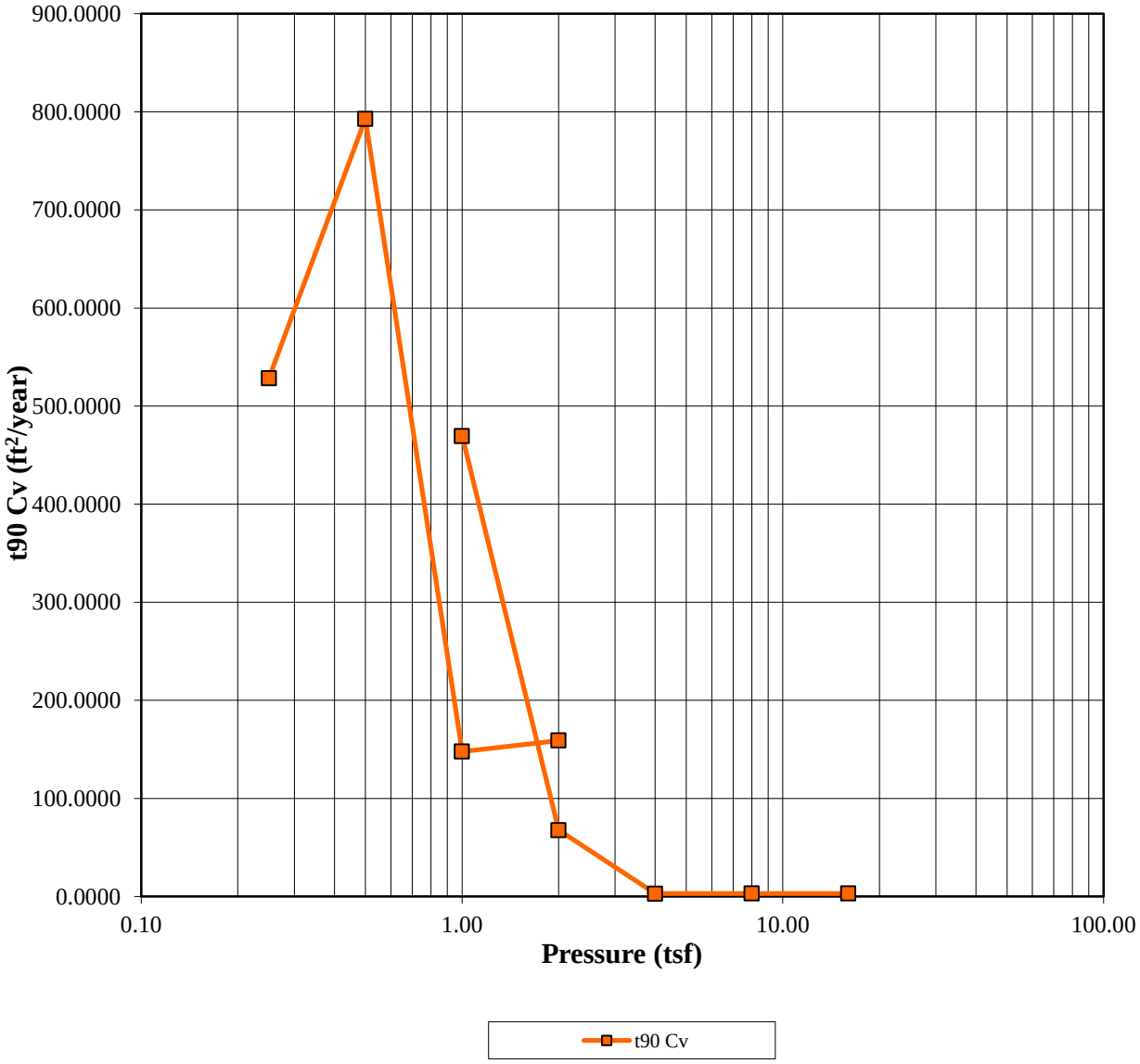
Consolidation Test
Test Results



	Before	After				
Moisture (%):	67.95	48.41	**Liquid Limits:**	63	**Test Date:**	1/31/17
Dry Density (pcf):	57.74	71.98	**Plastic Limits:**	26		
Saturation (%):	95.81	97.73	**Plasticity Index (%):**	0		
Void Ratio:	1.9027	1.3152	**Specific Gravity:**	2.689	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7837	**Depth:**	33.0-35.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-30	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

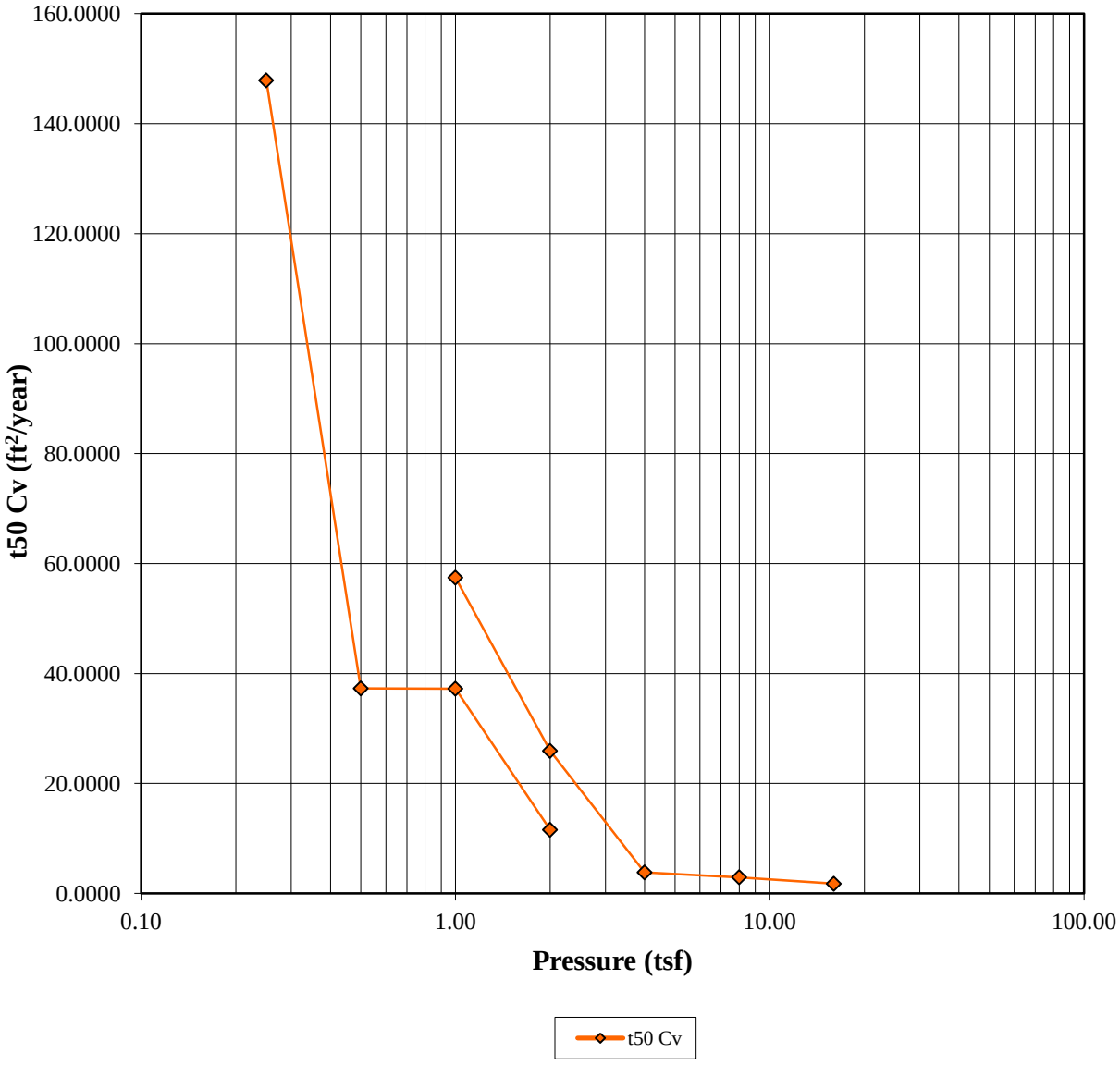
Consolidation Test
Test Results



	Before	After				
Moisture (%):	67.95	48.41	**Liquid Limits:**	63	**Test Date:**	1/31/17
Dry Density (pcf):	57.74	71.98	**Plastic Limits:**	26		
Saturation (%):	95.81	97.73	**Plasticity Index (%):**	0		
Void Ratio:	1.9027	1.3152	**Specific Gravity:**	2.689	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7837	**Depth:**	33.0-35.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-30	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

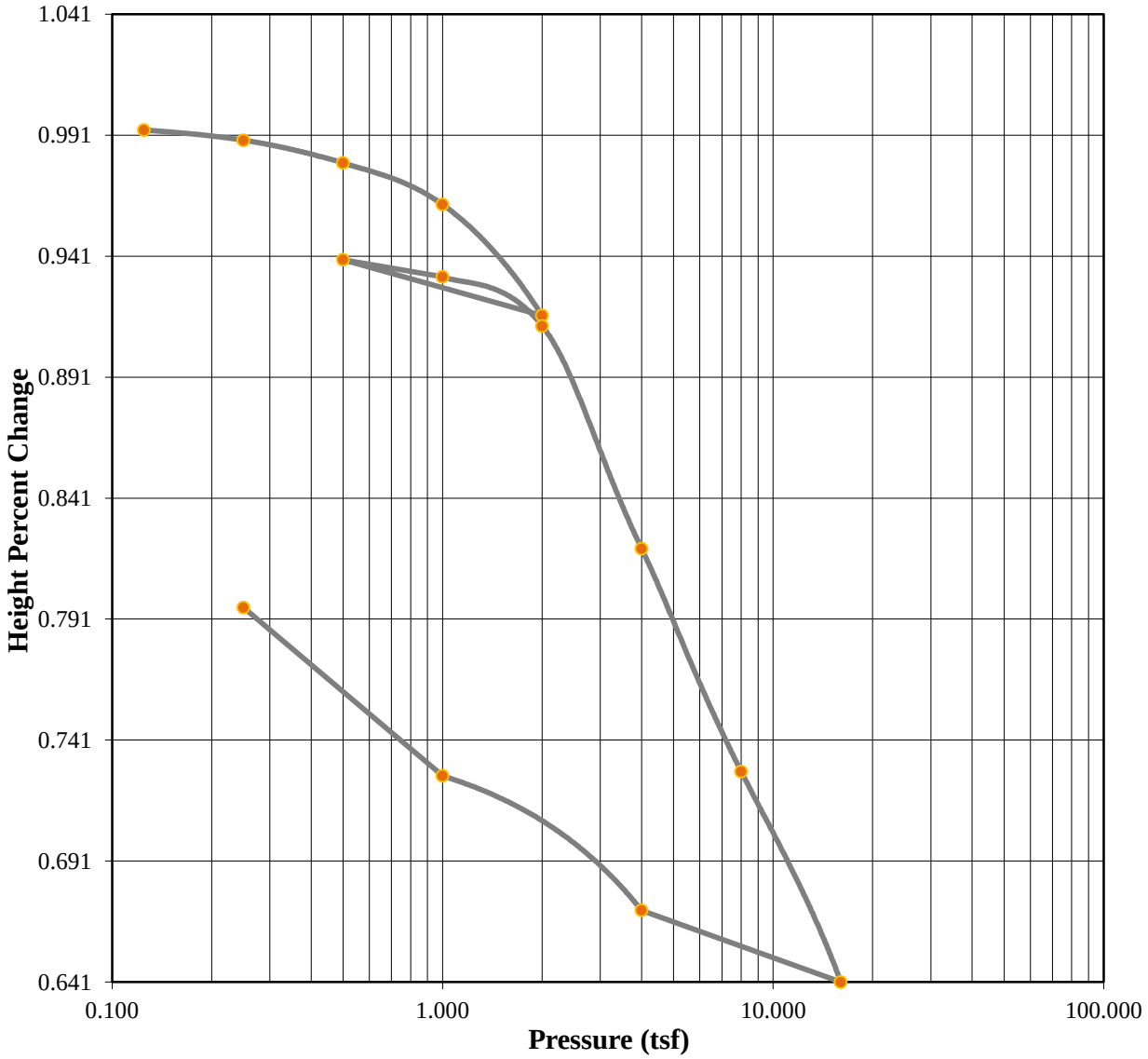
Consolidation Test
Test Results



	Before	After				
Moisture (%):	67.95	48.41	**Liquid Limits:**	63	**Test Date:**	1/31/17
Dry Density (pcf):	57.74	71.98	**Plastic Limits:**	26		
Saturation (%):	95.81	97.73	**Plasticity Index (%):**	0		
Void Ratio:	1.9027	1.3152	**Specific Gravity:**	2.689	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7837	**Depth:**	33.0-35.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-30	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	63	**Test Date:**	1/31/17
Moisture (%):	67.95	48.41	**Plastic Limits:**	26		
Dry Density (pcf):	57.74	71.98	**Plasticity Index (%):**	0		
Saturation (%):	95.81	97.73				
Void Ratio:	1.9027	1.3152	**Specific Gravity:**	2.689	Measured	

Soil Description:	FAT CLAY with SAND(CH A-7-6(26))			
Project Number:	7837	**Depth:**	33.0-35.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-30	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-3
Boring Number: BW-30
Depth: 33.0-35.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(26))
Remarks:

Test Number:
Test Date: 1/31/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.6541	0.00	1.9020	0.000	0.000	0.000	0.000
1	0.125	0.0046	0.9934	0.6495	0.46	1.8887	0.000	0.000	0.000	0.000
2	0.250	0.0088	0.9892	0.6453	0.89	1.8763	1.433	1.189	528.398	147.881
3	0.500	0.0182	0.9798	0.6358	1.83	1.8489	0.937	4.625	792.905	37.313
4	1.000	0.0354	0.9626	0.6187	3.54	1.7992	4.851	4.472	147.822	37.248
5	2.000	0.0813	0.9167	0.5728	8.14	1.6657	4.088	13.064	159.085	11.564
6	0.500	0.0582	0.9398	0.5959	5.83	1.7328	0.000	0.000	0.000	0.000
7	1.000	0.0653	0.9327	0.5888	6.54	1.7121	1.433	2.723	469.624	57.436
8	2.000	0.0855	0.9125	0.5686	8.57	1.6532	9.517	5.770	67.692	25.937
9	4.000	0.1776	0.8204	0.4765	17.80	1.3854	172.609	31.531	3.017	3.837
10	8.000	0.2697	0.7283	0.3844	27.03	1.1176	129.663	32.510	3.165	2.933
11	16.000	0.3567	0.6413	0.2974	35.74	0.8647	102.004	41.988	3.120	1.761
12	4.000	0.3271	0.6709	0.3270	32.77	0.9510	0.000	0.000	0.000	0.000
13	1.000	0.2715	0.7265	0.3826	27.20	1.1126	0.000	0.000	0.000	0.000
14	0.250	0.2020	0.7960	0.4521	20.24	1.3146	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 1/31/17

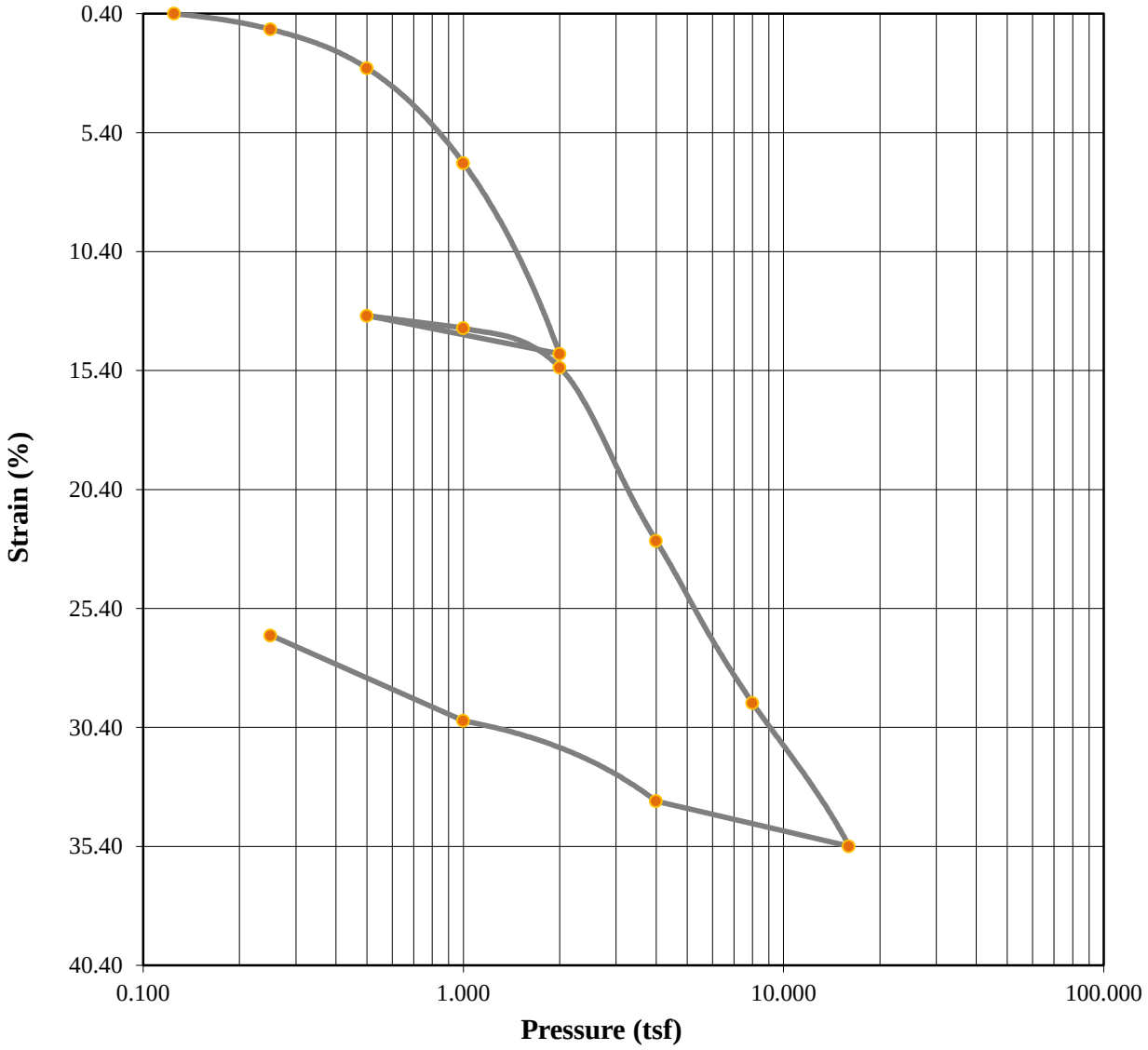
Sample Number: T-3 **Sample Description:**
Boring Number: BW-30 FAT CLAY with SAND(CH A-7-6(26))
Depth: 33.0-35.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 63.0000 **Initial Void Ratio:** 1.9027 **Initial Height (in):** 0.9980
Plastic Limit: 26.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.6890 **Weight of Ring (g):** 110.7900
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	108.19	241.06
Dry Soil + Container (g)	77.42	205.47
Weight of Container (g)	32.14	131.95
Moisture Content (%)	67.95	48.41
Void Ratio	1.9027	1.3152
Saturation (%)	95.81	97.73
Dry Density (pcf)	57.74	71.98

Tested By: B. Hak **Checked By:** C. Dugger

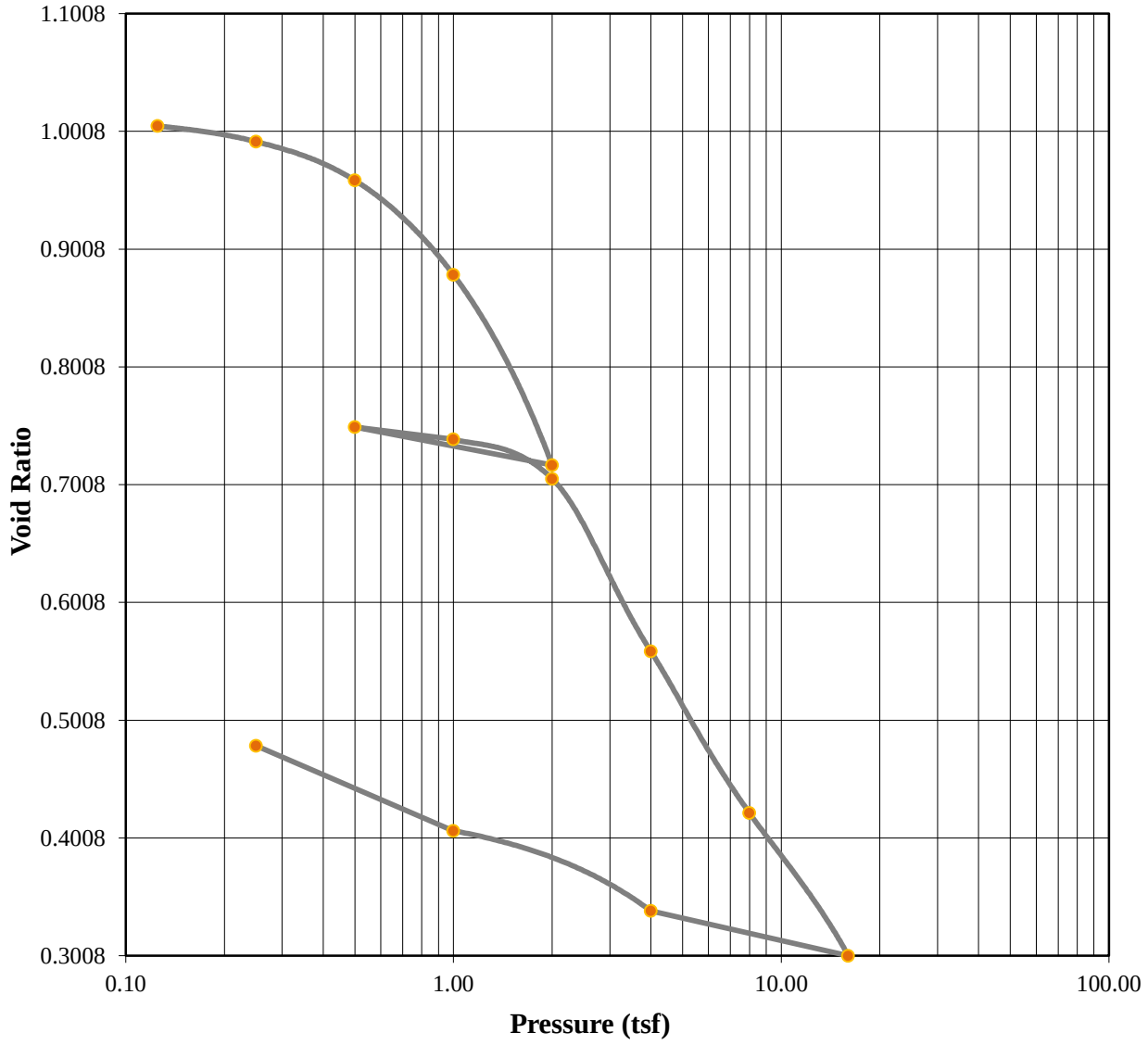
Consolidation Test
Test Results



	Before	After				
Moisture (%):	53.42	33.38	**Liquid Limits:**	85	**Test Date:**	2/23/17
Dry Density (pcf):	67.47	89.54	**Plastic Limits:**	27		
Saturation (%):	114.50	139.96	**Plasticity Index (%):**	0		
Void Ratio:	1.0132	0.4790	**Specific Gravity:**	2.180	Measured	

Sample Description:	FAT CLAY(CH A-7-6(67))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-32	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

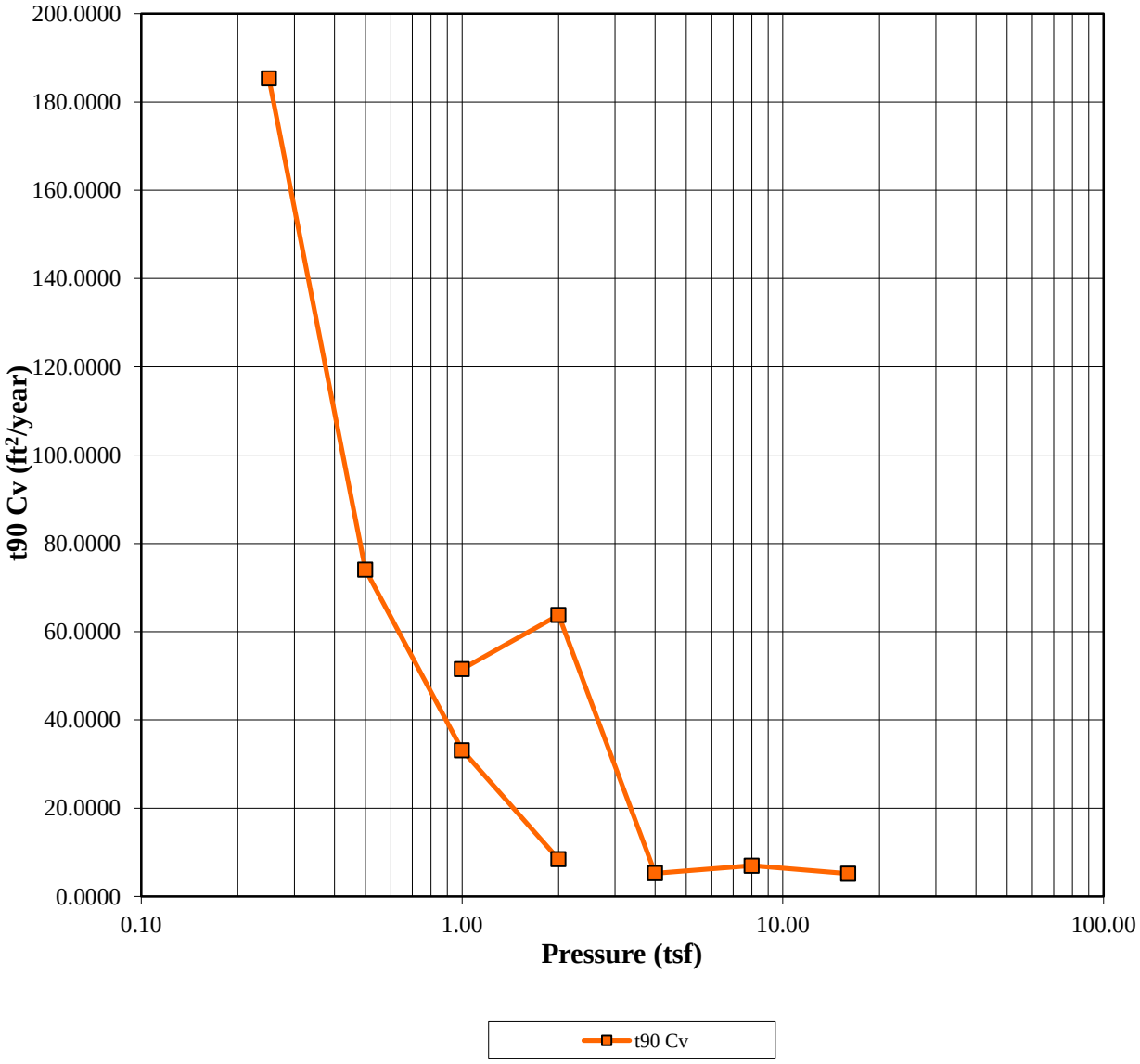
Consolidation Test
Test Results



	Before	After				
Moisture (%):	53.42	33.38	**Liquid Limits:**	85	**Test Date:**	2/23/17
Dry Density (pcf):	67.47	89.54	**Plastic Limits:**	27		
Saturation (%):	114.50	139.96	**Plasticity Index (%):**	0		
Void Ratio:	1.0132	0.4790	**Specific Gravity:**	2.180	Measured	

Soil Description:	FAT CLAY(CH A-7-6(67))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-32	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

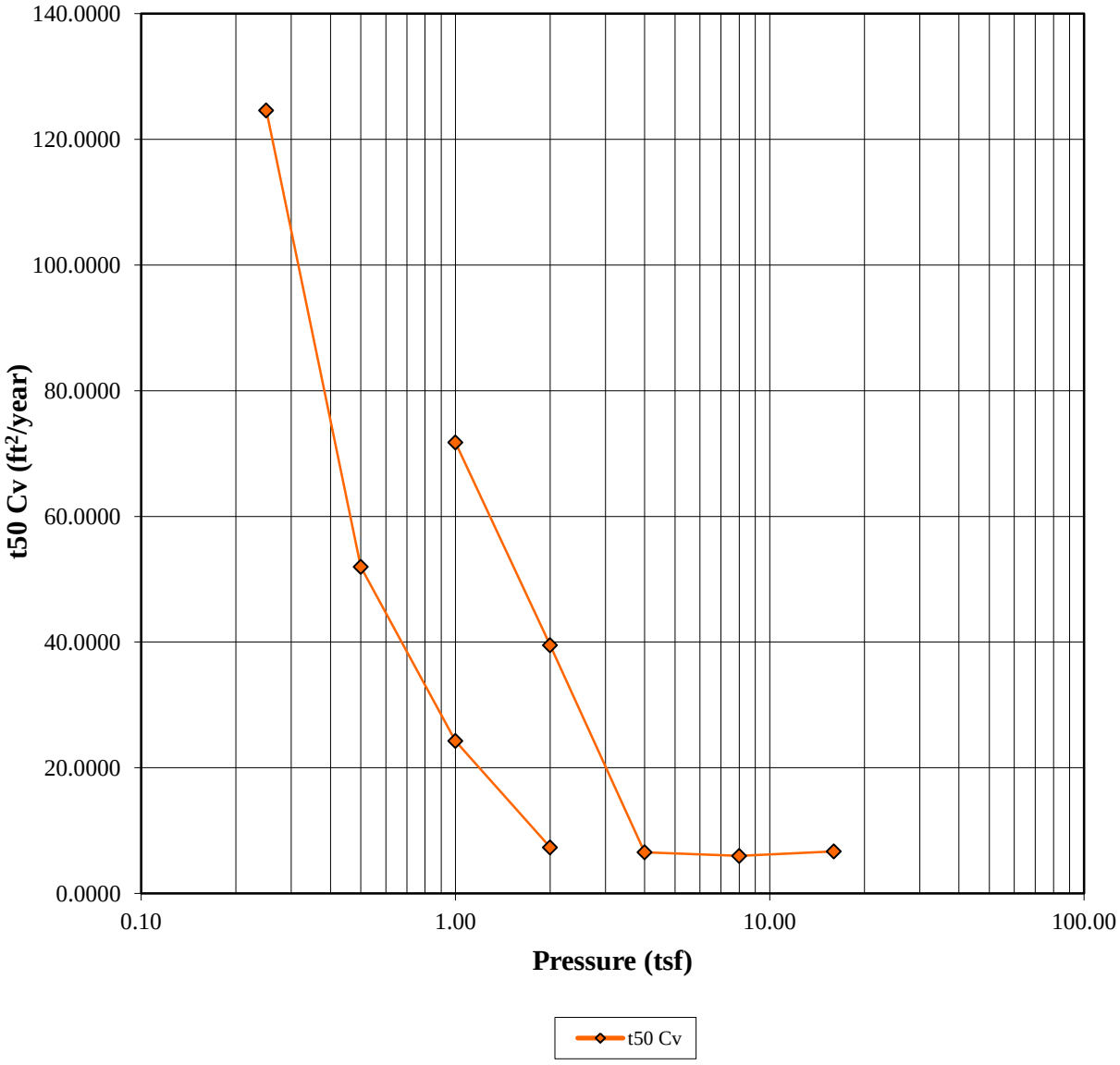
Consolidation Test
Test Results



	Before	After				
Moisture (%):	53.42	33.38	**Liquid Limits:**	85	**Test Date:**	2/23/17
Dry Density (pcf):	67.47	89.54	**Plastic Limits:**	27		
Saturation (%):	114.50	139.96	**Plasticity Index (%):**	0		
Void Ratio:	1.0132	0.4790	**Specific Gravity:**	2.180	Measured	

Soil Description:	FAT CLAY(CH A-7-6(67))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-32	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

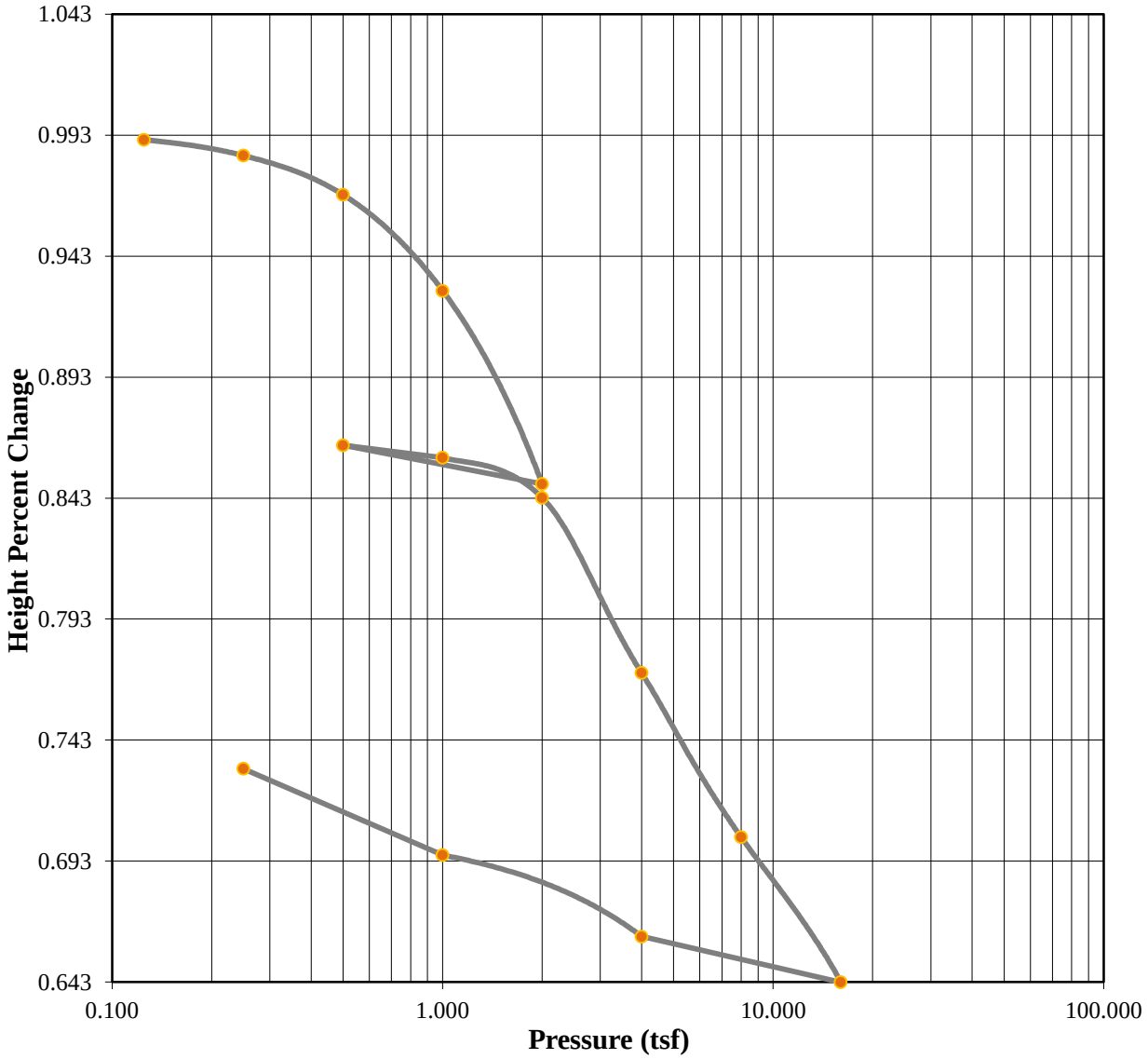
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	85	**Test Date:**	2/23/17
Moisture (%):	53.42	33.38	**Plastic Limits:**	27		
Dry Density (pcf):	67.47	89.54	**Plasticity Index (%):**	0		
Saturation (%):	114.50	139.96				
Void Ratio:	1.0132	0.4790	**Specific Gravity:**	2.180	Measured	

Soil Description:	FAT CLAY(CH A-7-6(67))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-32	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	85	**Test Date:**	2/23/17
Moisture (%):	53.42	33.38	**Plastic Limits:**	27		
Dry Density (pcf):	67.47	89.54	**Plasticity Index (%):**	0		
Saturation (%):	114.50	139.96				
Void Ratio:	1.0132	0.4790	**Specific Gravity:**	2.180	Measured	

Soil Description:	FAT CLAY(CH A-7-6(67))			
Project Number:	7837	**Depth:**	18.5-20.5 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-32	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-1
Boring Number: BW-32
Depth: 18.5-20.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(67))
Remarks:

Test Number:
Test Date: 2/23/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9950	0.5008	0.00	1.0135	0.000	0.000	0.000	0.000
1	0.125	0.0040	0.9910	0.4968	0.40	1.0054	0.000	0.000	0.000	0.000
2	0.250	0.0106	0.9844	0.4903	1.06	0.9921	4.046	1.398	185.361	124.599
3	0.500	0.0268	0.9682	0.4740	2.69	0.9592	9.795	3.242	74.051	51.978
4	1.000	0.0664	0.9286	0.4344	6.68	0.8790	20.136	6.391	33.135	24.252
5	2.000	0.1463	0.8487	0.3545	14.70	0.7174	66.077	17.665	8.436	7.330
6	0.500	0.1303	0.8647	0.3705	13.10	0.7498	0.000	0.000	0.000	0.000
7	1.000	0.1354	0.8596	0.3654	13.61	0.7394	11.099	1.850	51.511	71.775
8	2.000	0.1520	0.8430	0.3488	15.27	0.7059	8.624	3.235	63.764	39.489
9	4.000	0.2244	0.7706	0.2764	22.55	0.5593	87.085	16.252	5.276	6.568
10	8.000	0.2923	0.7027	0.2086	29.37	0.4220	54.797	14.849	6.973	5.978
11	16.000	0.3522	0.6428	0.1487	35.39	0.3008	61.734	11.121	5.180	6.680
12	4.000	0.3333	0.6617	0.1675	33.50	0.3389	0.000	0.000	0.000	0.000
13	1.000	0.2997	0.6953	0.2011	30.12	0.4070	0.000	0.000	0.000	0.000
14	0.250	0.2640	0.7310	0.2368	26.53	0.4792	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 2/23/17

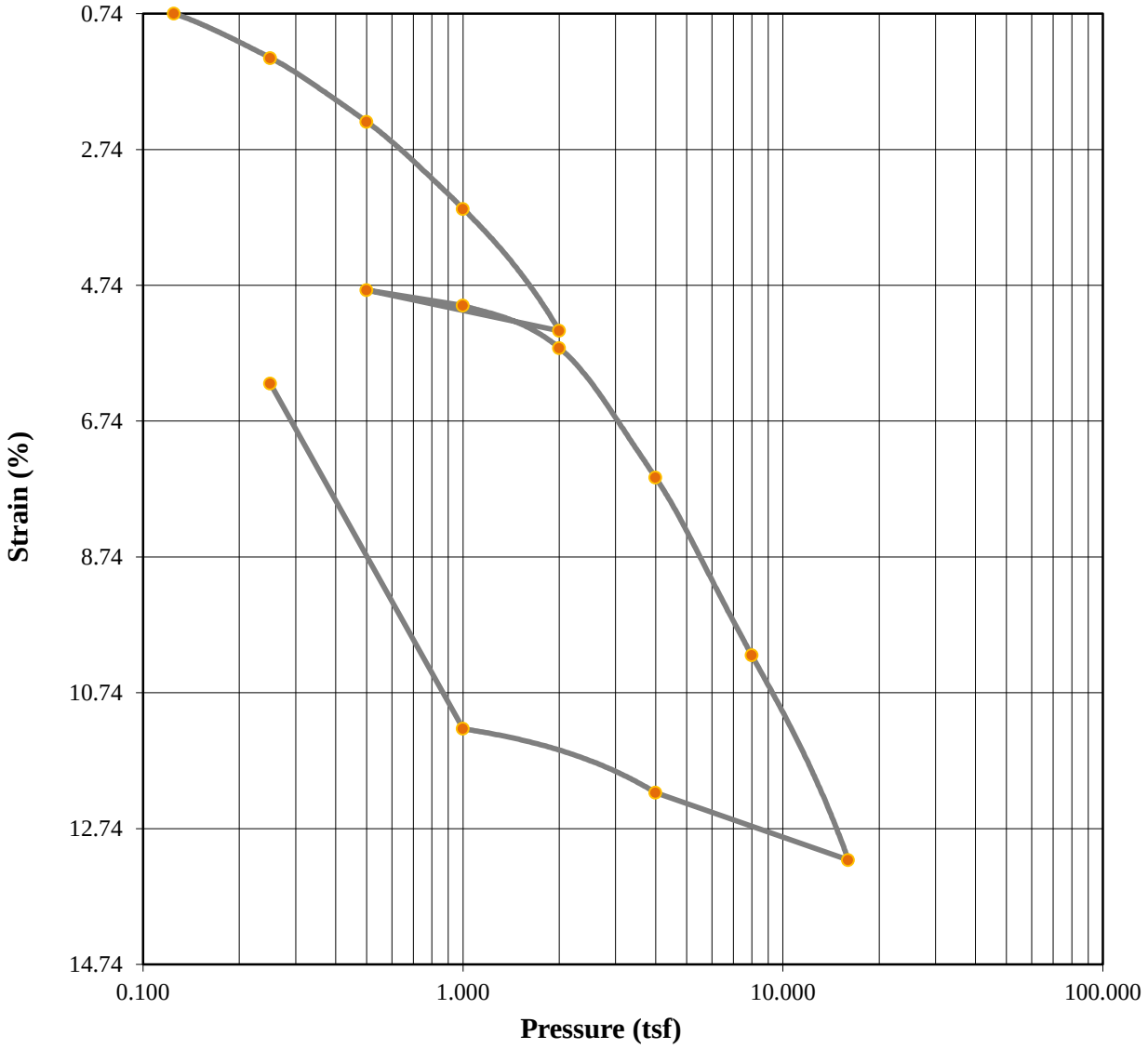
Sample Number: T-1 **Sample Description:**
Boring Number: BW-32 FAT CLAY(CH A-7-6(67))
Depth: 18.5-20.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 85.0000 **Initial Void Ratio:** 1.0132 **Initial Height (in):** 0.9950
Plastic Limit: 27.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.1800 **Weight of Ring (g):** 98.7300
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	95.68	241.33
Dry Soil + Container (g)	73.55	213.26
Weight of Container (g)	32.12	129.16
Moisture Content (%)	53.42	33.38
Void Ratio	1.0132	0.4790
Saturation (%)	114.50	139.96
Dry Density (pcf)	67.47	89.54

Tested By: B. Hak **Checked By:** C. Dugger

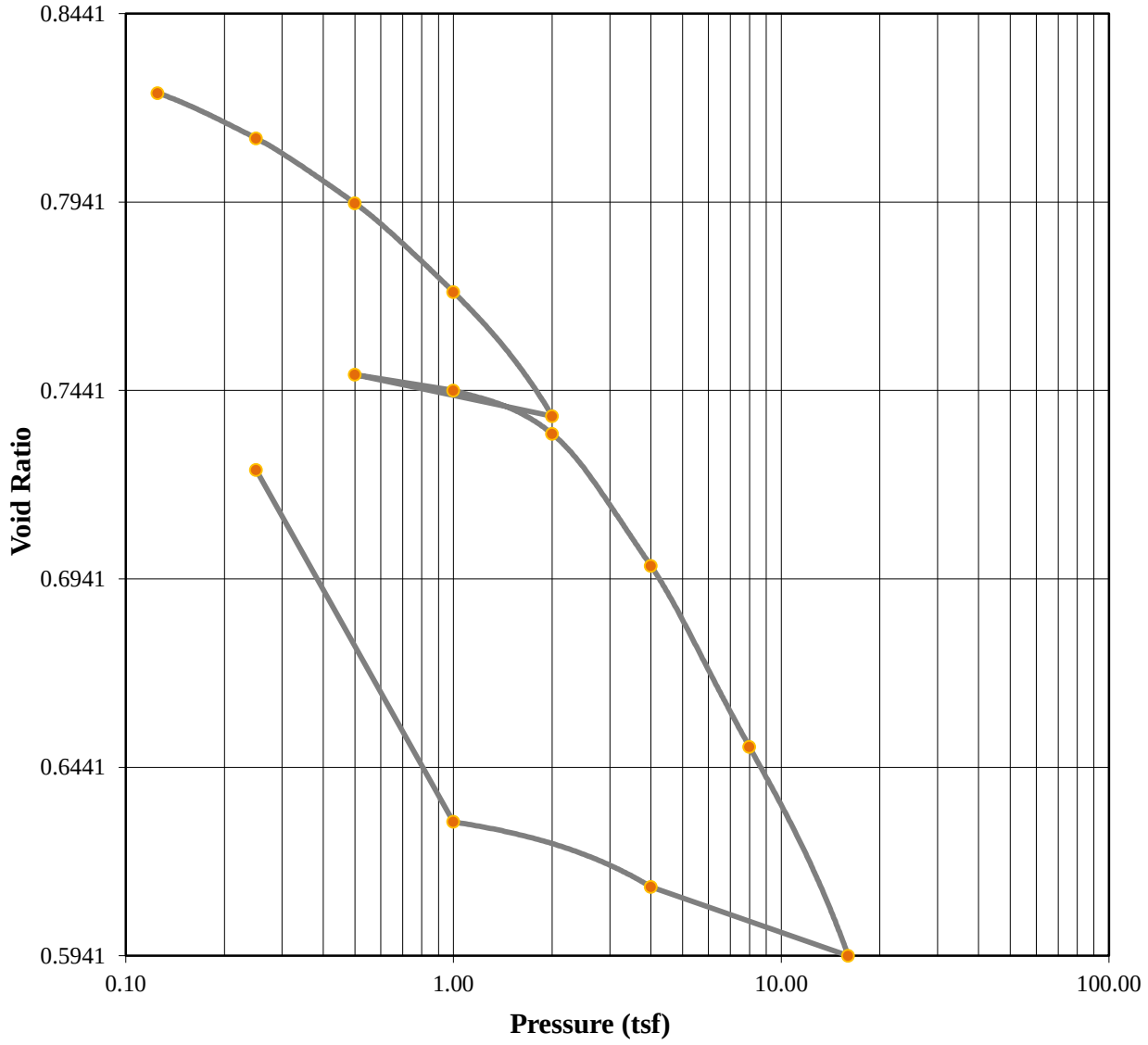
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	2/27/17
Moisture (%):	30.04	27.07	**Plastic Limits:**	0		
Dry Density (pcf):	90.42	94.60	**Plasticity Index (%):**	0		
Saturation (%):	95.32	95.08				
Void Ratio:	0.8405	0.7266	**Specific Gravity:**	2.665	Measured	

Sample Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	51.5-53.5 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-33	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

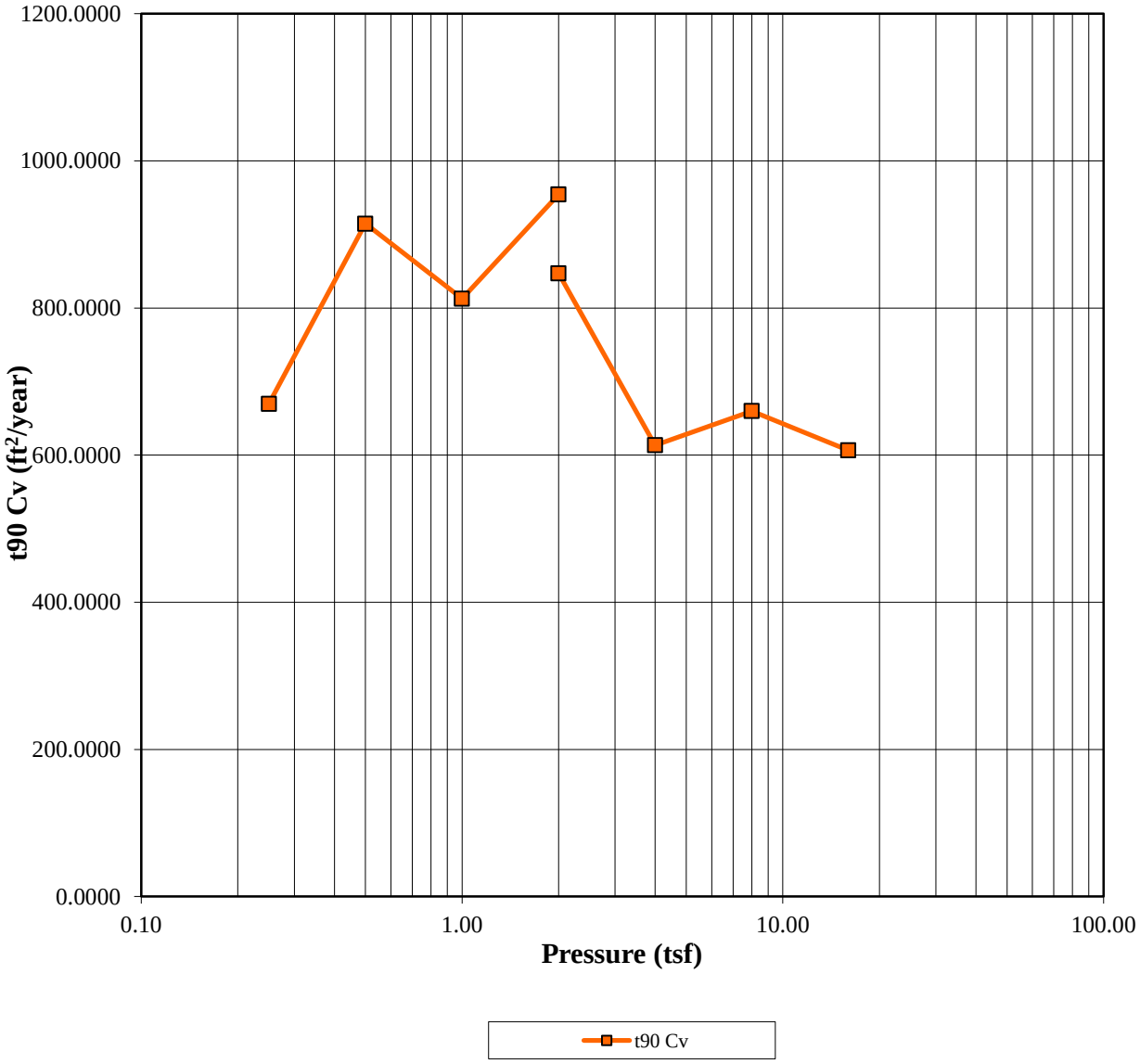


	Before	After				
			Liquid Limits:	0	**Test Date:**	2/27/17
Moisture (%):	30.04	27.07	**Plastic Limits:**	0		
Dry Density (pcf):	90.42	94.60	**Plasticity Index (%):**	0		
Saturation (%):	95.32	95.08				
Void Ratio:	0.8405	0.7266	**Specific Gravity:**	2.665	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	51.5-53.5 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-33	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

THOMPSON ENGINNERING
MOBILE, ALABAMA

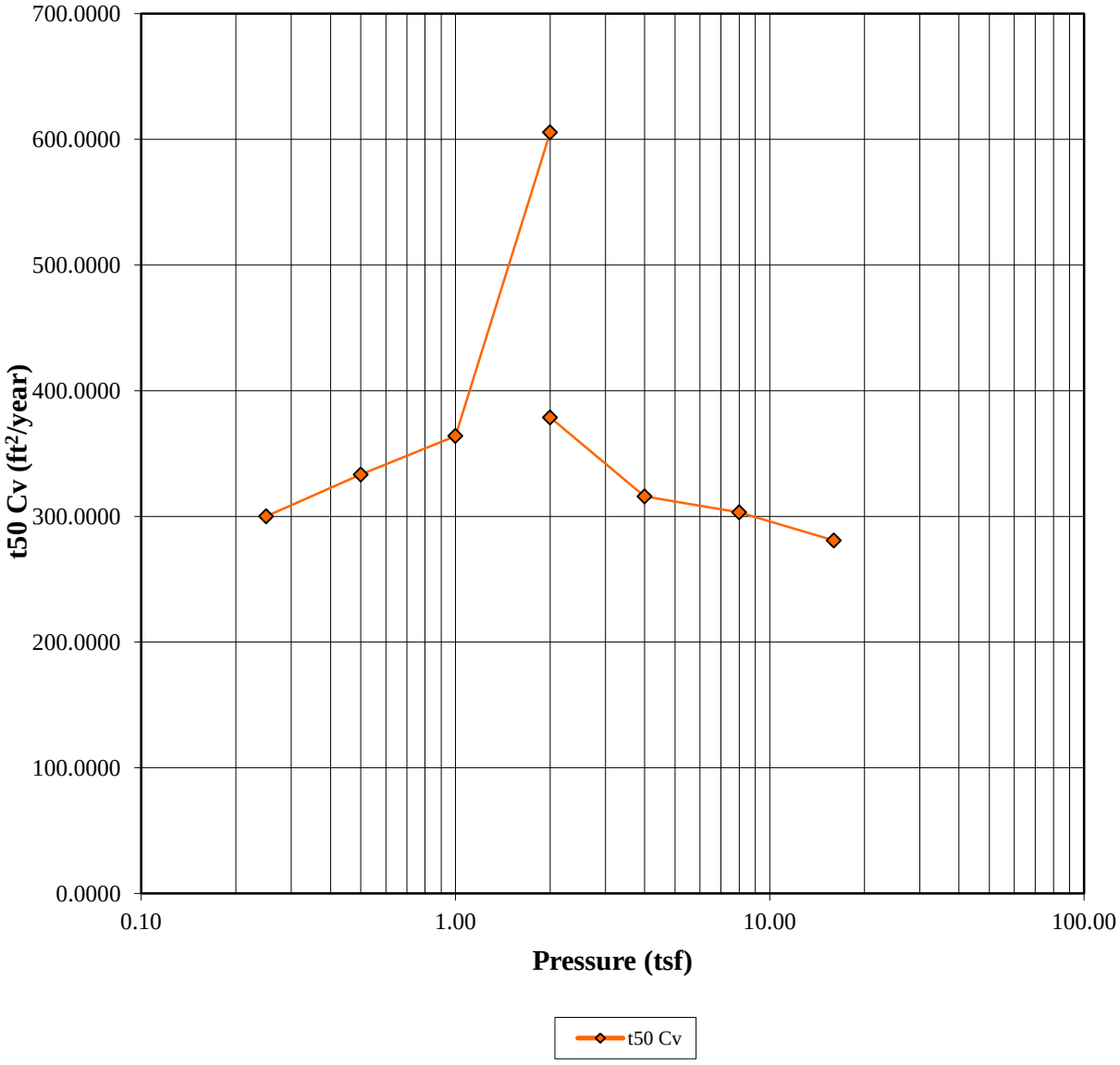
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	2/27/17
Moisture (%):	30.04	27.07	**Plastic Limits:**	0		
Dry Density (pcf):	90.42	94.60	**Plasticity Index (%):**	0		
Saturation (%):	95.32	95.08				
Void Ratio:	0.8405	0.7266	**Specific Gravity:**	2.665	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	51.5-53.5 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-33	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

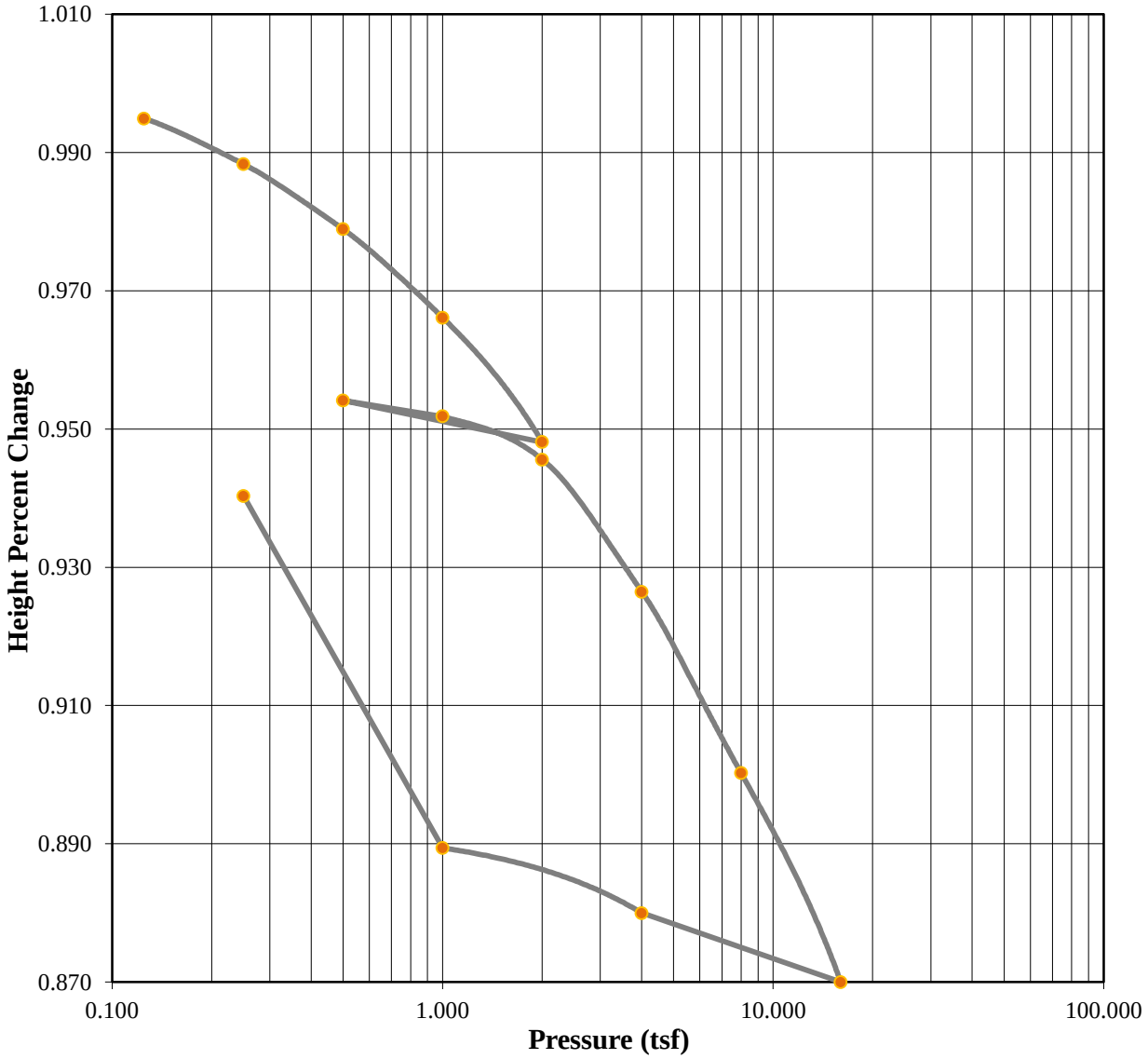
Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.04	27.07	**Liquid Limits:**	0	**Test Date:**	2/27/17
Dry Density (pcf):	90.42	94.60	**Plastic Limits:**	0		
Saturation (%):	95.32	95.08	**Plasticity Index (%):**	0		
Void Ratio:	0.8405	0.7266	**Specific Gravity:**	2.665	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	51.5-53.5 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-33	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	30.04	27.07	**Liquid Limits:**	0	**Test Date:**	2/27/17
Dry Density (pcf):	90.42	94.60	**Plastic Limits:**	0		
Saturation (%):	95.32	95.08	**Plasticity Index (%):**	0		
Void Ratio:	0.8405	0.7266	**Specific Gravity:**	2.665	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	51.5-53.5 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-33	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-5
Boring Number: BW-33
Depth: 51.5-53.5 ft.
Sample Type: Undisturbed

Sample Description: SILTY SAND(SM A-2-4(0))
Remarks:

Test Number:
Test Date: 2/27/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0020	0.4564	0.00	0.8366	0.000	0.000	0.000	0.000
1	0.125	0.0074	0.9946	0.4490	0.74	0.8230	0.000	0.000	0.000	0.000
2	0.250	0.0140	0.9880	0.4425	1.39	0.8110	1.128	0.585	669.776	300.175
3	0.500	0.0234	0.9786	0.4330	2.33	0.7938	0.810	0.517	914.775	333.339
4	1.000	0.0362	0.9658	0.4202	3.61	0.7702	0.888	0.461	812.879	364.048
5	2.000	0.0542	0.9478	0.4023	5.41	0.7373	0.728	0.267	954.352	605.517
6	0.500	0.0482	0.9538	0.4082	4.81	0.7483	0.000	0.000	0.000	0.000
7	1.000	0.0505	0.9515	0.4060	5.04	0.7441	0.000	0.000	0.000	0.000
8	2.000	0.0567	0.9453	0.3997	5.66	0.7326	0.816	0.424	847.174	378.711
9	4.000	0.0758	0.9262	0.3806	7.57	0.6976	1.082	0.488	613.548	315.846
10	8.000	0.1021	0.8999	0.3543	10.19	0.6495	0.950	0.480	660.015	303.270
11	16.000	0.1323	0.8697	0.3241	13.20	0.5941	0.965	0.484	606.651	280.822
12	4.000	0.1223	0.8797	0.3341	12.21	0.6124	0.000	0.000	0.000	0.000
13	1.000	0.1129	0.8891	0.3435	11.27	0.6296	0.000	0.000	0.000	0.000
14	0.250	0.0620	0.9400	0.3944	6.19	0.7230	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 2/27/17

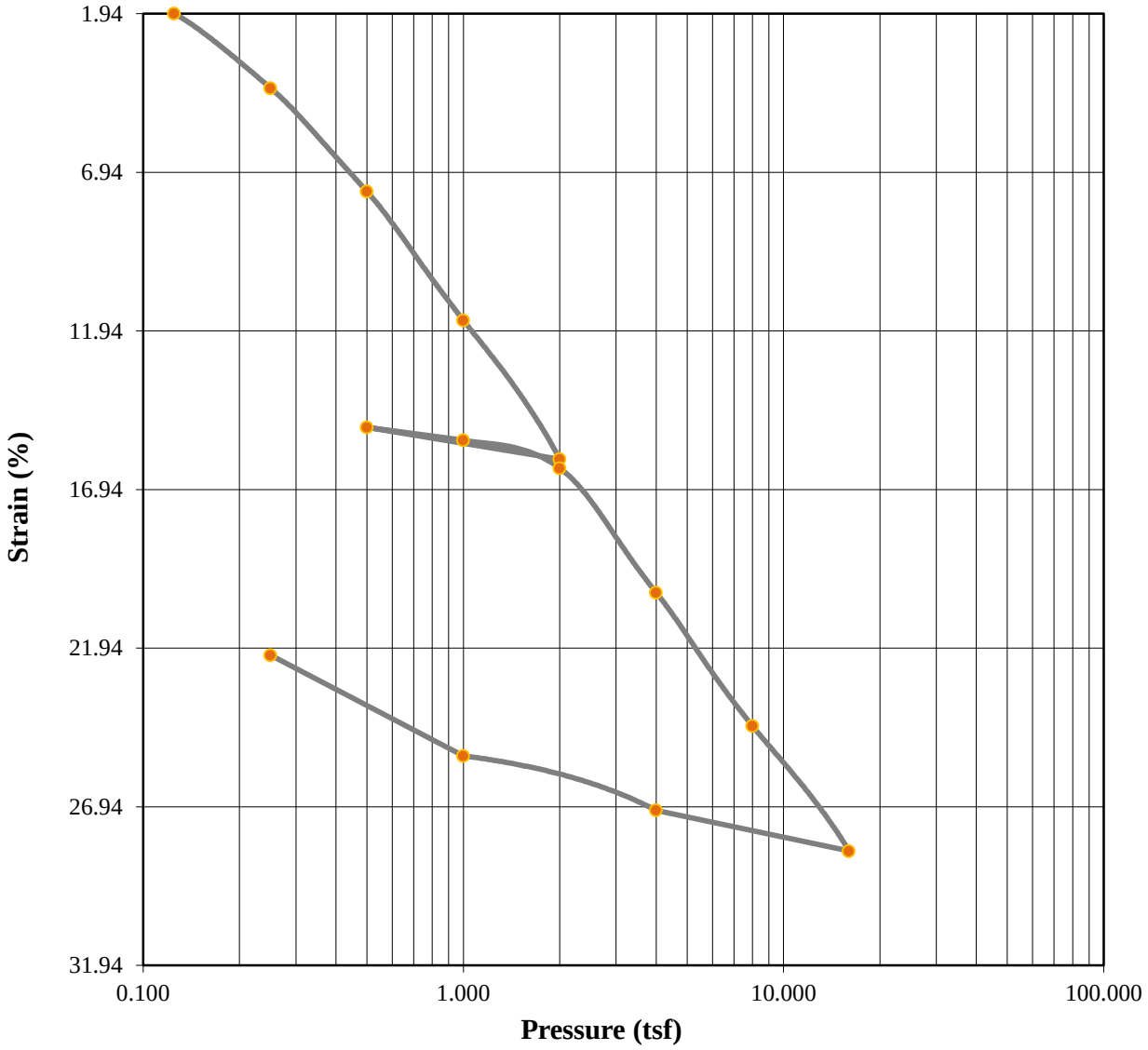
Sample Number: T-5 **Sample Description:**
Boring Number: BW-33 SILTY SAND(SM A-2-4(0))
Depth: 51.5-53.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 0.8405 **Initial Height (in):** 1.0020
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.6650 Measured **Weight of Ring (g):** 111.1500

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	157.56	270.56
Dry Soil + Container (g)	128.53	239.54
Weight of Container (g)	31.88	124.94
Moisture Content (%)	30.04	27.07
Void Ratio	0.8405	0.7266
Saturation (%)	95.32	95.08
Dry Density (pcf)	90.42	94.60

Tested By: B. Hak **Checked By:** C. Dugger

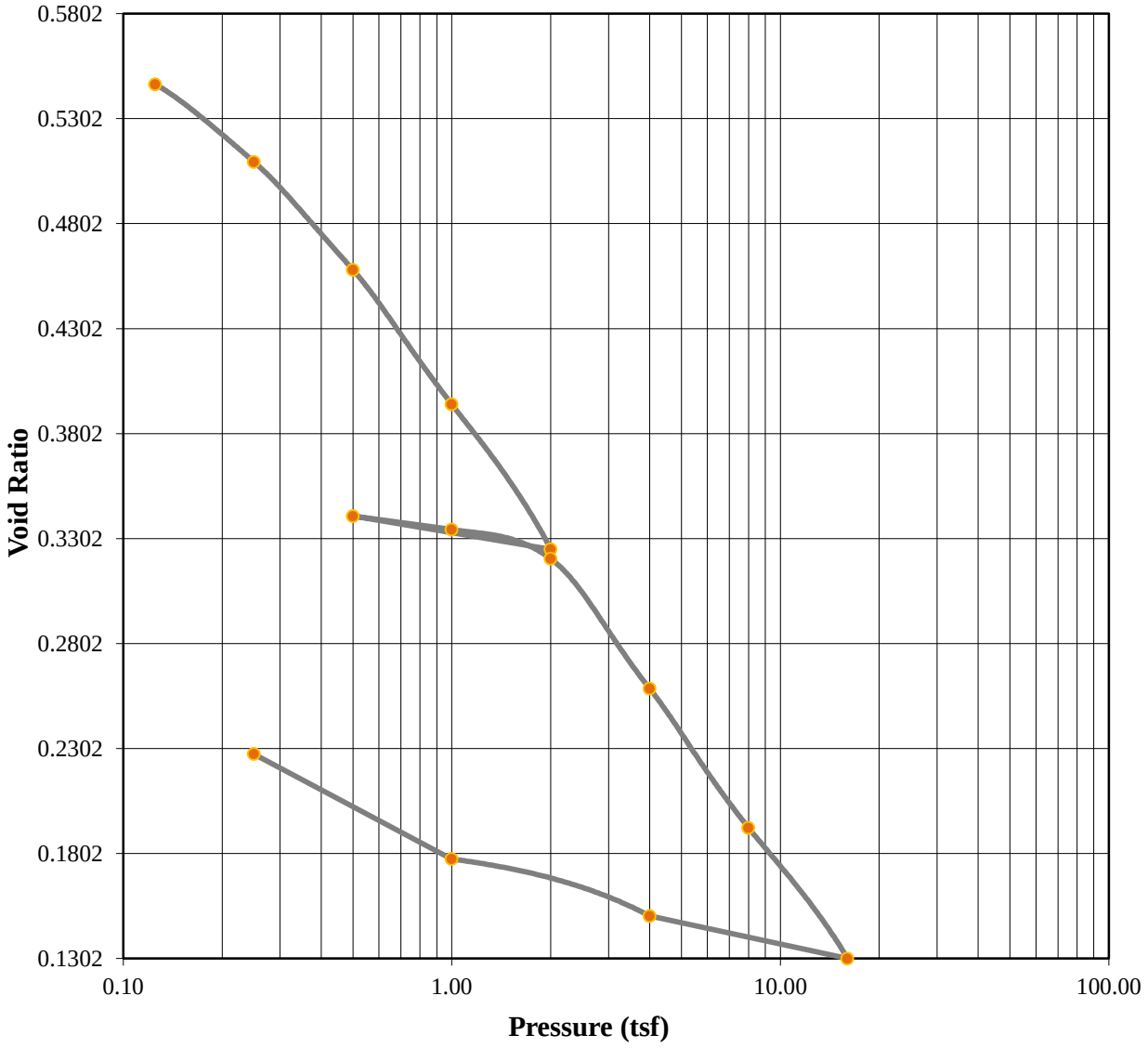
Consolidation Test
Test Results



	Before	After				
Moisture (%):	35.99	23.15	**Liquid Limits:**	92	**Test Date:**	7/17/17
Dry Density (pcf):	82.26	103.88	**Plastic Limits:**	27		
Saturation (%):	129.17	191.90	**Plasticity Index (%):**	0		
Void Ratio:	0.5755	0.2262	**Specific Gravity:**	2.082	Measured	

Sample Description:	FAT CLAY(CH A-7-6(74))			
Project Number:	7985	**Depth:**	30.0-32.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-34	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

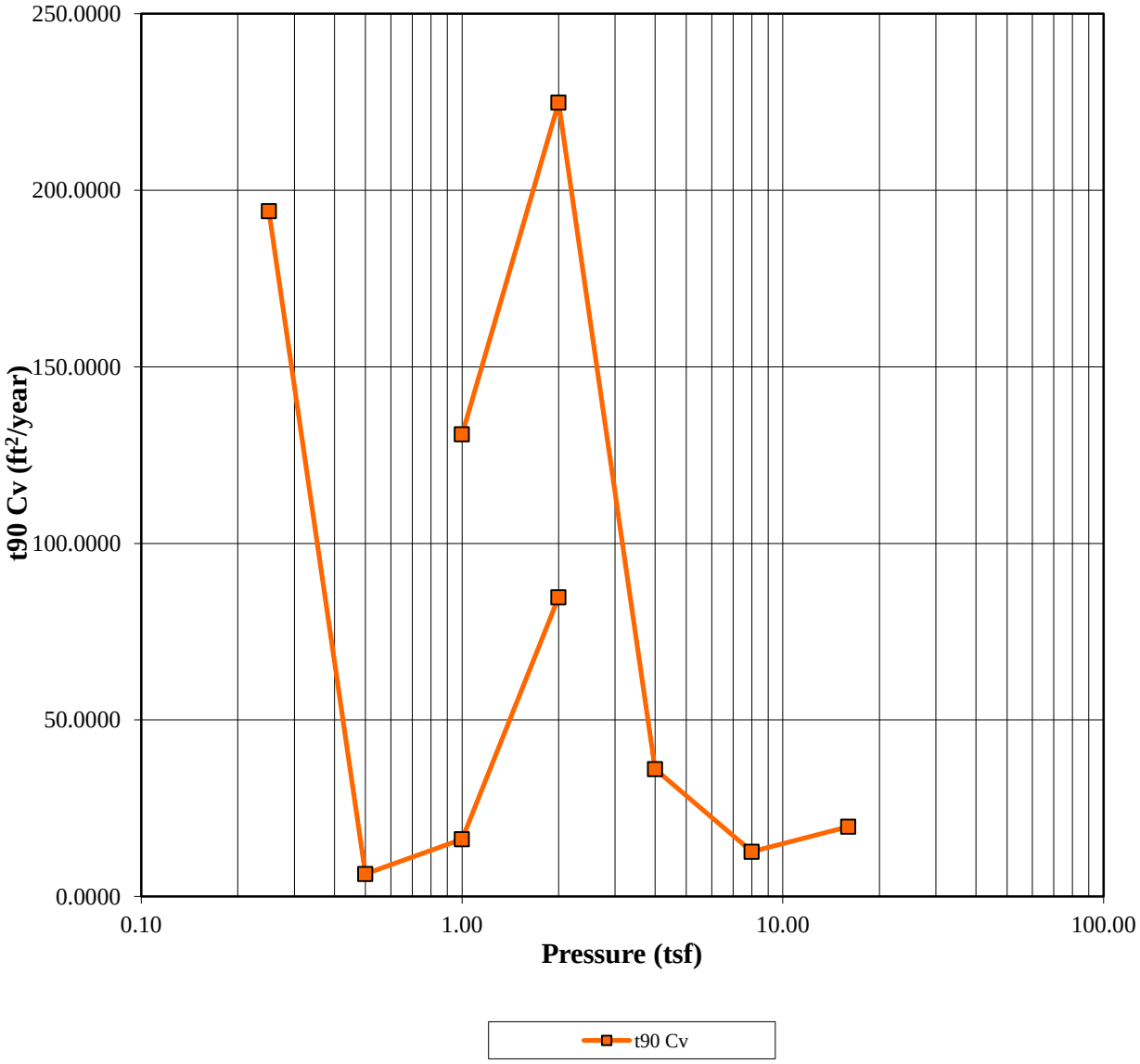
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	92	**Test Date:**	7/17/17
Moisture (%):	35.99	23.15	**Plastic Limits:**	27		
Dry Density (pcf):	82.26	103.88	**Plasticity Index (%):**	0		
Saturation (%):	129.17	191.90				
Void Ratio:	0.5755	0.2262	**Specific Gravity:**	2.082	Measured	

Soil Description:	FAT CLAY(CH A-7-6(74))			
Project Number:	7985	**Depth:**	30.0-32.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-34	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

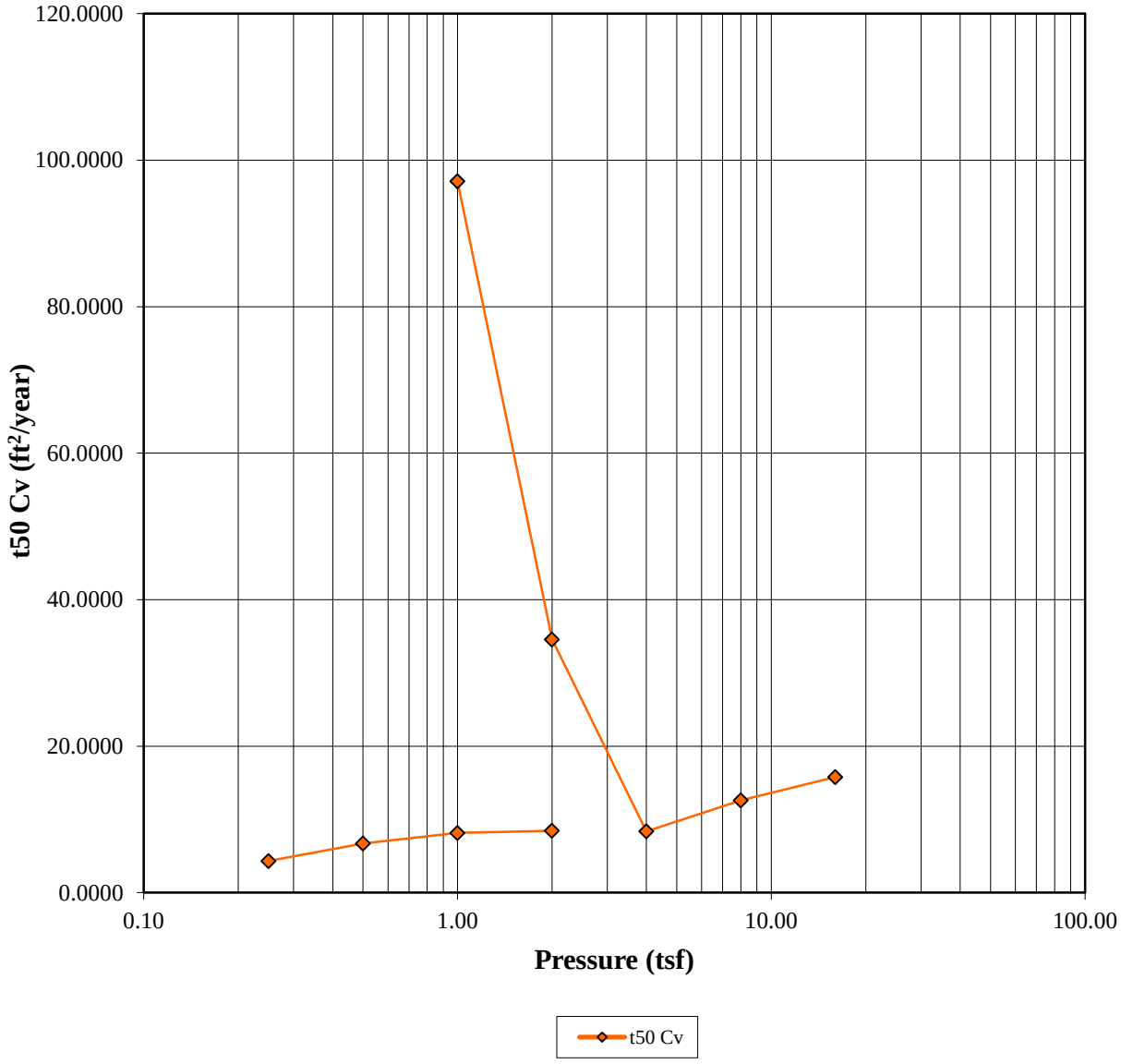
Consolidation Test
Test Results



	Before	After				
Moisture (%):	35.99	23.15	**Liquid Limits:**	92	**Test Date:**	7/17/17
Dry Density (pcf):	82.26	103.88	**Plastic Limits:**	27		
Saturation (%):	129.17	191.90	**Plasticity Index (%):**	0		
Void Ratio:	0.5755	0.2262	**Specific Gravity:**	2.082	Measured	

Soil Description:	FAT CLAY(CH A-7-6(74))			
Project Number:	7985	**Depth:**	30.0-32.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-34	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

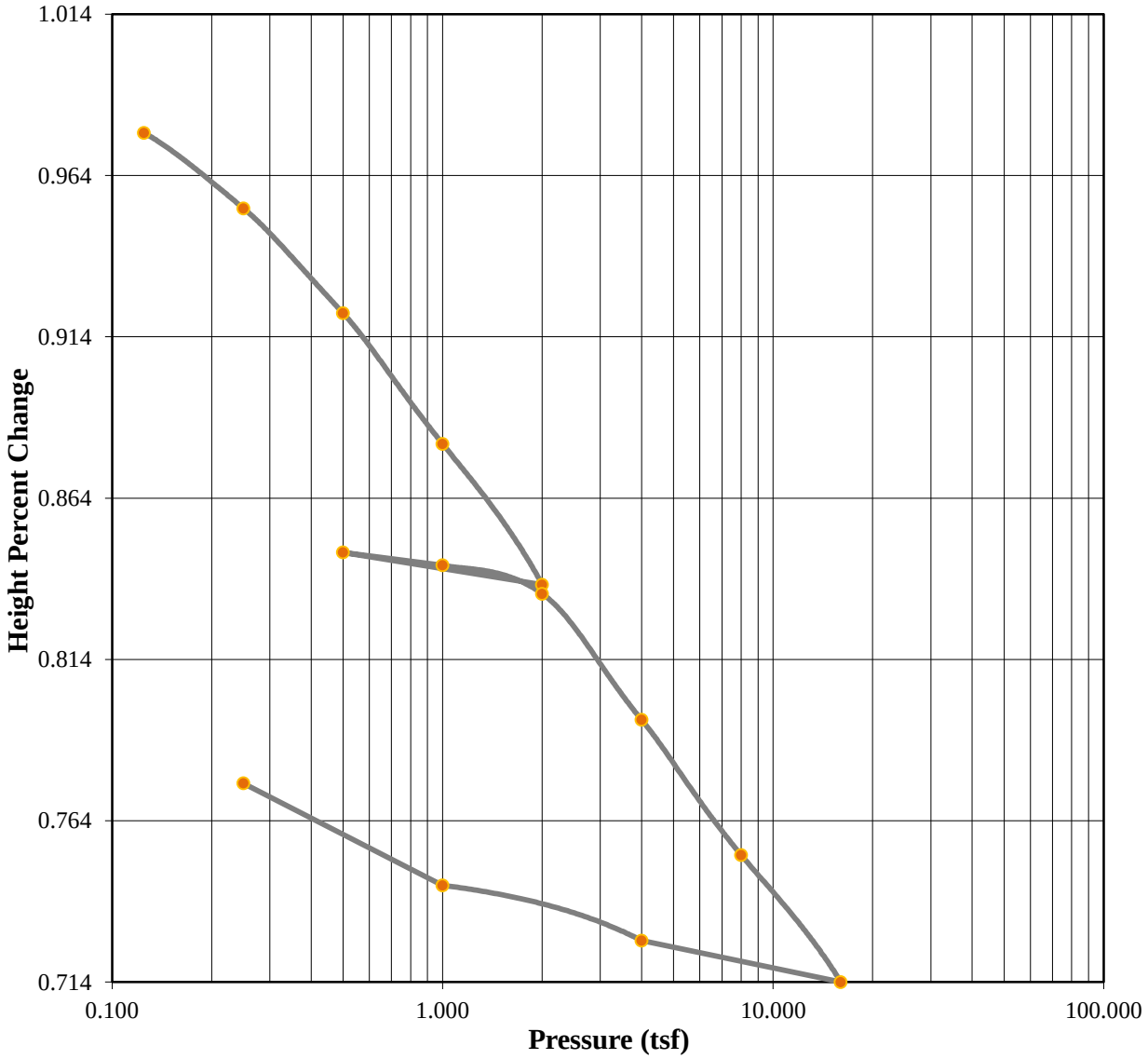
Consolidation Test
Test Results



	Before	After				
Moisture (%):	35.99	23.15	**Liquid Limits:**	92	**Test Date:**	7/17/17
Dry Density (pcf):	82.26	103.88	**Plastic Limits:**	27		
Saturation (%):	129.17	191.90	**Plasticity Index (%):**	0		
Void Ratio:	0.5755	0.2262	**Specific Gravity:**	2.082	Measured	

Soil Description:	FAT CLAY(CH A-7-6(74))			
Project Number:	7985	**Depth:**	30.0-32.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-34	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	35.99	23.15	**Liquid Limits:**	92	**Test Date:**	7/17/17
Dry Density (pcf):	82.26	103.88	**Plastic Limits:**	27		
Saturation (%):	129.17	191.90	**Plasticity Index (%):**	0		
Void Ratio:	0.5755	0.2262	**Specific Gravity:**	2.082	Measured	

Soil Description:	FAT CLAY(CH A-7-6(74))			
Project Number:	7985	**Depth:**	30.0-32.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-34	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7985

Sample Number: T-2
Boring Number: BW-34
Depth: 30.0-32.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(74))
Remarks:

Test Number:
Test Date: 7/17/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.3649	0.00	0.5773	0.000	0.000	0.000	0.000
1	0.125	0.0194	0.9776	0.3455	1.94	0.5466	0.000	0.000	0.000	0.000
2	0.250	0.0428	0.9542	0.3221	4.29	0.5096	3.631	38.011	194.075	4.306
3	0.500	0.0753	0.9217	0.2896	7.55	0.4582	103.181	22.793	6.371	6.700
4	1.000	0.1158	0.8812	0.2491	11.61	0.3941	37.046	17.135	16.221	8.147
5	2.000	0.1594	0.8376	0.2055	15.99	0.3251	6.405	14.949	84.760	8.436
6	0.500	0.1494	0.8476	0.2155	14.99	0.3409	0.000	0.000	0.000	0.000
7	1.000	0.1534	0.8436	0.2115	15.39	0.3346	4.207	1.317	130.893	97.128
8	2.000	0.1622	0.8348	0.2026	16.27	0.3206	2.398	3.623	224.822	34.572
9	4.000	0.2013	0.7957	0.1636	20.19	0.2588	13.591	13.605	36.046	8.365
10	8.000	0.2432	0.7538	0.1217	24.40	0.1925	34.599	8.121	12.707	12.576
11	16.000	0.2826	0.7144	0.0823	28.34	0.1302	19.939	5.812	19.808	15.786
12	4.000	0.2697	0.7273	0.0951	27.06	0.1505	0.000	0.000	0.000	0.000
13	1.000	0.2526	0.7444	0.1123	25.34	0.1776	0.000	0.000	0.000	0.000
14	0.250	0.2210	0.7760	0.1439	22.17	0.2276	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7985
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 7/17/17

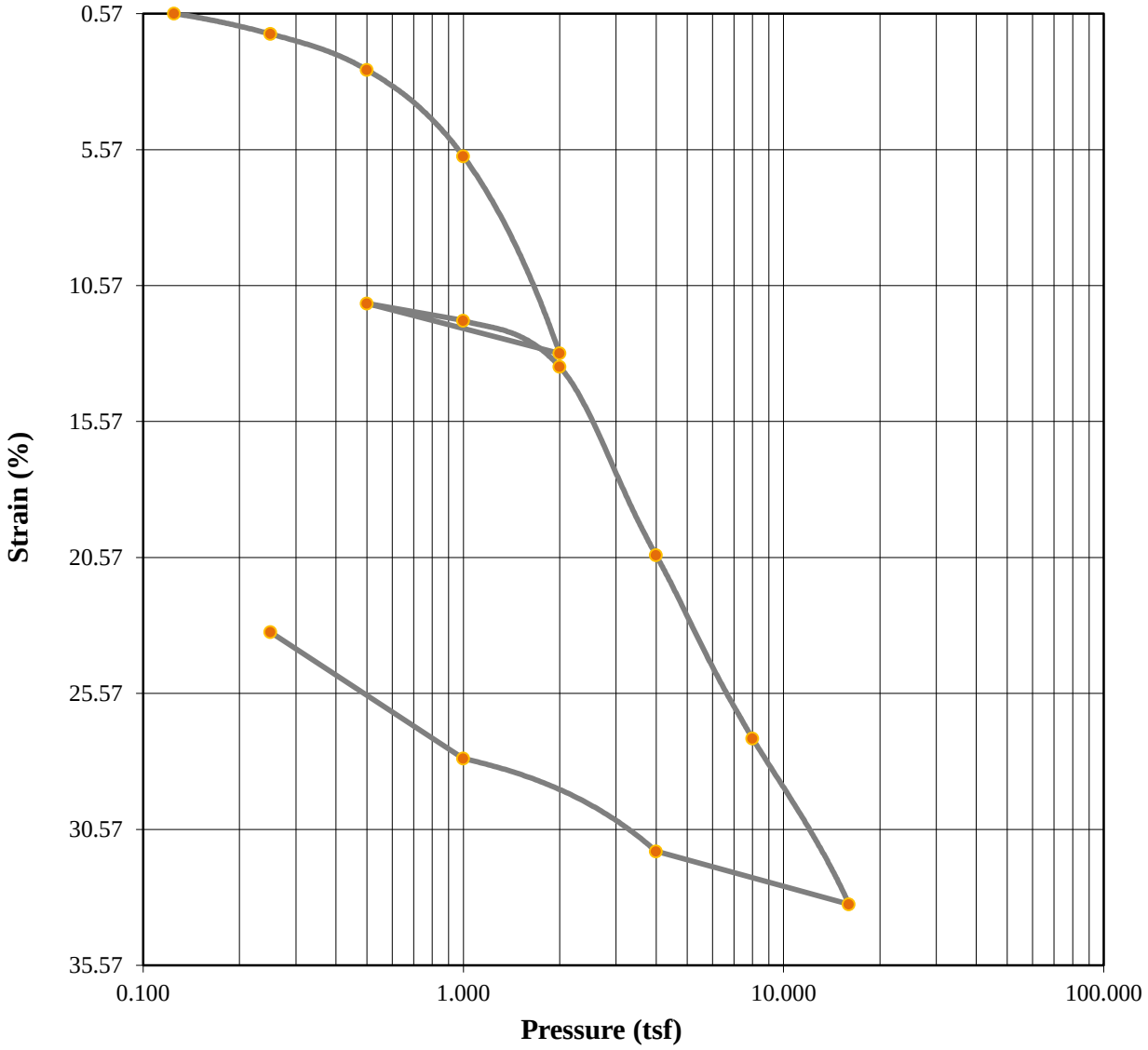
Sample Number: T-2 **Sample Description:**
Boring Number: BW-34 FAT CLAY(CH A-7-6(74))
Depth: 30.0-32.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 92.0000 **Initial Void Ratio:** 0.5755 **Initial Height (in):** 0.9970
Plastic Limit: 27.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.0820 Measured **Weight of Ring (g):** 110.7400

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	114.01	257.24
Dry Soil + Container (g)	92.37	233.27
Weight of Container (g)	32.25	129.74
Moisture Content (%)	35.99	23.15
Void Ratio	0.5755	0.2262
Saturation (%)	129.17	191.90
Dry Density (pcf)	82.26	103.88

Tested By: B. Hak **Checked By:** C. Dugger

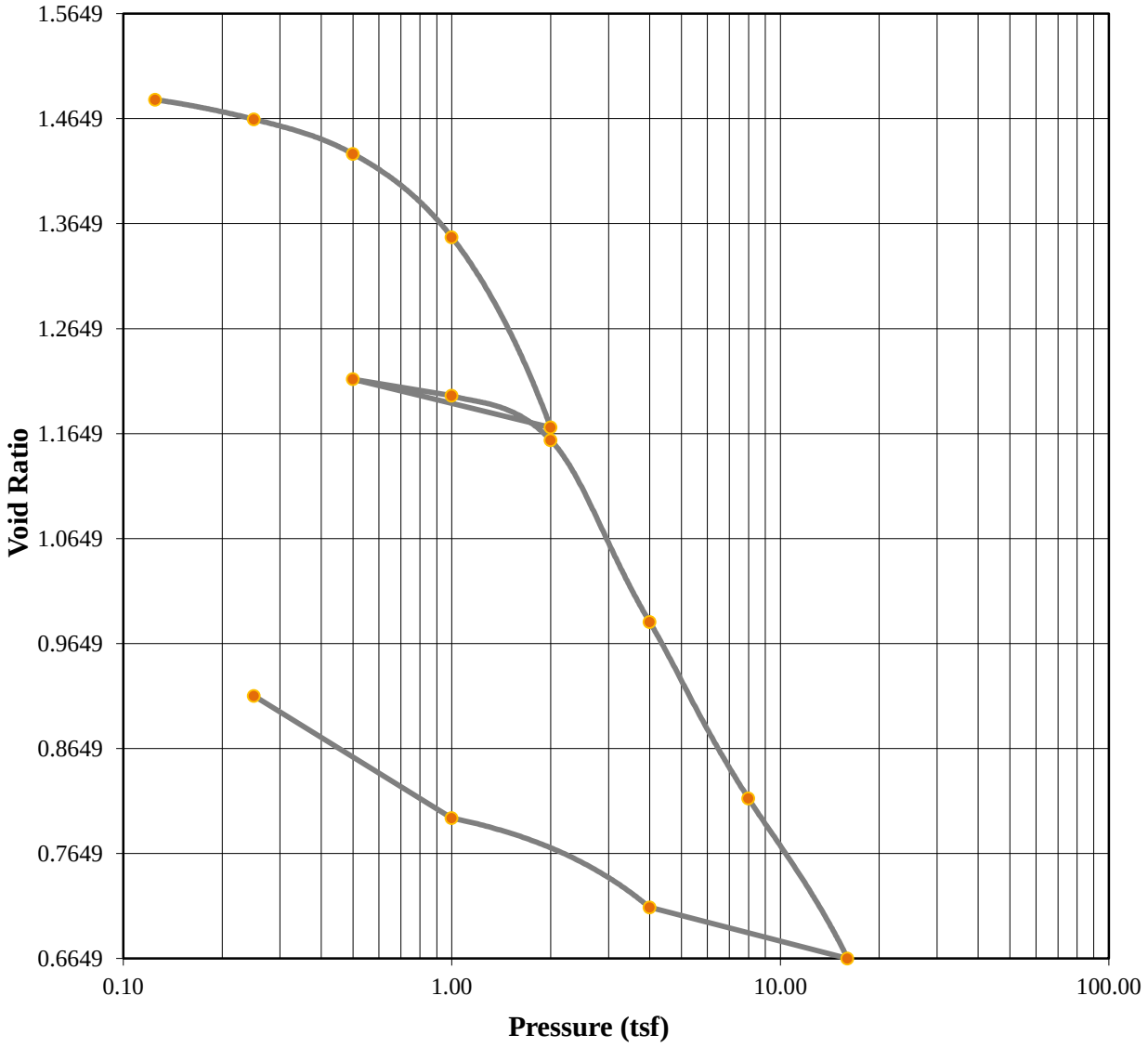
Consolidation Test
Test Results



	Before	After				
Moisture (%):	54.70	33.68	**Liquid Limits:**	56	**Test Date:**	3/2/17
Dry Density (pcf):	67.88	88.53	**Plastic Limits:**	24		
Saturation (%):	99.08	99.78	**Plasticity Index (%):**	0		
Void Ratio:	1.4978	0.9154	**Specific Gravity:**	2.720	Measured	

Sample Description:	FAT CLAY(CH A-7-6(35))			
Project Number:	7837	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

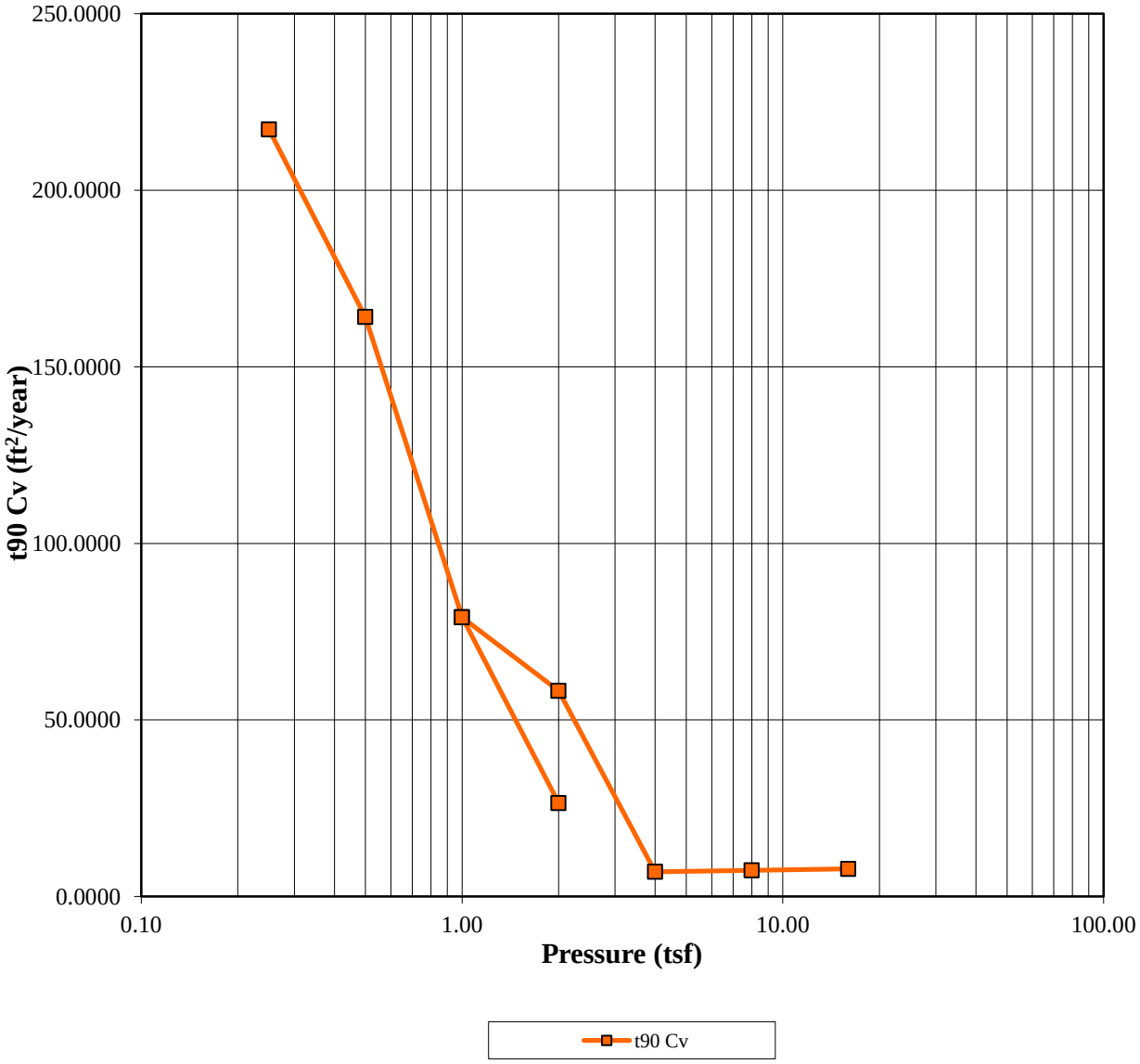
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	56	**Test Date:**	3/2/17
Moisture (%):	54.70	33.68	**Plastic Limits:**	24		
Dry Density (pcf):	67.88	88.53	**Plasticity Index (%):**	0		
Saturation (%):	99.08	99.78				
Void Ratio:	1.4978	0.9154	**Specific Gravity:**	2.720	Measured	

Soil Description:	FAT CLAY(CH A-7-6(35))			
Project Number:	7837	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

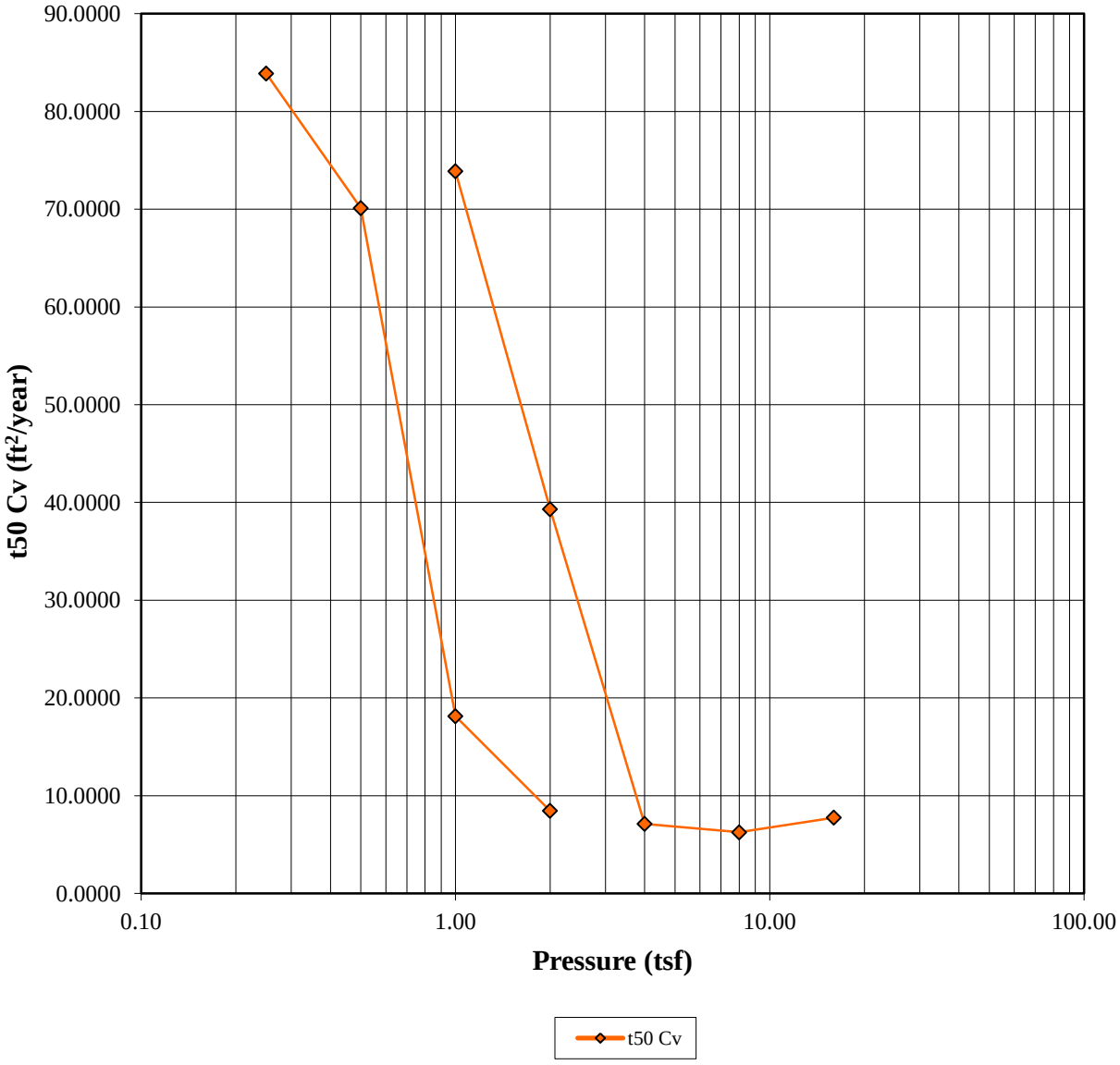
Consolidation Test
Test Results



	Before	After				
Moisture (%):	54.70	33.68	**Liquid Limits:**	56	**Test Date:**	3/2/17
Dry Density (pcf):	67.88	88.53	**Plastic Limits:**	24		
Saturation (%):	99.08	99.78	**Plasticity Index (%):**	0		
Void Ratio:	1.4978	0.9154	**Specific Gravity:**	2.720	Measured	

Soil Description:	FAT CLAY(CH A-7-6(35))			
Project Number:	7837	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

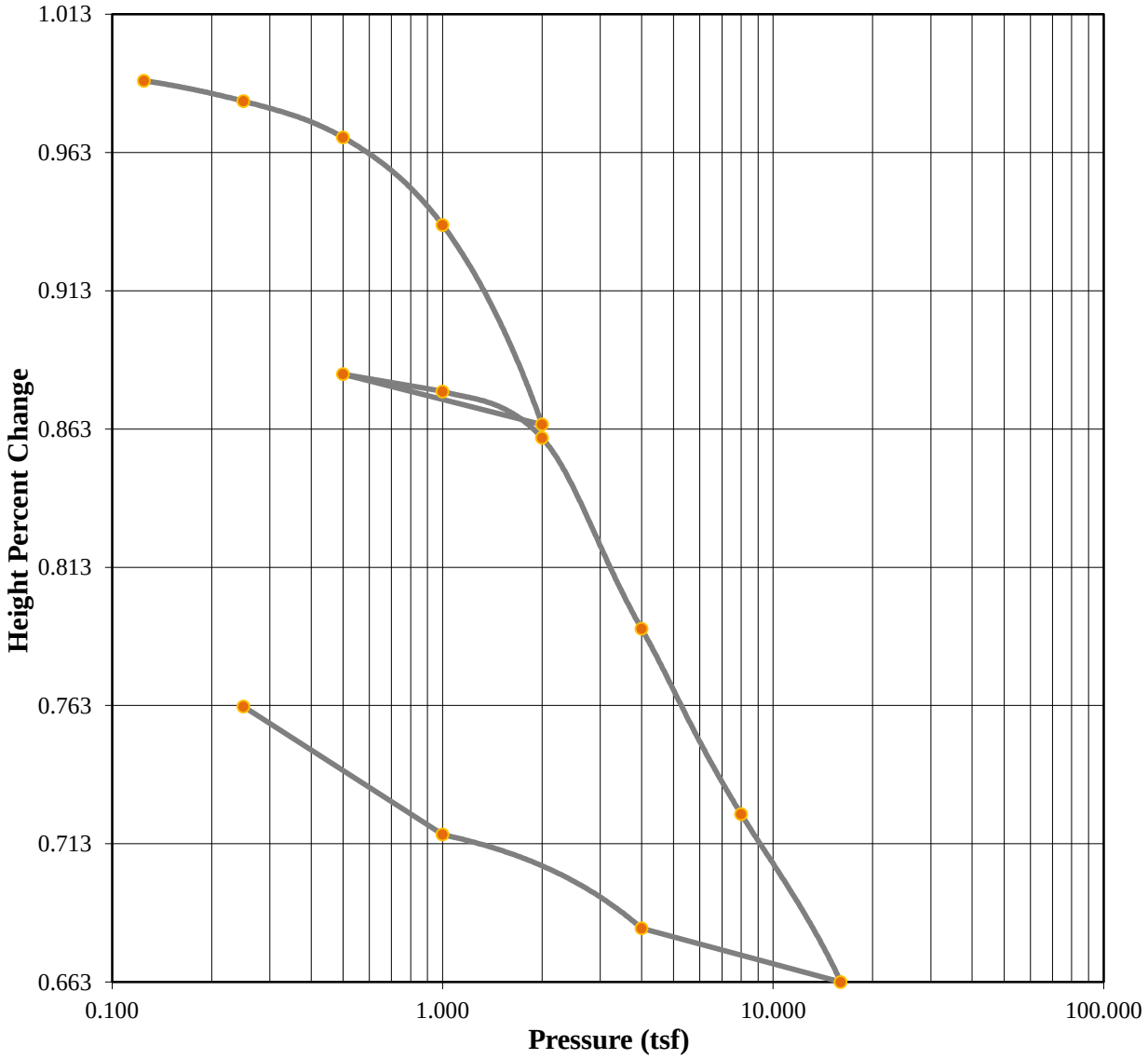
Consolidation Test
Test Results



	Before	After				
Moisture (%):	54.70	33.68	**Liquid Limits:**	56	**Test Date:**	3/2/17
Dry Density (pcf):	67.88	88.53	**Plastic Limits:**	24		
Saturation (%):	99.08	99.78	**Plasticity Index (%):**	0		
Void Ratio:	1.4978	0.9154	**Specific Gravity:**	2.720	Measured	

Soil Description:	FAT CLAY(CH A-7-6(35))			
Project Number:	7837	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	54.70	33.68	**Liquid Limits:**	56	**Test Date:**	3/2/17
Dry Density (pcf):	67.88	88.53	**Plastic Limits:**	24		
Saturation (%):	99.08	99.78	**Plasticity Index (%):**	0		
Void Ratio:	1.4978	0.9154	**Specific Gravity:**	2.720	Measured	

Soil Description:	FAT CLAY(CH A-7-6(35))			
Project Number:	7837	**Depth:**	18.0-20.0 ft.	**Remarks:**
Sample Number:	T-1	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-1
Boring Number: BW-37
Depth: 18.0-20.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(35))
Remarks:

Test Number:
Test Date: 3/2/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9950	0.5966	0.00	1.4972	0.000	0.000	0.000	0.000
1	0.125	0.0057	0.9893	0.5908	0.57	1.4829	0.000	0.000	0.000	0.000
2	0.250	0.0131	0.9819	0.5834	1.32	1.4643	3.434	2.067	217.231	83.865
3	0.500	0.0262	0.9688	0.5703	2.64	1.4313	4.424	2.406	164.149	70.120
4	1.000	0.0579	0.9371	0.5387	5.82	1.3519	8.591	8.706	79.096	18.132
5	2.000	0.1300	0.8650	0.4665	13.07	1.1708	21.870	15.923	26.472	8.447
6	0.500	0.1118	0.8832	0.4848	11.23	1.2166	0.000	0.000	0.000	0.000
7	1.000	0.1180	0.8770	0.4785	11.86	1.2009	7.527	1.871	79.061	73.879
8	2.000	0.1349	0.8601	0.4617	13.56	1.1587	9.829	3.382	58.242	39.321
9	4.000	0.2039	0.7911	0.3927	20.49	0.9855	69.100	15.835	7.009	7.105
10	8.000	0.2709	0.7241	0.3257	27.22	0.8173	54.856	15.052	7.396	6.262
11	16.000	0.3316	0.6634	0.2649	33.33	0.6649	43.305	10.197	7.863	7.758
12	4.000	0.3122	0.6828	0.2843	31.38	0.7136	0.000	0.000	0.000	0.000
13	1.000	0.2783	0.7167	0.3182	27.97	0.7987	0.000	0.000	0.000	0.000
14	0.250	0.2320	0.7630	0.3646	23.32	0.9149	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/2/17

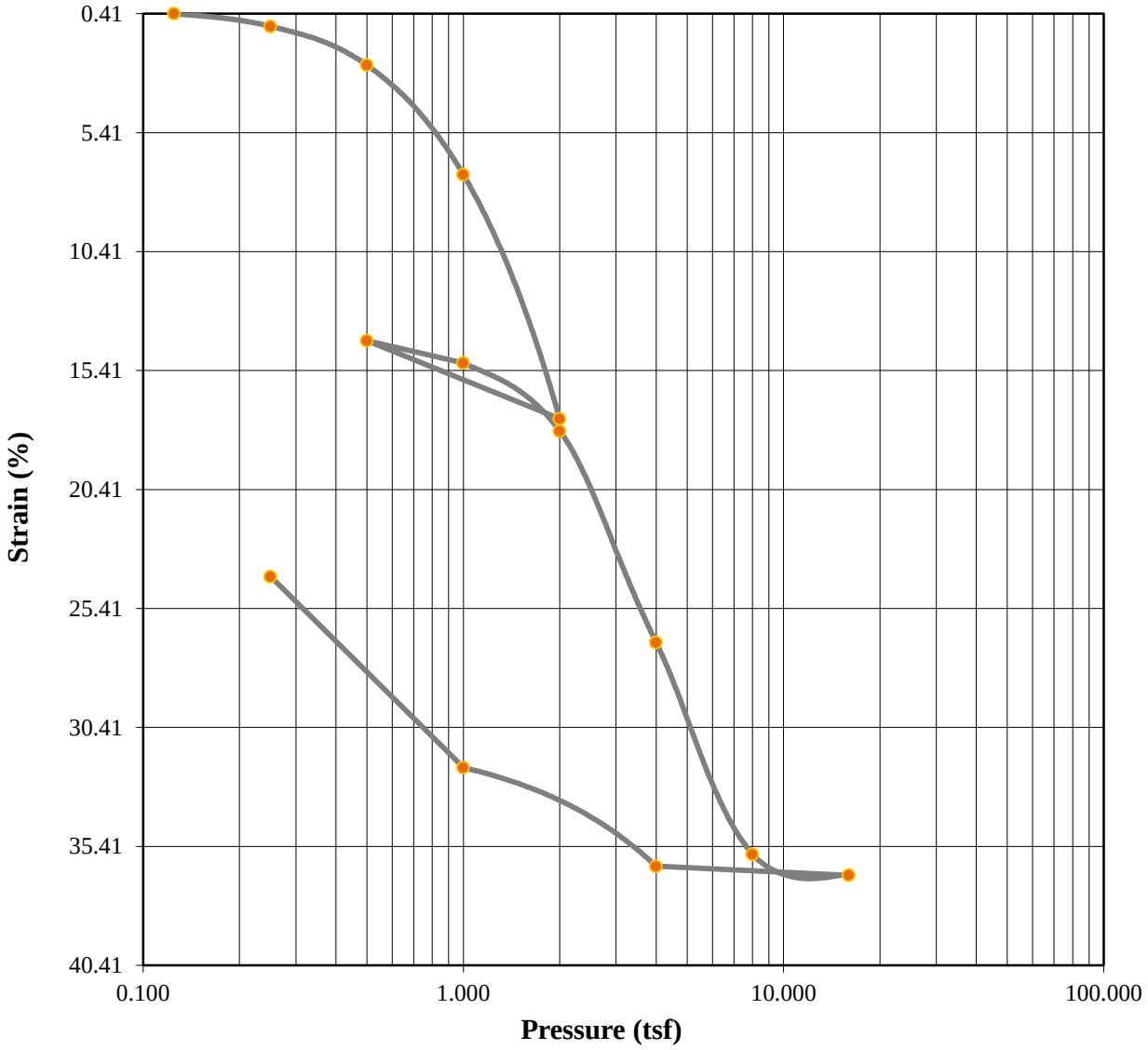
Sample Number: T-1 **Sample Description:**
Boring Number: BW-37 FAT CLAY(CH A-7-6(35))
Depth: 18.0-20.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 56.0000 **Initial Void Ratio:** 1.4978 **Initial Height (in):** 0.9950
Plastic Limit: 24.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4980
Specific Gravity: 2.7200 Measured **Weight of Ring (g):** 98.6900

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	124.88	240.65
Dry Soil + Container (g)	92.18	211.50
Weight of Container (g)	32.40	124.96
Moisture Content (%)	54.70	33.68
Void Ratio	1.4978	0.9154
Saturation (%)	99.08	99.78
Dry Density (pcf)	67.88	88.53

Tested By: B. Hak **Checked By:** C. Dugger

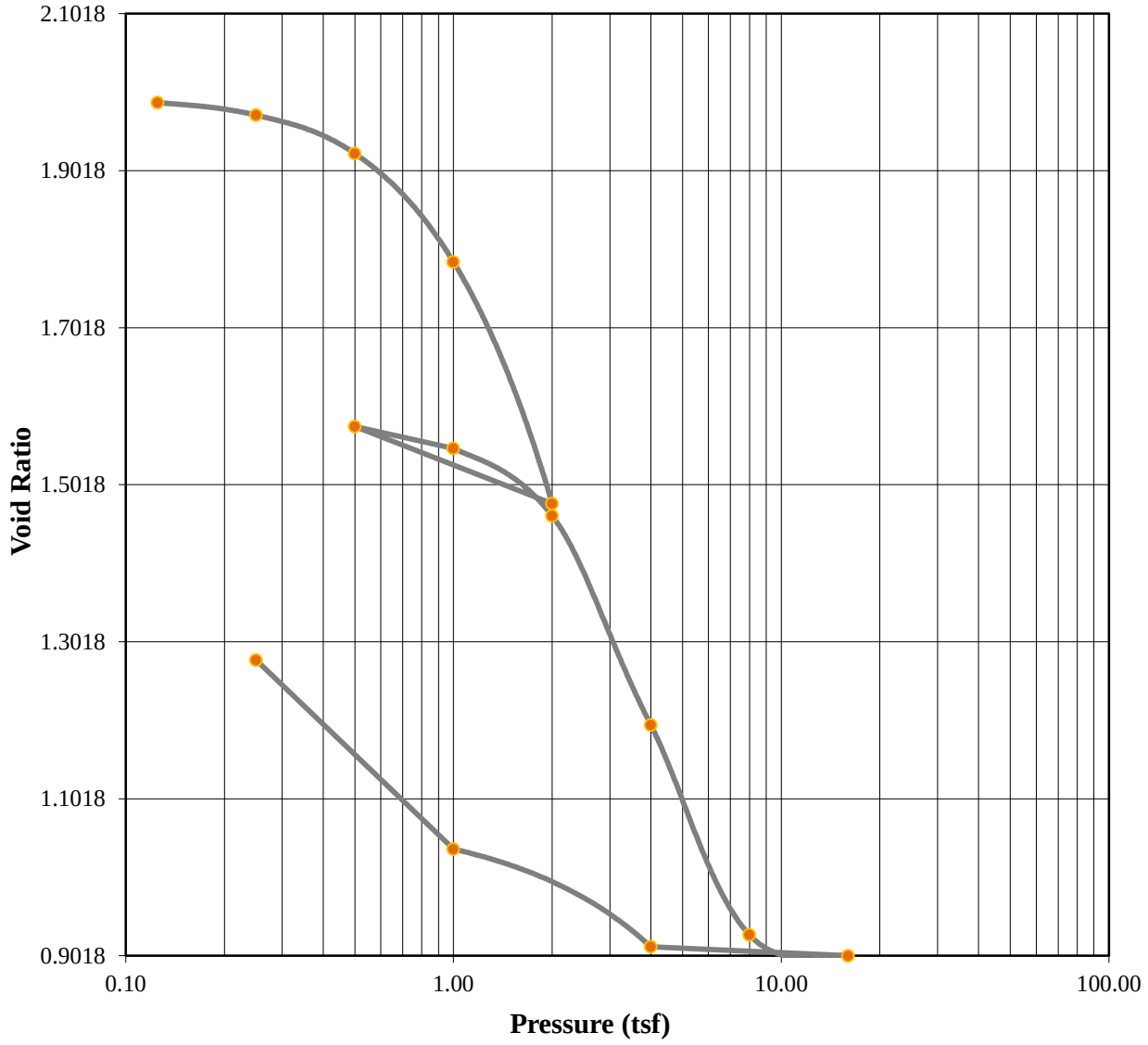
Consolidation Test
Test Results



	Before	After				
Moisture (%):	71.82	53.16	**Liquid Limits:**	110	**Test Date:**	3/4/17
Dry Density (pcf):	56.05	70.23	**Plastic Limits:**	38		
Saturation (%):	96.64	102.55	**Plasticity Index (%):**	0		
Void Ratio:	2.0046	1.2813	**Specific Gravity:**	2.699	Measured	

Sample Description:	FAT CLAY(CH A-7-5(86))			
Project Number:	7837	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

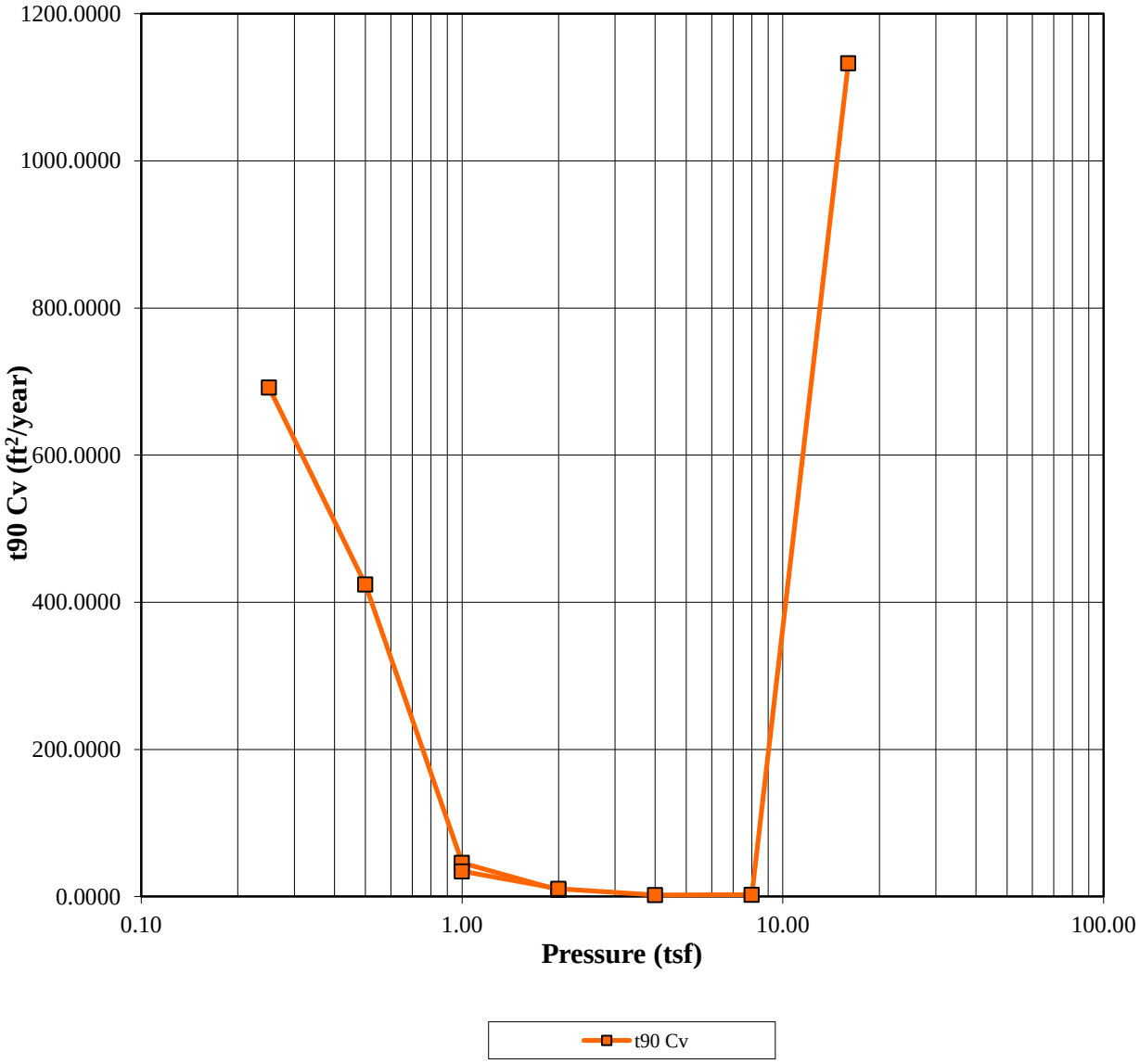
Consolidation Test
Test Results



	Before	After				
Moisture (%):	71.82	53.16	**Liquid Limits:**	110	**Test Date:**	3/4/17
Dry Density (pcf):	56.05	70.23	**Plastic Limits:**	38		
Saturation (%):	96.64	102.55	**Plasticity Index (%):**	0		
Void Ratio:	2.0046	1.2813	**Specific Gravity:**	2.699	Measured	

Soil Description:	FAT CLAY(CH A-7-5(86))			
Project Number:	7837	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

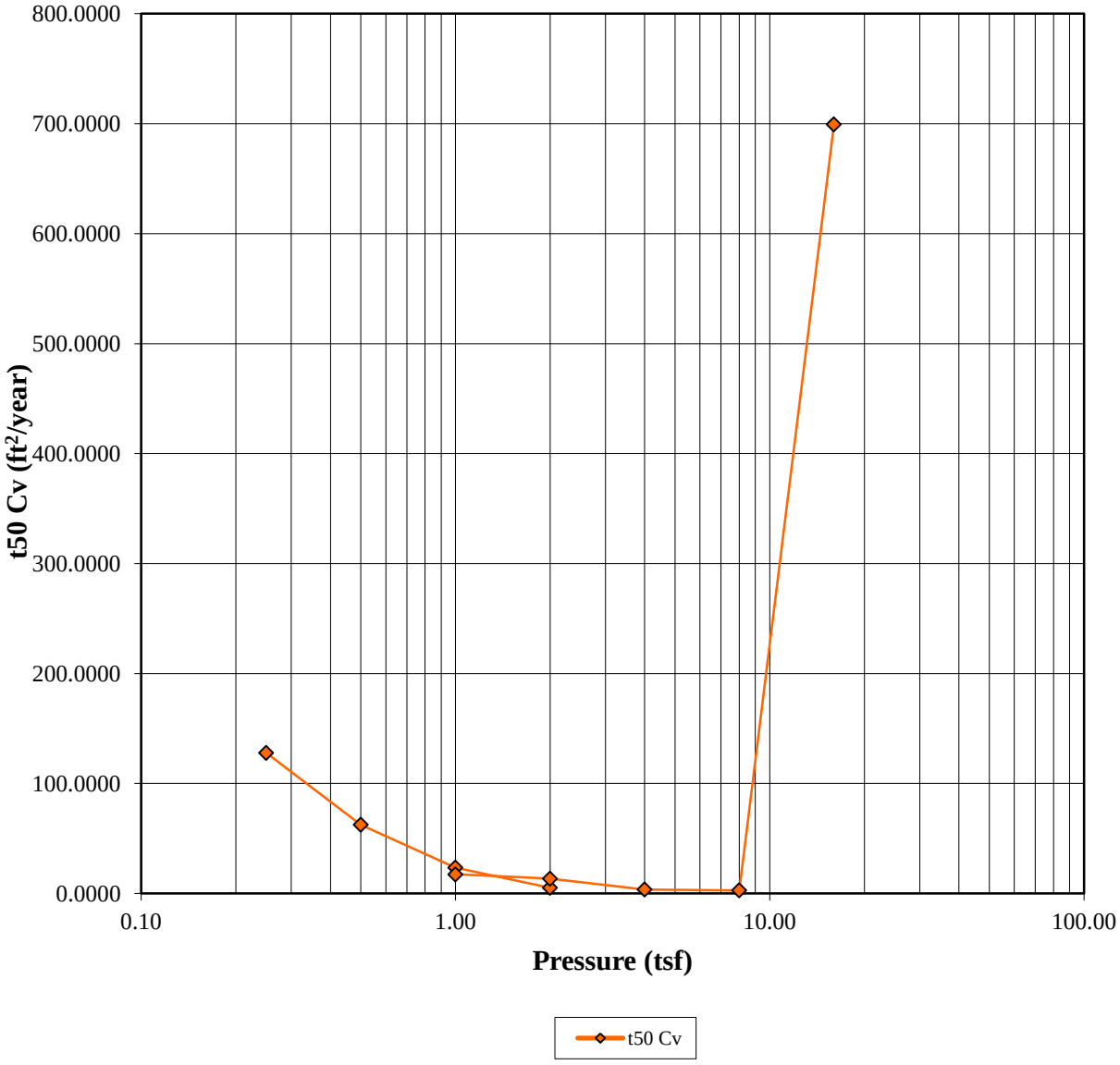
Consolidation Test
Test Results



	Before	After				
Moisture (%):	71.82	53.16	**Liquid Limits:**	110	**Test Date:**	3/4/17
Dry Density (pcf):	56.05	70.23	**Plastic Limits:**	38		
Saturation (%):	96.64	102.55	**Plasticity Index (%):**	0		
Void Ratio:	2.0046	1.2813	**Specific Gravity:**	2.699	Measured	

Soil Description:	FAT CLAY(CH A-7-5(86))			
Project Number:	7837	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

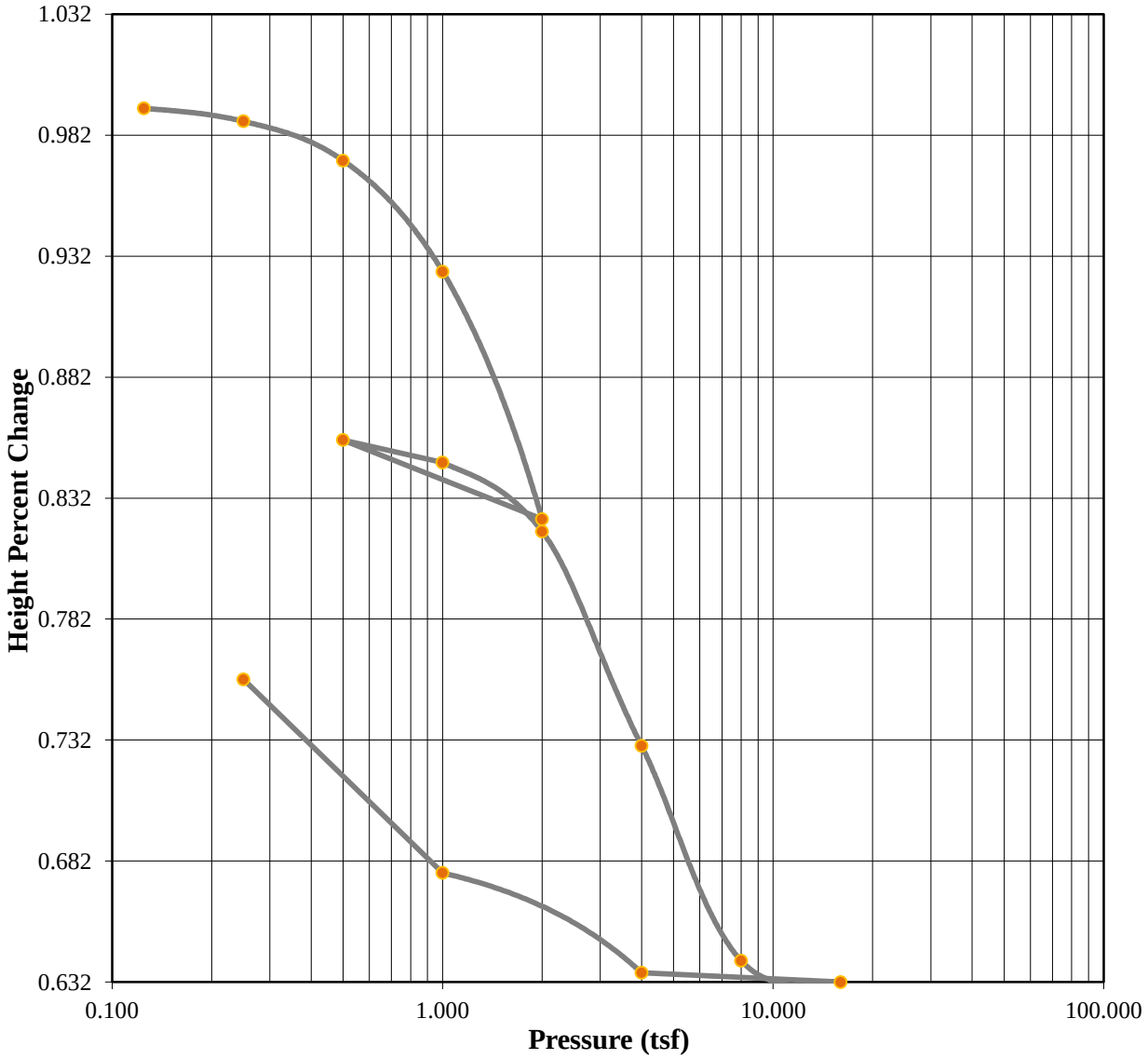
Consolidation Test
Test Results



	Before	After				
Moisture (%):	71.82	53.16	**Liquid Limits:**	110	**Test Date:**	3/4/17
Dry Density (pcf):	56.05	70.23	**Plastic Limits:**	38		
Saturation (%):	96.64	102.55	**Plasticity Index (%):**	0		
Void Ratio:	2.0046	1.2813	**Specific Gravity:**	2.699	Measured	

Soil Description:	FAT CLAY(CH A-7-5(86))			
Project Number:	7837	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	110	**Test Date:**	3/4/17
Moisture (%):	71.82	53.16	**Plastic Limits:**	38		
Dry Density (pcf):	56.05	70.23	**Plasticity Index (%):**	0		
Saturation (%):	96.64	102.55				
Void Ratio:	2.0046	1.2813	**Specific Gravity:**	2.699	Measured	

Soil Description:	FAT CLAY(CH A-7-5(86))			
Project Number:	7837	**Depth:**	28.0-30.0 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-2
Boring Number: BW-37
Depth: 28.0-30.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-5(86))
Remarks:

Test Number:
Test Date: 3/4/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.6647	0.00	2.0006	0.000	0.000	0.000	0.000
1	0.125	0.0040	0.9930	0.6607	0.41	1.9884	0.000	0.000	0.000	0.000
2	0.250	0.0094	0.9876	0.6554	0.94	1.9724	1.091	1.372	692.053	127.817
3	0.500	0.0256	0.9714	0.6391	2.57	1.9235	1.721	2.712	424.316	62.553
4	1.000	0.0715	0.9255	0.5932	7.17	1.7854	14.548	6.574	45.559	23.421
5	2.000	0.1738	0.8232	0.4910	17.43	1.4776	59.983	23.875	8.743	5.103
6	0.500	0.1411	0.8559	0.5237	14.15	1.5760	0.000	0.000	0.000	0.000
7	1.000	0.1504	0.8466	0.5143	15.09	1.5479	16.189	7.397	34.257	17.419
8	2.000	0.1789	0.8181	0.4858	17.94	1.4621	49.654	8.966	10.430	13.419
9	4.000	0.2675	0.7295	0.3973	26.83	1.1956	192.107	26.487	2.144	3.612
10	8.000	0.3563	0.6407	0.3085	35.73	0.9283	138.217	26.378	2.298	2.798
11	16.000	0.3651	0.6319	0.2996	36.62	0.9018	0.273	0.103	1132.618	699.292
12	4.000	0.3613	0.6357	0.3035	36.24	0.9133	0.000	0.000	0.000	0.000
13	1.000	0.3200	0.6770	0.3448	32.09	1.0376	0.000	0.000	0.000	0.000
14	0.250	0.2400	0.7570	0.4247	24.07	1.2783	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/4/17

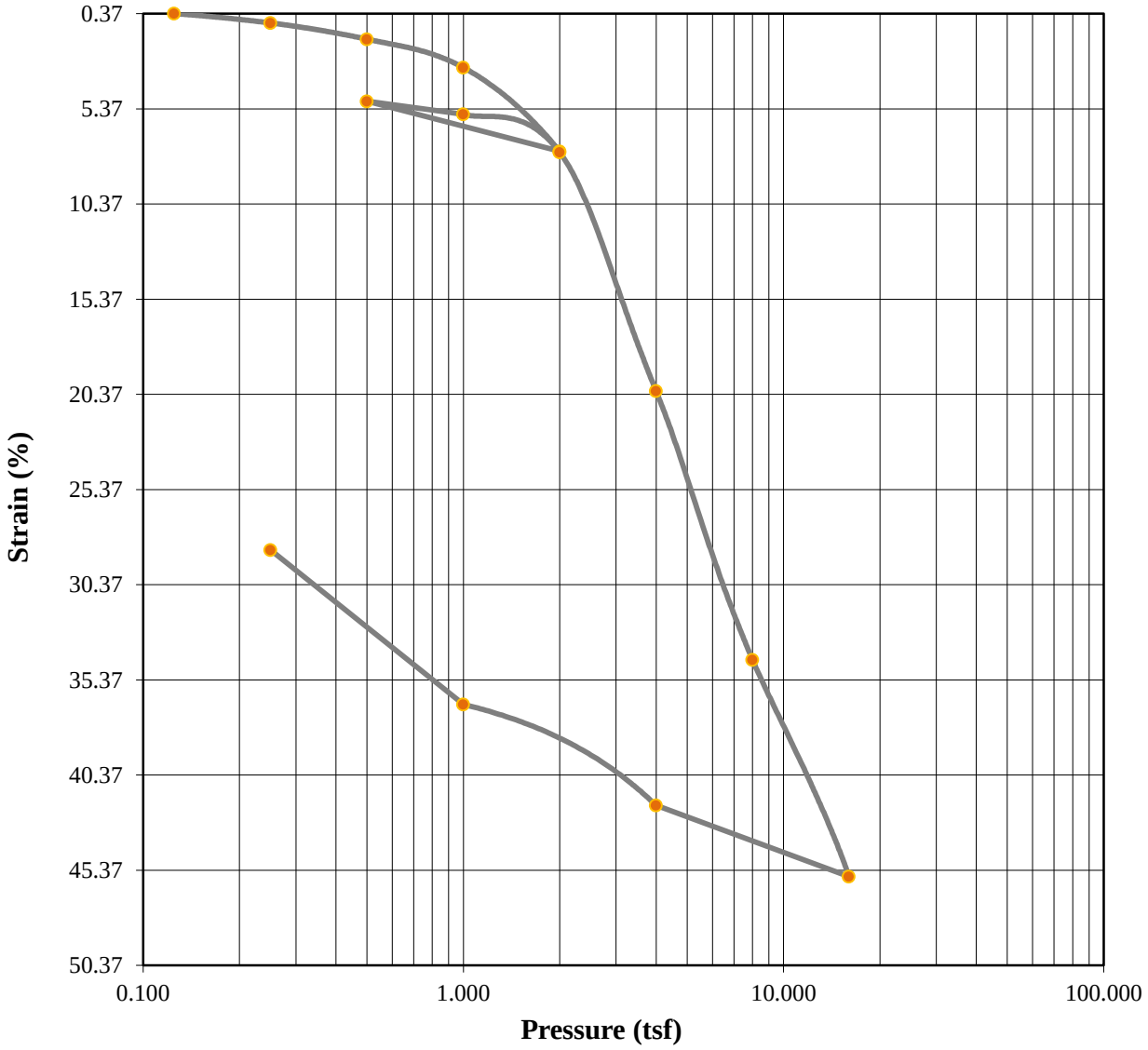
Sample Number: T-2 **Sample Description:**
Boring Number: BW-37 FAT CLAY(CH A-7-5(86))
Depth: 28.0-30.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 110.0000 **Initial Void Ratio:** 2.0046 **Initial Height (in):** 0.9970
Plastic Limit: 38.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4970
Specific Gravity: 2.6990 Measured **Weight of Ring (g):** 110.7700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	112.51	236.08
Dry Soil + Container (g)	79.05	199.78
Weight of Container (g)	32.46	131.49
Moisture Content (%)	71.82	53.16
Void Ratio	2.0046	1.2813
Saturation (%)	96.64	102.55
Dry Density (pcf)	56.05	70.23

Tested By: B. Hak **Checked By:** C. Dugger

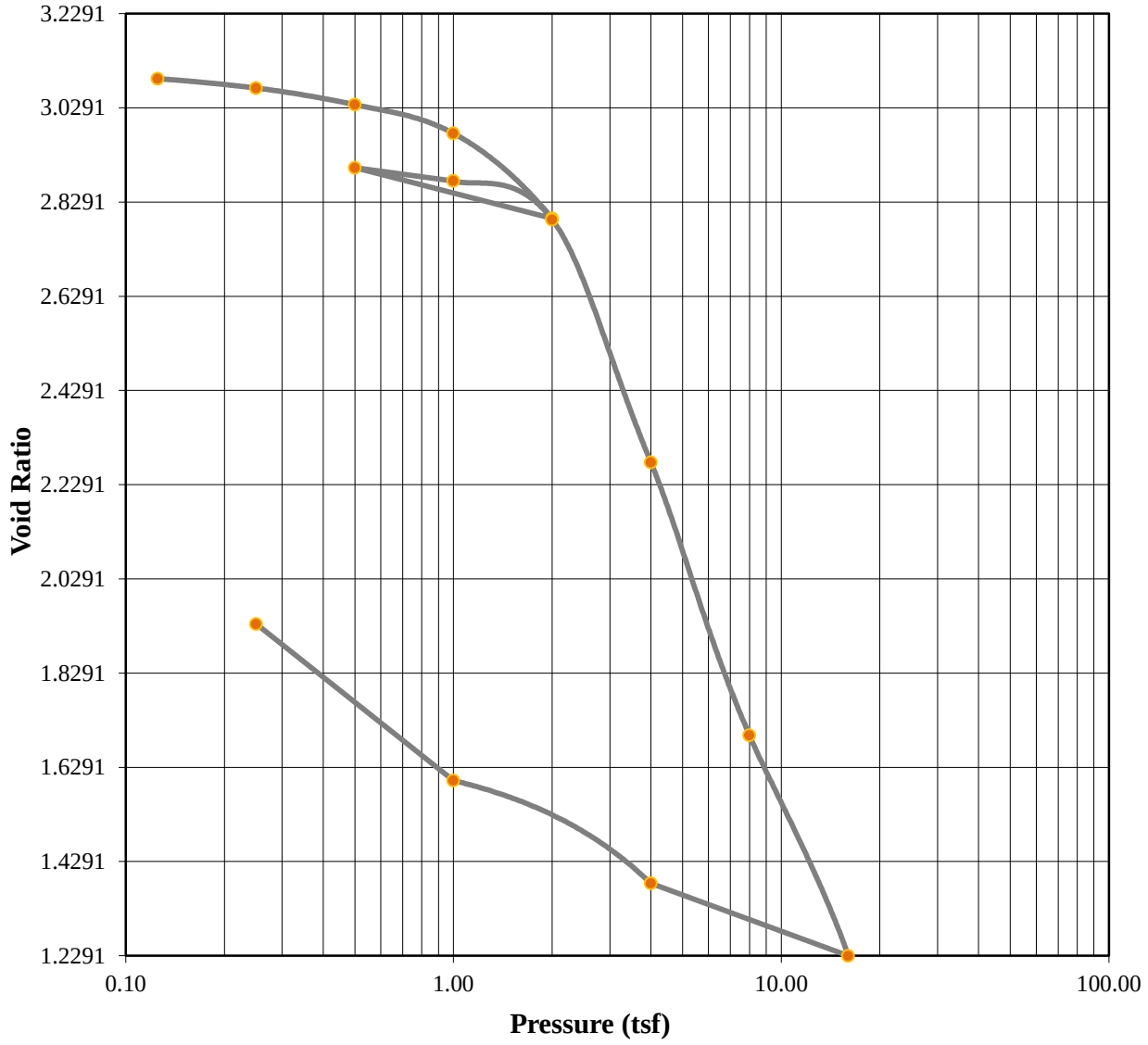
Consolidation Test
Test Results



	Before	After				
Moisture (%):	92.01	99.30	**Liquid Limits:**	0	**Test Date:**	3/6/17
Dry Density (pcf):	40.28	42.26	**Plastic Limits:**	0		
Saturation (%):	78.43	90.23	**Plasticity Index (%):**	0		
Void Ratio:	3.1042	1.9322	**Specific Gravity:**	2.654	Measured	

Sample Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	38.0-40.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

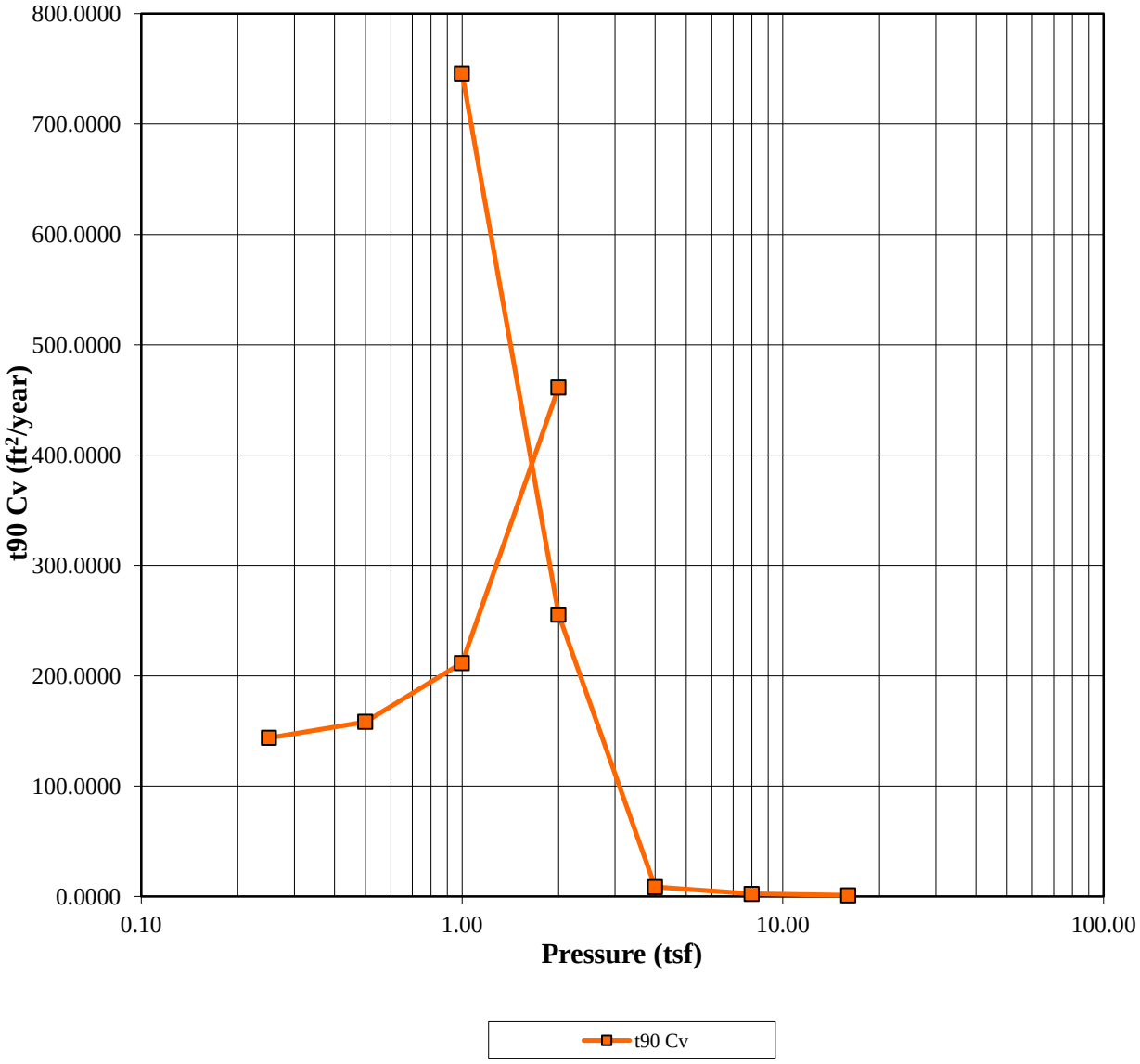
Consolidation Test
Test Results



	Before	After				
Moisture (%):	92.01	99.30	**Liquid Limits:**	0	**Test Date:**	3/6/17
Dry Density (pcf):	40.28	42.26	**Plastic Limits:**	0		
Saturation (%):	78.43	90.23	**Plasticity Index (%):**	0		
Void Ratio:	3.1042	1.9322	**Specific Gravity:**	2.654	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	38.0-40.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

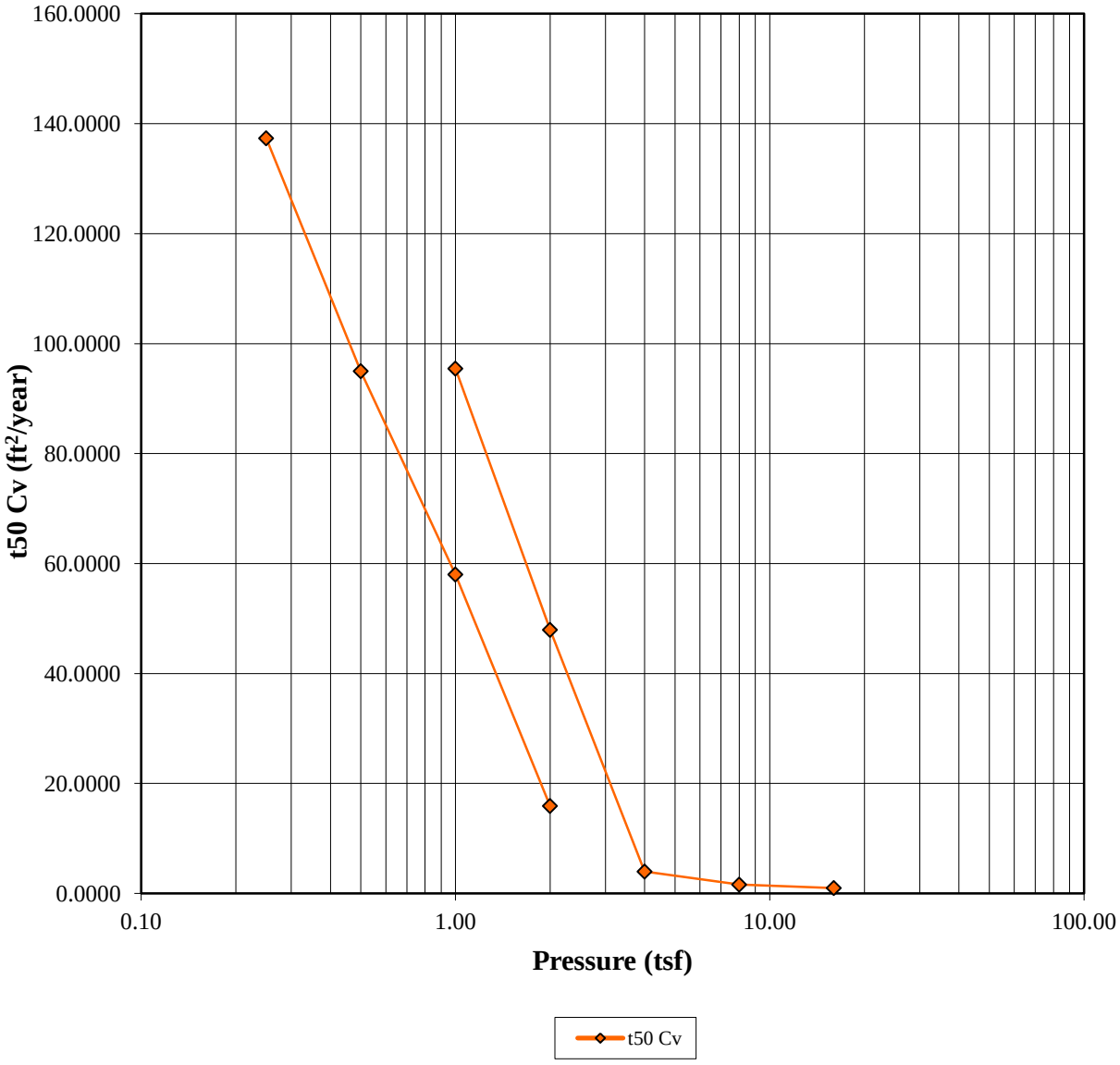
Consolidation Test
Test Results



	Before	After				
Moisture (%):	92.01	99.30	**Liquid Limits:**	0	**Test Date:**	3/6/17
Dry Density (pcf):	40.28	42.26	**Plastic Limits:**	0		
Saturation (%):	78.43	90.23	**Plasticity Index (%):**	0		
Void Ratio:	3.1042	1.9322	**Specific Gravity:**	2.654	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	38.0-40.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

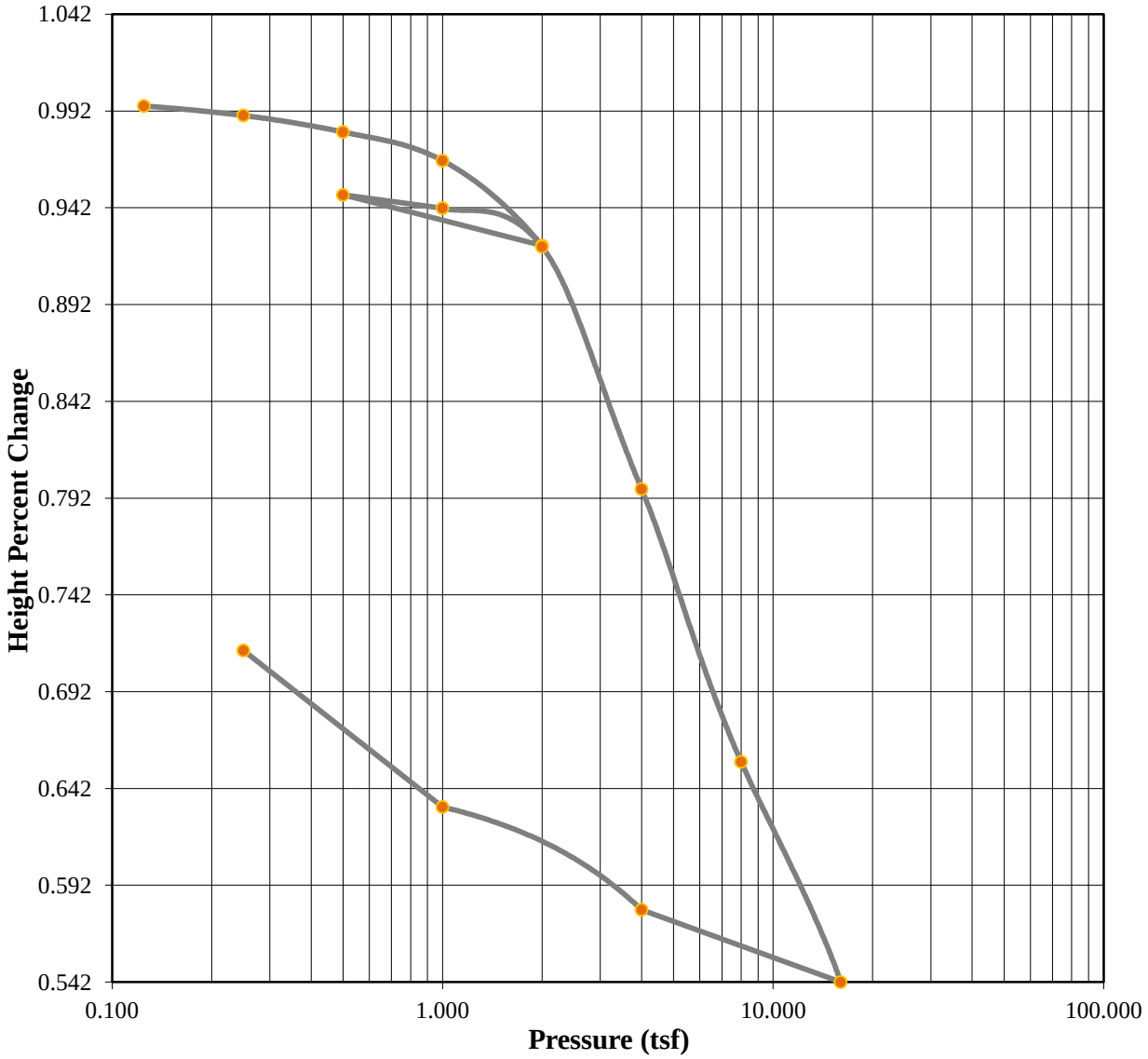
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	3/6/17
Moisture (%):	92.01	99.30	**Plastic Limits:**	0		
Dry Density (pcf):	40.28	42.26	**Plasticity Index (%):**	0		
Saturation (%):	78.43	90.23				
Void Ratio:	3.1042	1.9322	**Specific Gravity:**	2.654	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	38.0-40.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	92.01	99.30	**Liquid Limits:**	0	**Test Date:**	3/6/17
Dry Density (pcf):	40.28	42.26	**Plastic Limits:**	0		
Saturation (%):	78.43	90.23	**Plasticity Index (%):**	0		
Void Ratio:	3.1042	1.9322	**Specific Gravity:**	2.654	Measured	

Soil Description:	SILTY SAND(SM A-2-4(0))			
Project Number:	7837	**Depth:**	38.0-40.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-37	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7837

Sample Number: T-3
Boring Number: BW-37
Depth: 38.0-40.0 ft.
Sample Type: Undisturbed

Sample Description: SILTY SAND(SM A-2-4(0))
Remarks:

Test Number:
Test Date: 3/6/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9980	0.7550	0.00	3.1062	0.000	0.000	0.000	0.000
1	0.125	0.0037	0.9943	0.7512	0.37	3.0909	0.000	0.000	0.000	0.000
2	0.250	0.0086	0.9894	0.7464	0.86	3.0710	5.267	1.282	143.828	137.334
3	0.500	0.0171	0.9809	0.7378	1.71	3.0358	4.704	1.821	158.279	94.976
4	1.000	0.0319	0.9661	0.7230	3.20	2.9748	3.412	2.892	211.649	58.005
5	2.000	0.0758	0.9222	0.6791	7.60	2.7941	1.426	9.616	461.379	15.897
6	0.500	0.0496	0.9484	0.7053	4.97	2.9021	0.000	0.000	0.000	0.000
7	1.000	0.0565	0.9415	0.6985	5.66	2.8739	0.920	1.670	745.826	95.440
8	2.000	0.0764	0.9216	0.6785	7.66	2.7918	2.572	3.184	255.543	47.949
9	4.000	0.2016	0.7964	0.5534	20.20	2.2767	57.066	28.496	8.600	4.001
10	8.000	0.3425	0.6555	0.4125	34.31	1.6972	135.331	47.644	2.457	1.621
11	16.000	0.4562	0.5418	0.2987	45.71	1.2291	197.060	55.053	1.153	0.958
12	4.000	0.4189	0.5791	0.3361	41.97	1.3828	0.000	0.000	0.000	0.000
13	1.000	0.3658	0.6322	0.3891	36.66	1.6010	0.000	0.000	0.000	0.000
14	0.250	0.2850	0.7130	0.4700	28.56	1.9336	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7837
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 3/6/17

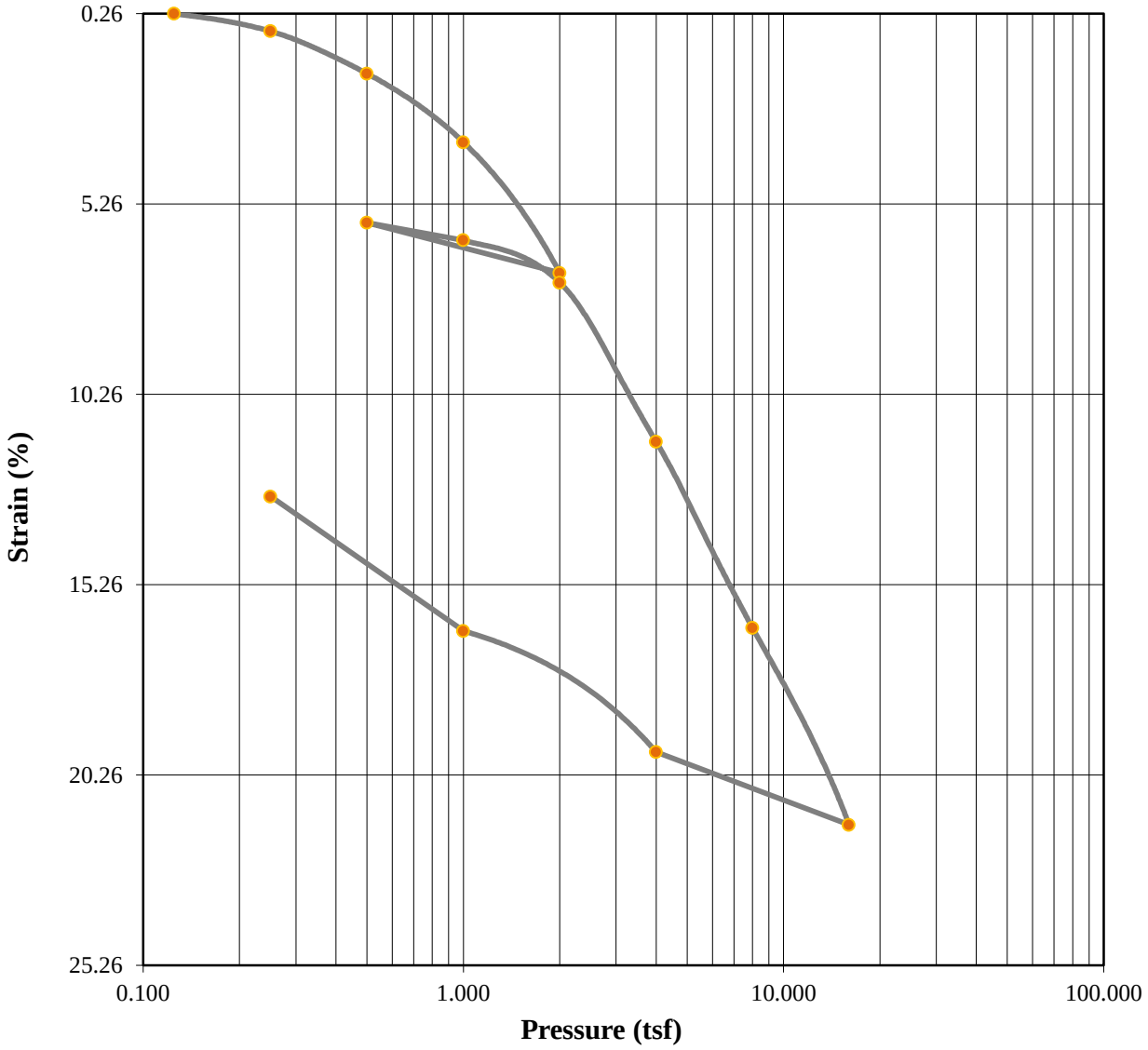
Sample Number: T-3 **Sample Description:**
Boring Number: BW-37 SILTY SAND(SM A-2-4(0))
Depth: 38.0-40.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 3.1042 **Initial Height (in):** 0.9980
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5020
Specific Gravity: 2.6540 Measured **Weight of Ring (g):** 110.7700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	115.70	210.49
Dry Soil + Container (g)	75.51	172.03
Weight of Container (g)	31.83	133.30
Moisture Content (%)	92.01	99.30
Void Ratio	3.1042	1.9322
Saturation (%)	78.43	90.23
Dry Density (pcf)	40.28	42.26

Tested By: B. Hak **Checked By:** C. Dugger

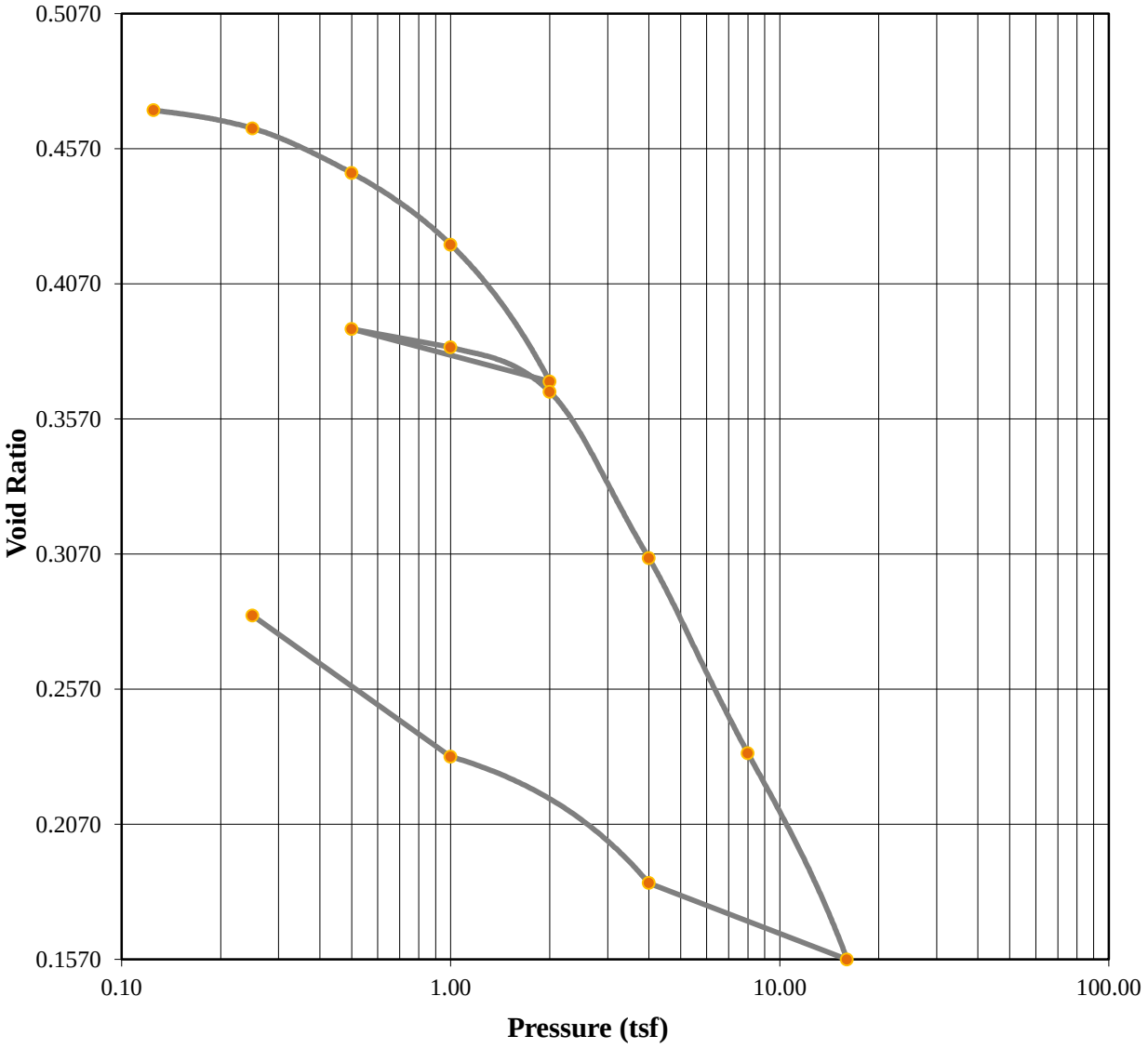
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	69	**Test Date:**	7/6/17
Moisture (%):	35.75	28.23	**Plastic Limits:**	23		
Dry Density (pcf):	85.17	97.17	**Plasticity Index (%):**	0		
Saturation (%):	150.88	192.79				
Void Ratio:	0.4778	0.2866	**Specific Gravity:**	2.016	Measured	

Sample Description:	FAT CLAY(CH A-7-6(50))			
Project Number:	7985	**Depth:**	48.0-50.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-38	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

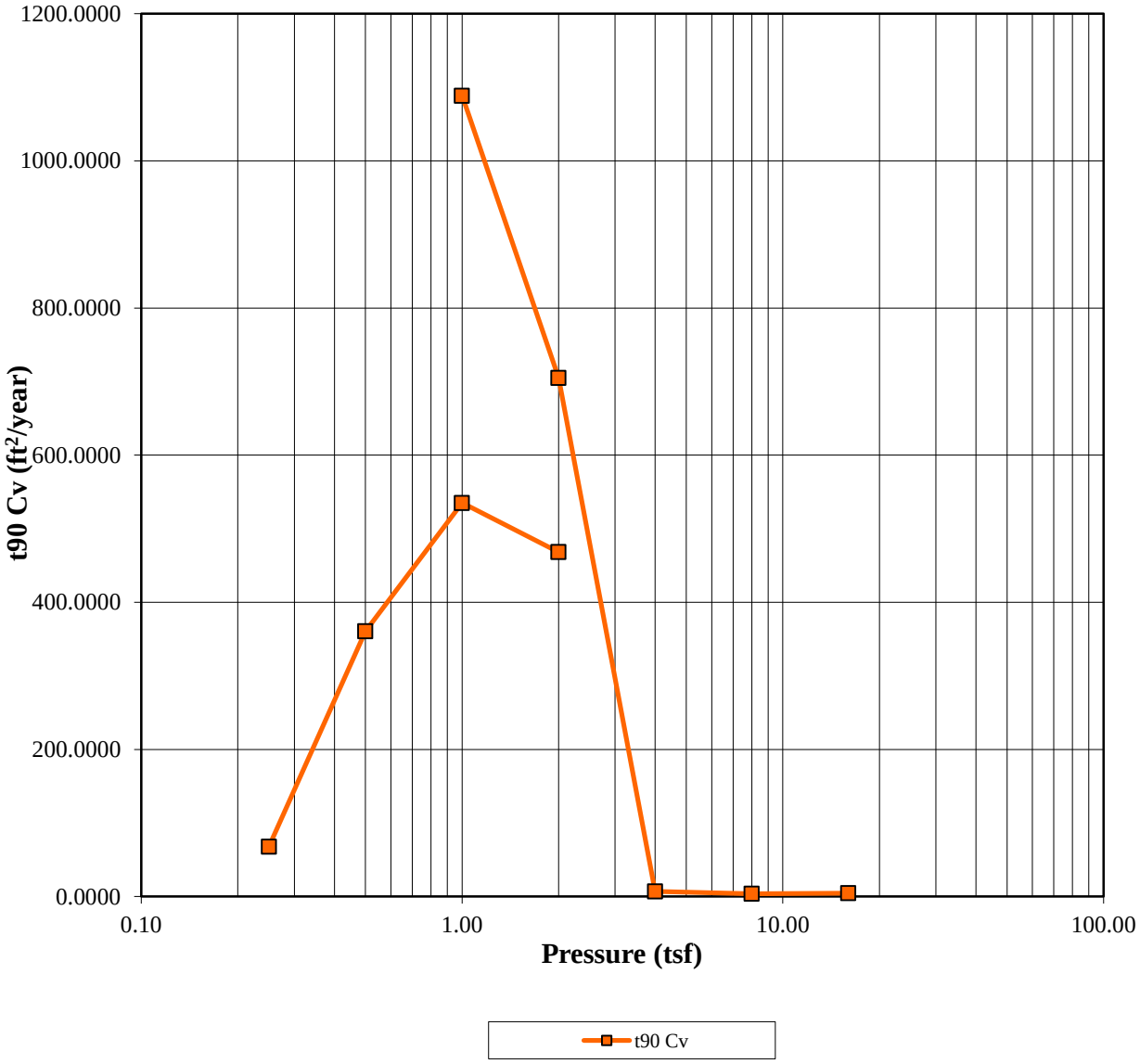
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	69	**Test Date:**	7/6/17
Moisture (%):	35.75	28.23	**Plastic Limits:**	23		
Dry Density (pcf):	85.17	97.17	**Plasticity Index (%):**	0		
Saturation (%):	150.88	192.79				
Void Ratio:	0.4778	0.2866	**Specific Gravity:**	2.016	Measured	

Soil Description:	FAT CLAY(CH A-7-6(50))			
Project Number:	7985	**Depth:**	48.0-50.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-38	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

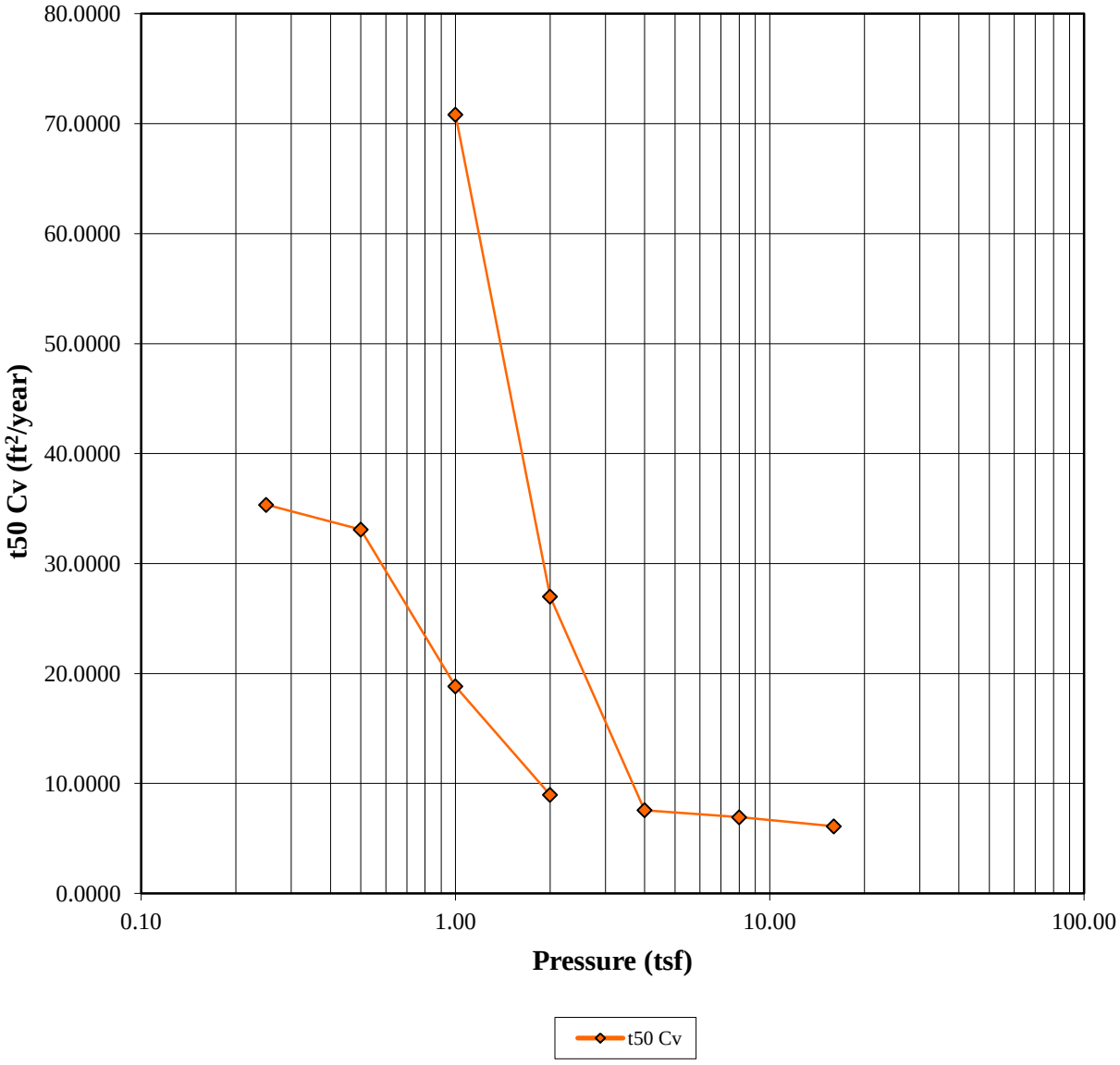


	Before	After				
			Liquid Limits:	69	**Test Date:**	7/6/17
Moisture (%):	35.75	28.23	**Plastic Limits:**	23		
Dry Density (pcf):	85.17	97.17	**Plasticity Index (%):**	0		
Saturation (%):	150.88	192.79				
Void Ratio:	0.4778	0.2866	**Specific Gravity:**	2.016	Measured	

Soil Description:	FAT CLAY(CH A-7-6(50))			
Project Number:	7985	**Depth:**	48.0-50.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-38	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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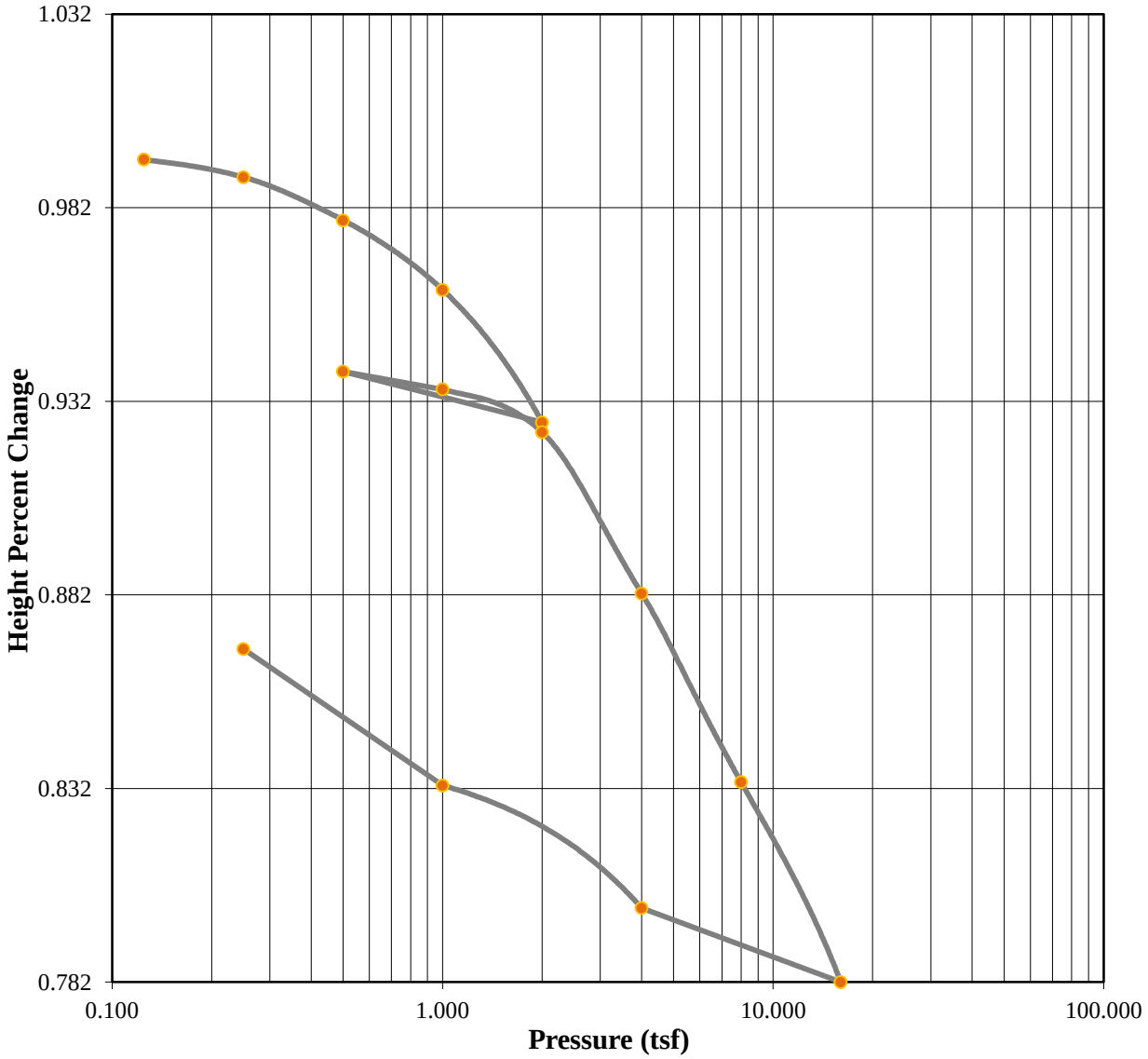
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	69	**Test Date:**	7/6/17
Moisture (%):	35.75	28.23	**Plastic Limits:**	23		
Dry Density (pcf):	85.17	97.17	**Plasticity Index (%):**	0		
Saturation (%):	150.88	192.79				
Void Ratio:	0.4778	0.2866	**Specific Gravity:**	2.016	Measured	

Soil Description:	FAT CLAY(CH A-7-6(50))			
Project Number:	7985	**Depth:**	48.0-50.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-38	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	35.75	28.23	**Liquid Limits:**	69	**Test Date:**	7/6/17
Dry Density (pcf):	85.17	97.17	**Plastic Limits:**	23		
Saturation (%):	150.88	192.79	**Plasticity Index (%):**	0		
Void Ratio:	0.4778	0.2866	**Specific Gravity:**	2.016	Measured	

Soil Description:	FAT CLAY(CH A-7-6(50))			
Project Number:	7985	**Depth:**	48.0-50.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-38	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7985

Sample Number: T-5
Boring Number: BW-38
Depth: 48.0-50.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(50))
Remarks:

Test Number:
Test Date: 7/6/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9970	0.3211	0.00	0.4750	0.000	0.000	0.000	0.000
1	0.125	0.0026	0.9944	0.3185	0.26	0.4712	0.000	0.000	0.000	0.000
2	0.250	0.0071	0.9899	0.3140	0.72	0.4645	11.196	4.984	67.724	35.341
3	0.500	0.0182	0.9788	0.3028	1.83	0.4480	2.056	5.204	360.583	33.089
4	1.000	0.0362	0.9608	0.2849	3.63	0.4215	1.335	8.812	534.948	18.831
5	2.000	0.0704	0.9266	0.2507	7.06	0.3708	1.419	17.216	468.343	8.965
6	0.500	0.0573	0.9397	0.2638	5.75	0.3902	0.000	0.000	0.000	0.000
7	1.000	0.0619	0.9351	0.2592	6.21	0.3835	0.622	2.220	1088.652	70.825
8	2.000	0.0730	0.9240	0.2481	7.32	0.3670	0.937	5.687	704.870	26.986
9	4.000	0.1146	0.8824	0.2065	11.50	0.3055	86.117	18.474	6.996	7.576
10	8.000	0.1634	0.8336	0.1577	16.39	0.2333	143.393	18.013	3.750	6.935
11	16.000	0.2150	0.7820	0.1061	21.56	0.1570	102.260	18.010	4.627	6.104
12	4.000	0.1959	0.8011	0.1252	19.65	0.1852	0.000	0.000	0.000	0.000
13	1.000	0.1642	0.8328	0.1568	16.47	0.2320	0.000	0.000	0.000	0.000
14	0.250	0.1290	0.8680	0.1921	12.94	0.2842	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7985
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 7/6/17

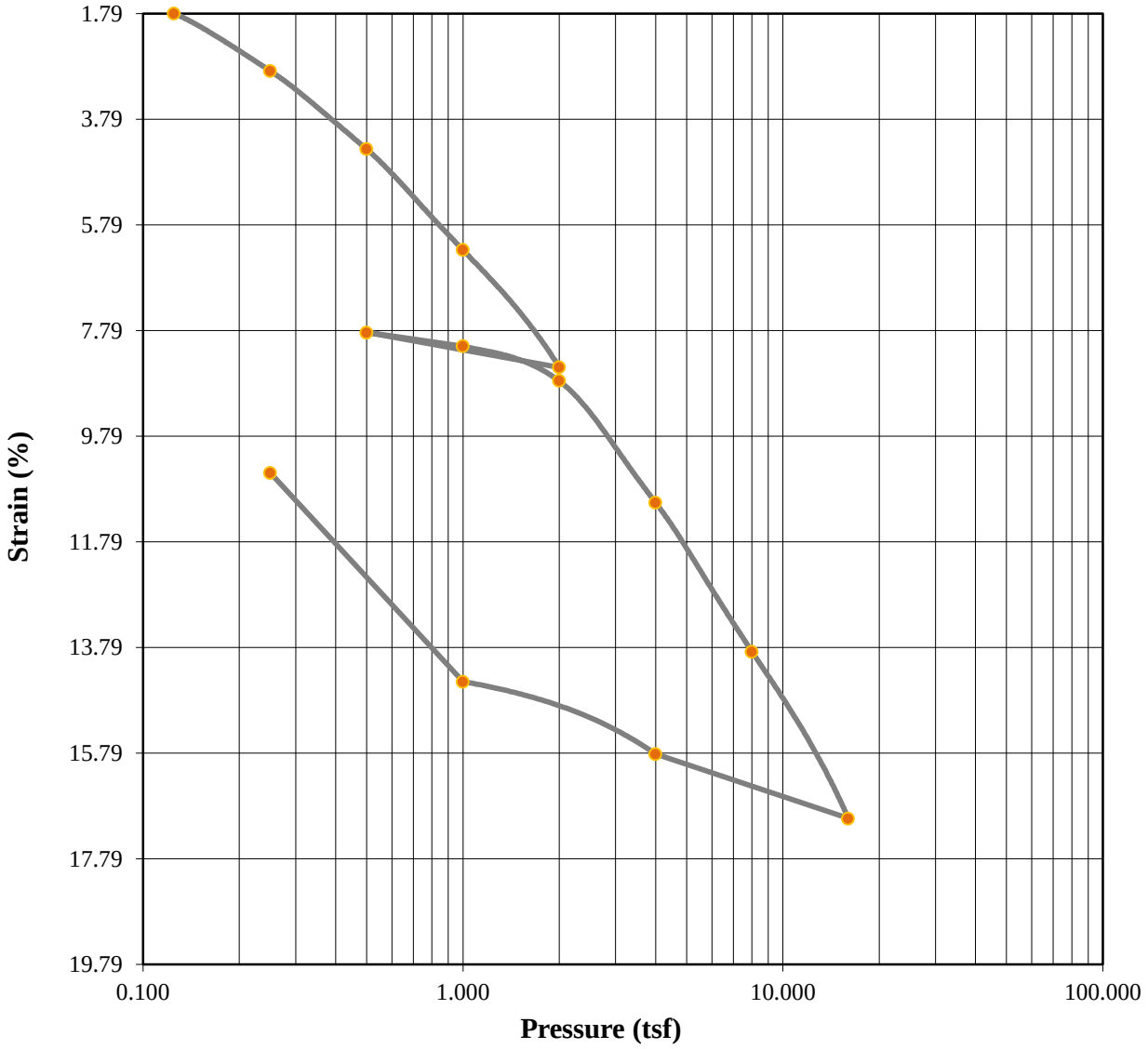
Sample Number: T-5 **Sample Description:**
Boring Number: BW-38 FAT CLAY(CH A-7-6(50))
Depth: 48.0-50.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 69.0000 **Initial Void Ratio:** 0.4778 **Initial Height (in):** 0.9970
Plastic Limit: 23.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.0160 **Weight of Ring (g):** 110.7300
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	149.67	268.72
Dry Soil + Container (g)	118.72	238.14
Weight of Container (g)	32.15	129.80
Moisture Content (%)	35.75	28.23
Void Ratio	0.4778	0.2866
Saturation (%)	150.88	192.79
Dry Density (pcf)	85.17	97.17

Tested By: B. Hak **Checked By:** C. Dugger

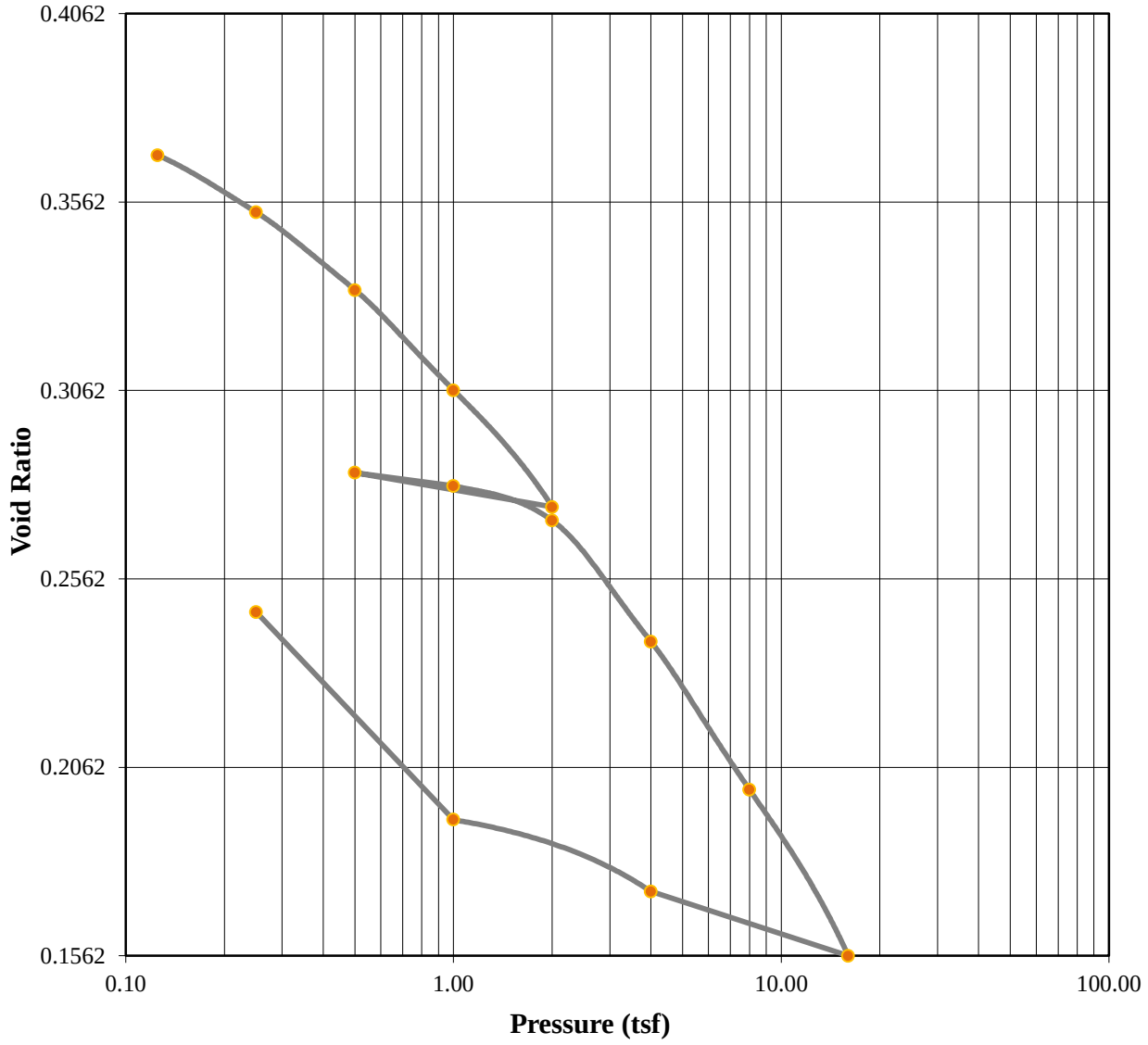
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.47	22.46	**Liquid Limits:**	39	**Test Date:**	7/24/17
Dry Density (pcf):	95.20	105.70	**Plastic Limits:**	14		
Saturation (%):	158.41	185.74	**Plasticity Index (%):**	0		
Void Ratio:	0.3939	0.2477	**Specific Gravity:**	2.129	Measured	

Sample Description:	SANDY LEAN CLAY(CL A-6(13))			
Project Number:	7985	**Depth:**	58.0-60.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-39	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

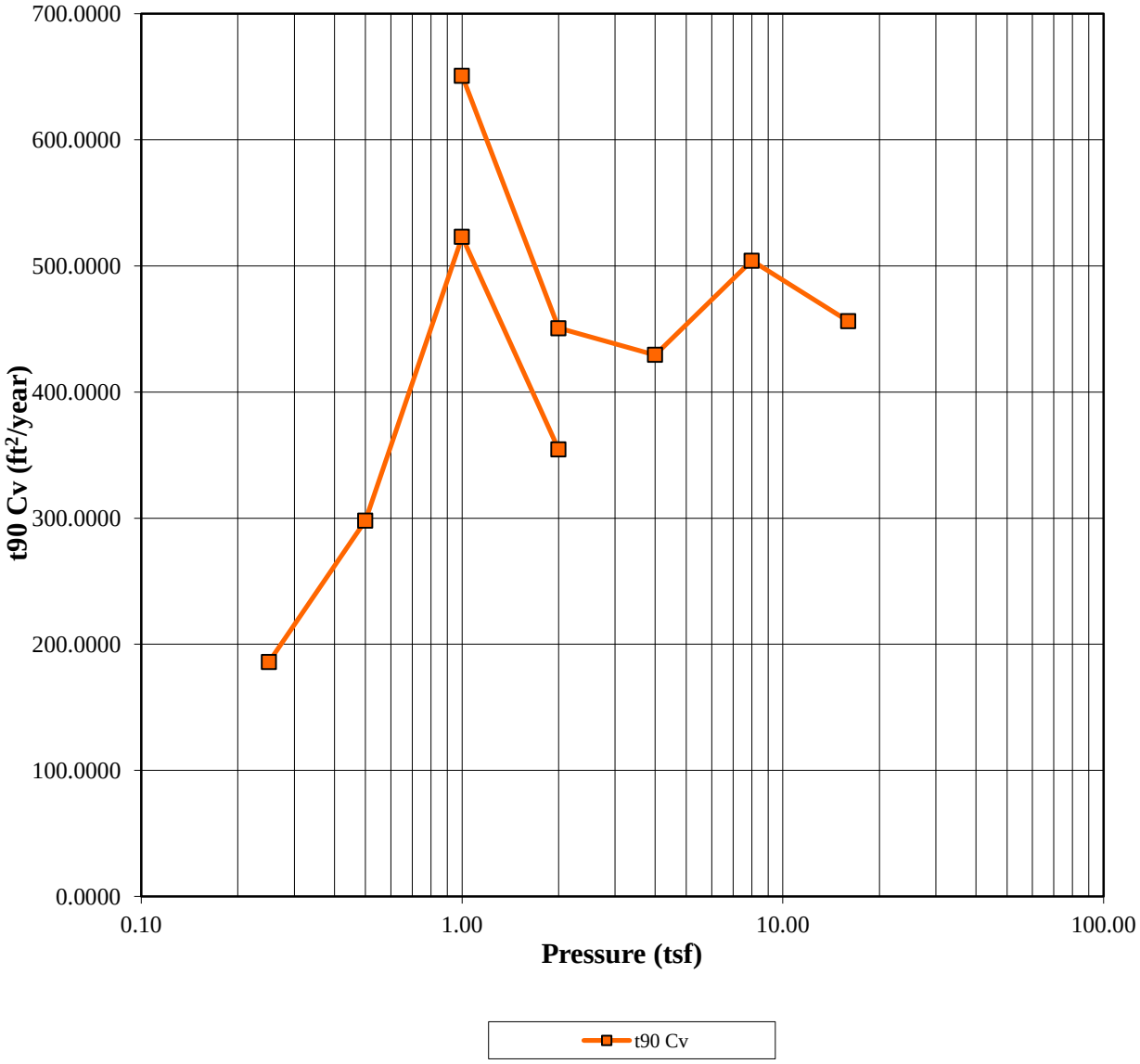
Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.47	22.46	**Liquid Limits:**	39	**Test Date:**	7/24/17
Dry Density (pcf):	95.20	105.70	**Plastic Limits:**	14		
Saturation (%):	158.41	185.74	**Plasticity Index (%):**	0		
Void Ratio:	0.3939	0.2477	**Specific Gravity:**	2.129	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(13))			
Project Number:	7985	**Depth:**	58.0-60.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-39	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

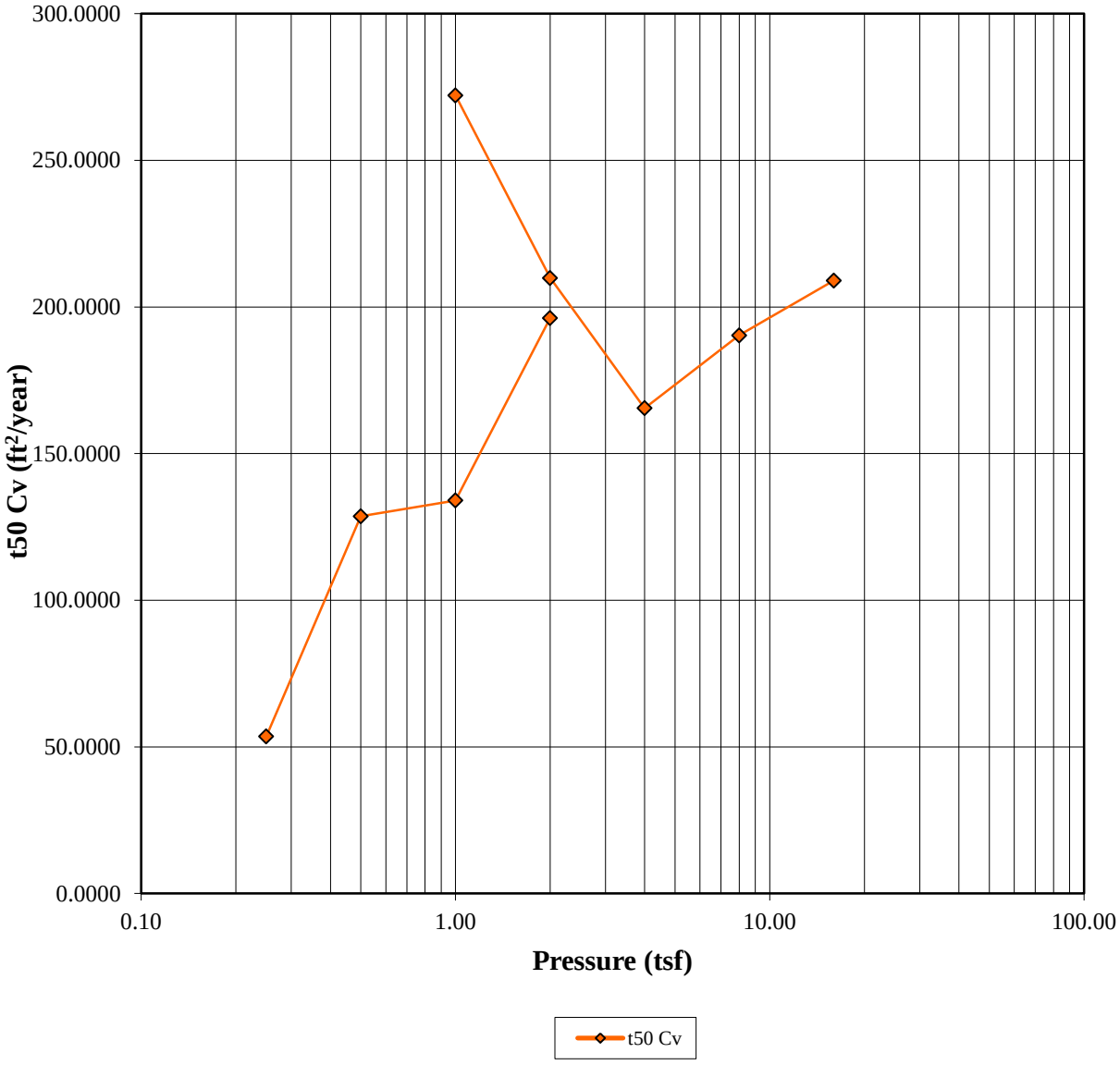
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	39	**Test Date:**	7/24/17
Moisture (%):	29.47	22.46	**Plastic Limits:**	14		
Dry Density (pcf):	95.20	105.70	**Plasticity Index (%):**	0		
Saturation (%):	158.41	185.74				
Void Ratio:	0.3939	0.2477	**Specific Gravity:**	2.129	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(13))			
Project Number:	7985	**Depth:**	58.0-60.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-39	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

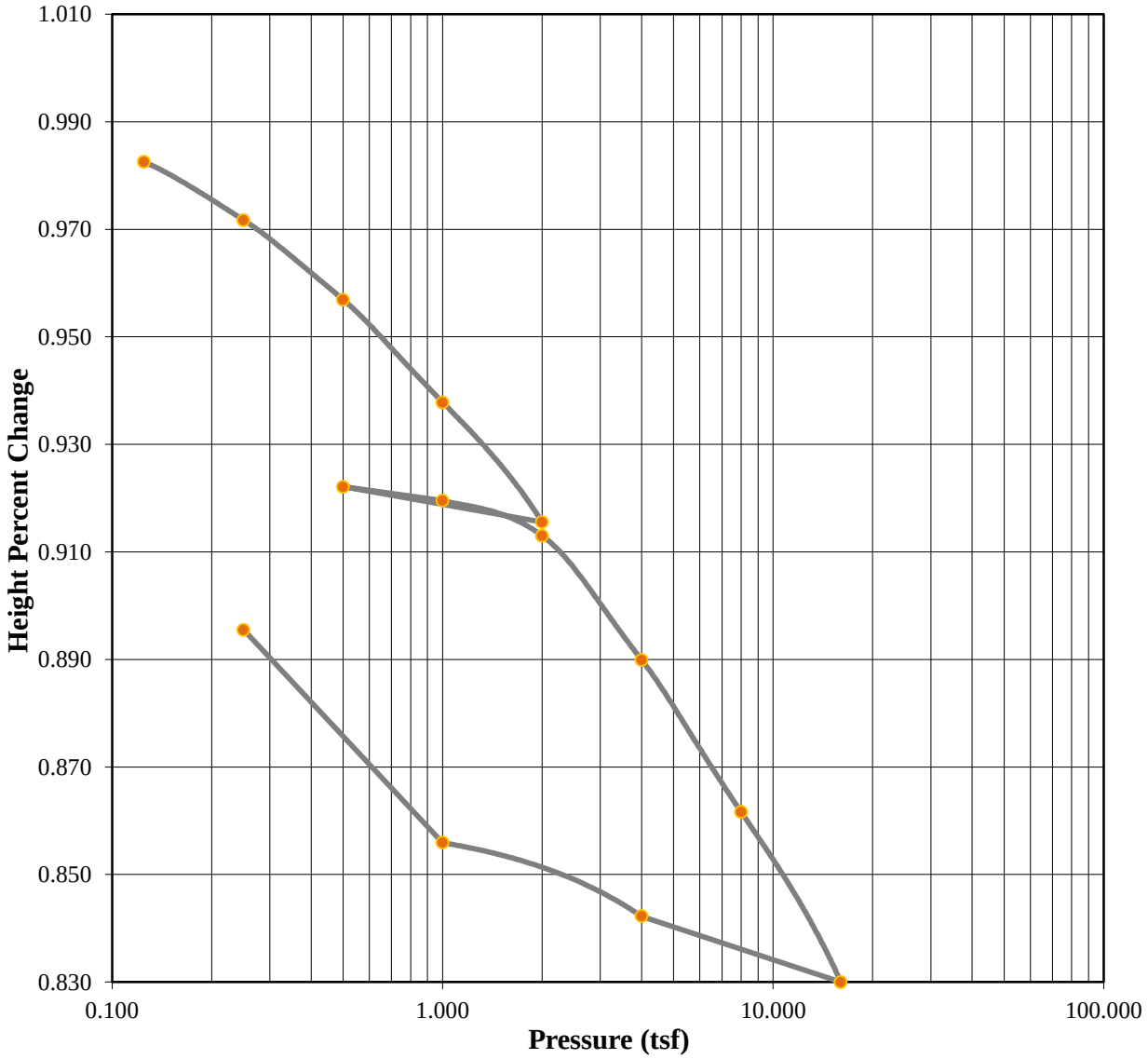
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	39	**Test Date:**	7/24/17
Moisture (%):	29.47	22.46	**Plastic Limits:**	14		
Dry Density (pcf):	95.20	105.70	**Plasticity Index (%):**	0		
Saturation (%):	158.41	185.74				
Void Ratio:	0.3939	0.2477	**Specific Gravity:**	2.129	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(13))			
Project Number:	7985	**Depth:**	58.0-60.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-39	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	29.47	22.46	**Liquid Limits:**	39	**Test Date:**	7/24/17
Dry Density (pcf):	95.20	105.70	**Plastic Limits:**	14		
Saturation (%):	158.41	185.74	**Plasticity Index (%):**	0		
Void Ratio:	0.3939	0.2477	**Specific Gravity:**	2.129	Measured	

Soil Description:	SANDY LEAN CLAY(CL A-6(13))			
Project Number:	7985	**Depth:**	58.0-60.0 ft.	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-39	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7985

Sample Number: T-5
Boring Number: BW-39
Depth: 58.0-60.0 ft.
Sample Type: Undisturbed

Sample Description: SANDY LEAN CLAY(CL A-6(13))
Remarks:

Test Number:
Test Date: 7/24/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0010	0.2827	0.00	0.3936	0.000	0.000	0.000	0.000
1	0.125	0.0180	0.9830	0.2648	1.79	0.3686	0.000	0.000	0.000	0.000
2	0.250	0.0288	0.9722	0.2539	2.88	0.3535	3.931	3.172	186.062	53.571
3	0.500	0.0436	0.9574	0.2391	4.36	0.3329	2.380	1.281	298.016	128.607
4	1.000	0.0627	0.9383	0.2200	6.27	0.3063	1.302	1.181	523.166	133.994
5	2.000	0.0850	0.9160	0.1977	8.49	0.2753	1.831	0.769	354.615	196.223
6	0.500	0.0784	0.9226	0.2043	7.83	0.2844	0.000	0.000	0.000	0.000
7	1.000	0.0810	0.9200	0.2017	8.09	0.2809	1.006	* 0.5591	650.843	272.147
8	2.000	0.0875	0.9135	0.1952	8.75	0.2717	1.433	0.715	450.687	209.904
9	4.000	0.1106	0.8904	0.1721	11.05	0.2396	1.428	0.861	429.484	165.487
10	8.000	0.1389	0.8621	0.1439	13.87	0.2003	1.141	0.702	504.191	190.333
11	16.000	0.1705	0.8305	0.1122	17.03	0.1562	1.170	0.593	456.171	209.015
12	4.000	0.1583	0.8427	0.1245	15.81	0.1733	0.000	0.000	0.000	0.000
13	1.000	0.1446	0.8564	0.1381	14.44	0.1923	0.000	0.000	0.000	0.000
14	0.250	0.1050	0.8960	0.1777	10.49	0.2474	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7985
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 7/24/17

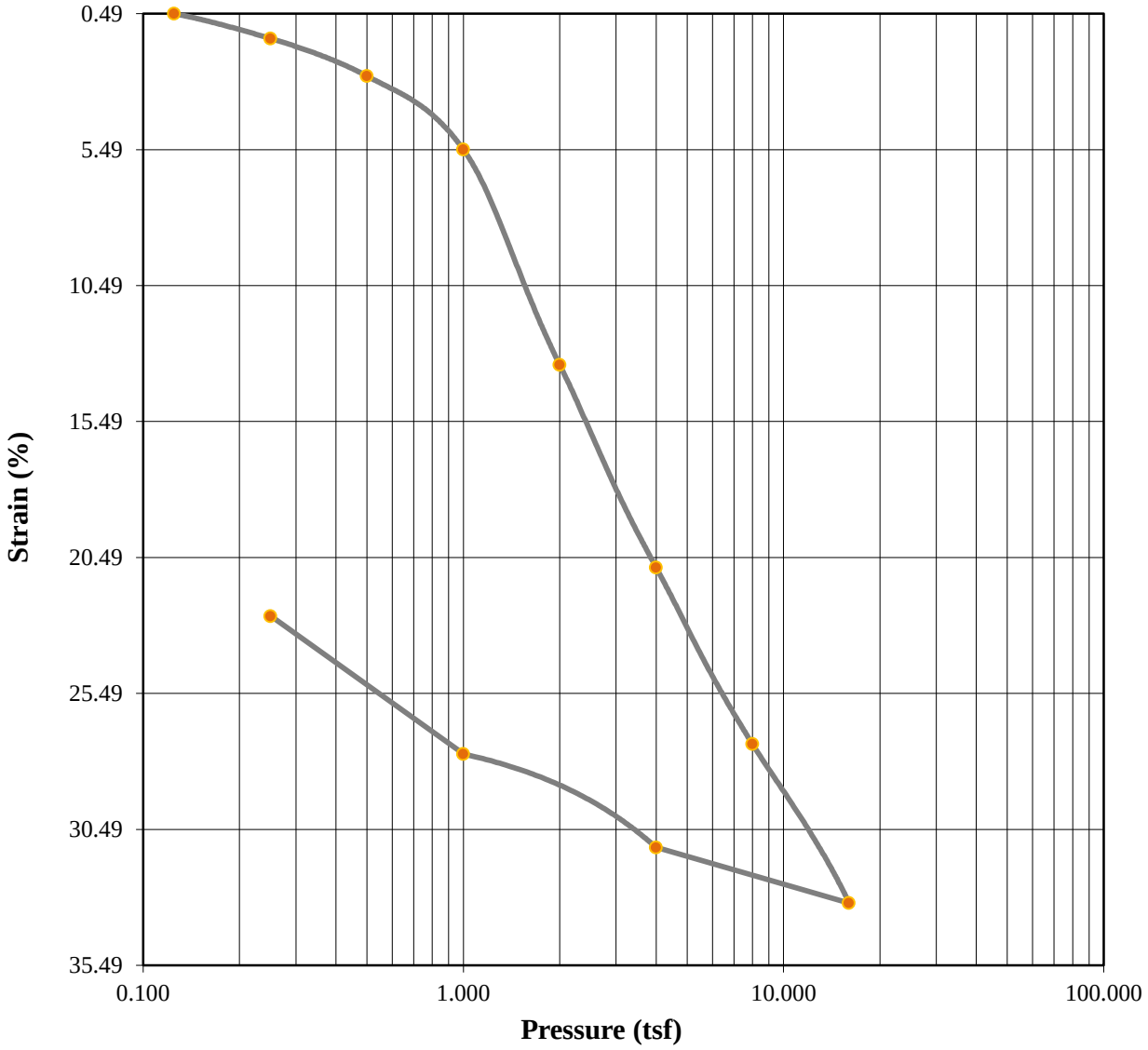
Sample Number: T-5 **Sample Description:**
Boring Number: BW-39 SANDY LEAN CLAY(CL A-6(13))
Depth: 58.0-60.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 39.0000 **Initial Void Ratio:** 0.3939 **Initial Height (in):** 1.0010
Plastic Limit: 14.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4960
Specific Gravity: 2.1290 **Weight of Ring (g):** 111.1000
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	102.85	276.44
Dry Soil + Container (g)	85.60	249.23
Weight of Container (g)	27.06	128.07
Moisture Content (%)	29.47	22.46
Void Ratio	0.3939	0.2477
Saturation (%)	158.41	185.74
Dry Density (pcf)	95.20	105.70

Tested By: B. Hak **Checked By:** C. Dugger

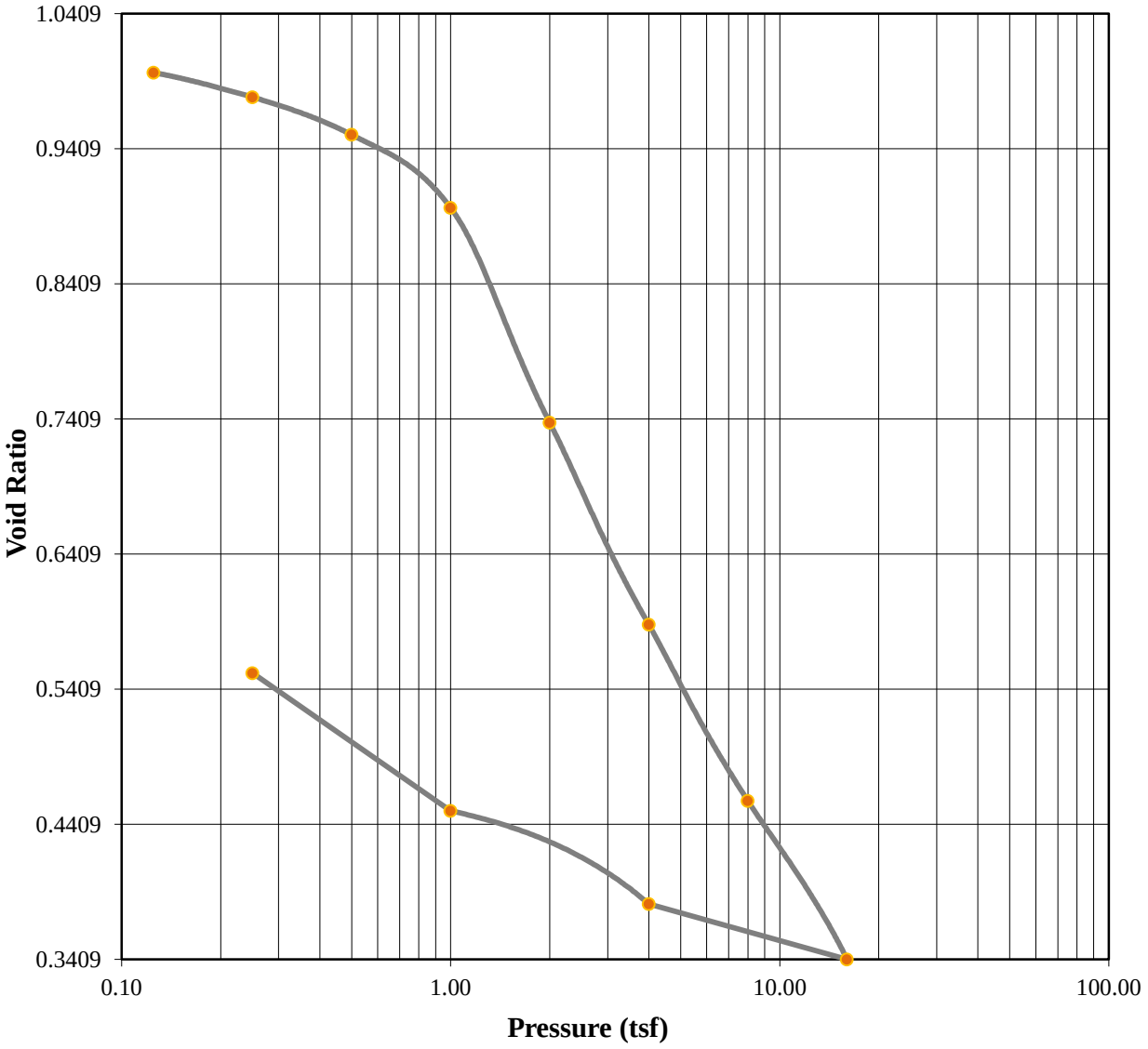
Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.77	30.39	**Liquid Limits:**	71	**Test Date:**	9/14/16
Dry Density (pcf):	74.30	92.37	**Plastic Limits:**	24		
Saturation (%):	103.63	117.80	**Plasticity Index (%):**	0		
Void Ratio:	1.0068	0.5525	**Specific Gravity:**	2.393	Assumed	

Sample Description:	FAT CLAY with SAND(CH A-7-6(39))			
Project Number:	7800	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

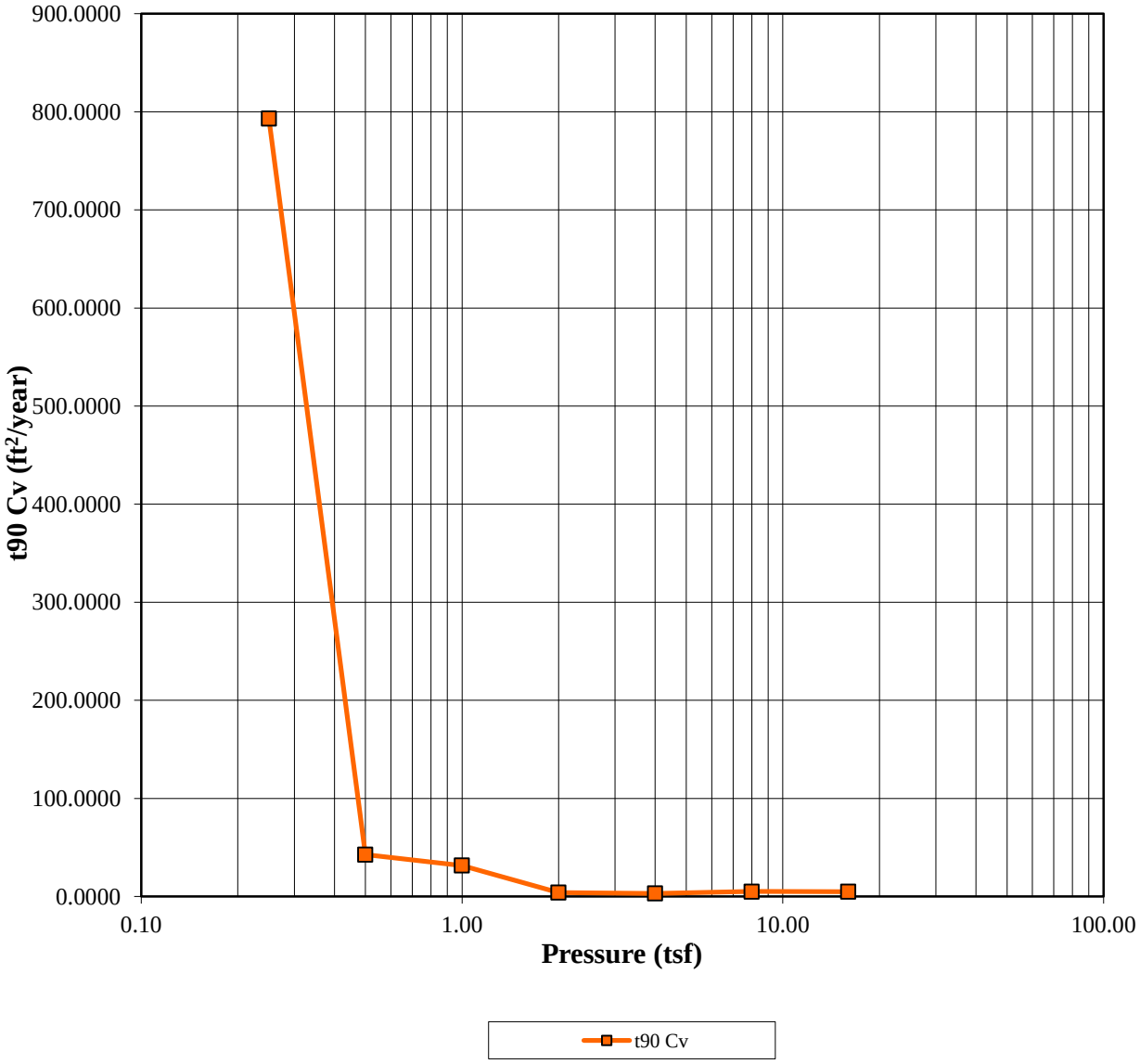
Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.77	30.39	**Liquid Limits:**	71	**Test Date:**	9/14/16
Dry Density (pcf):	74.30	92.37	**Plastic Limits:**	24		
Saturation (%):	103.63	117.80	**Plasticity Index (%):**	0		
Void Ratio:	1.0068	0.5525	**Specific Gravity:**	2.393	Assumed	

Soil Description:	FAT CLAY with SAND(CH A-7-6(39))			
Project Number:	7800	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

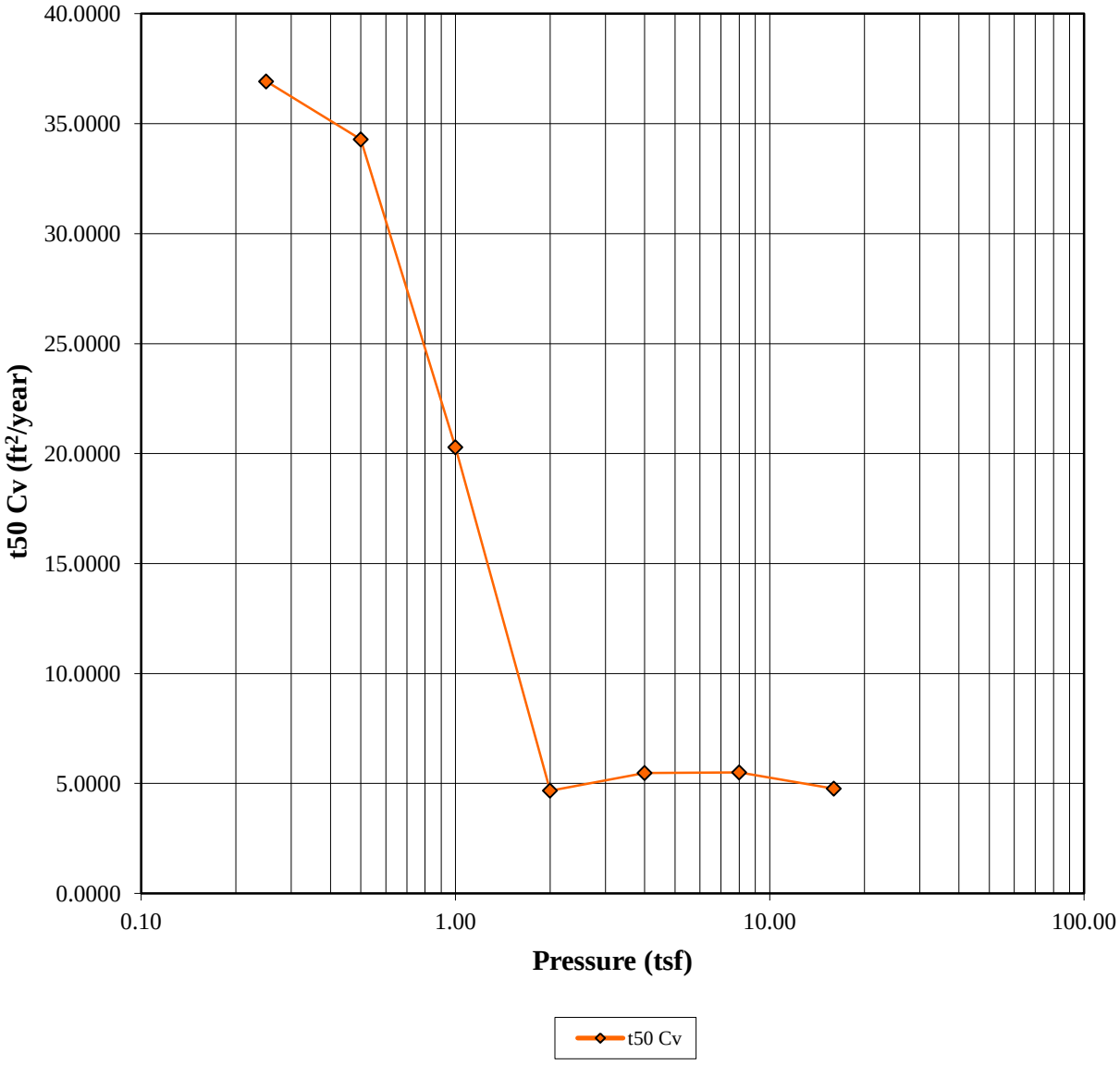
Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.77	30.39	**Liquid Limits:**	71	**Test Date:**	9/14/16
Dry Density (pcf):	74.30	92.37	**Plastic Limits:**	24		
Saturation (%):	103.63	117.80	**Plasticity Index (%):**	0		
Void Ratio:	1.0068	0.5525	**Specific Gravity:**	2.393	Assumed	

Soil Description:	FAT CLAY with SAND(CH A-7-6(39))			
Project Number:	7800	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

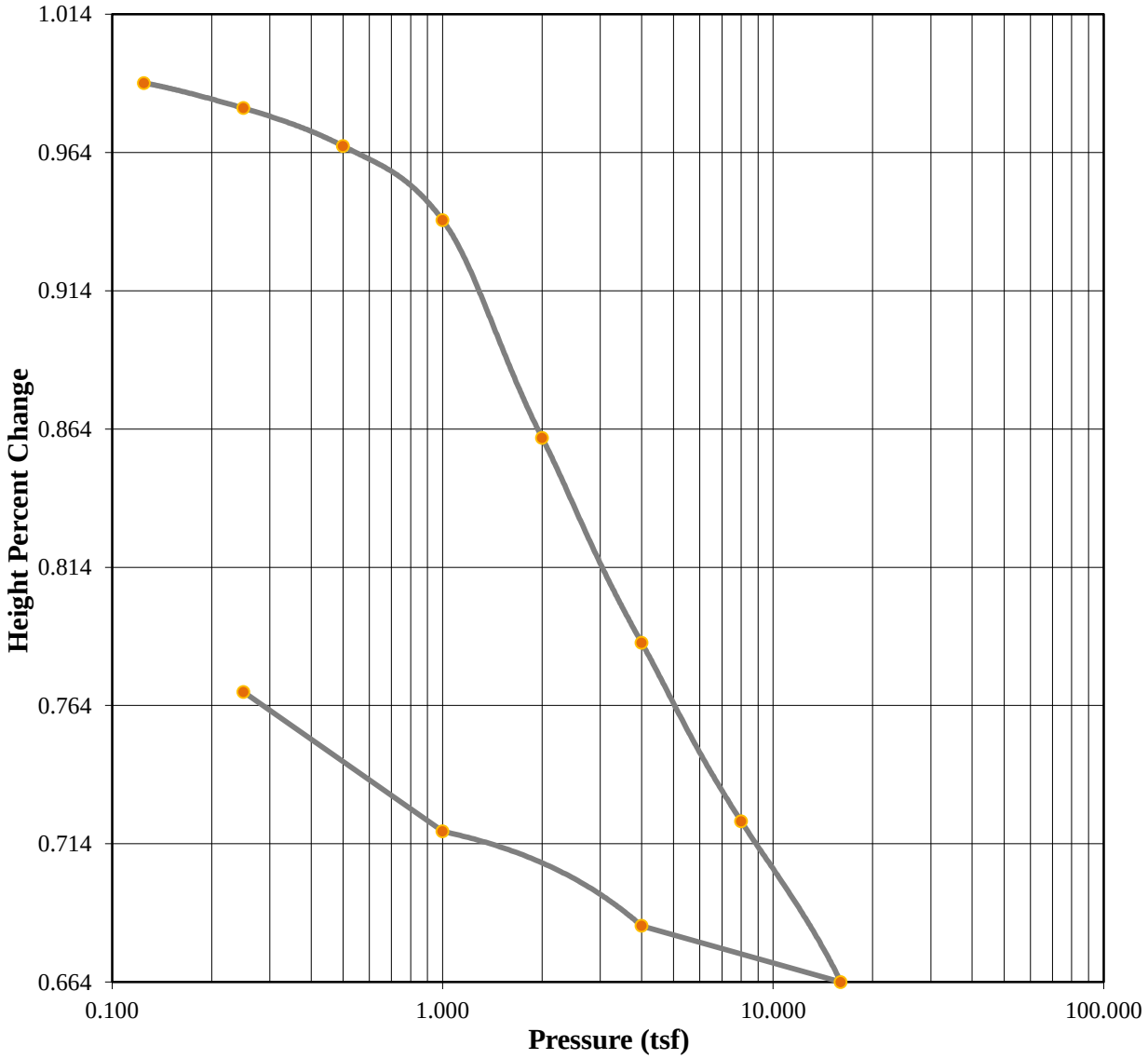
Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.77	30.39	**Liquid Limits:**	71	**Test Date:**	9/14/16
Dry Density (pcf):	74.30	92.37	**Plastic Limits:**	24		
Saturation (%):	103.63	117.80	**Plasticity Index (%):**	0		
Void Ratio:	1.0068	0.5525	**Specific Gravity:**	2.393	Assumed	

Soil Description:	FAT CLAY with SAND(CH A-7-6(39))			
Project Number:	7800	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	43.77	30.39	**Liquid Limits:**	71	**Test Date:**	9/14/16
Dry Density (pcf):	74.30	92.37	**Plastic Limits:**	24		
Saturation (%):	103.63	117.80	**Plasticity Index (%):**	0		
Void Ratio:	1.0068	0.5525	**Specific Gravity:**	2.393	Assumed	

Soil Description:	FAT CLAY with SAND(CH A-7-6(39))			
Project Number:	7800	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7800

Sample Number: T-3
Boring Number: BW-44
Depth: 38.5-40.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY with SAND(CH A-7-6(39))
Remarks:

Test Number:
Test Date: 9/14/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.4988	0.00	1.0071	0.000	0.000	0.000	0.000
1	0.125	0.0048	0.9892	0.4939	0.49	0.9973	0.000	0.000	0.000	0.000
2	0.250	0.0139	0.9801	0.4849	1.40	0.9791	0.937	4.677	793.104	36.921
3	0.500	0.0276	0.9664	0.4711	2.78	0.9513	16.917	4.896	42.716	34.285
4	1.000	0.0544	0.9396	0.4443	5.48	0.8972	21.641	7.820	31.564	20.292
5	2.000	0.1331	0.8609	0.3656	13.40	0.7382	139.259	28.517	4.118	4.671
6	4.000	0.2072	0.7868	0.2915	20.85	0.5887	152.753	20.311	3.136	5.479
7	8.000	0.2718	0.7222	0.2269	27.35	0.4583	79.812	17.046	5.057	5.500
8	16.000	0.3299	0.6641	0.1688	33.19	0.3409	69.994	16.649	4.876	4.762
9	4.000	0.3096	0.6844	0.1892	31.15	0.3820	0.000	0.000	0.000	0.000
10	1.000	0.2754	0.7186	0.2233	27.71	0.4509	0.000	0.000	0.000	0.000
11	0.250	0.2250	0.7690	0.2738	22.64	0.5528	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7800
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 9/14/16

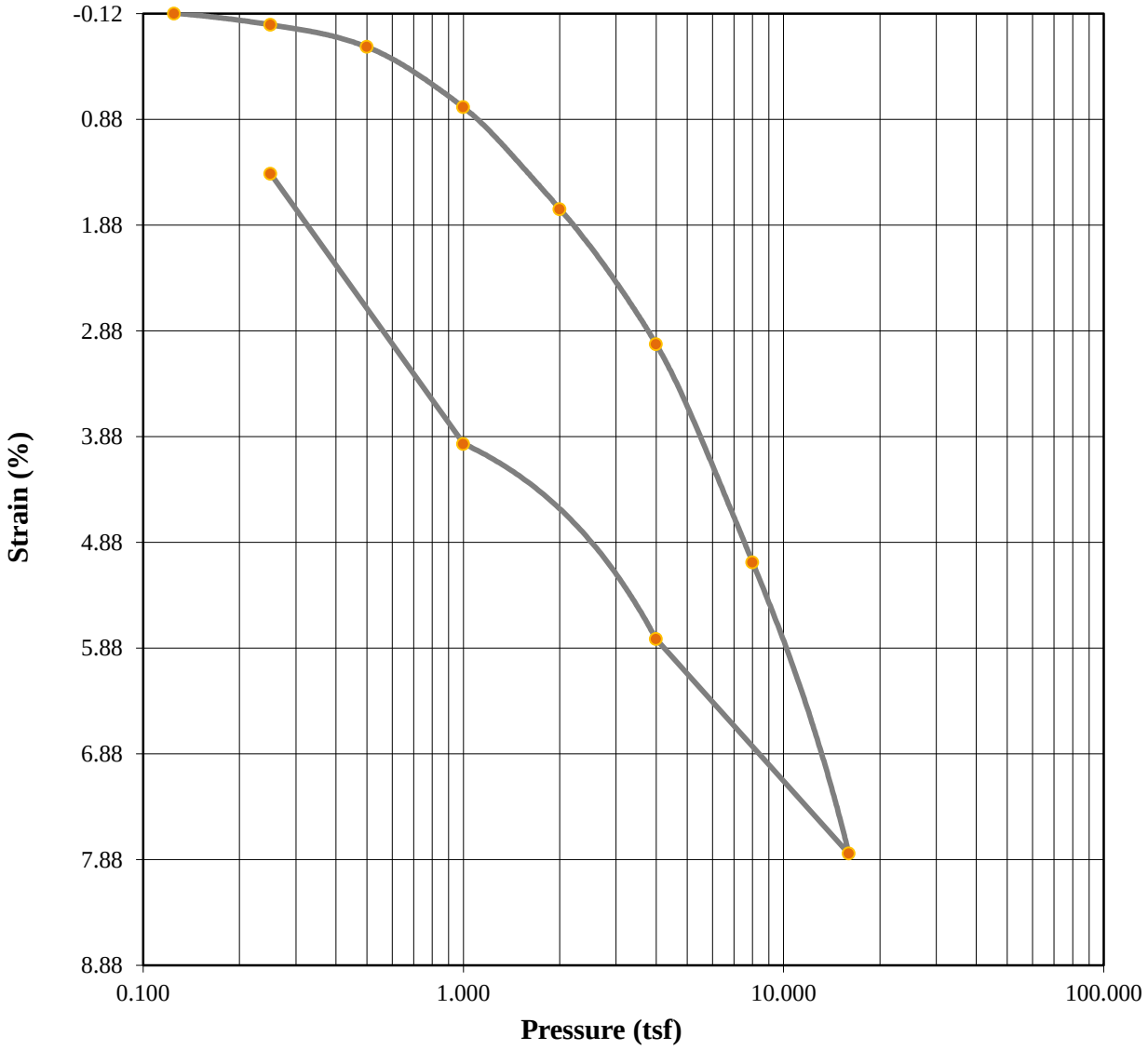
Sample Number: T-3 **Sample Description:**
Boring Number: BW-44 FAT CLAY with SAND(CH A-7-6(39))
Depth: 38.5-40.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 71.0000 **Initial Void Ratio:** 1.0068 **Initial Height (in):** 0.9940
Plastic Limit: 24.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5020
Specific Gravity: 2.3930 Assumed **Weight of Ring (g):** 98.6800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	103.44	247.45
Dry Soil + Container (g)	81.71	219.75
Weight of Container (g)	32.06	128.60
Moisture Content (%)	43.77	30.39
Void Ratio	1.0068	0.5525
Saturation (%)	103.63	117.80
Dry Density (pcf)	74.30	92.37

Tested By: B. Hak **Checked By:** C. Dugger

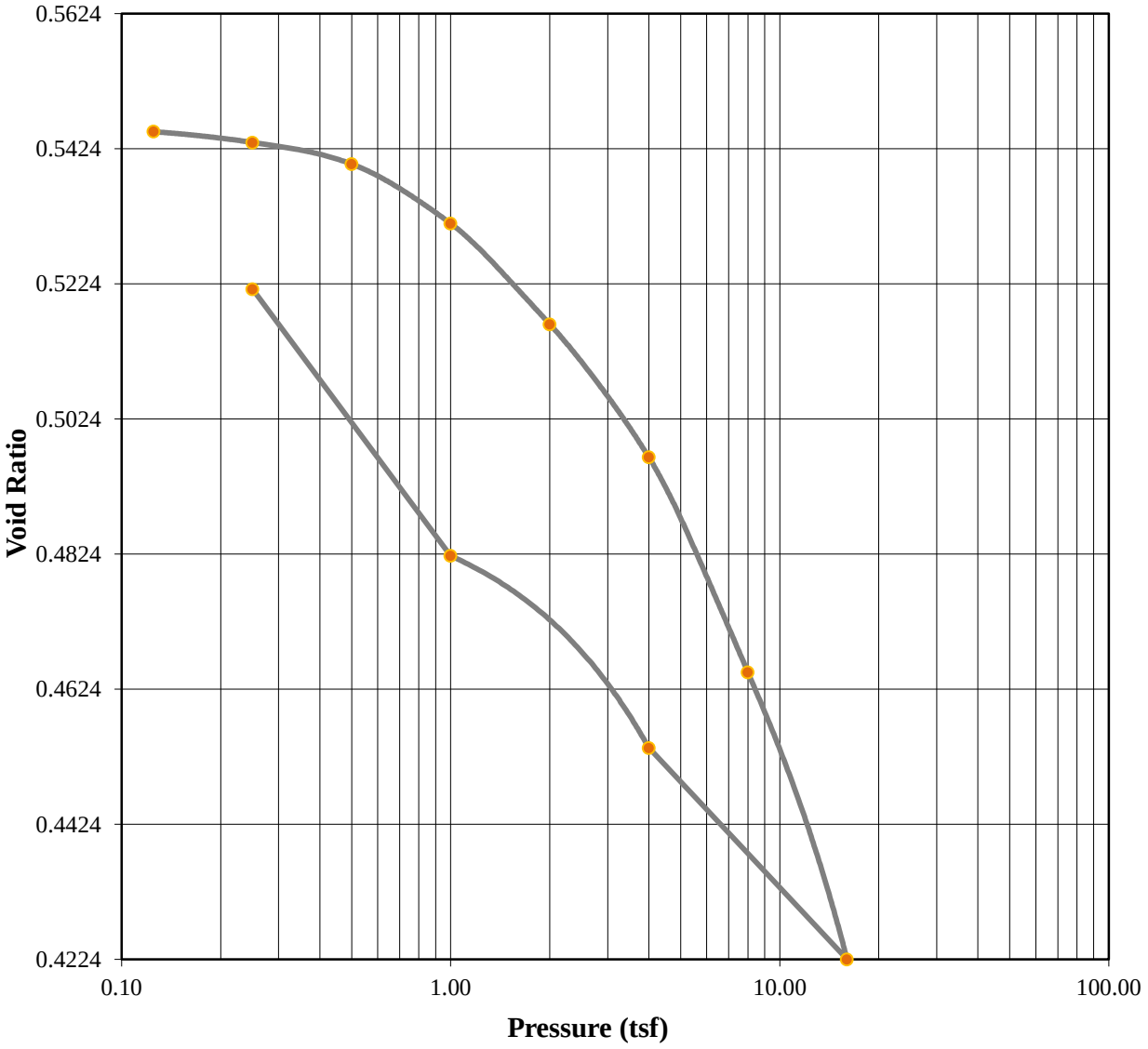
Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.37	21.94	**Liquid Limits:**	54	**Test Date:**	9/20/16
Dry Density (pcf):	105.28	107.14	**Plastic Limits:**	16		
Saturation (%):	106.83	110.20	**Plasticity Index (%):**	0		
Void Ratio:	0.5454	0.5238	**Specific Gravity:**	2.607	Measured	

Sample Description:	FAT CLAY(CH A-7-6(34))			
Project Number:	7800	**Depth:**	108.5-110.5 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

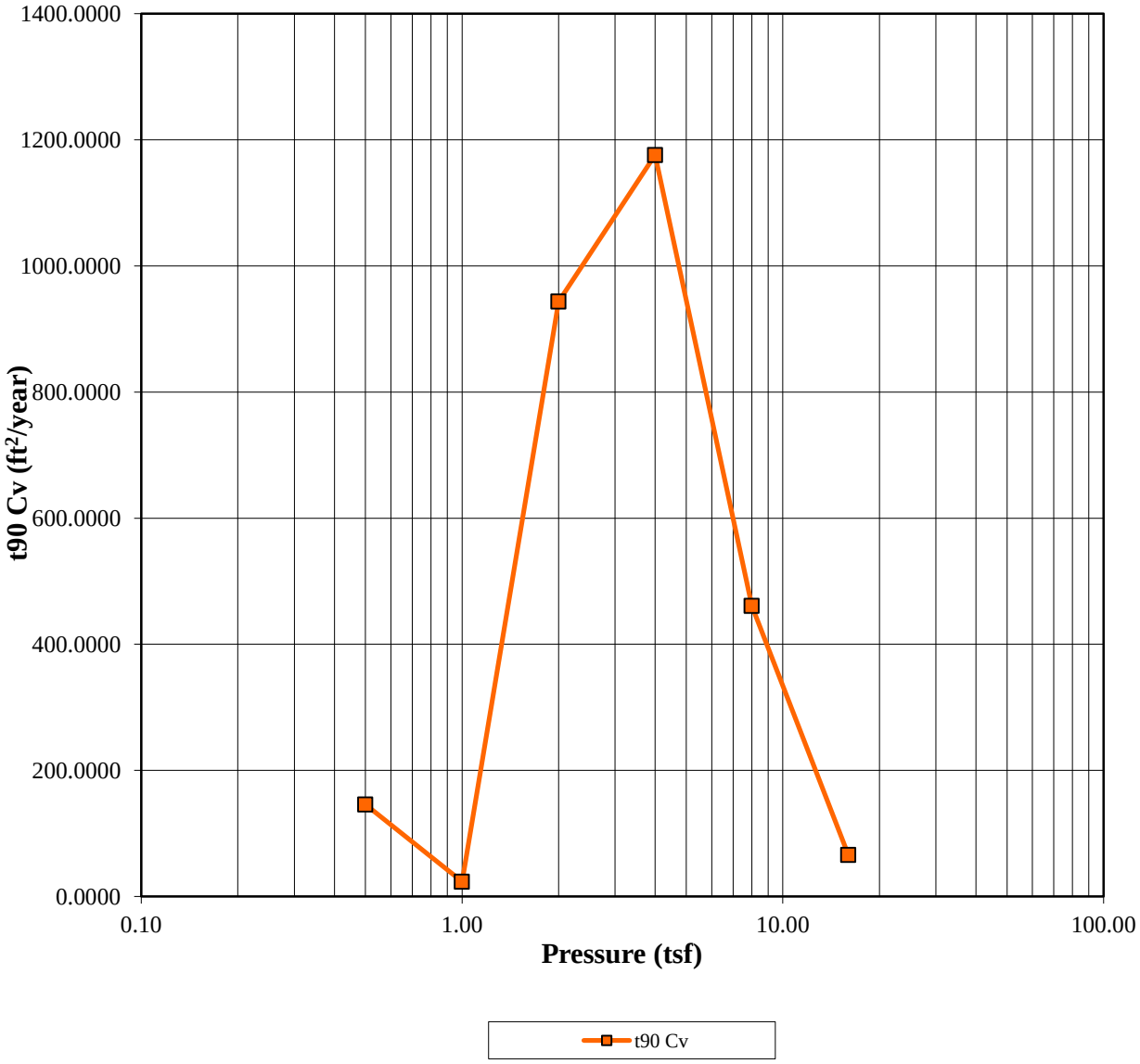
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	54	**Test Date:**	9/20/16
Moisture (%):	22.37	21.94	**Plastic Limits:**	16		
Dry Density (pcf):	105.28	107.14	**Plasticity Index (%):**	0		
Saturation (%):	106.83	110.20				
Void Ratio:	0.5454	0.5238	**Specific Gravity:**	2.607	Measured	

Soil Description:	FAT CLAY(CH A-7-6(34))			
Project Number:	7800	**Depth:**	108.5-110.5 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

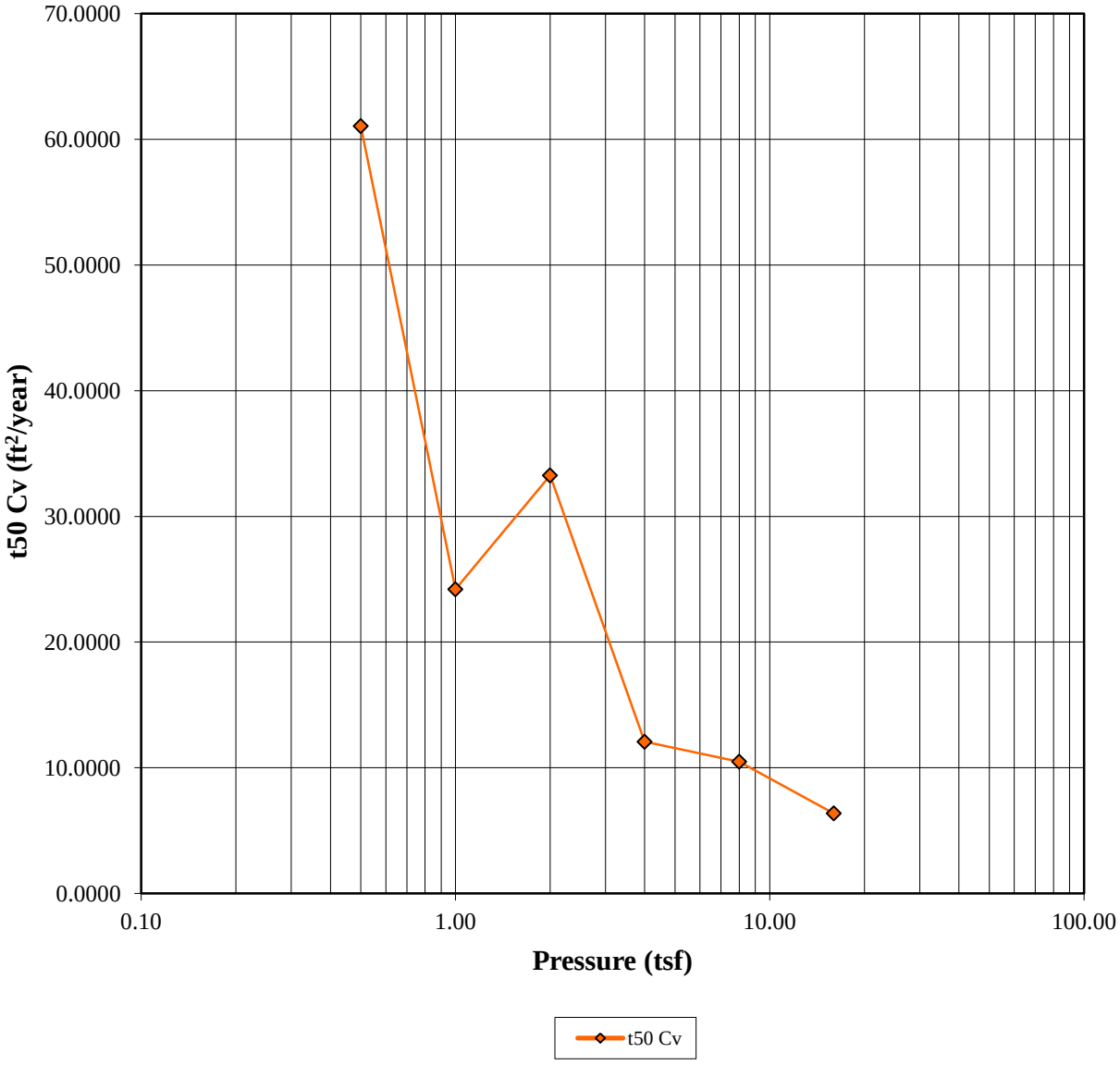
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	54	**Test Date:**	9/20/16
Moisture (%):	22.37	21.94	**Plastic Limits:**	16		
Dry Density (pcf):	105.28	107.14	**Plasticity Index (%):**	0		
Saturation (%):	106.83	110.20				
Void Ratio:	0.5454	0.5238	**Specific Gravity:**	2.607	Measured	

Soil Description:	FAT CLAY(CH A-7-6(34))			
Project Number:	7800	**Depth:**	108.5-110.5 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

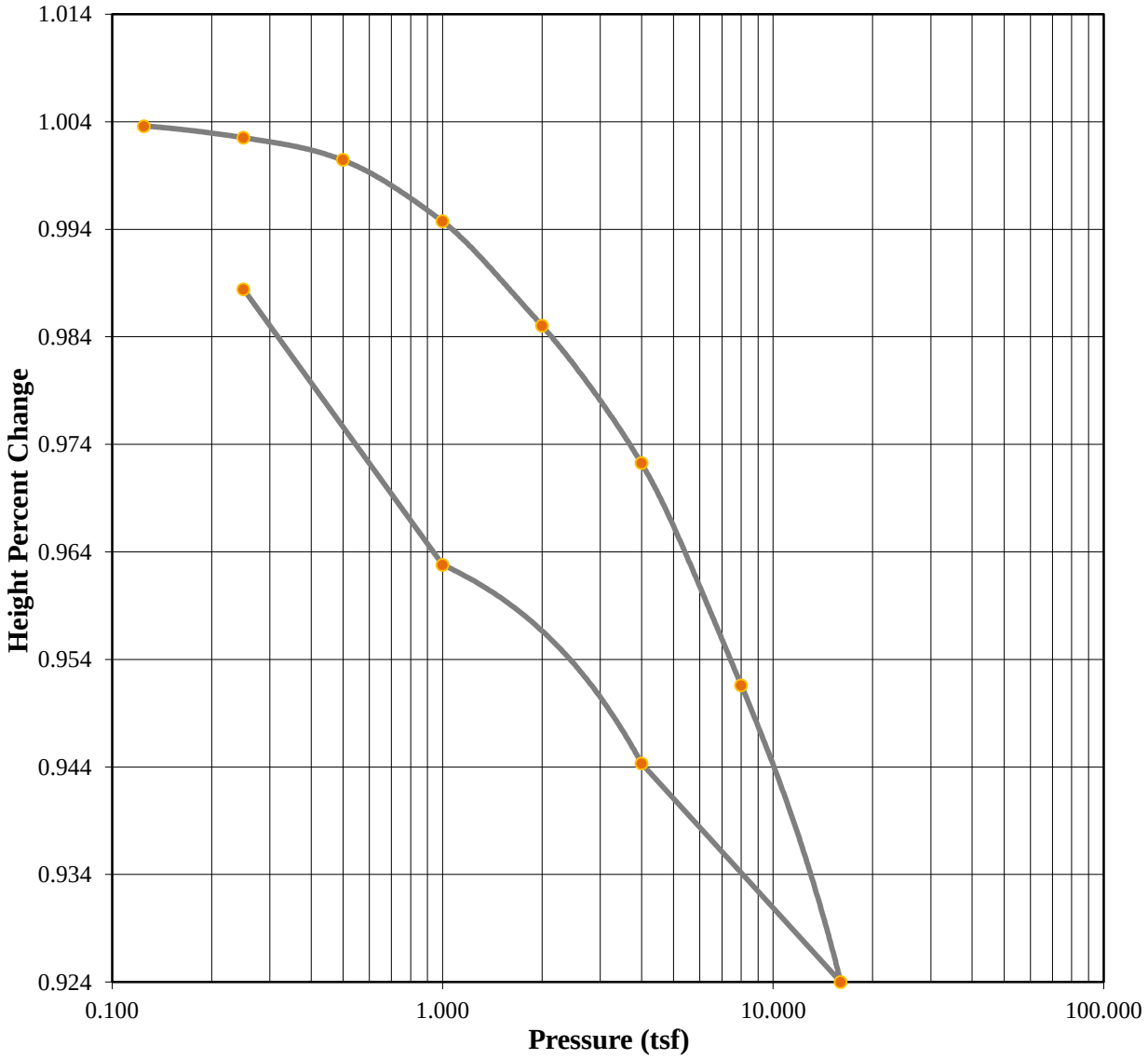
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	54	**Test Date:**	9/20/16
Moisture (%):	22.37	21.94	**Plastic Limits:**	16		
Dry Density (pcf):	105.28	107.14	**Plasticity Index (%):**	0		
Saturation (%):	106.83	110.20				
Void Ratio:	0.5454	0.5238	**Specific Gravity:**	2.607	Measured	

Soil Description:	FAT CLAY(CH A-7-6(34))			
Project Number:	7800	**Depth:**	108.5-110.5 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.37	21.94	**Liquid Limits:**	54	**Test Date:**	9/20/16
Dry Density (pcf):	105.28	107.14	**Plastic Limits:**	16		
Saturation (%):	106.83	110.20	**Plasticity Index (%):**	0		
Void Ratio:	0.5454	0.5238	**Specific Gravity:**	2.607	Measured	

Soil Description:	FAT CLAY(CH A-7-6(34))			
Project Number:	7800	**Depth:**	108.5-110.5 f	**Remarks:**
Sample Number:	T-5	**Boring Number:**	BW-44	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7800

Sample Number: T-5
Boring Number: BW-44
Depth: 108.5-110.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(34))
Remarks:

Test Number:
Test Date: 9/20/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0020	0.3527	0.00	0.5431	0.000	0.000	0.000	0.000
1	0.125	-0.0012	1.0032	0.3538	-0.12	0.5449	0.000	0.000	0.000	0.000
2	0.250	-0.0001	1.0021	0.3528	-0.01	0.5433	0.000	0.000	0.000	0.000
3	0.500	0.0020	1.0000	0.3507	0.20	0.5401	5.300	* 2.9444	146.013	61.056
4	1.000	0.0077	0.9943	0.3450	0.77	0.5313	32.588	7.343	23.476	24.204
5	2.000	0.0174	0.9846	0.3353	1.73	0.5164	0.795	5.238	943.639	33.270
6	4.000	0.0302	0.9718	0.3225	3.01	0.4967	0.622	14.063	1175.842	12.073
7	8.000	0.0508	0.9512	0.3018	5.07	0.4649	1.518	15.506	461.192	10.489
8	16.000	0.0784	0.9236	0.2743	7.83	0.4224	9.970	24.077	66.206	6.369
9	4.000	0.0581	0.9439	0.2946	5.80	0.4537	0.000	0.000	0.000	0.000
10	1.000	0.0396	0.9624	0.3130	3.95	0.4821	0.000	0.000	0.000	0.000
11	0.250	0.0140	0.9880	0.3387	1.40	0.5216	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7800
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 9/20/16

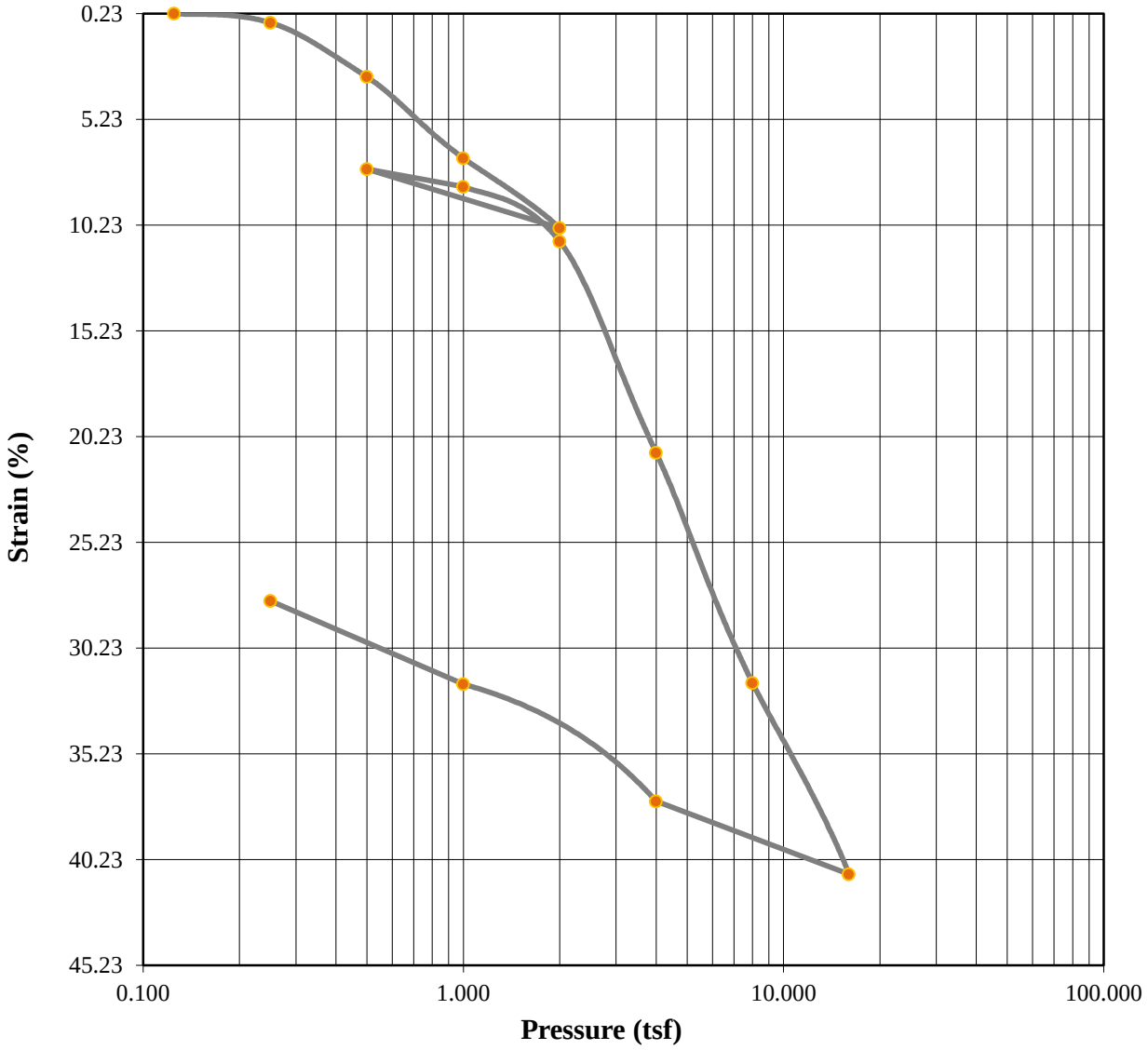
Sample Number: T-5 **Sample Description:**
Boring Number: BW-44 FAT CLAY(CH A-7-6(34))
Depth: 108.5-110.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 54.0000 **Initial Void Ratio:** 0.5454 **Initial Height (in):** 1.0020
Plastic Limit: 16.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5030
Specific Gravity: 2.6070 Measured **Weight of Ring (g):** 111.1100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	105.73	296.02
Dry Soil + Container (g)	90.98	266.11
Weight of Container (g)	25.05	129.80
Moisture Content (%)	22.37	21.94
Void Ratio	0.5454	0.5238
Saturation (%)	106.83	110.20
Dry Density (pcf)	105.28	107.14

Tested By: B. Hak **Checked By:** C. Dugger

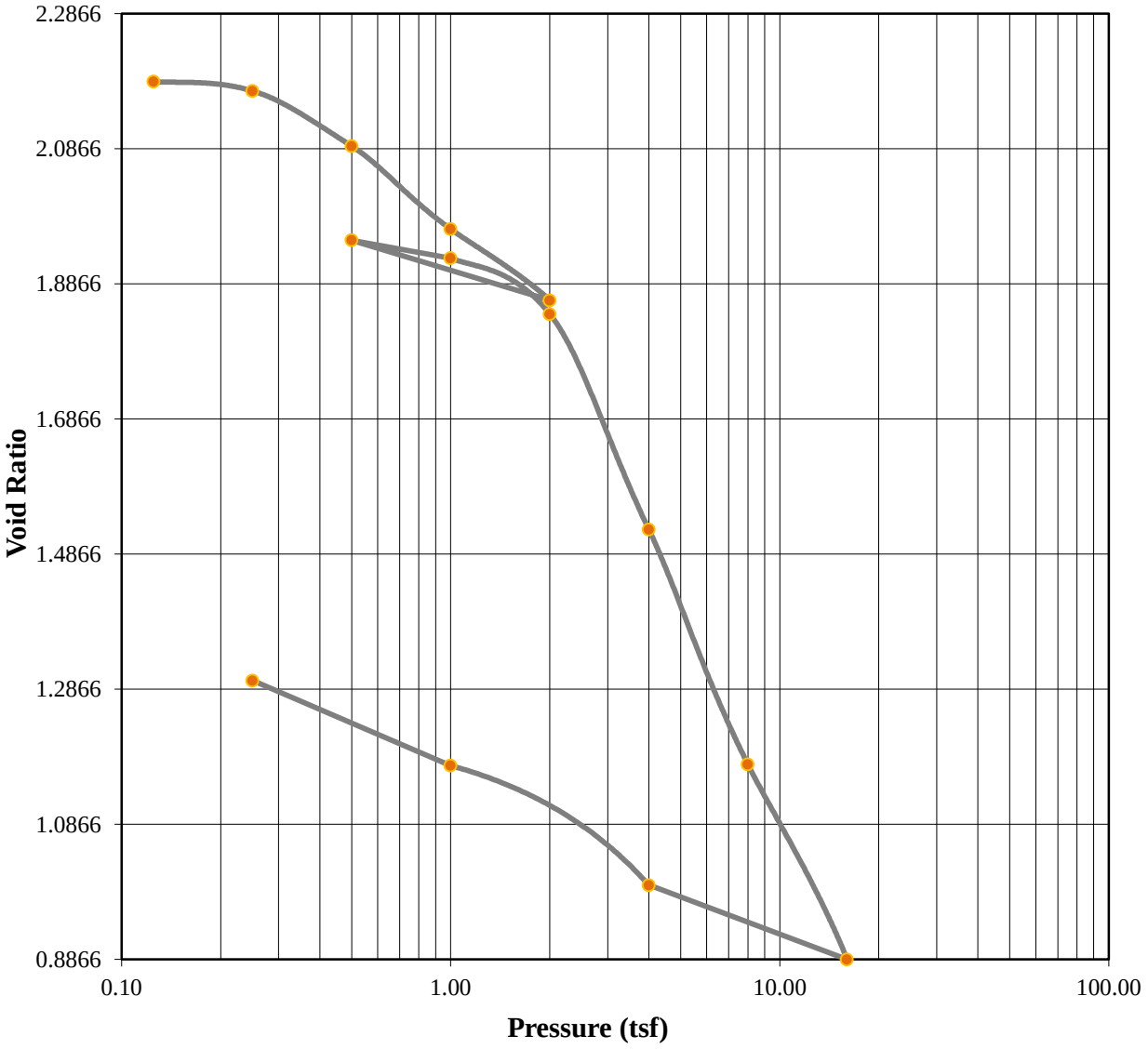
Consolidation Test
Test Results



	Before	After				
Moisture (%):	102.75	60.80	**Liquid Limits:**	0	**Test Date:**	12/13/16
Dry Density (pcf):	43.77	62.59	**Plastic Limits:**	0		
Saturation (%):	104.81	110.22	**Plasticity Index (%):**	0		
Void Ratio:	2.1895	1.2965	**Specific Gravity:**	2.243	Measured	

Sample Description:	SILT with SAND(ML A-4(0))			
Project Number:	7816	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-46	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

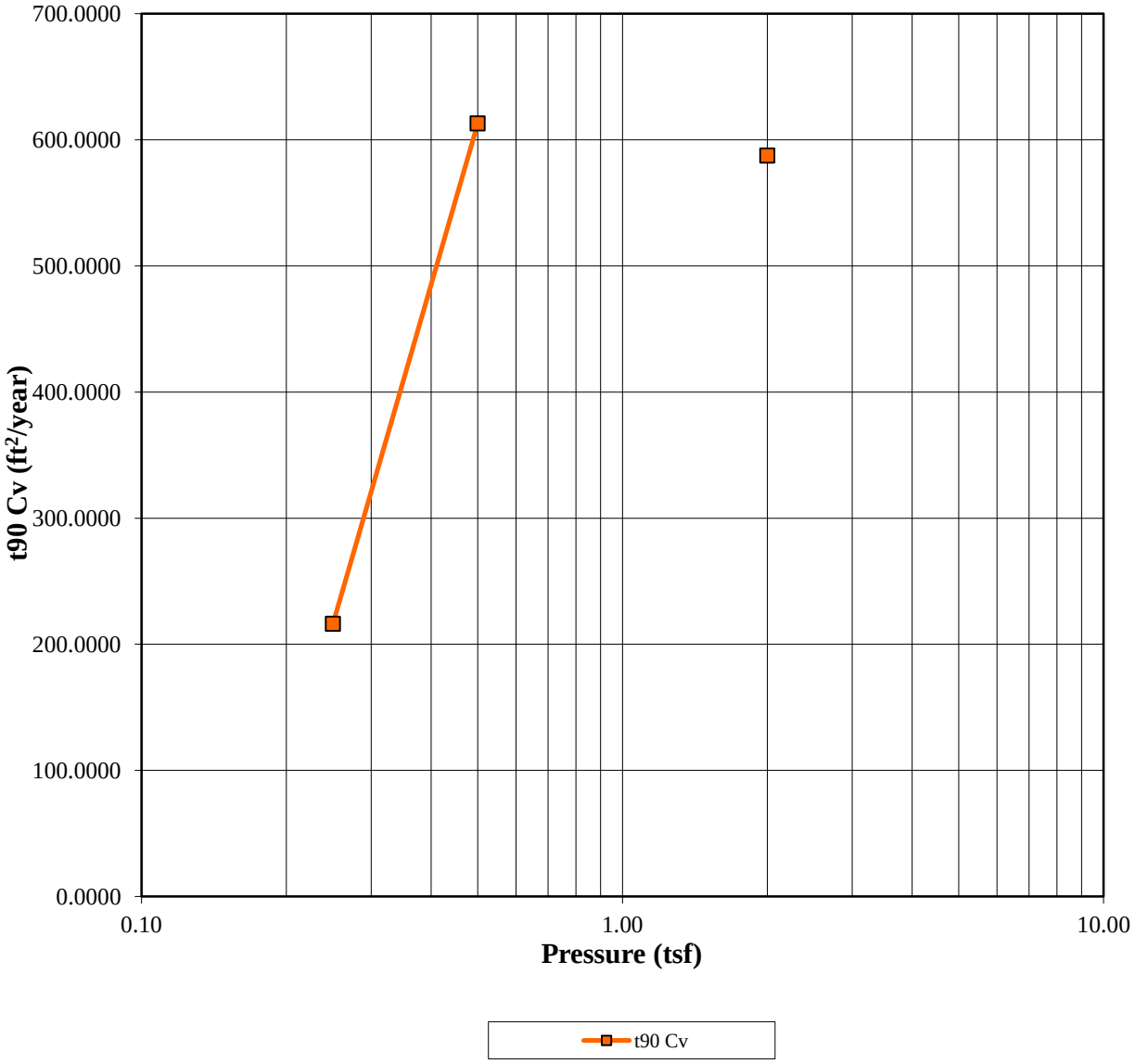
Consolidation Test
Test Results



	Before	After				
Moisture (%):	102.75	60.80	**Liquid Limits:**	0	**Test Date:**	12/13/16
Dry Density (pcf):	43.77	62.59	**Plastic Limits:**	0		
Saturation (%):	104.81	110.22	**Plasticity Index (%):**	0		
Void Ratio:	2.1895	1.2965	**Specific Gravity:**	2.243	Measured	

Soil Description:	SILT with SAND(ML A-4(0))			
Project Number:	7816	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-46	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

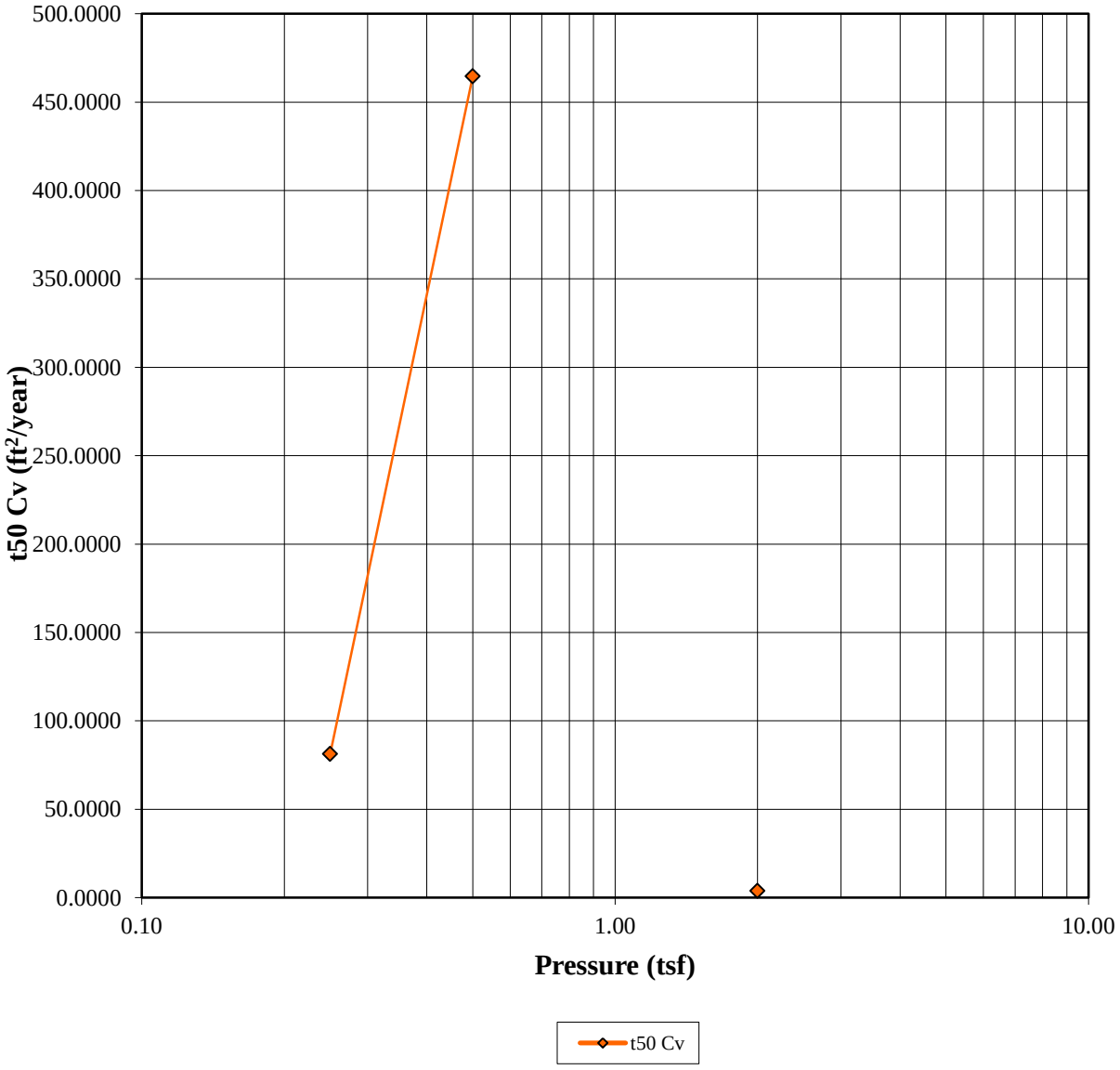
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	12/13/16
Moisture (%):	102.75	60.80	**Plastic Limits:**	0		
Dry Density (pcf):	43.77	62.59	**Plasticity Index (%):**	0		
Saturation (%):	104.81	110.22				
Void Ratio:	2.1895	1.2965	**Specific Gravity:**	2.243	Measured	

Soil Description:	SILT with SAND(ML A-4(0))			
Project Number:	7816	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-46	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

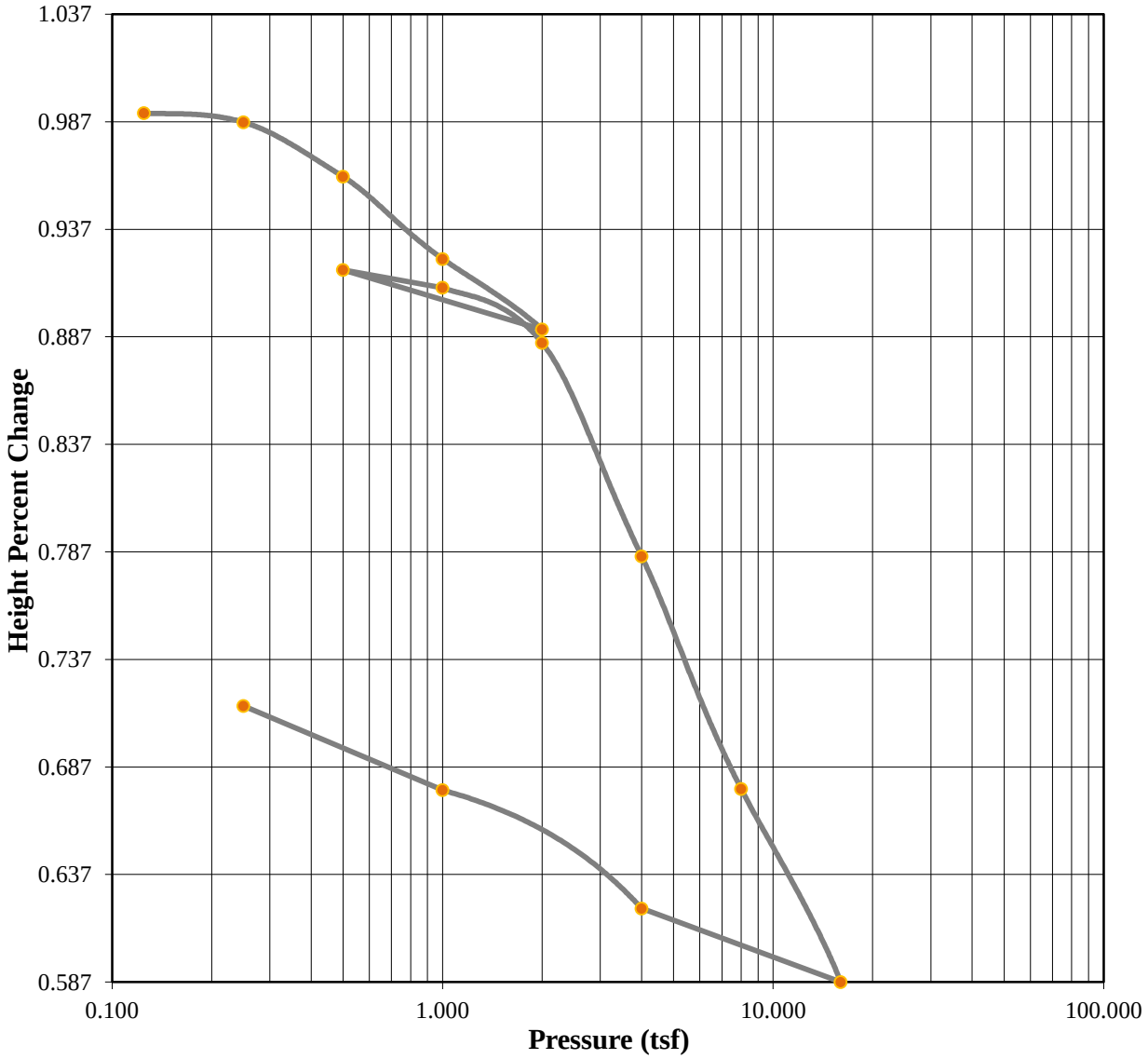
Consolidation Test
Test Results



	Before	After				
Moisture (%):	102.75	60.80	**Liquid Limits:**	0	**Test Date:**	12/13/16
Dry Density (pcf):	43.77	62.59	**Plastic Limits:**	0		
Saturation (%):	104.81	110.22	**Plasticity Index (%):**	0		
Void Ratio:	2.1895	1.2965	**Specific Gravity:**	2.243	Measured	

Soil Description:	SILT with SAND(ML A-4(0))			
Project Number:	7816	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-46	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	102.75	60.80	**Liquid Limits:**	0	**Test Date:**	12/13/16
Dry Density (pcf):	43.77	62.59	**Plastic Limits:**	0		
Saturation (%):	104.81	110.22	**Plasticity Index (%):**	0		
Void Ratio:	2.1895	1.2965				
			Specific Gravity:	2.243	Measured	

Soil Description:	SILT with SAND(ML A-4(0))			
Project Number:	7816	**Depth:**	43.5-45.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-46	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7816

Sample Number: T-3
Boring Number: BW-46
Depth: 43.5-45.5 ft.
Sample Type: Undisturbed

Sample Description: SILT with SAND(ML A-4(0))
Remarks:

Test Number:
Test Date: 12/13/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9930	0.6820	0.00	2.1933	0.000	0.000	0.000	0.000
1	0.125	0.0023	0.9907	0.6798	0.23	2.1860	0.000	0.000	0.000	0.000
2	0.250	0.0066	0.9864	0.6755	0.66	2.1722	3.483	2.152	216.160	81.292
3	0.500	0.0319	0.9611	0.6501	3.22	2.0906	1.166	0.357	613.007	464.704
4	1.000	0.0701	0.9229	0.6119	7.06	1.9677	0.000	0.000	0.000	0.000
5	2.000	0.1029	0.8901	0.5791	10.37	1.8623	1.044	37.072	587.458	3.841
6	0.500	0.0753	0.9177	0.6068	7.58	1.9512	0.000	0.000	0.000	0.000
7	1.000	0.0835	0.9095	0.5985	8.41	1.9246	9.858	7.854	64.925	18.932
8	2.000	0.1092	0.8838	0.5728	11.00	1.8421	21.506	9.472	28.104	14.823
9	4.000	0.2084	0.7846	0.4736	20.99	1.5230	187.908	38.565	2.535	2.869
10	8.000	0.3165	0.6765	0.3655	31.87	1.1755	283.525	47.293	1.249	1.739
11	16.000	0.4063	0.5867	0.2757	40.92	0.8866	297.217	43.162	0.896	1.433
12	4.000	0.3721	0.6209	0.3099	37.47	0.9967	0.000	0.000	0.000	0.000
13	1.000	0.3171	0.6759	0.3650	31.93	1.1736	0.000	0.000	0.000	0.000
14	0.250	0.2780	0.7150	0.4040	28.00	1.2993	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7816
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 12/13/16

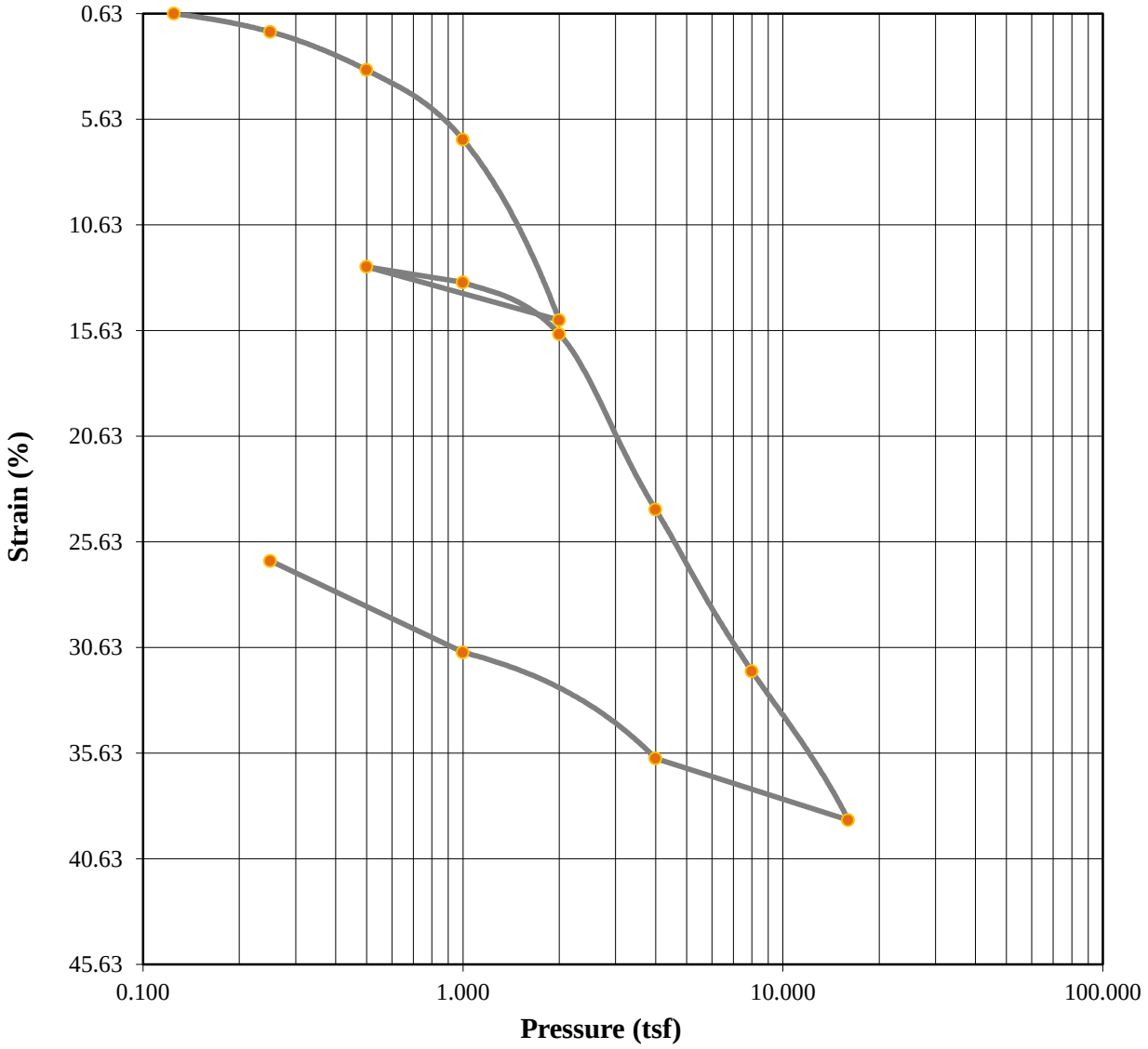
Sample Number: T-3 **Sample Description:**
Boring Number: BW-46 SILT with SAND(ML A-4(0))
Depth: 43.5-45.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 2.1895 **Initial Height (in):** 0.9930
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.4980
Specific Gravity: 2.2430 Measured **Weight of Ring (g):** 98.6800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	107.33	222.76
Dry Soil + Container (g)	69.20	187.90
Weight of Container (g)	32.09	130.56
Moisture Content (%)	102.75	60.80
Void Ratio	2.1895	1.2965
Saturation (%)	104.81	110.22
Dry Density (pcf)	43.77	62.59

Tested By: B. Hak **Checked By:** C. Dugger

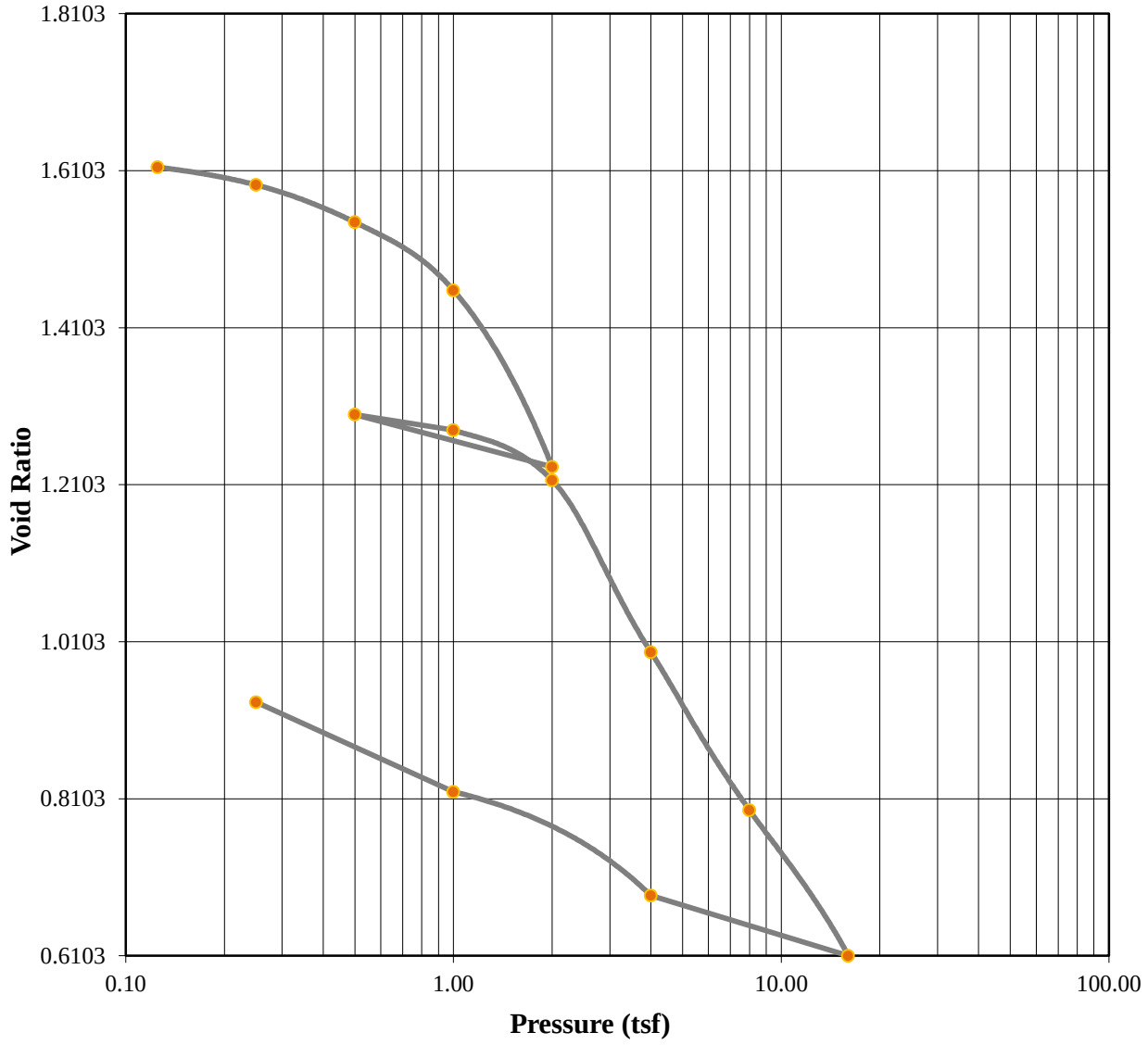
Consolidation Test
Test Results



	Before	After				
Moisture (%):	62.07	41.50	**Liquid Limits:**	83	**Test Date:**	12/30/16
Dry Density (pcf):	61.46	79.89	**Plastic Limits:**	22		
Saturation (%):	98.45	104.78	**Plasticity Index (%):**	0		
Void Ratio:	1.6361	0.9367	**Specific Gravity:**	2.595	Measured	

Sample Description:	FAT CLAY(CH A-7-6(59))			
Project Number:	7817	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

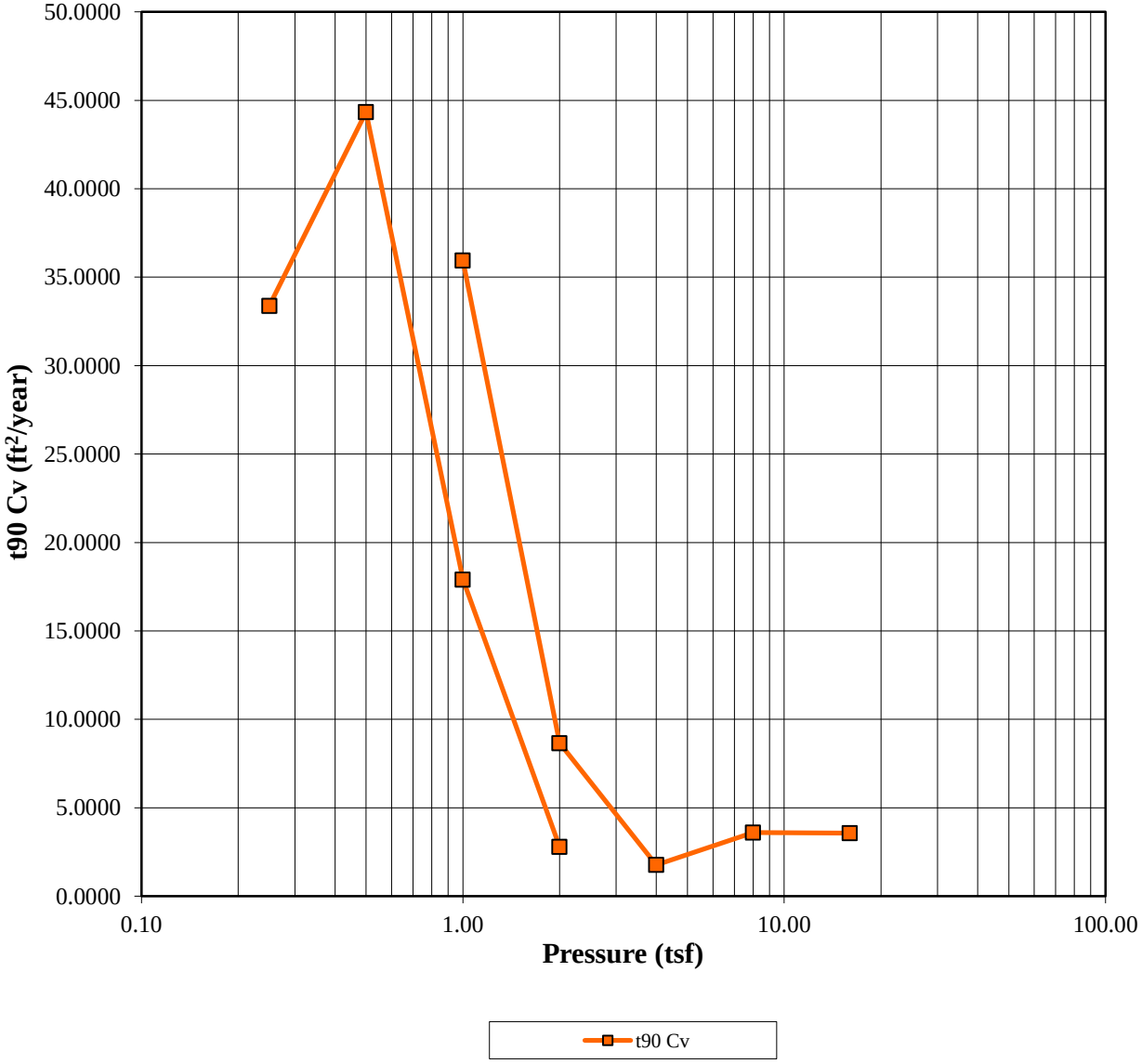
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	83	**Test Date:**	12/30/16
Moisture (%):	62.07	41.50	**Plastic Limits:**	22		
Dry Density (pcf):	61.46	79.89	**Plasticity Index (%):**	0		
Saturation (%):	98.45	104.78				
Void Ratio:	1.6361	0.9367	**Specific Gravity:**	2.595	Measured	

Soil Description:	FAT CLAY(CH A-7-6(59))			
Project Number:	7817	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

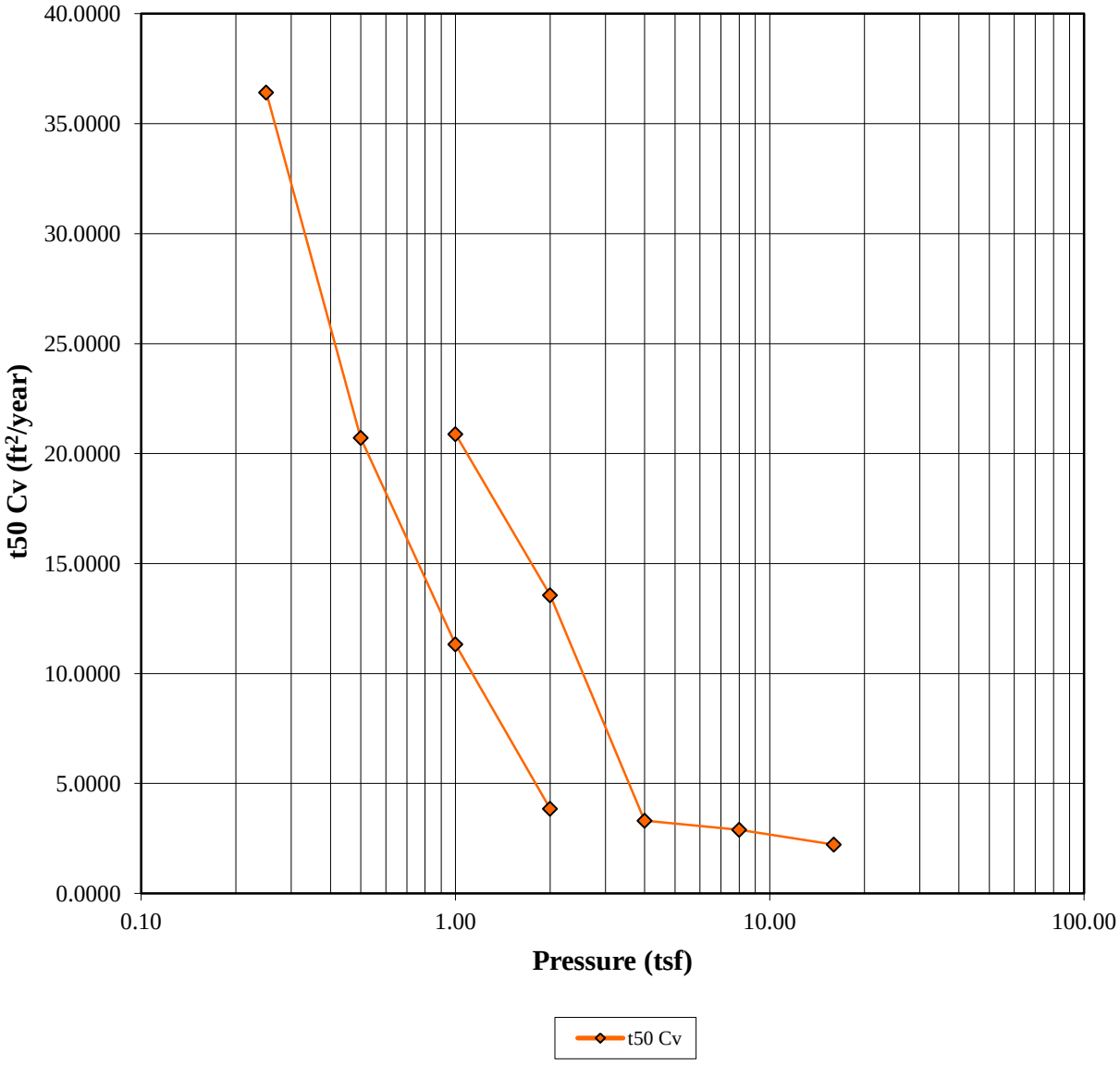
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	83	**Test Date:**	12/30/16
Moisture (%):	62.07	41.50	**Plastic Limits:**	22		
Dry Density (pcf):	61.46	79.89	**Plasticity Index (%):**	0		
Saturation (%):	98.45	104.78				
Void Ratio:	1.6361	0.9367	**Specific Gravity:**	2.595	Measured	

Soil Description:	FAT CLAY(CH A-7-6(59))			
Project Number:	7817	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

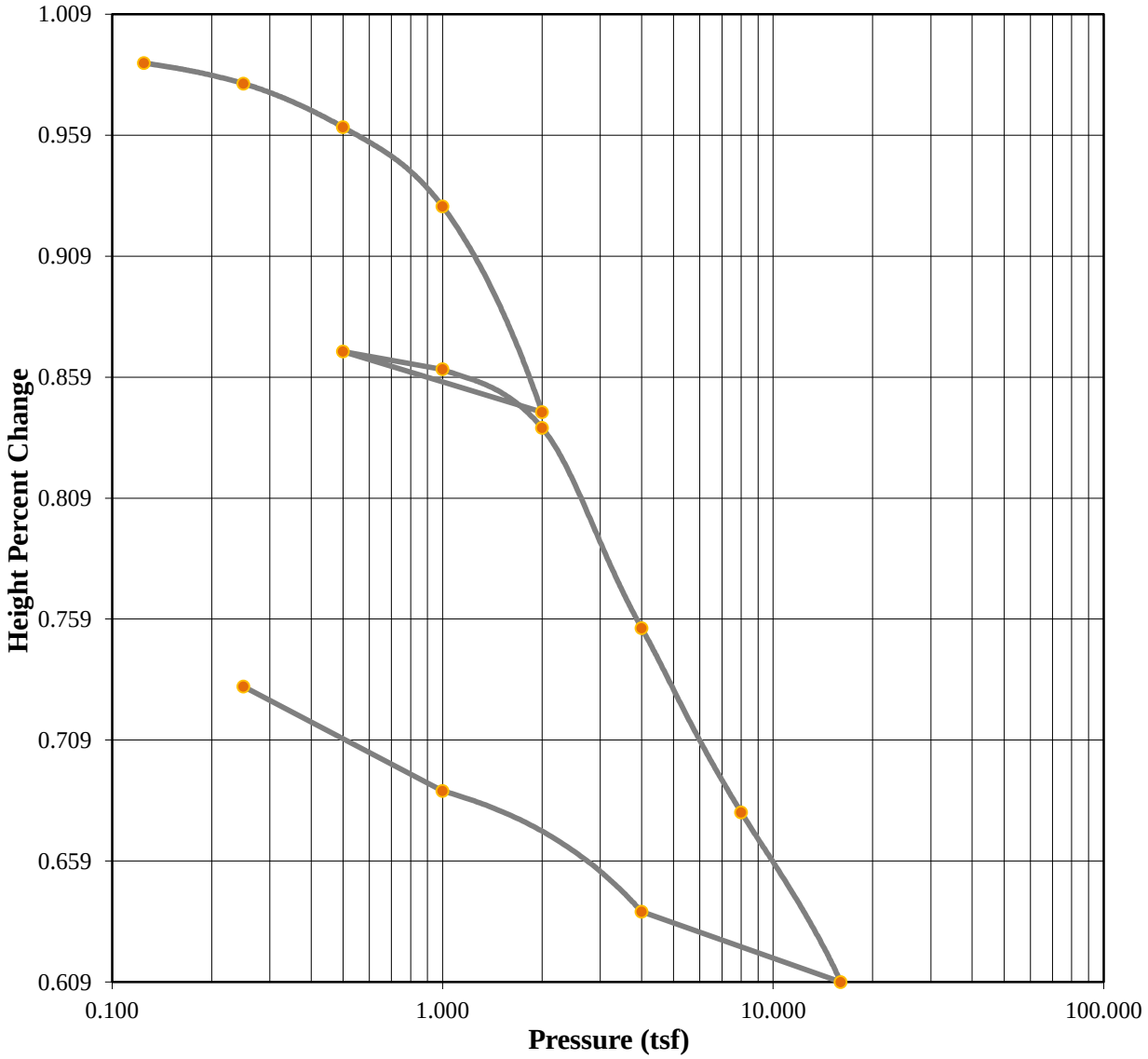
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	83	**Test Date:**	12/30/16
Moisture (%):	62.07	41.50	**Plastic Limits:**	22		
Dry Density (pcf):	61.46	79.89	**Plasticity Index (%):**	0		
Saturation (%):	98.45	104.78				
Void Ratio:	1.6361	0.9367	**Specific Gravity:**	2.595	Measured	

Soil Description:	FAT CLAY(CH A-7-6(59))			
Project Number:	7817	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	83	**Test Date:**	12/30/16
Moisture (%):	62.07	41.50	**Plastic Limits:**	22		
Dry Density (pcf):	61.46	79.89	**Plasticity Index (%):**	0		
Saturation (%):	98.45	104.78				
Void Ratio:	1.6361	0.9367	**Specific Gravity:**	2.595	Measured	

Soil Description:	FAT CLAY(CH A-7-6(59))			
Project Number:	7817	**Depth:**	38.5-40.5 ft.	**Remarks:**
Sample Number:	T-2	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7817

Sample Number: T-2
Boring Number: BW-49
Depth: 38.5-40.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(59))
Remarks:

Test Number:
Test Date: 12/30/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9950	0.6169	0.00	1.6313	0.000	0.000	0.000	0.000
1	0.125	0.0063	0.9887	0.6106	0.63	1.6147	0.000	0.000	0.000	0.000
2	0.250	0.0148	0.9802	0.6020	1.49	1.5921	22.266	4.743	33.388	36.416
3	0.500	0.0328	0.9622	0.5841	3.30	1.5446	16.156	8.037	44.343	20.708
4	1.000	0.0656	0.9294	0.5513	6.59	1.4579	37.340	13.709	17.901	11.327
5	2.000	0.1506	0.8444	0.4663	15.13	1.2332	197.188	33.359	2.798	3.843
6	0.500	0.1255	0.8695	0.4914	12.61	1.2995	0.000	0.000	0.000	0.000
7	1.000	0.1329	0.8621	0.4840	13.35	1.2799	16.003	6.397	35.939	20.885
8	2.000	0.1571	0.8379	0.4597	15.79	1.2158	62.774	9.308	8.654	13.559
9	4.000	0.2398	0.7552	0.3771	24.10	0.9972	249.267	31.019	1.770	3.305
10	8.000	0.3159	0.6791	0.3009	31.75	0.7958	98.942	28.611	3.606	2.897
11	16.000	0.3861	0.6089	0.2308	38.80	0.6103	80.292	30.048	3.573	2.218
12	4.000	0.3570	0.6380	0.2599	35.88	0.6872	0.000	0.000	0.000	0.000
13	1.000	0.3071	0.6879	0.3098	30.86	0.8192	0.000	0.000	0.000	0.000
14	0.250	0.2640	0.7310	0.3529	26.53	0.9332	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7817
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 12/30/16

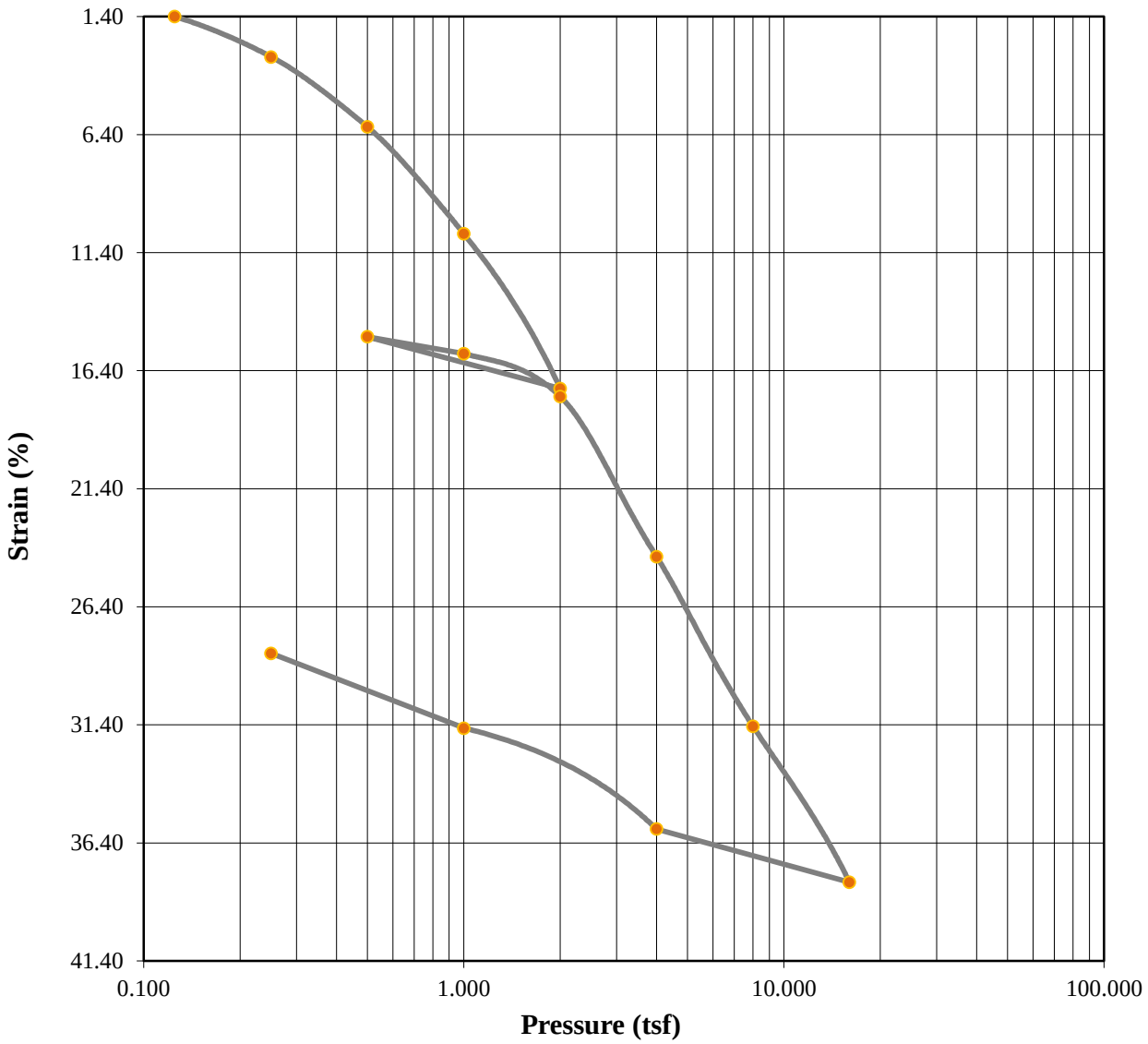
Sample Number: T-2 **Sample Description:**
Boring Number: BW-49 FAT CLAY(CH A-7-6(59))
Depth: 38.5-40.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 83.0000 **Initial Void Ratio:** 1.6361 **Initial Height (in):** 0.9950
Plastic Limit: 22.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.5950 Measured **Weight of Ring (g):** 98.6600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	84.59	236.32
Dry Soil + Container (g)	64.64	205.32
Weight of Container (g)	32.50	130.62
Moisture Content (%)	62.07	41.50
Void Ratio	1.6361	0.9367
Saturation (%)	98.45	104.78
Dry Density (pcf)	61.46	79.89

Tested By: B. Hak **Checked By:** C. Dugger

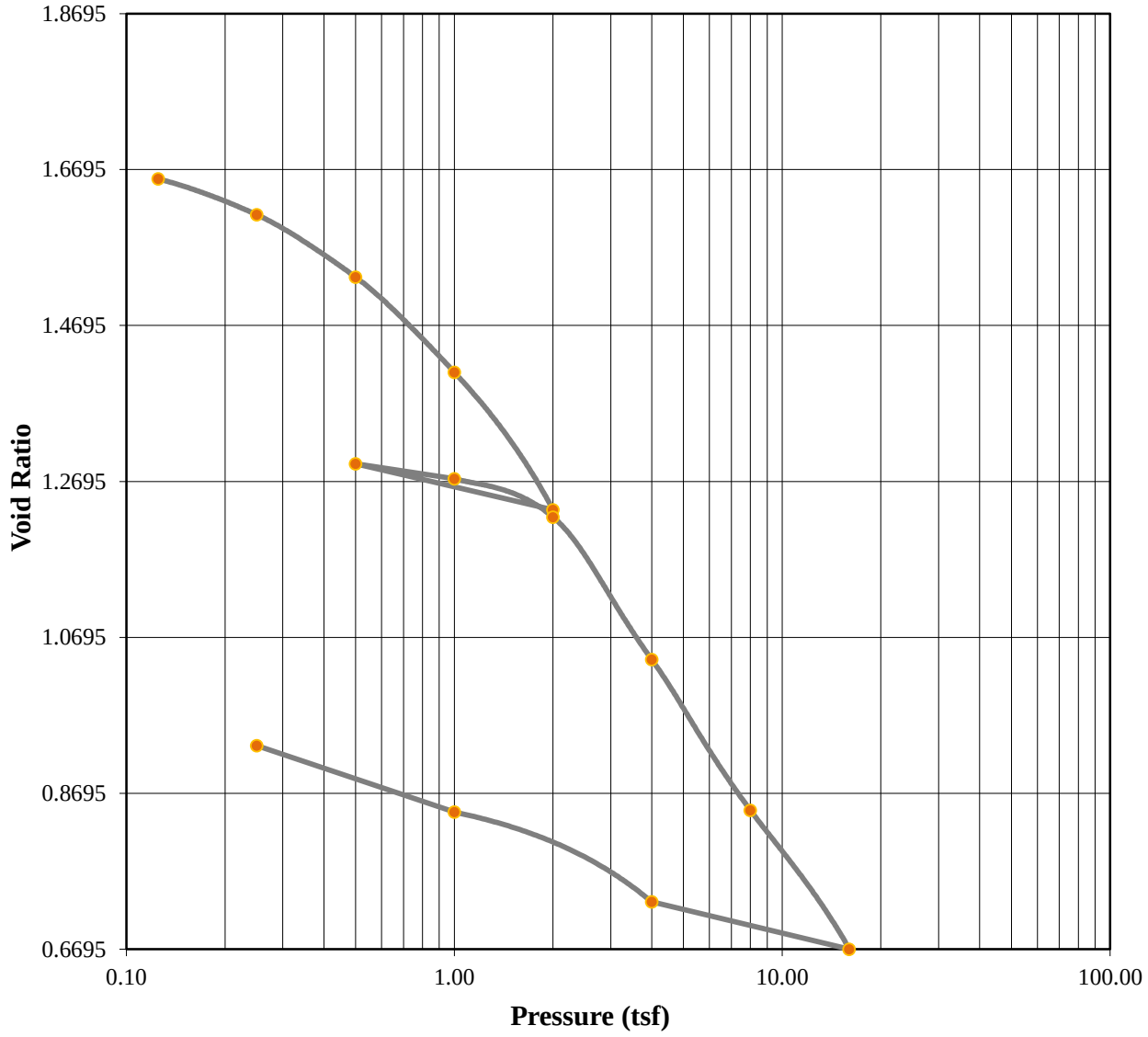
Consolidation Test
Test Results



	Before	After				
Moisture (%):	64.98	39.03	**Liquid Limits:**	73	**Test Date:**	1/5/17
Dry Density (pcf):	59.72	82.83	**Plastic Limits:**	23		
Saturation (%):	98.73	106.49	**Plasticity Index (%):**	0		
Void Ratio:	1.6927	0.9287	**Specific Gravity:**	2.583	Measured	

Sample Description:	FAT CLAY(CH A-7-6(52))			
Project Number:	7817	**Depth:**	48.5-50.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results

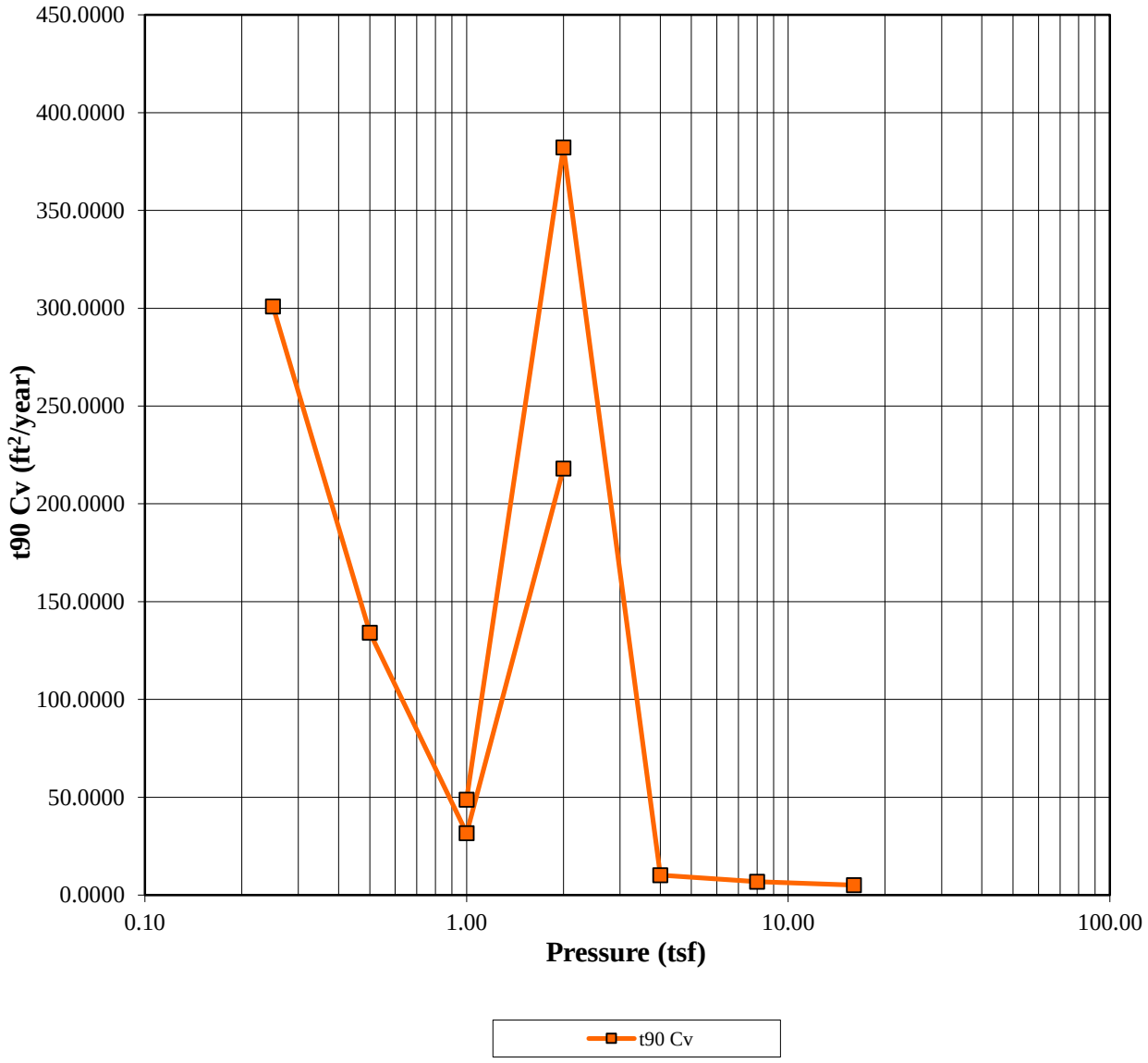


	Before	After				
Moisture (%):	64.98	39.03	**Liquid Limits:**	73	**Test Date:**	1/5/17
Dry Density (pcf):	59.72	82.83	**Plastic Limits:**	23		
Saturation (%):	98.73	106.49	**Plasticity Index (%):**	0		
Void Ratio:	1.6927	0.9287	**Specific Gravity:**	2.583	Measured	

Soil Description:	FAT CLAY(CH A-7-6(52))			
Project Number:	7817	**Depth:**	48.5-50.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test
Test Results

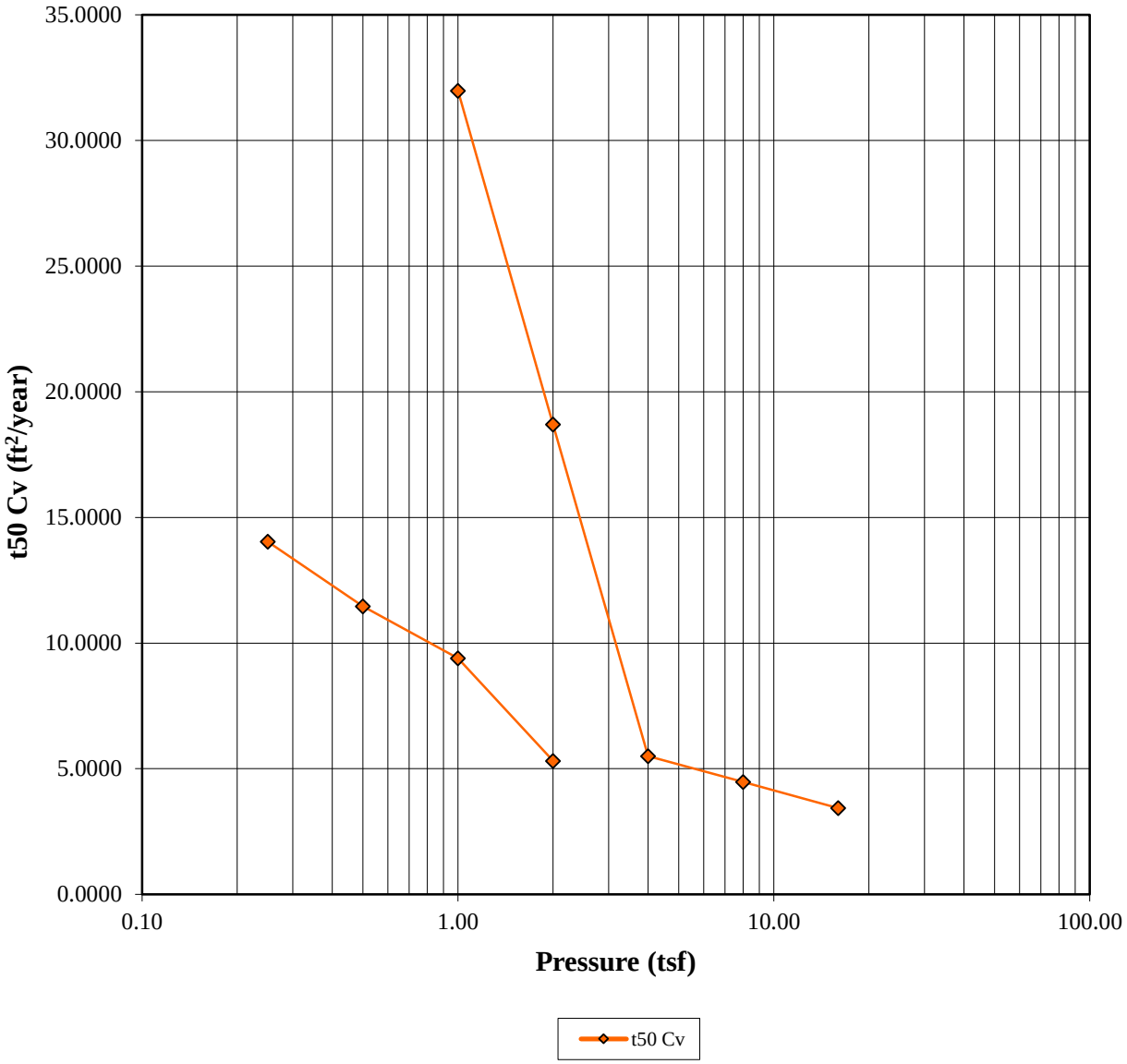


	Before	After				
Moisture (%):	64.98	39.03	**Liquid Limits:**	73	**Test Date:**	1/5/17
Dry Density (pcf):	59.72	82.83	**Plastic Limits:**	23		
Saturation (%):	98.73	106.49	**Plasticity Index (%):**	0		
Void Ratio:	1.6927	0.9287	**Specific Gravity:**	2.583	Measured	

Soil Description:	FAT CLAY(CH A-7-6(52))			
Project Number:	7817	**Depth:**	48.5-50.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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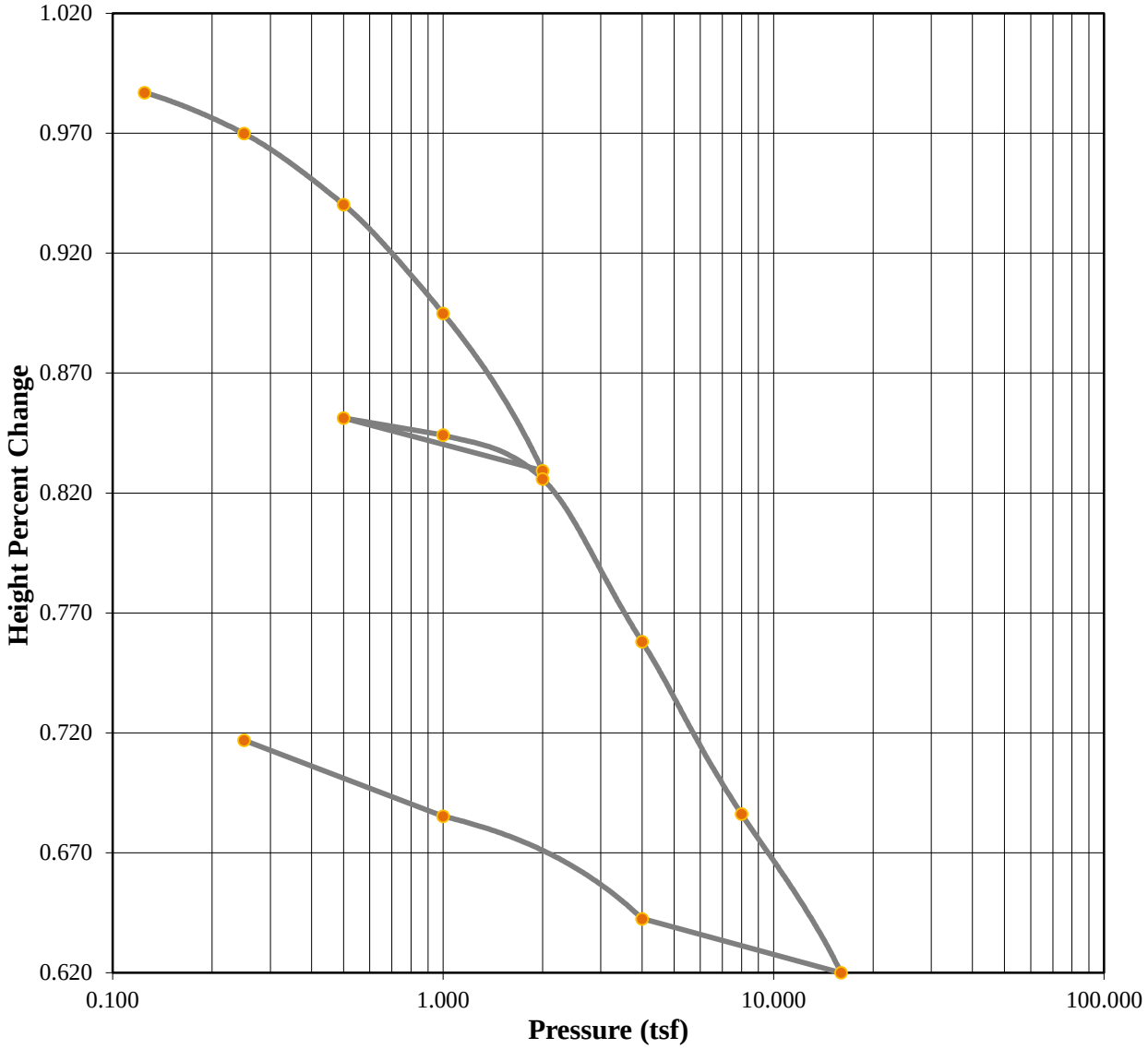
Consolidation Test
Test Results



	Before	After				
Moisture (%):	64.98	39.03	**Liquid Limits:**	73	**Test Date:**	1/5/17
Dry Density (pcf):	59.72	82.83	**Plastic Limits:**	23		
Saturation (%):	98.73	106.49	**Plasticity Index (%):**	0		
Void Ratio:	1.6927	0.9287	**Specific Gravity:**	2.583	Measured	

Soil Description:	FAT CLAY(CH A-7-6(52))			
Project Number:	7817	**Depth:**	48.5-50.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	73	**Test Date:**	1/5/17
Moisture (%):	64.98	39.03	**Plastic Limits:**	23		
Dry Density (pcf):	59.72	82.83	**Plasticity Index (%):**	0		
Saturation (%):	98.73	106.49				
Void Ratio:	1.6927	0.9287	**Specific Gravity:**	2.583	Measured	

Soil Description:	FAT CLAY(CH A-7-6(52))			
Project Number:	7817	**Depth:**	48.5-50.5 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-49	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7817

Sample Number: T-3
Boring Number: BW-49
Depth: 48.5-50.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(52))
Remarks:

Test Number:
Test Date: 1/5/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0010	0.6296	0.00	1.6952	0.000	0.000	0.000	0.000
1	0.125	0.0140	0.9870	0.6156	1.40	1.6576	0.000	0.000	0.000	0.000
2	0.250	0.0311	0.9699	0.5985	3.10	1.6115	2.418	12.051	301.004	14.033
3	0.500	0.0607	0.9403	0.5689	6.07	1.5316	5.098	13.863	134.194	11.464
4	1.000	0.1061	0.8949	0.5235	10.60	1.4096	19.582	15.326	31.647	9.394
5	2.000	0.1717	0.8293	0.4579	17.15	1.2330	2.440	23.268	218.123	5.314
6	0.500	0.1497	0.8513	0.4799	14.96	1.2921	0.000	0.000	0.000	0.000
7	1.000	0.1568	0.8442	0.4728	15.67	1.2729	11.303	4.005	48.787	31.982
8	2.000	0.1751	0.8259	0.4545	17.49	1.2238	1.381	6.558	382.238	18.699
9	4.000	0.2429	0.7581	0.3867	24.27	1.0411	43.666	18.796	10.183	5.496
10	8.000	0.3148	0.6862	0.3148	31.45	0.8476	53.617	18.935	6.796	4.470
11	16.000	0.3810	0.6200	0.2486	38.06	0.6695	58.362	20.148	5.097	3.430
12	4.000	0.3584	0.6426	0.2712	35.81	0.7301	0.000	0.000	0.000	0.000
13	1.000	0.3157	0.6853	0.3139	31.53	0.8453	0.000	0.000	0.000	0.000
14	0.250	0.2840	0.7170	0.3456	28.37	0.9305	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

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ENGINEERING

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge
Project Number: 7817
Location: Soils Lab
Job Number: 16-1101-0176
Test Date: 1/5/17

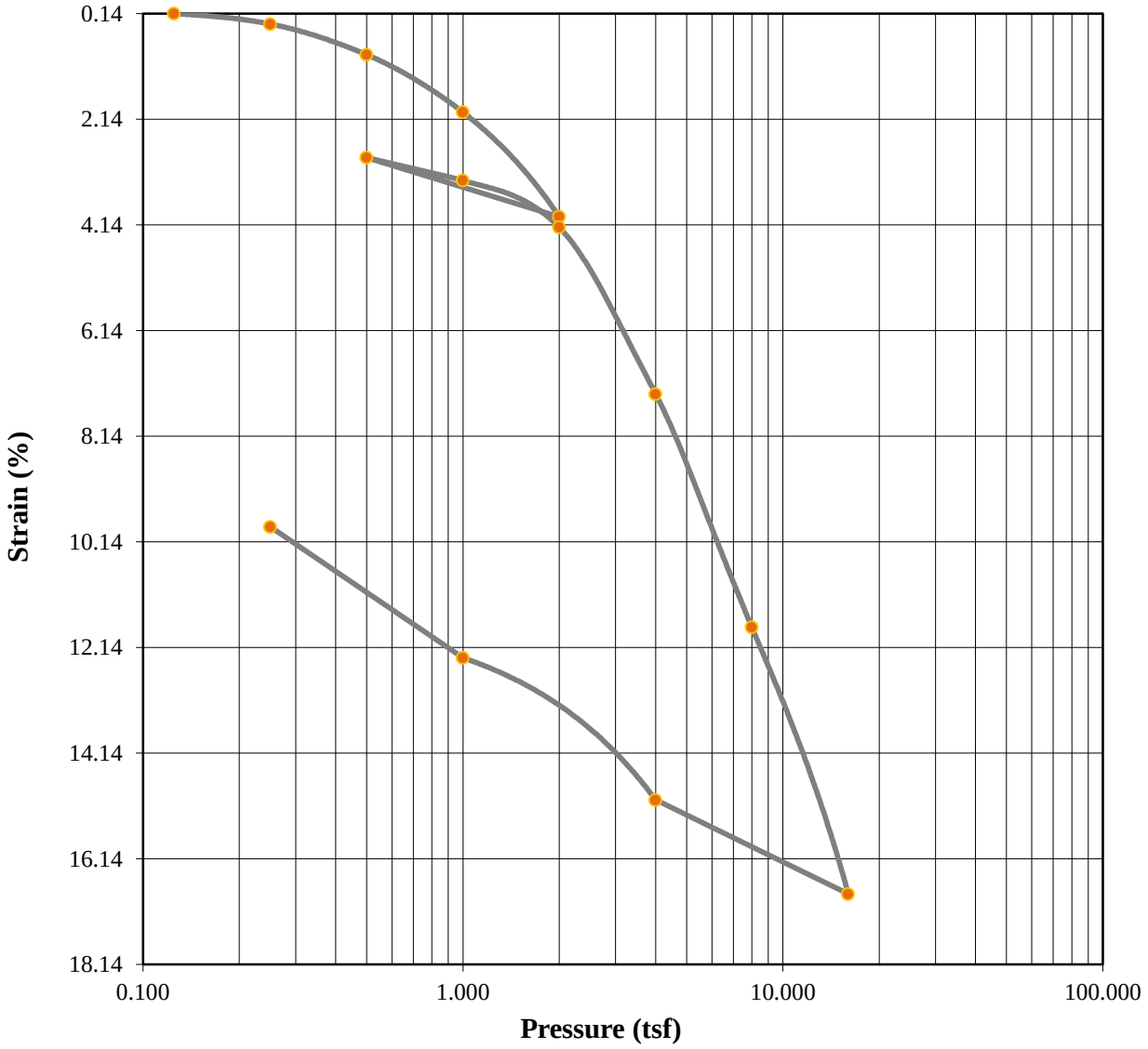
Sample Number: T-3
Sample Description:
Boring Number: BW-49
FAT CLAY(CH A-7-6(52))
Depth: 48.5-50.5 ft.
Remarks:
Sample Type: Undisturbed

Test Number:
Liquid Limit: 73.0000
Initial Void Ratio: 1.6927
Initial Height (in): 1.0010
Plastic Limit: 23.0000
Plasticity Index (%): 0.0000
Initial Diameter (in): 2.5030
Specific Gravity: 2.5830 Measured
Weight of Ring (g): 111.1100

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	67.14	236.99
Dry Soil + Container (g)	50.55	207.14
Weight of Container (g)	25.02	130.66
Moisture Content (%)	64.98	39.03
Void Ratio	1.6927	0.9287
Saturation (%)	98.73	106.49
Dry Density (pcf)	59.72	82.83

Tested By: B. Hak
Checked By: C. Dugger

Consolidation Test
Test Results

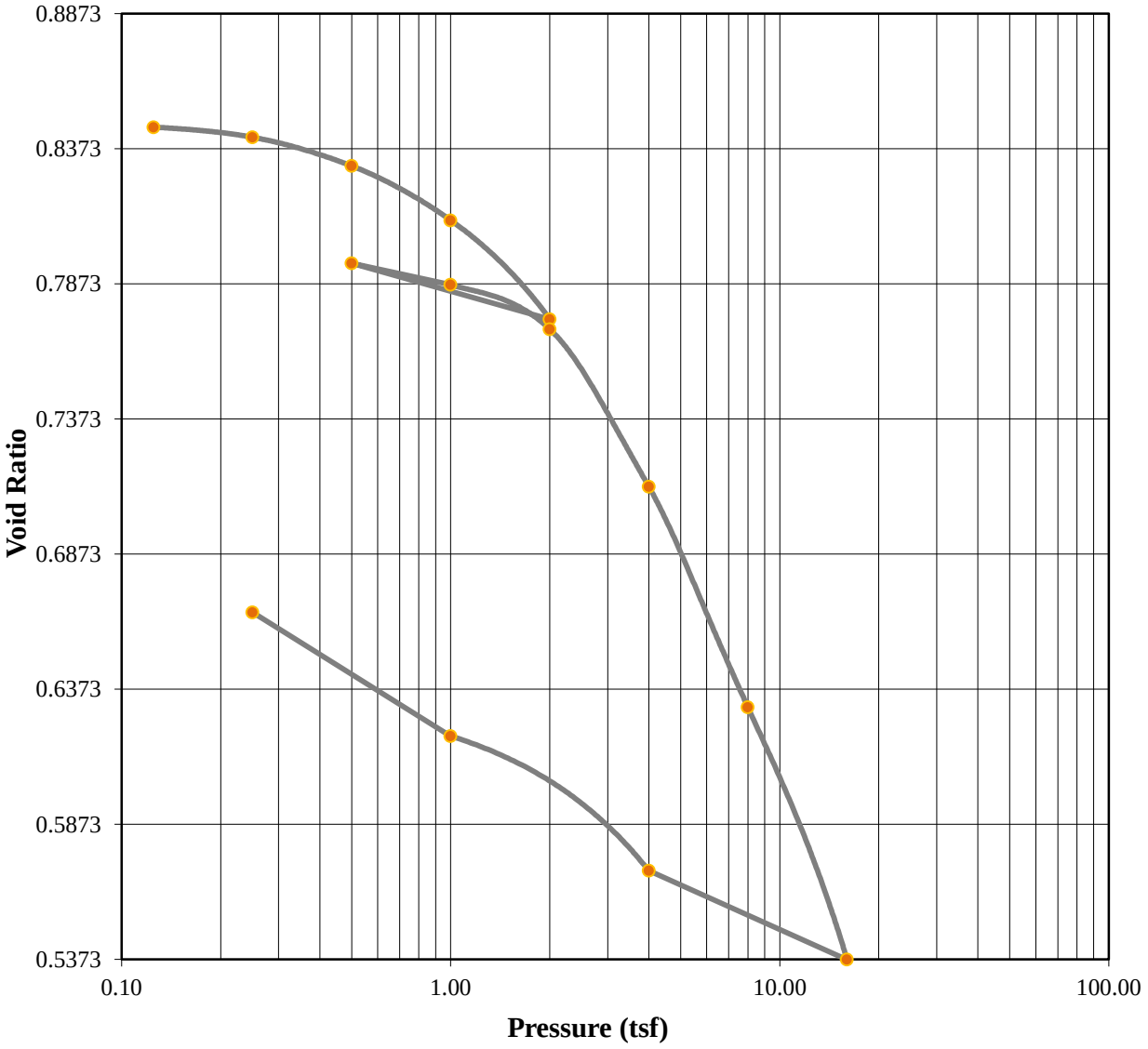


	Before	After				
Moisture (%):	31.29	27.02	**Liquid Limits:**	50	**Test Date:**	12/5/16
Dry Density (pcf):	89.43	98.66	**Plastic Limits:**	19		
Saturation (%):	97.48	105.67	**Plasticity Index (%):**	0		
Void Ratio:	0.8456	0.6636	**Specific Gravity:**	2.652	Measured	

Sample Description:	FAT CLAY(CH A-7-6(32))			
Project Number:	7800	**Depth:**	53.5-55.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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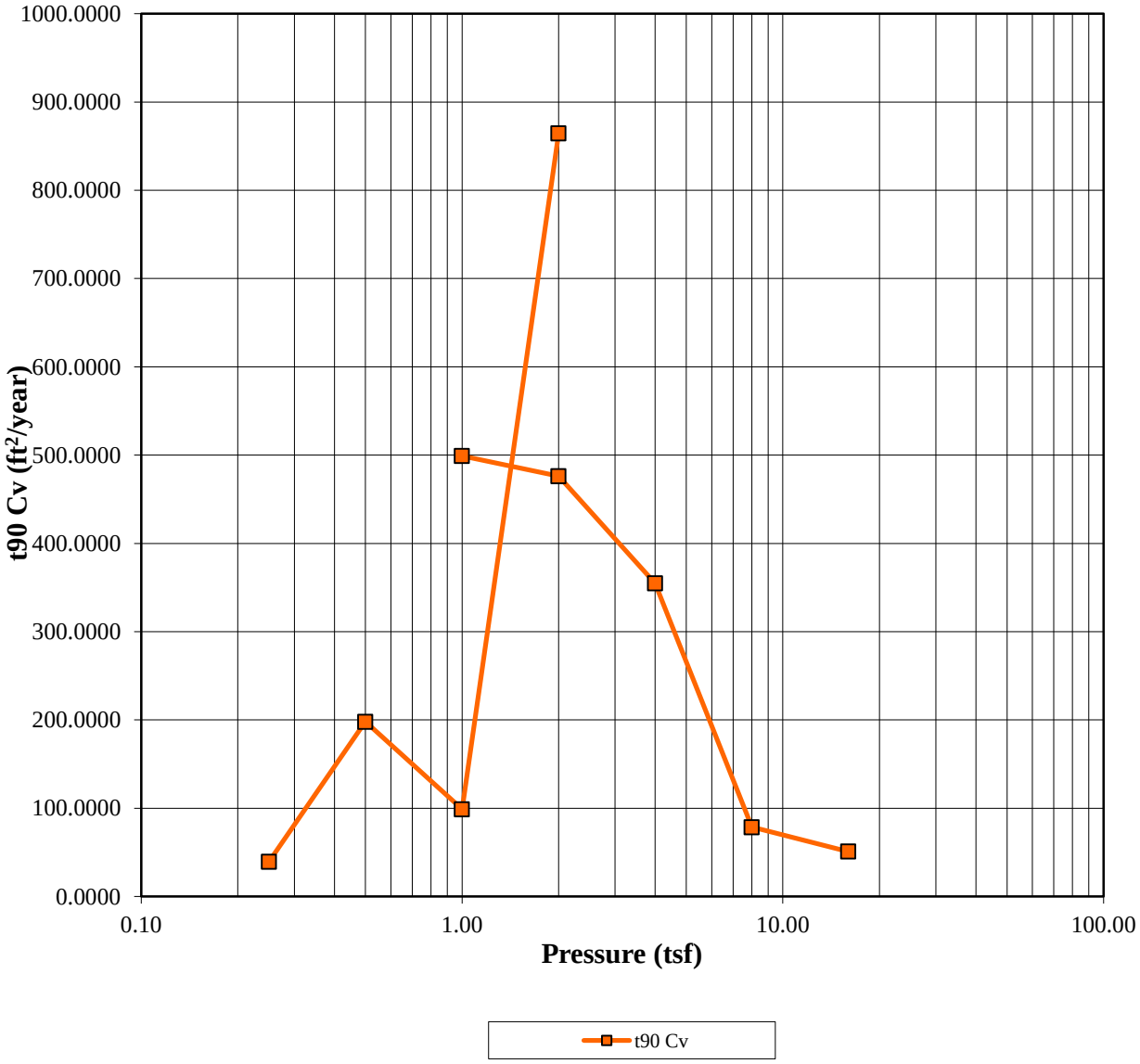
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	50	**Test Date:**	12/5/16
Moisture (%):	31.29	27.02	**Plastic Limits:**	19		
Dry Density (pcf):	89.43	98.66	**Plasticity Index (%):**	0		
Saturation (%):	97.48	105.67				
Void Ratio:	0.8456	0.6636	**Specific Gravity:**	2.652	Measured	

Soil Description:	FAT CLAY(CH A-7-6(32))			
Project Number:	7800	**Depth:**	53.5-55.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

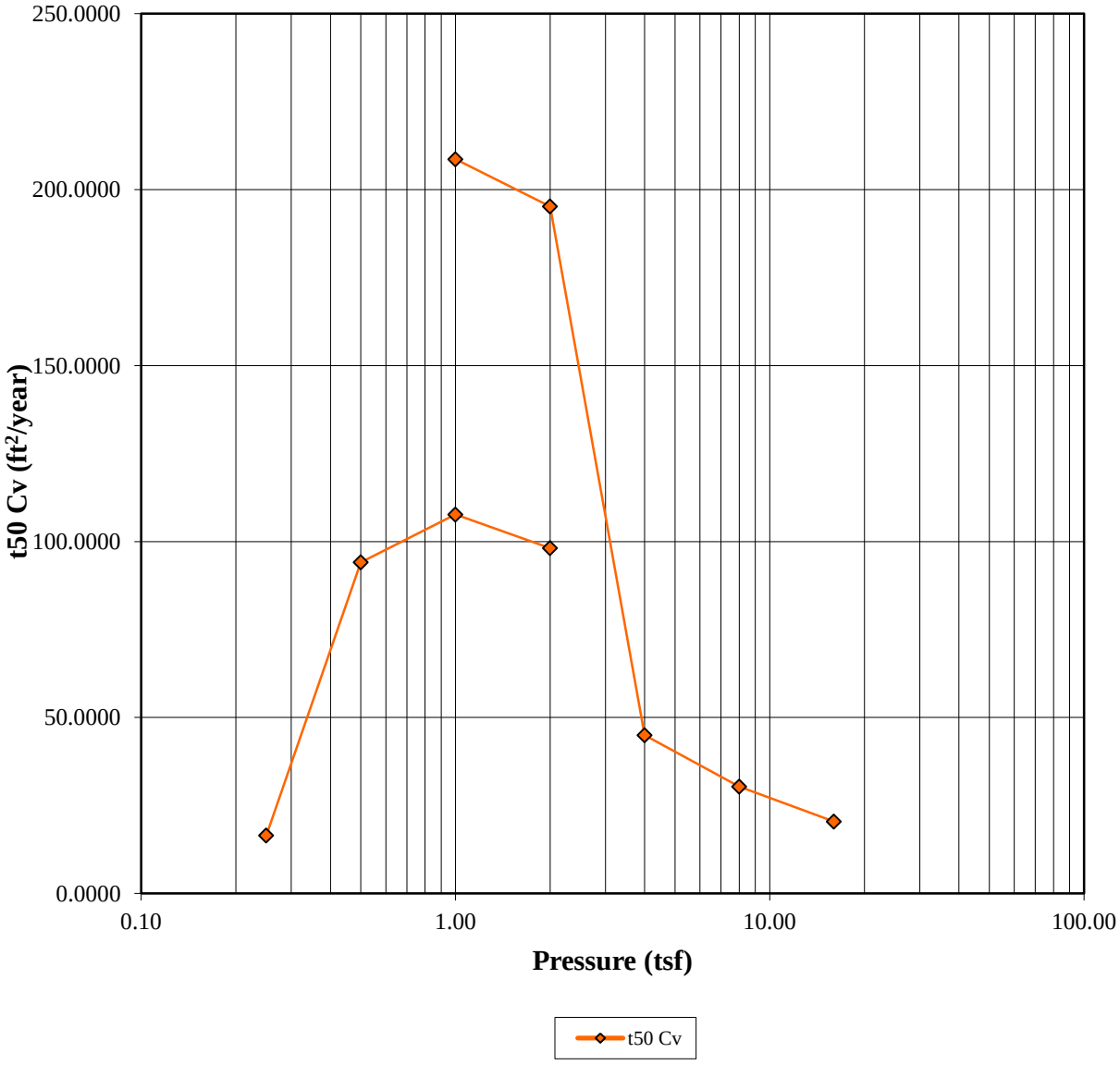
Consolidation Test
Test Results



	Before	After				
Moisture (%):	31.29	27.02	**Liquid Limits:**	50	**Test Date:**	12/5/16
Dry Density (pcf):	89.43	98.66	**Plastic Limits:**	19		
Saturation (%):	97.48	105.67	**Plasticity Index (%):**	0		
Void Ratio:	0.8456	0.6636	**Specific Gravity:**	2.652	Measured	

Soil Description:	FAT CLAY(CH A-7-6(32))			
Project Number:	7800	**Depth:**	53.5-55.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

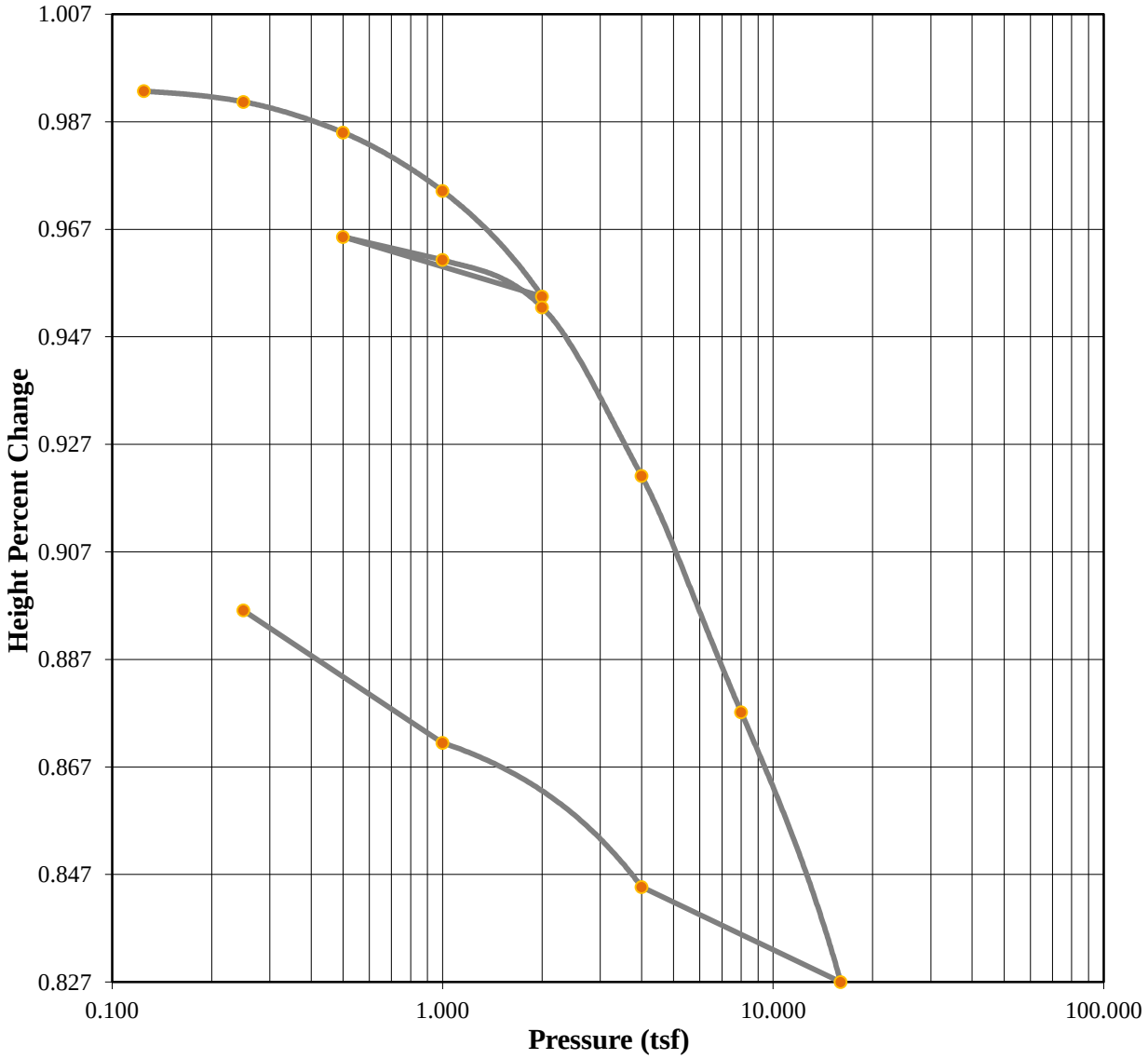
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	50	**Test Date:**	12/5/16
Moisture (%):	31.29	27.02	**Plastic Limits:**	19		
Dry Density (pcf):	89.43	98.66	**Plasticity Index (%):**	0		
Saturation (%):	97.48	105.67				
Void Ratio:	0.8456	0.6636	**Specific Gravity:**	2.652	Measured	

Soil Description:	FAT CLAY(CH A-7-6(32))			
Project Number:	7800	**Depth:**	53.5-55.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
Moisture (%):	31.29	27.02	**Liquid Limits:**	50	**Test Date:**	12/5/16
Dry Density (pcf):	89.43	98.66	**Plastic Limits:**	19		
Saturation (%):	97.48	105.67	**Plasticity Index (%):**	0		
Void Ratio:	0.8456	0.6636	**Specific Gravity:**	2.652	Measured	

Soil Description:	FAT CLAY(CH A-7-6(32))			
Project Number:	7800	**Depth:**	53.5-55.5 ft.	**Remarks:**
Sample Number:	T-4	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7800

Sample Number: T-4
Boring Number: BW-58
Depth: 53.5-55.5 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(32))
Remarks:

Test Number:
Test Date: 12/5/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9940	0.4561	0.00	0.8480	0.000	0.000	0.000	0.000
1	0.125	0.0014	0.9926	0.4547	0.14	0.8454	0.000	0.000	0.000	0.000
2	0.250	0.0034	0.9906	0.4527	0.34	0.8416	19.293	* 10.7183	39.356	16.457
3	0.500	0.0091	0.9849	0.4470	0.92	0.8310	3.790	1.853	198.037	94.113
4	1.000	0.0200	0.9740	0.4362	2.01	0.8109	7.434	1.584	98.750	107.669
5	2.000	0.0396	0.9544	0.4165	3.99	0.7743	0.815	1.669	864.419	98.107
6	0.500	0.0285	0.9655	0.4276	2.87	0.7950	0.000	0.000	0.000	0.000
7	1.000	0.0328	0.9612	0.4233	3.30	0.7870	1.433	* 0.7960	498.957	208.651
8	2.000	0.0416	0.9524	0.4145	4.19	0.7706	1.474	0.835	476.055	195.247
9	4.000	0.0730	0.9210	0.3831	7.34	0.7123	1.850	3.390	354.774	44.983
10	8.000	0.1169	0.8771	0.3392	11.76	0.6307	7.573	4.554	78.602	30.366
11	16.000	0.1671	0.8269	0.2890	16.81	0.5373	10.376	6.014	50.992	20.440
12	4.000	0.1494	0.8446	0.3067	15.03	0.5702	0.000	0.000	0.000	0.000
13	1.000	0.1226	0.8714	0.3335	12.34	0.6200	0.000	0.000	0.000	0.000
14	0.250	0.0980	0.8960	0.3581	9.86	0.6658	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7800
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 12/5/16

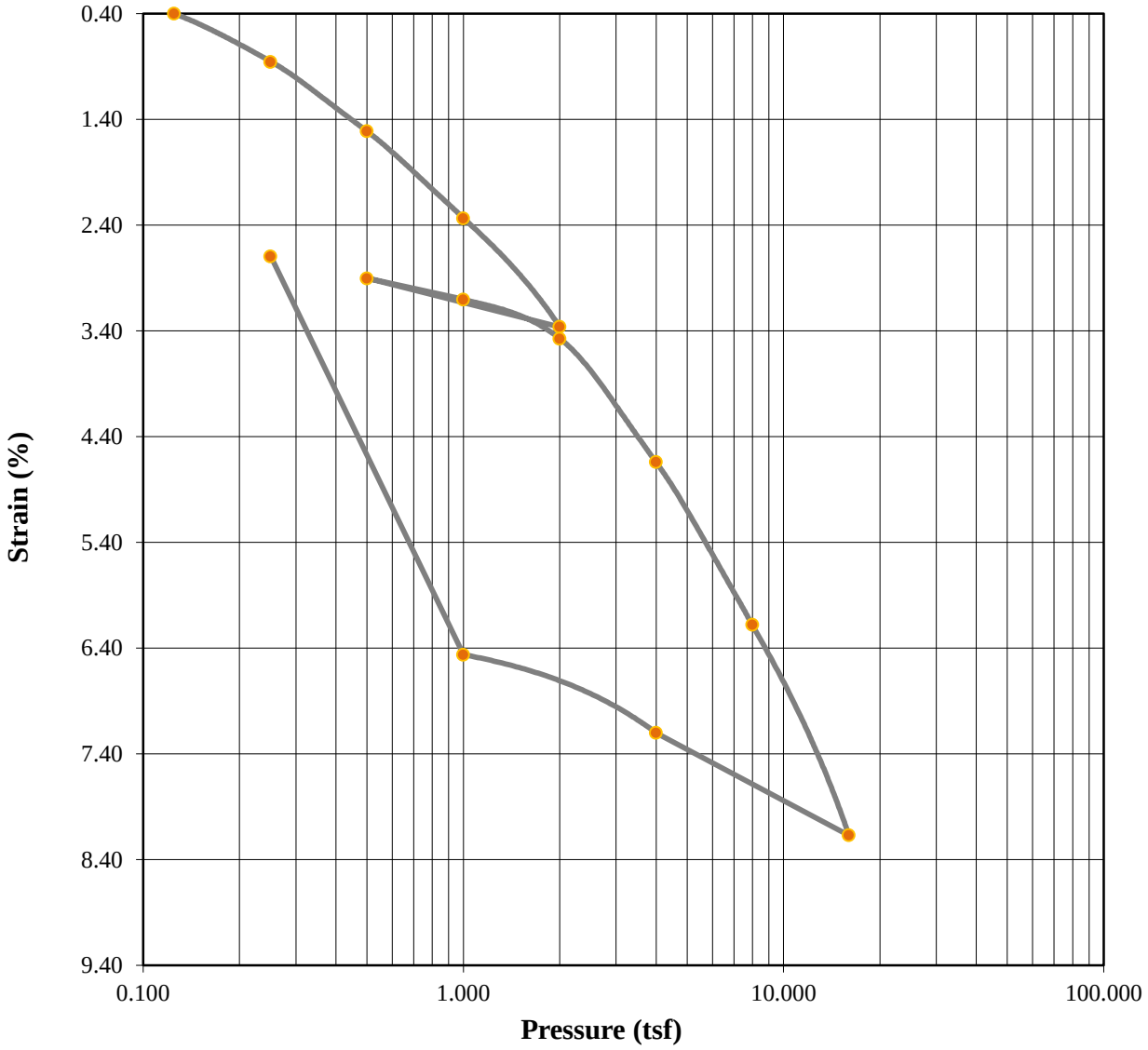
Sample Number: T-4 **Sample Description:**
Boring Number: BW-58 FAT CLAY(CH A-7-6(32))
Depth: 53.5-55.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 50.0000 **Initial Void Ratio:** 0.8456 **Initial Height (in):** 0.9940
Plastic Limit: 19.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5040
Specific Gravity: 2.6520 Measured **Weight of Ring (g):** 98.6700

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	146.15	276.41
Dry Soil + Container (g)	118.99	245.62
Weight of Container (g)	32.19	131.67
Moisture Content (%)	31.29	27.02
Void Ratio	0.8456	0.6636
Saturation (%)	97.48	105.67
Dry Density (pcf)	89.43	98.66

Tested By: B. Hak **Checked By:** C. Dugger

Consolidation Test
Test Results

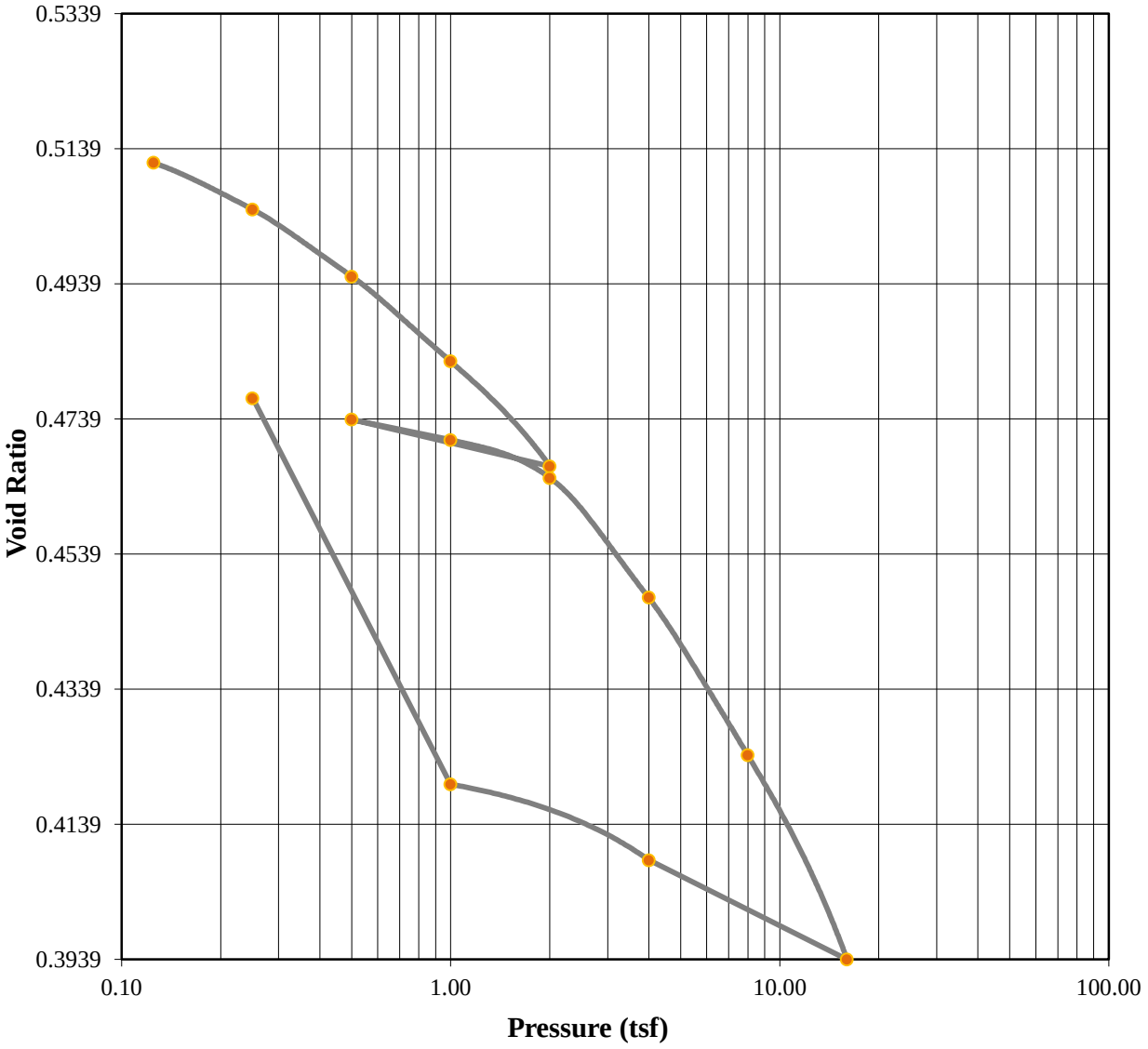


	Before	After				
			Liquid Limits:	0	**Test Date:**	12/8/16
Moisture (%):	19.56	17.88	**Plastic Limits:**	0		
Dry Density (pcf):	108.06	112.32	**Plasticity Index (%):**	0		
Saturation (%):	98.90	101.67				
Void Ratio:	0.5179	0.4770	**Specific Gravity:**	2.632	Measured	

Sample Description:	SANDY SILT(ML A-4(0))			
Project Number:	7800	**Depth:**	118.5-120.5 f	**Remarks:**
Sample Number:	T-6	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

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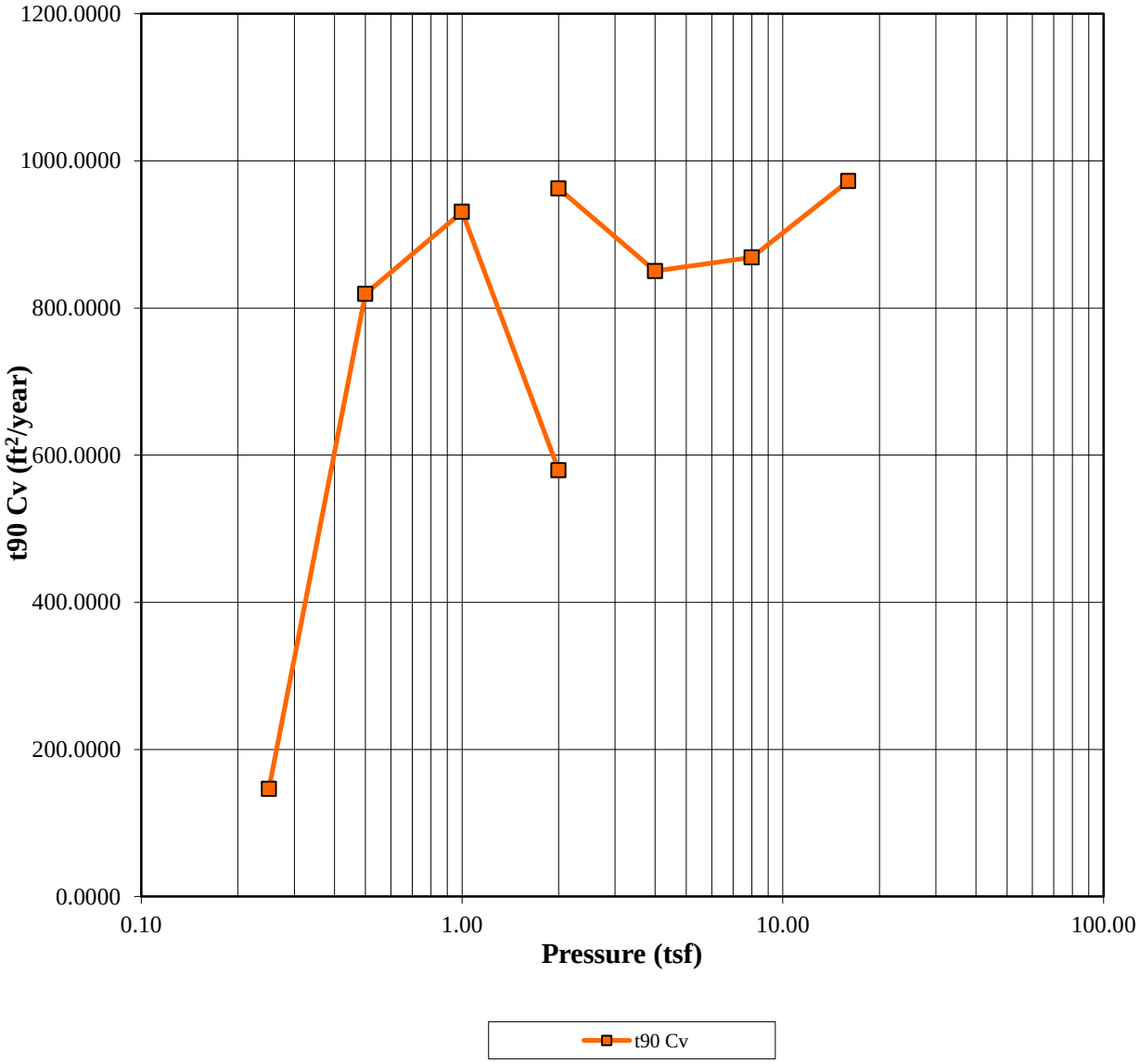
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	12/8/16
Moisture (%):	19.56	17.88	**Plastic Limits:**	0		
Dry Density (pcf):	108.06	112.32	**Plasticity Index (%):**	0		
Saturation (%):	98.90	101.67				
Void Ratio:	0.5179	0.4770	**Specific Gravity:**	2.632	Measured	

Soil Description:	SANDY SILT(ML A-4(0))			
Project Number:	7800	**Depth:**	118.5-120.5 f	**Remarks:**
Sample Number:	T-6	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

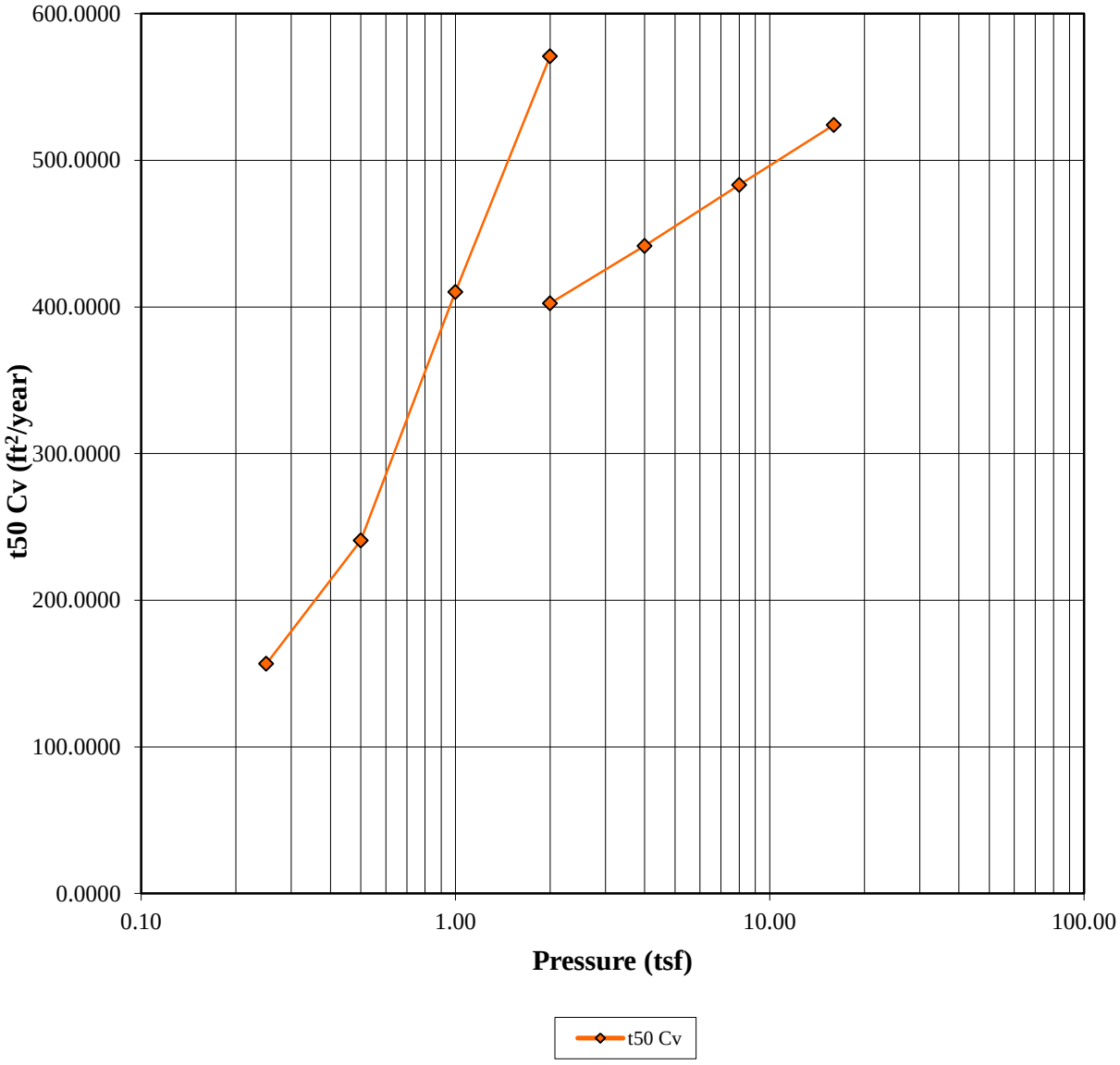
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	12/8/16
Moisture (%):	19.56	17.88	**Plastic Limits:**	0		
Dry Density (pcf):	108.06	112.32	**Plasticity Index (%):**	0		
Saturation (%):	98.90	101.67				
Void Ratio:	0.5179	0.4770	**Specific Gravity:**	2.632	Measured	

Soil Description:	SANDY SILT(ML A-4(0))			
Project Number:	7800	**Depth:**	118.5-120.5 f	**Remarks:**
Sample Number:	T-6	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

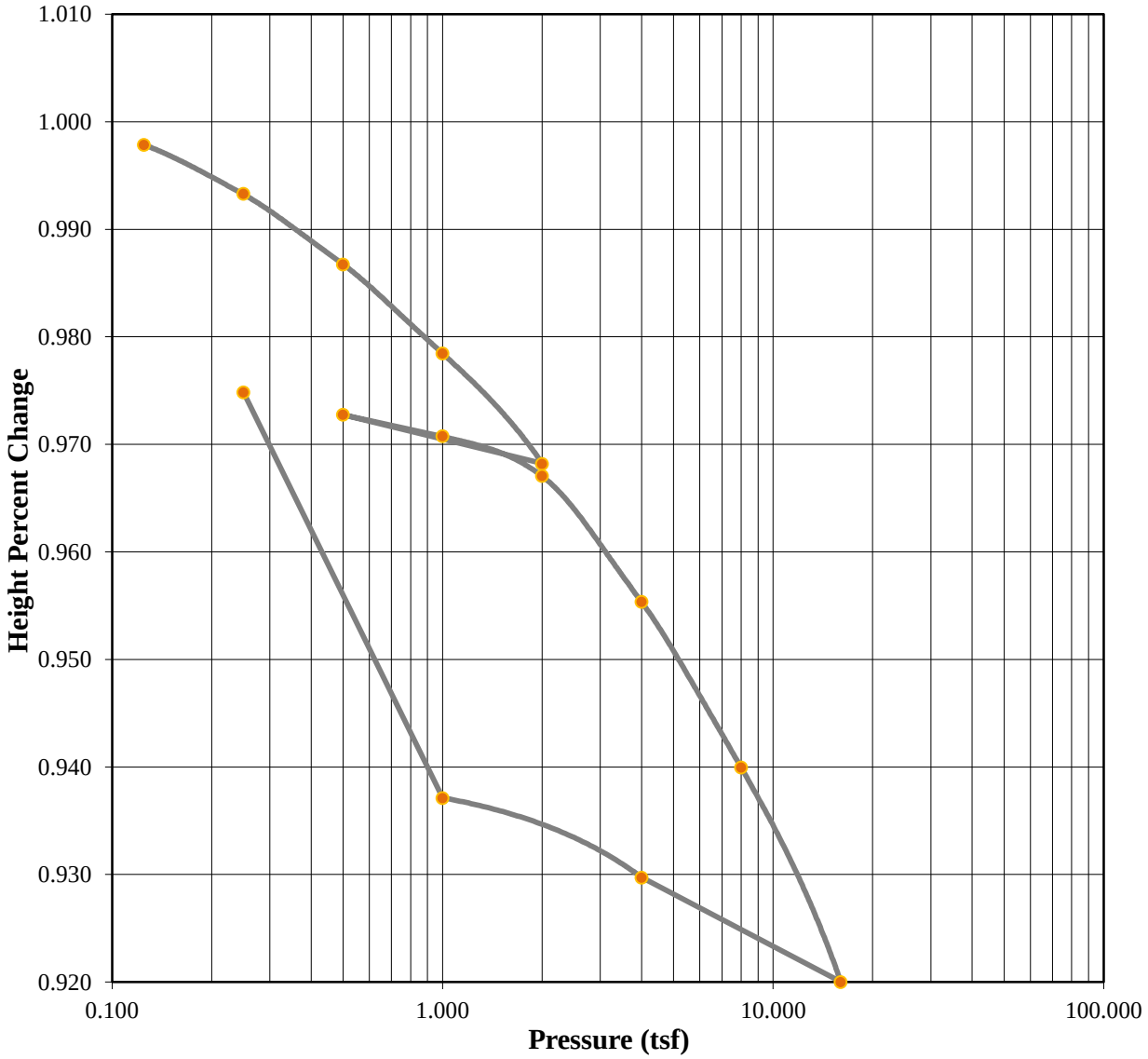
Consolidation Test
Test Results



	Before	After				
Moisture (%):	19.56	17.88	**Liquid Limits:**	0	**Test Date:**	12/8/16
Dry Density (pcf):	108.06	112.32	**Plastic Limits:**	0		
Saturation (%):	98.90	101.67	**Plasticity Index (%):**	0		
Void Ratio:	0.5179	0.4770	**Specific Gravity:**	2.632	Measured	

Soil Description:	SANDY SILT(ML A-4(0))			
Project Number:	7800	**Depth:**	118.5-120.5 f	**Remarks:**
Sample Number:	T-6	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	12/8/16
Moisture (%):	19.56	17.88	**Plastic Limits:**	0		
Dry Density (pcf):	108.06	112.32	**Plasticity Index (%):**	0		
Saturation (%):	98.90	101.67				
Void Ratio:	0.5179	0.4770	**Specific Gravity:**	2.632	Measured	

Soil Description:	SANDY SILT(ML A-4(0))			
Project Number:	7800	**Depth:**	118.5-120.5 f	**Remarks:**
Sample Number:	T-6	**Boring Number:**	BW-58	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7800

Sample Number: T-6
Boring Number: BW-58
Depth: 118.5-120.5 ft.
Sample Type: Undisturbed

Sample Description: SANDY SILT(ML A-4(0))
Remarks:

Test Number:
Test Date: 12/8/16

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	1.0020	0.3419	0.00	0.5179	0.000	0.000	0.000	0.000
1	0.125	0.0040	0.9980	0.3379	0.40	0.5118	0.000	0.000	0.000	0.000
2	0.250	0.0086	0.9934	0.3333	0.85	0.5049	5.211	1.133	146.558	156.624
3	0.500	0.0151	0.9869	0.3267	1.51	0.4950	0.920	0.727	819.333	240.762
4	1.000	0.0234	0.9786	0.3185	2.33	0.4824	0.796	0.420	930.762	410.313
5	2.000	0.0336	0.9684	0.3082	3.36	0.4669	1.252	0.295	579.589	570.946
6	0.500	0.0291	0.9729	0.3128	2.90	0.4738	0.000	0.000	0.000	0.000
7	1.000	0.0311	0.9709	0.3108	3.10	0.4708	0.000	0.000	0.000	0.000
8	2.000	0.0348	0.9672	0.3071	3.47	0.4652	0.752	* 0.4178	962.624	402.508
9	4.000	0.0465	0.9555	0.2954	4.64	0.4474	0.831	0.372	850.134	441.611
10	8.000	0.0619	0.9401	0.2800	6.18	0.4241	0.787	0.329	868.742	483.320
11	16.000	0.0818	0.9202	0.2600	8.17	0.3939	0.674	0.290	972.690	524.207
12	4.000	0.0721	0.9299	0.2697	7.20	0.4086	0.000	0.000	0.000	0.000
13	1.000	0.0647	0.9373	0.2771	6.46	0.4198	0.000	0.000	0.000	0.000
14	0.250	0.0270	0.9750	0.3149	2.69	0.4770	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7800
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 12/8/16

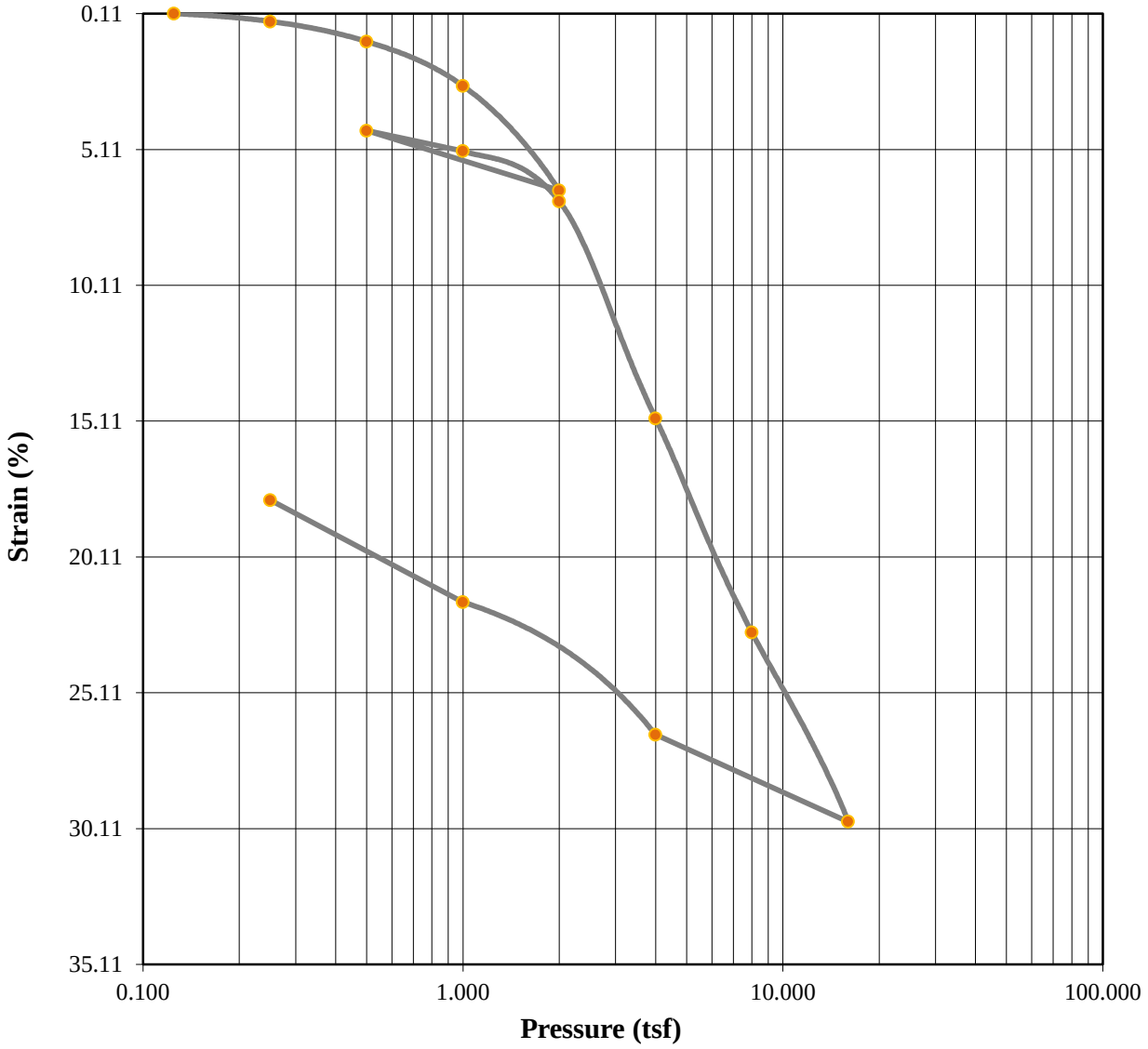
Sample Number: T-6 **Sample Description:**
Boring Number: BW-58 SANDY SILT(ML A-4(0))
Depth: 118.5-120.5 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 0.5179 **Initial Height (in):** 1.0020
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5100
Specific Gravity: 2.6320 **Weight of Ring (g):** 111.1100
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	136.38	297.23
Dry Soil + Container (g)	119.31	271.88
Weight of Container (g)	32.06	130.12
Moisture Content (%)	19.56	17.88
Void Ratio	0.5179	0.4770
Saturation (%)	98.90	101.67
Dry Density (pcf)	108.06	112.32

Tested By: B. Hak **Checked By:** C. Dugger

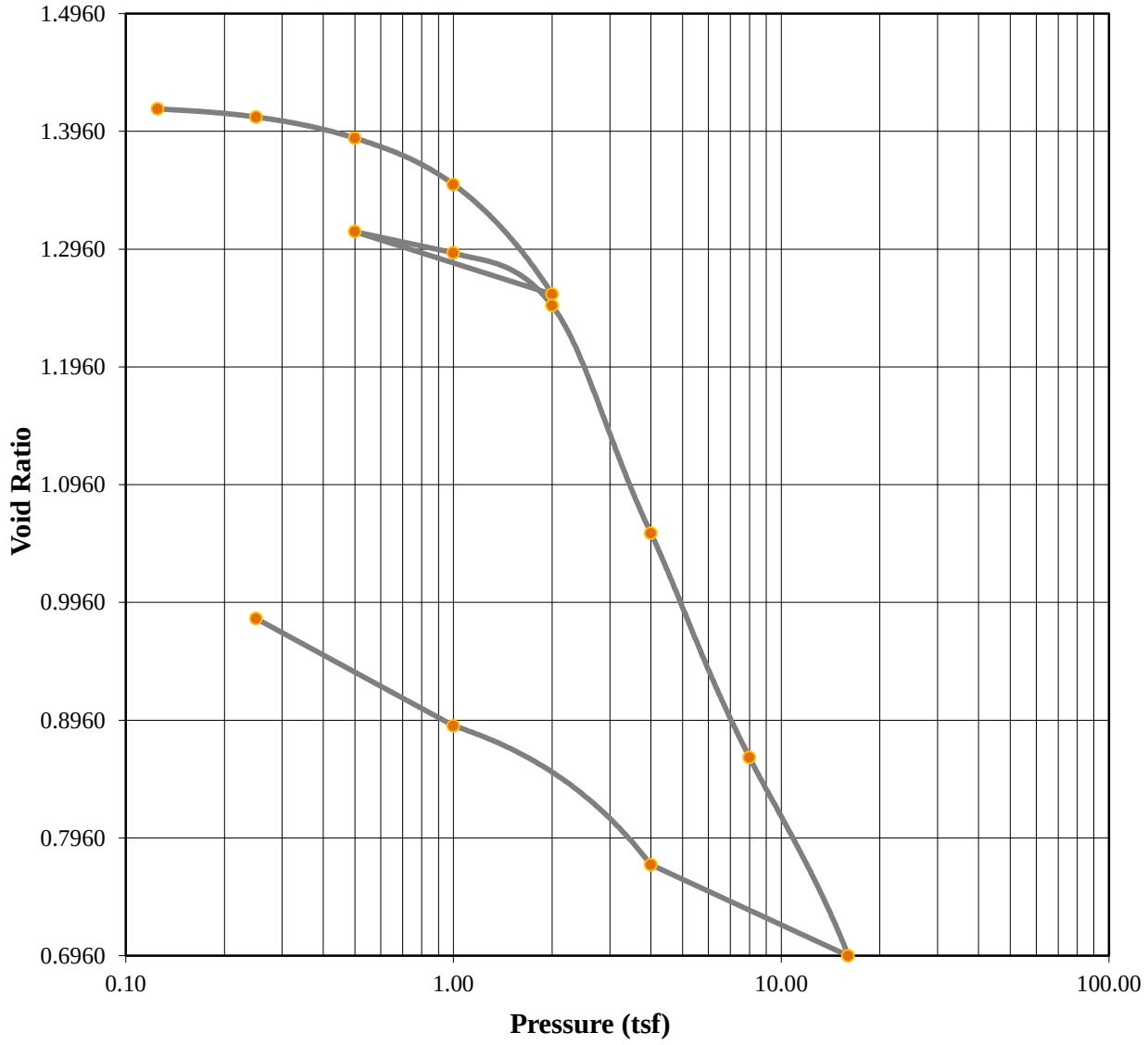
Consolidation Test
Test Results



	Before	After				
Moisture (%):	53.09	41.62	**Liquid Limits:**	0	**Test Date:**	9/27/17
Dry Density (pcf):	67.73	80.28	**Plastic Limits:**	0		
Saturation (%):	98.10	104.80	**Plasticity Index (%):**	0		
Void Ratio:	1.4192	0.9833	**Specific Gravity:**	2.628	Measured	

Sample Description:	FAT CLAY(CH A-7-6(53))			
Project Number:	7928	**Depth:**	63.0-65.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-121	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

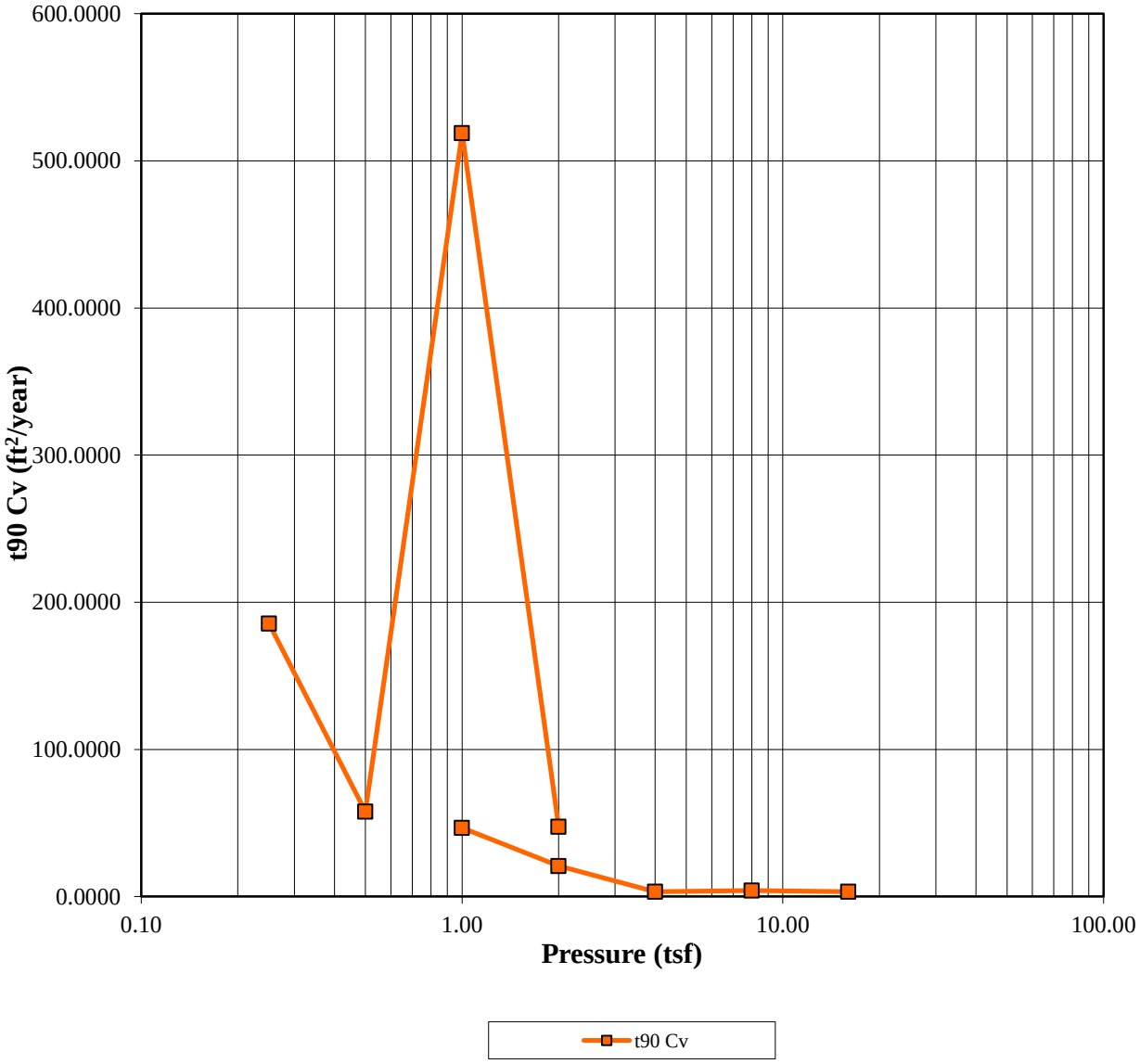
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	9/27/17
Moisture (%):	53.09	41.62	**Plastic Limits:**	0		
Dry Density (pcf):	67.73	80.28	**Plasticity Index (%):**	0		
Saturation (%):	98.10	104.80				
Void Ratio:	1.4192	0.9833	**Specific Gravity:**	2.628	Measured	

Soil Description:	FAT CLAY(CH A-7-6(53))			
Project Number:	7928	**Depth:**	63.0-65.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-121	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

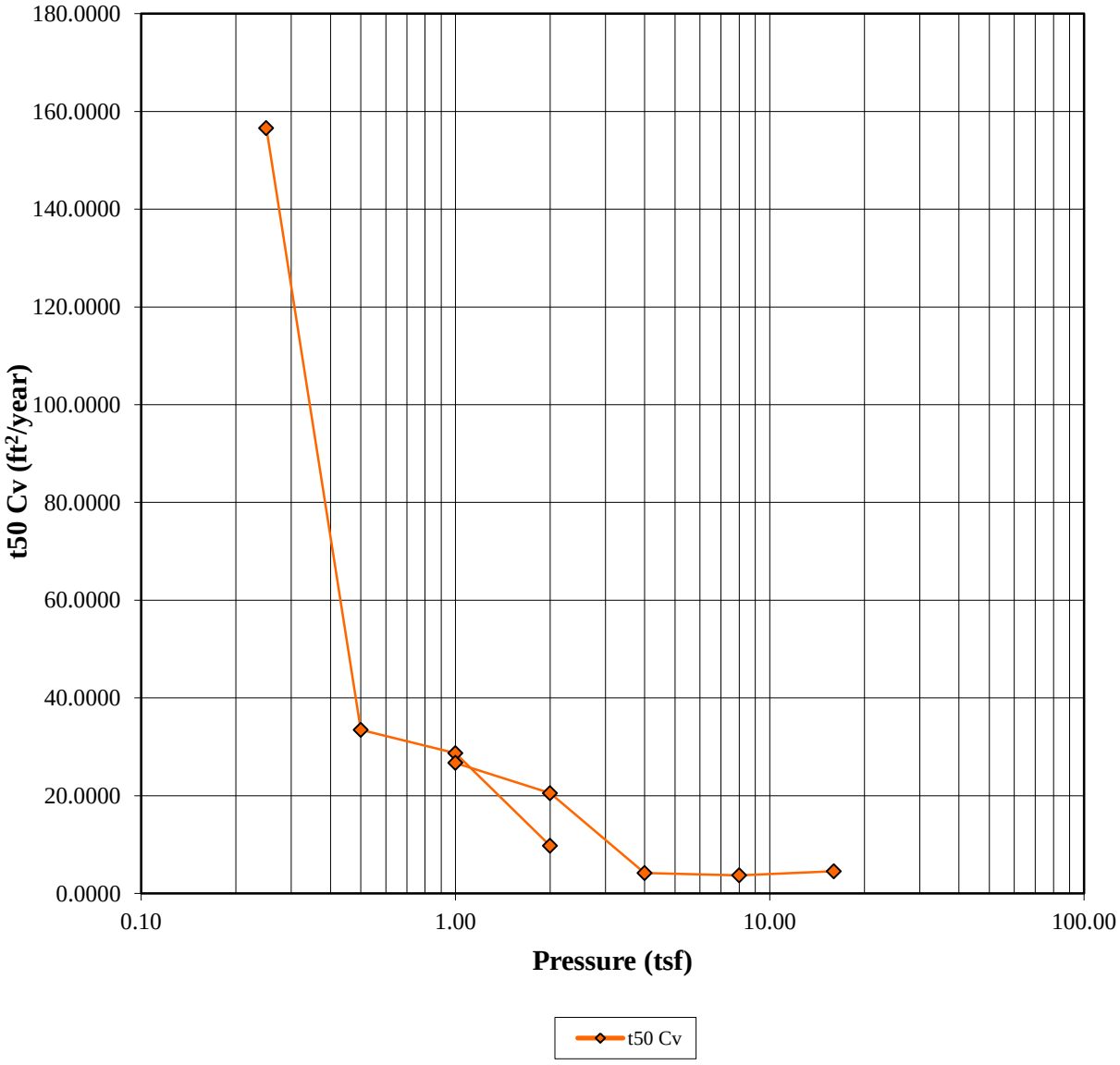
Consolidation Test
Test Results



	Before	After				
Moisture (%):	53.09	41.62	**Liquid Limits:**	0	**Test Date:**	9/27/17
Dry Density (pcf):	67.73	80.28	**Plastic Limits:**	0		
Saturation (%):	98.10	104.80	**Plasticity Index (%):**	0		
Void Ratio:	1.4192	0.9833	**Specific Gravity:**	2.628	Measured	

Soil Description:	FAT CLAY(CH A-7-6(53))			
Project Number:	7928	**Depth:**	63.0-65.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-121	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

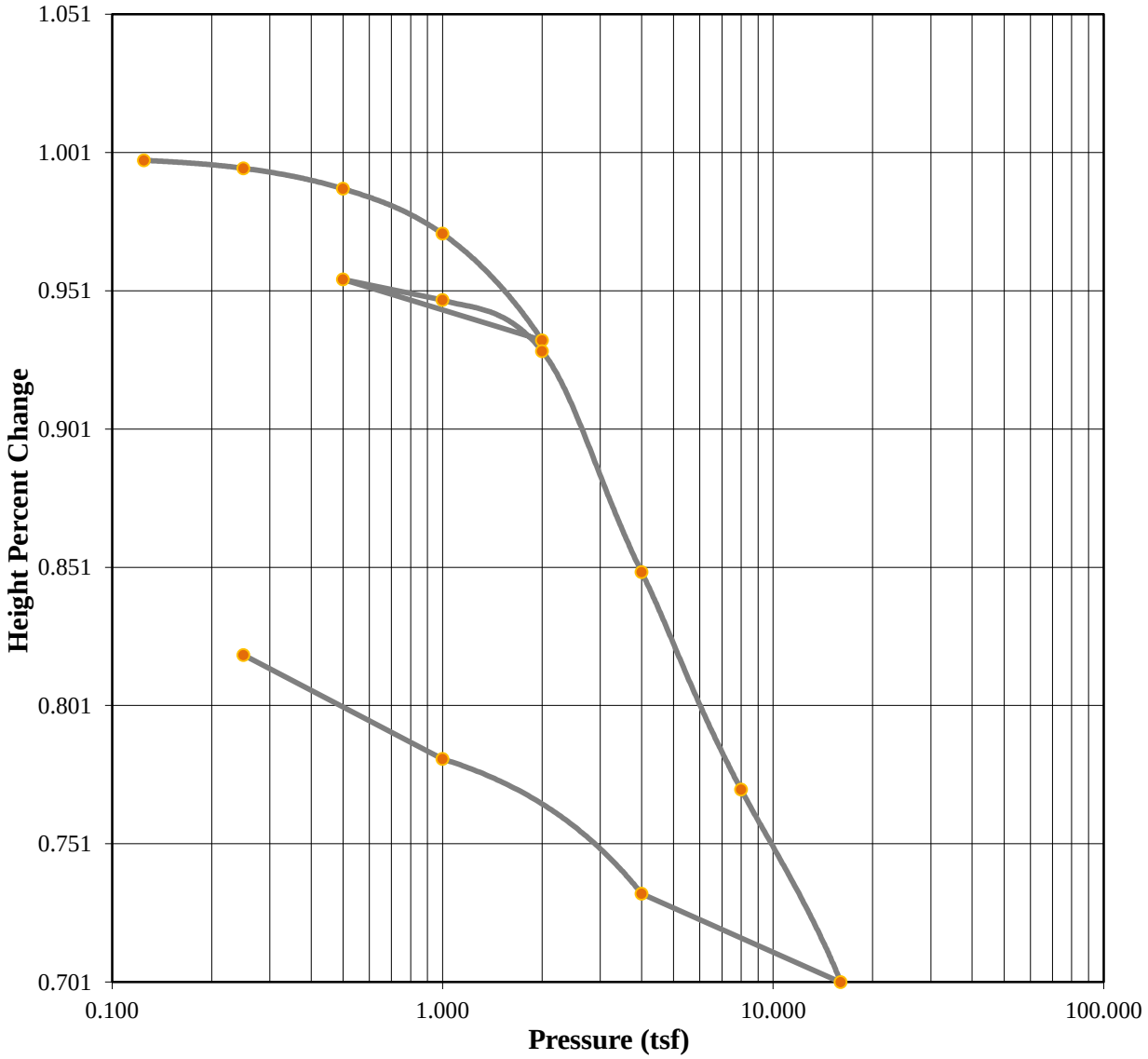
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	9/27/17
Moisture (%):	53.09	41.62	**Plastic Limits:**	0		
Dry Density (pcf):	67.73	80.28	**Plasticity Index (%):**	0		
Saturation (%):	98.10	104.80				
Void Ratio:	1.4192	0.9833	**Specific Gravity:**	2.628	Measured	

Soil Description:	FAT CLAY(CH A-7-6(53))			
Project Number:	7928	**Depth:**	63.0-65.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-121	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	0	**Test Date:**	9/27/17
Moisture (%):	53.09	41.62	**Plastic Limits:**	0		
Dry Density (pcf):	67.73	80.28	**Plasticity Index (%):**	0		
Saturation (%):	98.10	104.80				
Void Ratio:	1.4192	0.9833	**Specific Gravity:**	2.628	Measured	

Soil Description:	FAT CLAY(CH A-7-6(53))			
Project Number:	7928	**Depth:**	63.0-65.0 ft.	**Remarks:**
Sample Number:	T-3	**Boring Number:**	BW-121	
Project:	Mobile River Bridge			
Client:	ALDOT			
Location:	Soils Lab			

Consolidation Test Results
Summary

Project: Mobile River Bridge
Location: Soils Lab
Job Number: 16-1101-0176

Project Number: 7928

Sample Number: T-3
Boring Number: BW-121
Depth: 63.0-65.0 ft.
Sample Type: Undisturbed

Sample Description: FAT CLAY(CH A-7-6(53))
Remarks:

Test Number:
Test Date: 9/27/17

Index	Load Sequence (tsf)	Cummulative Change in Height (in)	Specimen Height (in)	Height of Void (in)	Vertical Strain (%)	Void Ratio	t90 Fitting Time (min)	t50 Fitting Time (min)	t90 Cv (ft2/year)	t50 Cv (ft2/year)
0	0.000	0.0000	0.9990	0.5858	0.00	1.4179	0.000	0.000	0.000	0.000
1	0.125	0.0011	0.9979	0.5847	0.11	1.4151	0.000	0.000	0.000	0.000
2	0.250	0.0040	0.9950	0.5818	0.40	1.4082	4.128	1.136	185.565	156.626
3	0.500	0.0114	0.9876	0.5744	1.14	1.3903	13.080	5.241	57.702	33.452
4	1.000	0.0277	0.9713	0.5582	2.77	1.3510	1.407	5.907	518.903	28.712
5	2.000	0.0662	0.9328	0.5197	6.62	1.2578	14.160	16.028	47.555	9.760
6	0.500	0.0442	0.9548	0.5416	4.42	1.3109	0.000	0.000	0.000	0.000
7	1.000	0.0516	0.9474	0.5342	5.17	1.2930	14.898	6.040	46.618	26.711
8	2.000	0.0701	0.9289	0.5157	7.02	1.2481	32.084	7.554	20.808	20.532
9	4.000	0.1500	0.8490	0.4358	15.01	1.0549	166.177	30.767	3.357	4.212
10	8.000	0.2287	0.7703	0.3571	22.89	0.8644	112.206	28.829	4.092	3.700
11	16.000	0.2983	0.7007	0.2876	29.86	0.6960	115.537	19.448	3.289	4.539
12	4.000	0.2663	0.7327	0.3195	26.66	0.7733	0.000	0.000	0.000	0.000
13	1.000	0.2176	0.7814	0.3683	21.78	0.8913	0.000	0.000	0.000	0.000
14	0.250	0.1800	0.8190	0.4058	18.02	0.9822	0.000	0.000	0.000	0.000

Predicted value indicated with *

Tested By: B. Hak

Checked By: C. Dugger

Consolidation Test
Consolidation Specimen Information

Project: Mobile River Bridge **Project Number:** 7928
Location: Soils Lab
Job Number: 16-1101-0176 **Test Date:** 9/27/17

Sample Number: T-3 **Sample Description:**
Boring Number: BW-121 FAT CLAY(CH A-7-6(53))
Depth: 63.0-65.0 ft. **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 0.0000 **Initial Void Ratio:** 1.4192 **Initial Height (in):** 0.9990
Plastic Limit: 0.0000 **Plasticity Index (%):** 0.0000 **Initial Diameter (in):** 2.5010
Specific Gravity: 2.6280 Measured **Weight of Ring (g):** 111.0800

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	93.46	249.26
Dry Soil + Container (g)	69.85	214.09
Weight of Container (g)	25.38	129.58
Moisture Content (%)	53.09	41.62
Void Ratio	1.4192	0.9833
Saturation (%)	98.10	104.80
Dry Density (pcf)	67.73	80.28

Tested By: B. Hak **Checked By:** C. Dugger

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ENGINEERING

December 16, 2016

CLIENT: Alabama Department of Transportation **JOB #:** 15-1101-0228
PROJECT: I-10 Mobile River Bridge **ALDOT PE No.:** DPI-0030(005)

REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-62 T-1 (2/4) 28.5'-30.5'	FAT CLAY (CH) A-7-6(70)	523	332
BW-62 T-2 (4/4) 38.5'-40.5'	FAT CLAY (CH) A-7-6(70)	669	336
BW-62 T-3 (2/4) 58.5'-60.5'	LEAN CLAY (CL) A-7-6(32)	886	282
BW-62 T-4 (4/4) 68.5'-70.5'	LEAN CLAY (CL) A-7-6(32)	1188	443
BW-63 T-1 (4/4) 23.5'-25.5'	FAT CLAY (CH) A-7-6(27)	345	265
BW-63 T-2 (1/3) 33.5'-35.5'	FAT CLAY (CH) A-7-6(75)	205	100
BW-63 T-4 (2/4) 48.5'-50.5'	FAT CLAY (CH) A-7-6(75)	624	161
BW-63 T-5 (2/4) 63.5'-65.5'	FAT CLAY (CH) A-7-6(47)	1762	332
BW-63 T-6 (3/3) 73.5'-75.5'	FAT CLAY (CH) A-7-6(47)	231	74
BW-64 T-1 (3/3) 18.5'-20.5'	FAT CLAY (CH)	336	243
BW-64 T-2 (4/4) 28.5'-30.5'	FAT CLAY (CH) A-7-5(72)	565	295
BW-64 T-3 (2/4) 38.5'-40.5'	FAT CLAY (CH) A-7-6(37)	518	269
BW-64 T-4 (2/4) 53.5'-55.5'	LEAN CLAY (CL) A-7-6(31)	966	383
BW-64 T-5 (1/3) 68.5'-70.5'	FAT CLAY (CH) A-7-6(35)	1299	614
BW-67 T-1 (2/4) 23.5'-25.5'	FAT CLAY (CH) A-7-6(47)	210	83
BW-67 T-2 (4/4) 33.5'-35.5'	FAT CLAY (CH) A-7-5(62)	483	121

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December 16, 2016

CLIENT: Alabama Department of Transportation **JOB #:** 15-1101-0228
PROJECT: I-10 Mobile River Bridge **ALDOT PE No.:** DPI-0030(005)

REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-67 T-3 (2/4) 43.5'-45.5'	SILT (MH) A-7-5(49)	503	201
BW-67 T-4 (2/4) 58.5'-60.5'	FAT CLAY (CH) A-7-6(44)	1027	624
BW-67 T-5 (2/4) 68.5'-70.5'	FAT CLAY (CH) A-7-6(44)	876	292
BW-78 T-1 (1/3) 23.5'-25.5'	SILTY GRAVEL with SAND (GM) A-2-4(0)	322	185
BW-78 T-3 (3/4) 43.5'-45.5'	FAT CLAY (CH) A-7-6(58)	332	134
BW-79 T-1 (3/4) 23.5'-25.5'	SANDY LEAN CLAY (CL) A-6(0)	453	171
BW-79 T-2 (2/4) 33.5'-35.5'	FAT CLAY (CH) A-7-6(67)	180	138
BW-80 T-1 (1/3) 23.5'-25.5'	FAT CLAY (CH) A-7-6(75)	332	201
BW-80 T-2 (4/4) 33.5'-35.5'	FAT CLAY (CH) A-7-6(54)	509	170
BW-83 T-3 (2/4) 53.5'-55.5'	FAT CLAY (CH) A-7-6(51)	493	322
BW-86 T-1 (2/3) 23.5'-25.5'	LEAN CLAY (CL) A-6(16)	558	198
BW-86 T-2 (1/3) 33.5'-35.5'	FAT CLAY (CH) A-7-6(50)	320	248
BW-86 T-4 (2/3) 48.5'-50.5'	FAT CLAY (CH) A-7-6(41)	786	343
BW-86 T-6 (3/3) 68.5'-70.5'	SILTY SAND (SM)	236	51
BW-87 T-1 (3/4) 28.5'-30.5'	FAT CLAY (CH) A-7-6(52)	599	350
BW-87 T-3 (3/3) 48.5'-50.5'	FAT CLAY (CH)	731	322

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REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-87 T-4 (3/3) 58.5'-60.5'	FAT CLAY (CH) A-7-6(41)	624	262
BW-87 T-5 (4/4) 65.5'-67.5'	FAT CLAY (CH) A-7-6(41)	544	59
BW-88 T-2 (4/4) 33.5'-35.5'	FAT CLAY (CH)	493	272
BW-88 T-3 (2/4) 43.5'-45.5'	FAT CLAY (CH) A-7-6(47)	715	393
BW-88 T-4 (4/4) 58.5'-60.5'	SILTY SAND (SM) A-4	516	121
BW-89 T-1 (3/4) 18.5'-20.5'	SANDY SILT (ML) A-4(0)	370	91
BW-89 T-2 (3/3) 28.5'-30.5'	FAT CLAY (CH)	530	301
BW-89 T-3 (2/2) 33.5'-35.5'	FAT CLAY (CH)	523	295
BW-89 T-4 (3/4) 43.5'-45.5'	FAT CLAY (CH) A-7-6(39)	835	454
BW-89 T-5 (3/4) 53.5'-55.5'	FAT CLAY (CH) A-7-6(39)	1826	1244
BW-90 T-1 (4/4) 3.5'-15.5'	LEAN CLAY with SAND (CL)	468	253
BW-90 T-2 (3/3) 23.5'-25.5'	LEAN CLAY with SAND (CL)	392	170
BW-92 T-1 (4/4) 15.5'-17.5'	LEAN CLAY with SAND (CL) A-6(9)	385	170
BW-92 T-2 (4/4) 23.5'-25.5'	FAT CLAY (CH)	322	239
BW-92 T-3 (3/3) 33.5'-35.5'	FAT CLAY (CH) A-7-6(30)	374	201
BW-92 T-4 (2/4) 73.5'-75.5'	CLAYED SAND (SC) A-2-7(1)	227	122

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PROJECT: I-10 Mobile River Bridge **ALDOT PE No.:** DPI-0030(005)

REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-92 T-5 (2/2) 80.5'-82.5'	FAT CLAY (CH)	2084	946
BW-92 T-6 (1/4) 90.5'-92.5'	SANDY FAT CLAY (CH) A-7-6(21)	322	198
BW-93 T-1 (2/2) 23.5'-25.5'	FAT CLAY (CH)	307	181
BW-93 T-2 (2/4) 28.5'-30.5'	FAT CLAY (CH) A-7-5(46)	1923	483
BW-93 T-4 (3/3) 90.5'-92.5'	FAT CLAY (CH) A-7-6(30)	3256	383
BW-94 T-1 (4/4) 15.5'-17.5'	FAT CLAY with SAND (CH)	412	135
BW-94 T-2 (3/3) 23.5'-25.5'	FAT CLAY with SAND (CH) A-7-6(34)	383	181
BW-94 T-3 (2/4) 90.5'-92.5'	FAT CLAY (CH) A-7-6(44)	987	274
BW-95 T-1 (3/3) 15.5'-17.5'	FAT CLAY (CH) A-7-6(28)	329	204
BW-95 T-2 (4/4) 20.5'-22.5'	FAT CLAY (CH) A-7-6(28)	371	232
BW-95 T-3 (2/4) 28.5'-30.5'	CLAYEY SAND (SC) A-2-6(1)	495	80
BW-95 T-3 (4/4) 28.5'-30.5'	CLAYEY SAND (SC) A-2-6(1)	260	73
BW-96 T-1 (4/4) 15.5'-17.5'	SANDY LEAN CLAY (CL)	378	204
BW-96 T-2 (1/4) 28.5'-30.5'	SANDY LEAN CLAY (CL) A-6(14)	91	58
BW-97 T-1 (3/3) 13.5'-15.5'	FAT CLAY with SAND (CH)	398	177
BW-97 T-3 (2/4) 75.5'-77.5'	LEAN CLAY (CL)	509	357

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REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-98 T-2 (1/1) 28.5'-30.5'	CLAYEY SAND (SC) A-6(3)	149	98
BW-99 T-1 (2/4) 23.5'-25.5'	CLAYEY SAND (SC) A-6(5)	121	52
BW-99 T-2 (3/4) 28.5'-30.5'	SILTY SAND (SM)	1651	604
BW-100 T-2 (1/3) 23.5'-25.5'	CLAYEY SAND (SC) A-6(5)	109	96
BW-101 T-1 (1/4) 15.5'-17.5'	SANDY FAT CLAY (CH) A-7-6(22)	163	45
BW-101 T-3 (4/4) 28.5'-30.5'	FAT CLAY (CH)	585	121
BW-101 T-4 (2/4) 82.5'-85.5'	SANDY SILT (ML) A-4(0)	54	38
BW-102 T-1 (2/4) 8.5'-10.5'	LEAN CLAY with SAND (CL) A-6(9)	315	129
BW-102 T-2 (2/4) 18.5'-20.5'	FAT CLAY with SAND (CH) A-7-6(37)	121	59
BW-102 T-3 (1/4) 28.5'-30.5'	FAT CLAY (CH) A-7-6(56)	235	91
BW-103 T-1 (2/4) 8.0'-10.0'	LEAN CLAY (CL) A-6(11)	412	134
BW-103 T-2 (2/4) 18.5'-20.5'	CLAYEY SAND (SC) A-6(6)	343	170
BW-103 T-4 (2/4) 70.5'-72.5'	CLAYEY SAND (SC) A-7-6(13)	308	73
BW-104 T-1 (2/4) 8.5'-10.5'	SILT (ML) A-4(0)	315	134
BW-104 T-5 (2/2) 109.5'-111.5'	SANDY FAT CLAY (CH) A-7-6(12)	1268	554
BW-105 T-1 (2/4) 18.0'-20.0'	CLAYEY SAND (SC) A-6(2)	122	87

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REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-105 T-2 (1/3) 70.5'-72.5'	LEAN CLAY with SAND (CL) A-6(13)	282	160
BW-105 T-3 (2/4) 78.5'-80.5'	FAT CLAY with SAND (CH) A-7-6(38)	886	349
BW-105 T-4 (2/2) 88.5'-90.5'	FAT CLAY with SAND (CH) A-7-6(38)	294	159
BW-105 T-5 (1/4) 98.5'-100.5'	FAT CLAY (CH) A-7-6(58)	1064	433
BW-105 T-6 (2/2) 113.5'-115.5'	FAT CLAY (CH) A-7-6(58)	2627	211
BW-106 T-1 (3/3) 6.0'-8.0'	SANDY LEAN CLAY (CL) A-6(16)	256	83
BW-106 T-2 (1/3) 15.0'-17.0'	SANDY LEAN CLAY (CL) A-6(11)	108	70
BW-106 T-3 (2/4) 27.0'-29.0'	FAT CLAY (CH) A-7-6(34)	1008	475
BW-106 T-4 (3/3) 35.0'-37.0'	SANDY FAT CLAY (CH)	724	177
BW-106 T-6 (2/4) 100.0'-102.0'	SANDY FAT CLAY (CH) A-7-6(19)	301	38
BW-107 T-1 (2/4) 10.5'-12.5'	SANDY SILT (ML) A-4(0)	383	159
BW-107 T-2 (3/3) 18.5'-20.5'	SANDY LEAN CLAY (CL) A-6(7)	438	260
BW-107 T-3 (3/4) 30.5'-32.5'	FAT CLAY (CH) A-7-6(60)	2728	2003
BW-107 T-4 (3/4) 38.5'-40.5'	FAT CLAY with SAND (CH) A-7-6(43)	70	41
BW-108 T-1 (2/2) 18.5'-20.5'	FAT CLAY (CH)	396	189
BW-108 T-2 (4/4) 30.5'-32.5'	FAT CLAY (CH)	1268	624

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REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-108 T-3 (4/4) 38.5'-40.5'	FAT CLAY (CH)	1507	163
BW-109 T-1 (4/4) 14.5'-16.5'	SANDY LEAN CLAY (CL) A-6(6)	322	45
BW-109 T-2 (4/4) 19.5'-21.5'	CLAYEY SAND (SC)	301	66
BW-110 T-1 (2/4) 95.5'-97.5'	LEAN CLAY with SAND (CL) A-7-6(18)	36	40
BW-115 T-1 (2/4) 13.0'-15.0'	SANDY LEAN CLAY (CL) A-6(4)	349	167
BW-115 T-2 (2/2) 23.5'-25.5'	SANDY LEAN CLAY (CL) A-6(4)	336	45
BW-115 T-4 (2/4) 100.0'-102.0'	FAT CLAY with SAND (CH) A-7-6(30)	161	121
BW-116 T-1 (3/4) 6.0'-8.0'	CLAYEY SAND (SC) A-6(1)	155	108
BW-116 T-2 (2/4) 23.5'-25.5'	SILTY SAND (SM) A-4(0)	262	40
BW-117 T-1 (4/4) 8.5'-10.5'	FAT CLAY (CH) A-7-6(29)	260	80
BW-117 T-2 (3/4) 18.0'-20.0'	SANDY LEAN CLAY (CL) A-6(7)	265	138
BW-118 T-2 (1/3) 75.5'-77.5'	LEAN CLAY with SAND (CL) A-6(7)	429	78
BW-119 T-1 (3/3) 13.5'-15.5'	SANDY CLAY (CL)	222	104
BW-120 T-1 (3/3) 6.0'-8.0'	SANDY FAT CLAY (CH) A-7-5(30)	176	62
BW-120 T-2 (3/3) 45.5'-47.5'	POORLY GRADED SAND (SP) A-3(0)	187	27
BW-126 T-1 (3/3) 0.0'-2.0'	SANDY CLAY (CL)	184	80

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REPORT OF: LABORATORY MOTORIZED VANE SHEAR TEST - ASTM D 4648

SAMPLE I.D.	SAMPLE DESCRIPTION	VANE SHEAR STRENGTH (PSF) UNDISTURBED	VANE SHEAR STRENGTH (PSF) RE-MOLDED
BW-127 T-1 (1/1) 79.0'-81.0'	SILTY SAND (SM)	191	60
		0	0
		0	0
		0	0
		0	0
		0	0
		0	0
		0	0
		0	0
		0	0
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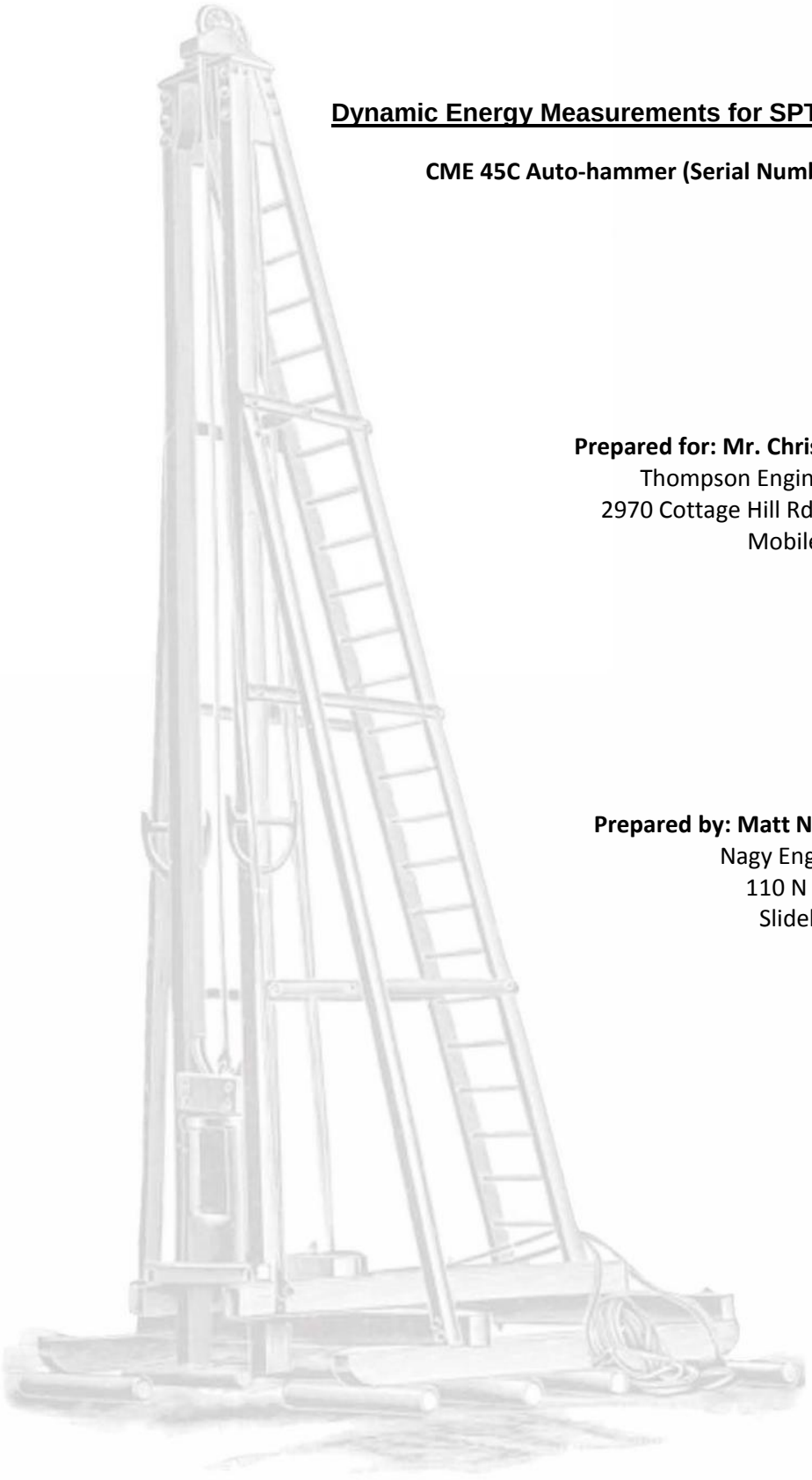
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APPENDIX D

- **Drill Rig Hammer Energy Report**

Nagy Engineers, Inc.



Dynamic Energy Measurements for SPT Hammer

CME 45C Auto-hammer (Serial Number 244224)

Prepared for: Mr. Chris Dugger of
Thompson Engineering, Inc.
2970 Cottage Hill Rd., Suite 190
Mobile, AL 36606

Prepared by: Matt Nagy, P.E. of
Nagy Engineers, Inc.
110 N Queens Dr.
Slidell, LA 70458

Nagy Engineers, Inc.
- Deep Foundation Specialty Testing -

June 1, 2016

Mr. Chris Dugger
Thompson Engineering, Inc.
2970 Cottage Hill Road, Suite 190
Mobile, AL 36606

Re: SPT Hammer Calibration using Dynamic Energy Measurements
Thompson Engineering Drill Rig – CME 45C Auto Hammer (S/N 244224)
Nagy Engineers Job No. 161011-1

Dear Mr. Dugger:

This report summarizes the results from SPT Energy Measurement Testing performed at the Mobile River Bridge Project on April 26, 2016. The testing was conducted to calibrate a CME 45C Automatic SPT hammer. The hammer reportedly had a 140 lb drop weight and a 2.5 ft drop height. Appendix A gives a summary of the field dynamic test data and results while Appendix B contains the equipment calibration sheets. An overall summary of the test results is presented in Table 1.

OBJECTIVES

The objective of the testing was to perform SPT Energy Measurements according to ASTM D4633-10. These objectives were met using our Pile Driving Analyzer®, Model PAX – SPT Software, which acquired the SPT hammer's transfer energies using an instrumented AWJ rod section and two piezoresistive accelerometers.

TESTING AND EQUIPMENT

Drilling and SPT Hammer Equipment

SPT energy measurements were collected for a CME 45C Automatic SPT hammer. The serial number on the rig was s/n 244224. Energy records were collected at various increments between the depths of 78.5 ft and 105.0 ft. The drilling method was side discharge mud rotary. Appendix A contains a photo of the CME 45C rig that was tested.

Instrumentation

A Model PAX Pile Driving Analyzer® (PDA) data acquisition system was used to collect and process the dynamic measurements of force and velocity. The PAX is a digital system having a low pass filter cutoff frequency of 5 kHz. The sampling frequency was therefore set to 10 times the low pass filter, or 50 kHz. A two foot long section of AWJ rod subsection was instrumented with one full bridge foil resistance strain

gage and two piezoresistive accelerometers mounted at the midpoint location of the instrumented subsection. Strain and acceleration signals were conditioned, digitized, stored and processed using the PDA. Selected output from the PDA for each recorded impact included the maximum calculated rod top force (FMX), maximum rod top velocity (VMX), maximum average compressive stress (CSX), maximum energy transfer (EMX), energy transfer ratio (ETR) and the hammer operating rate (BPM).

MEASUREMENTS AND CALCULATIONS

FV Method (EMX)

Energy transfer to the PDA gage location, EMX, was computed by the PDA using force, F(t), and velocity, v(t), records as follows:

$$EMX = \int_a^b F(t) \cdot v(t) dt$$

The time "a" corresponds to the start of the record when the energy transfer begins, and "b" is the time at which energy transferred to the rod reaches a maximum value. The FV Method is currently recognized in ASTM D4633-10, and is the theoretically correct result; therefore, no other energy calculation methods are reported.

RESULTS

Upon return to the office, the records collected by the PDA were checked for consistency and accuracy. For example, records from very weak startup or final impacts were not included in the results. Appendix A contains a representative plot of force and normalized velocity versus time and PDIPLOT results for all hammer blows at each dynamically monitored sampling depth. The PDA results include the EMX (transferred energy by the EMX method, as recommended by ASTM D4633-10), ETR (energy transfer ratio), BPM (hammer operating rate), FMX (maximum rod top force), CSX (maximum compressive stress), and VMX (maximum rod top velocity). The plots show each calculated PDA result versus sampling spoon penetration while the tables show statistical summaries for each 6 inch increment. At the end of each table, on the next page, is a statistical evaluation of the results which only include the blows that correspond to the N-Value for that sample.

Table 1 summarizes the average transfer energy values calculated by the EMX method. The records averaged consist only of the hammer blows at each dynamically monitored sampling depth that correspond to the N-Values (i.e. the blows in the initial 6 inches of split spoon driving were not considered as part of the average). The “energy transfer ratio” (ETR) is defined as the ratio of maximum transferred

energy EMX divided by the theoretical hammer potential energy of 350 ft-lbs. The average hammer operating rate is reported in blows per minute (BPM).

CONCLUSIONS

RIG: CME 45C Auto-hammer (s/n: 244224) - 140 lbs Hammer – 2.5 ft Drop Height

The average maximum energy transfer (EMX) to the AWJ SPT rod using the 140 lbs drop weight was 323 ft-lbs which is 92% of the 350 ft-lbs potential energy of the hammer. The standard deviation of the transfer efficiency was 1% over the six samples that were collected. The average hammer operation rate during the time of testing was 54.5 blows/min.

We have appreciated this opportunity to be of assistance to you on this project, please contact our office if you have any questions regarding this report, or if we may be of further service.

Very truly yours,
Nagy Engineers, Inc.



Matthew Nagy, P.E. AL # 33853
Project Engineer

Firm COA Number: 4718

enclosed: Appendices A and B

TABLE 1: Summary of SPT Energy Measurements

CME 45C Automatic SPT Hammer (S/N 244224)

Rod Length Below Gages *LE*	Depth Below Top of Ground	Reported SPT Blow Counts	Maximum Transfer Force *FMX*	Maximum Compressive Stress *CSX*	Average Hammer Blow Rate *BPM*	Average Energy Transfer *EMX*	Average Transfer Efficiency *ETR*
ft	ft	blows/6"	kips	ksi	blows/min	ft-lbs	%
91.0	78.5 to 80.0	8, 9, 10	30	25.3	54.7	329	94%
96.0	83.5 to 85.0	5, 8, 8	30	25.5	54.4	323	92%
101.0	88.5 to 90.0	4, 5, 6	30	25.1	54.6	326	93%
106.0	93.5 to 95.0	10, 18, 22	30	25.3	54.3	321	92%
111.0	98.5 to 100.0	20, 21, 24	30	25.7	54.5	318	91%
116.0	103.5 to 105.0	8, 21, 17	30	25.3	54.5	320	91%
		Overall Average			**54.5**	**323**	**92%**
		Standard Deviation			**0.1**	**4**	**1%**

LE - Length from the bottom of the spoon to the PDA gage location.
FMX - Maximum Force Measured at PDA gage location.
CSX - Maximum Average Compressive Stress at PDA gage location.
BPM - Hammer operation rate (blows/minute)
EMX - Computed, from $\int F v\, dt$, maximum energy transferred to PDA gage location.
ETR - Computed, from EMX/PE, maximum energy transfer efficiency

Appendix A

Results from SPT Dynamic Energy Measurements

Thompson Engineering SPT Rig Calibration

CME 45C Auto Hammer

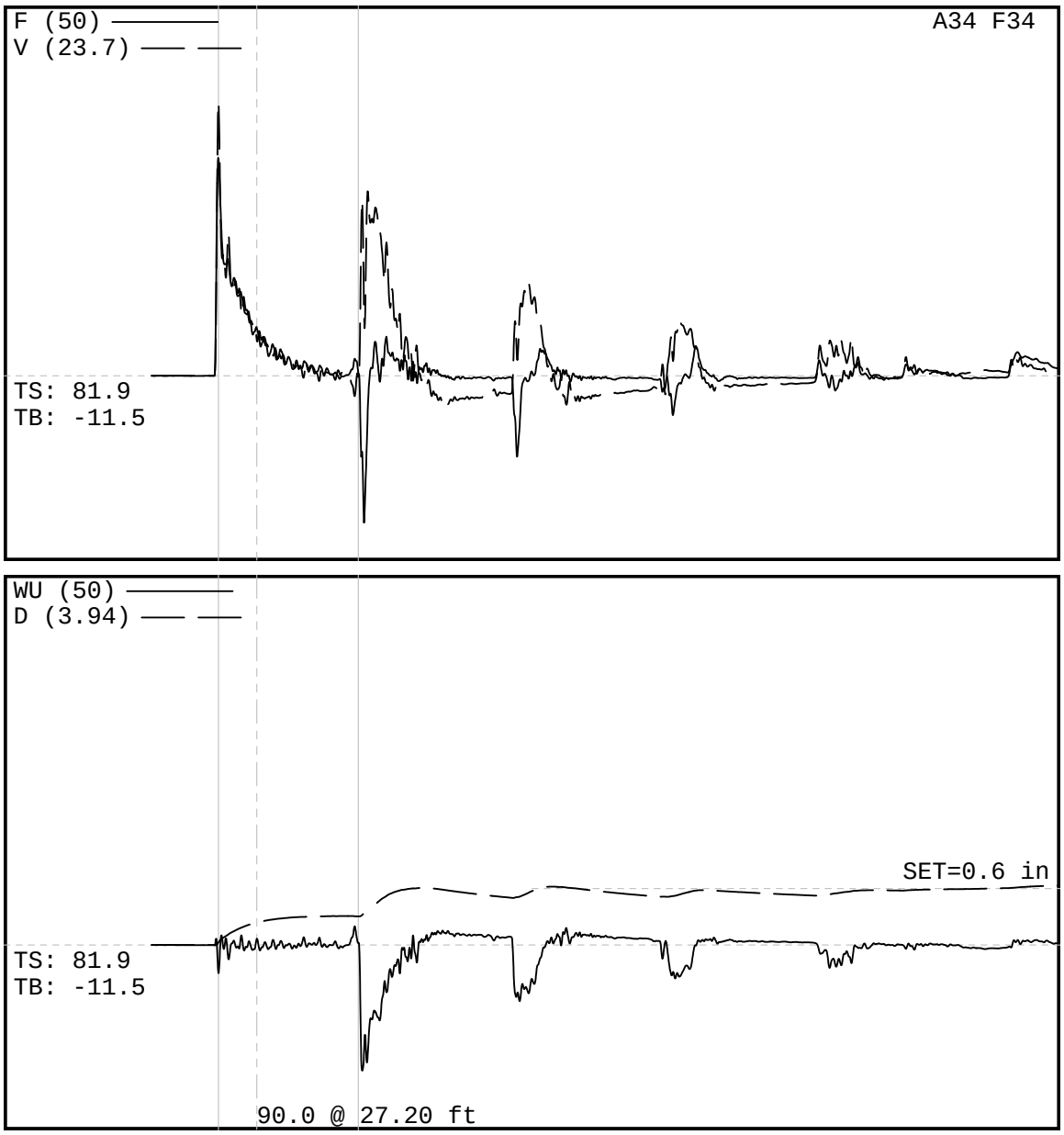
S/N 244224

(AWJ Rod – Side Discharge Mud Rotary)



Thompson Engineering's CME 45C (S/N 244224)

Thompson SPT Calibration CME 45C (SN 244224)_1



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_1
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_1
4/26/2016 11:00:06 AM
Blow Number 18

Pile Properties

LE	91.00	ft
AR	1.18	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	10.84	ms
JC		[]
LP	79.55	ft

Quantity Results

CSX	24.9	ksi
CSI	25.0	ksi
EMX	0.328	k-ft
ETR	93.6	(%)
BPM	54.6	bpm
FMX	29	kips
VMX	17.6	f/s
QNV	0.00	[]
QNV	0.00	[]

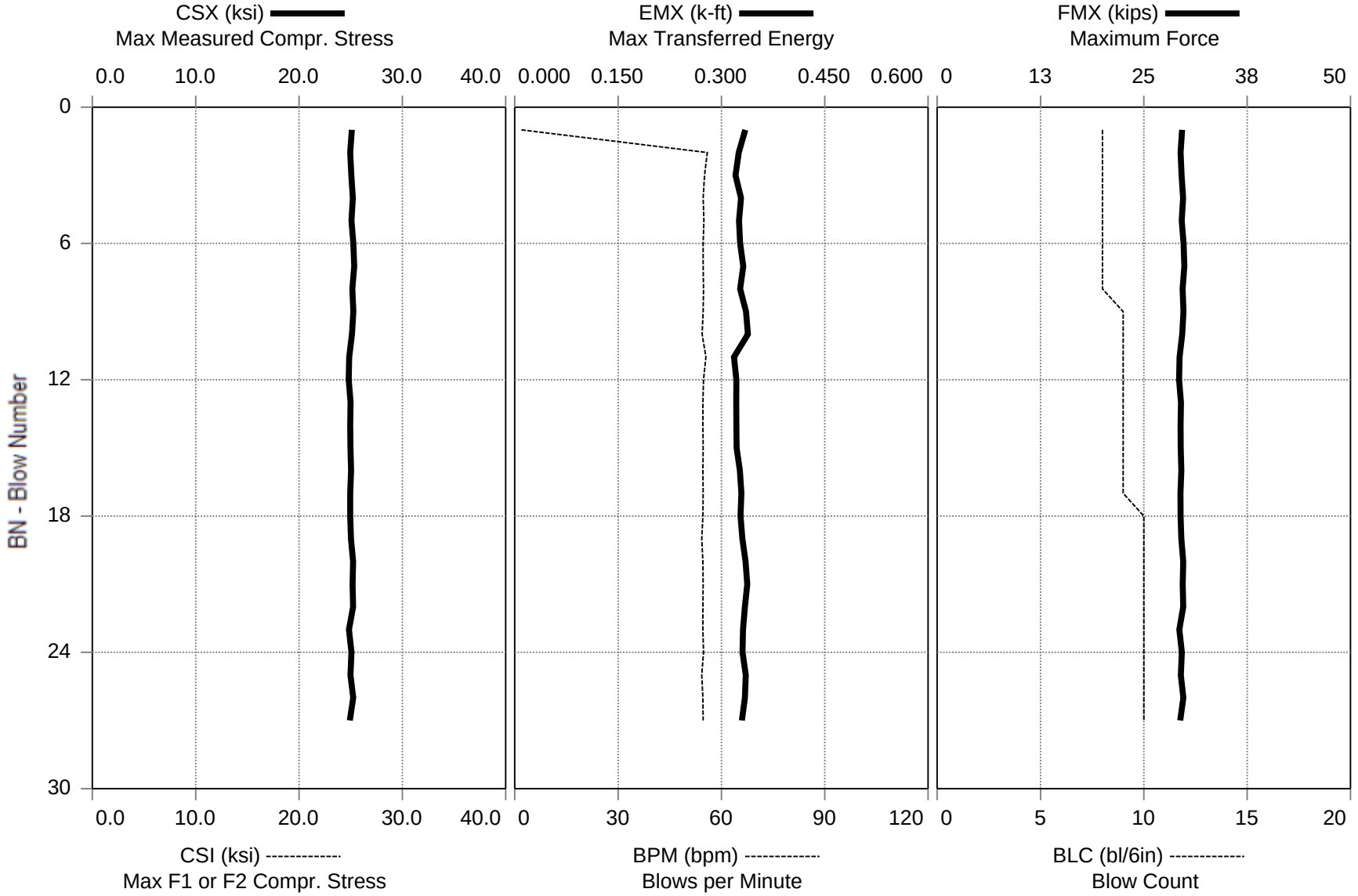
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_1 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_1 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 91.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	79.0	8	AV8	25.1	25.2	0.328	93.6	48.3	30	17.1
			MAX	25.3	25.4	0.335	95.6	55.9	30	17.6
17	79.5	9	AV9	25.0	25.0	0.326	93.2	54.7	29	17.5
			MAX	25.3	25.3	0.338	96.7	55.5	30	17.8
27	80.0	10	AV10	25.1	25.1	0.333	95.0	54.6	30	17.4
			MAX	25.2	25.3	0.337	96.4	54.8	30	17.6
			Average	25.1	25.1	0.329	94.0	52.8	30	17.4
			Maximum	25.3	25.4	0.338	96.7	55.9	30	17.8

Total number of blows analyzed: 27

BL# Sensors

1-16 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)
17 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: off
18-27 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 28 seconds 10:59 AM - 11:00 AM BN 1 - 27

Thompson SPT Calibration - CME 45C (SN 244224)_1 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 91.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	79.1	9	25.3	25.3	0.336	95.9	54.7	30	17.3
10	79.1	9	25.1	25.1	0.338	96.7	54.4	30	17.5
11	79.2	9	24.9	24.9	0.318	90.9	55.5	29	17.2
12	79.2	9	24.8	24.8	0.322	91.9	54.8	29	17.4
13	79.3	9	25.0	25.0	0.322	91.9	54.6	29	17.5
14	79.3	9	25.0	25.0	0.322	91.9	54.6	29	17.6
15	79.4	9	25.0	25.0	0.322	92.0	54.7	29	17.6
16	79.4	9	25.0	25.1	0.327	93.4	54.6	30	17.6
17	79.5	9	24.9	25.0	0.329	94.0	54.7	29	17.8
18	79.6	10	24.9	25.0	0.328	93.6	54.6	29	17.6
19	79.6	10	25.0	25.1	0.330	94.4	54.3	30	17.6
20	79.7	10	25.2	25.3	0.335	95.7	54.6	30	17.2
21	79.7	10	25.2	25.3	0.337	96.4	54.7	30	17.6
22	79.8	10	25.2	25.3	0.334	95.4	54.6	30	17.5
23	79.8	10	24.8	24.9	0.331	94.7	54.6	29	17.4
24	79.9	10	25.1	25.2	0.331	94.4	54.8	30	17.5
25	79.9	10	25.0	25.1	0.335	95.8	54.3	29	17.4
26	80.0	10	25.2	25.3	0.334	95.4	54.6	30	17.2
27	80.0	10	24.9	25.0	0.330	94.2	54.7	29	17.1
		Average	25.0	25.1	0.329	94.1	54.7	30	17.5
		Maximum	25.3	25.3	0.338	96.7	55.5	30	17.8

Total number of blows analyzed: 19

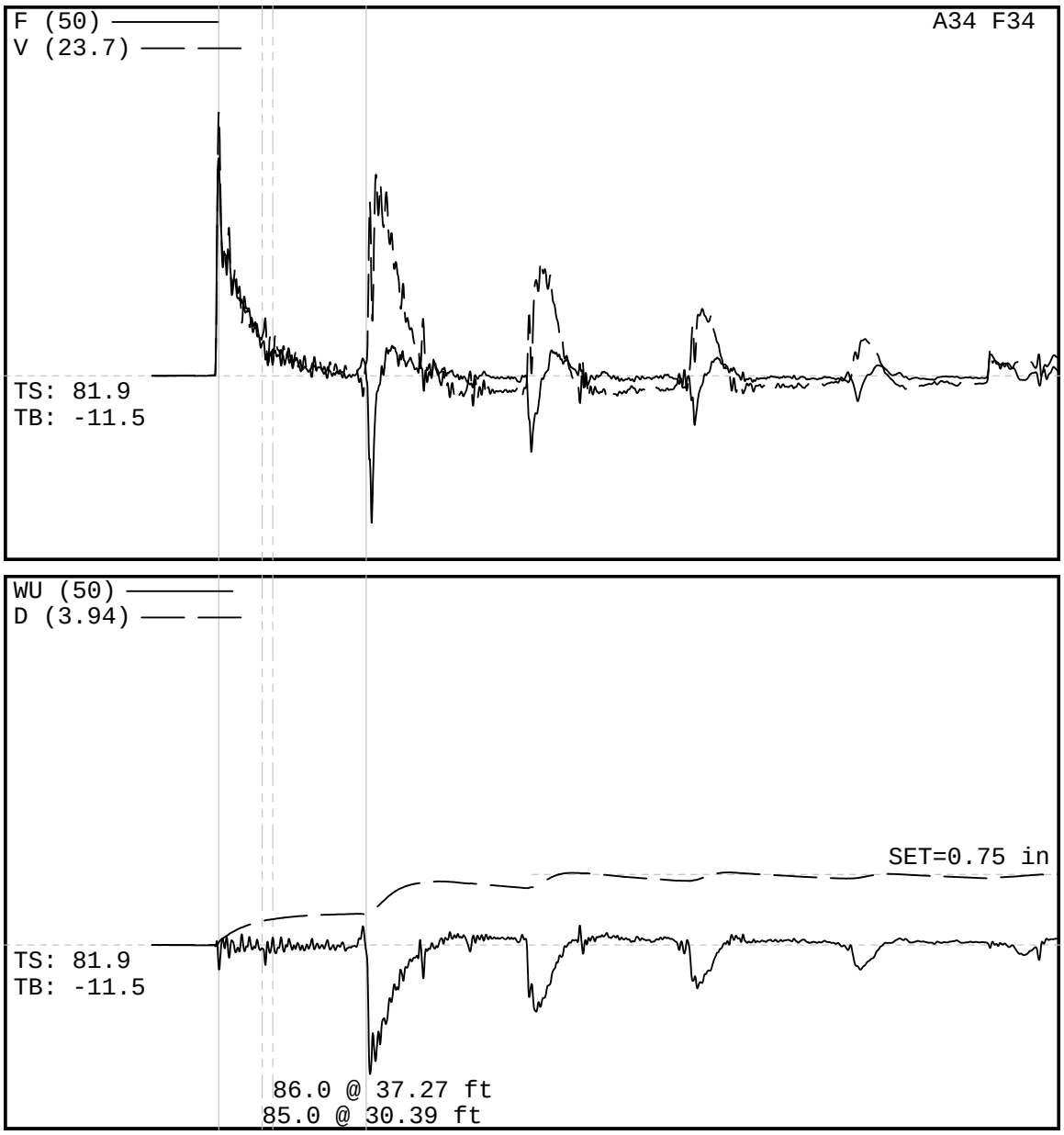
BL# Sensors

9-16 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)
17 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: off
18-27 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 28 seconds 10:59 AM - 11:00 AM BN 1 - 27

Thompson SPT Calibration CME 45C (SN 244224)_2



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_2
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_2
4/26/2016 11:21:40 AM
Blow Number 16

Pile Properties

LE	96.00	ft
AR	1.18	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	11.44	ms
JC		[]
LP	84.69	ft

Quantity Results

CSX	24.9	ksi
CSI	24.9	ksi
EMX	0.328	k-ft
ETR	93.7	(%)
BPM	54.3	bpm
FMX	29	kips
VMX	16.9	f/s
QNV	0.00	[]
QNV	0.00	[]

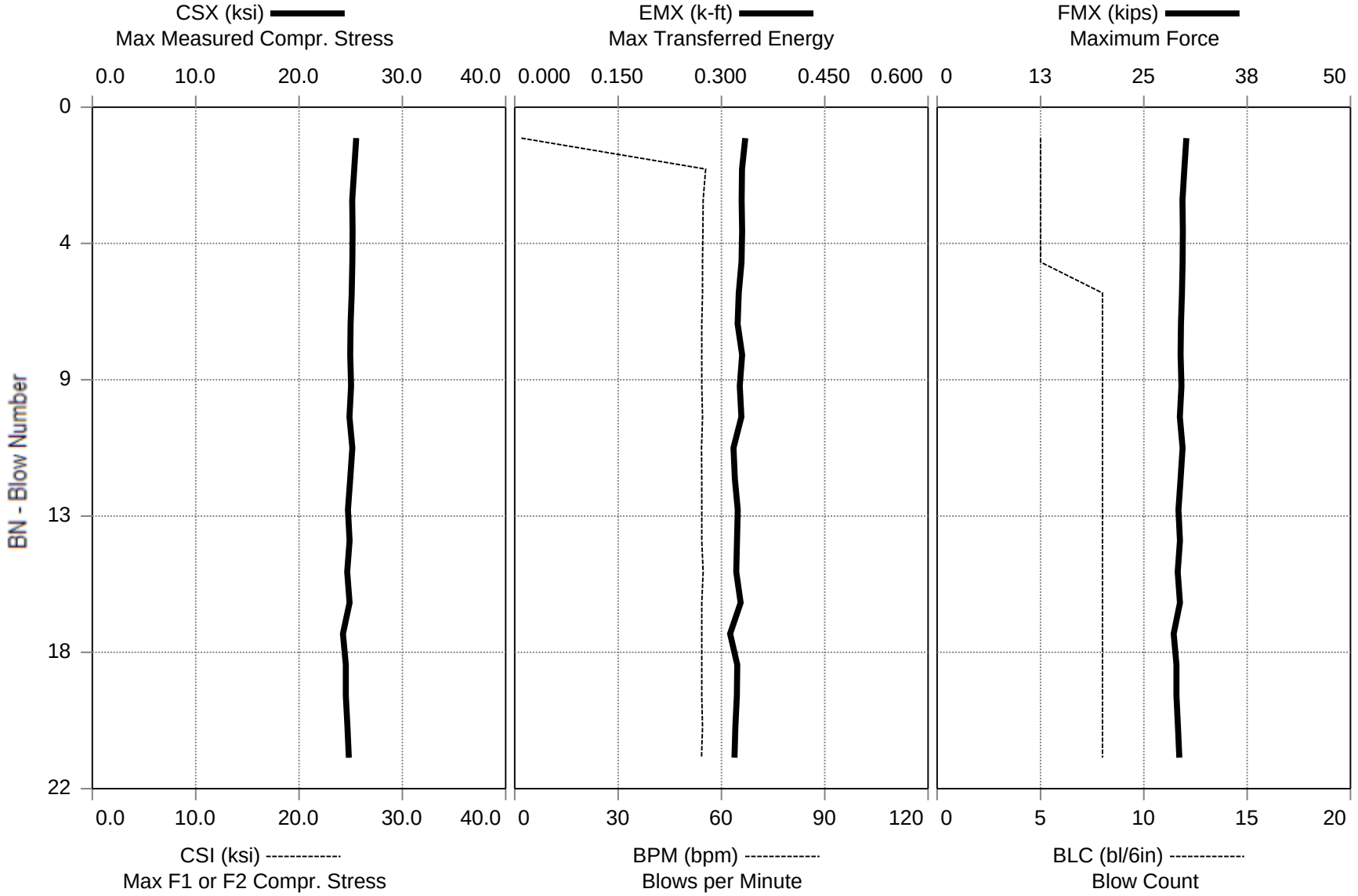
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_2 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_2 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 96.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
5	84.0	5	AV5	25.3	25.4	0.331	94.5	44.2	30	17.1
			MAX	25.5	25.6	0.335	95.6	55.4	30	17.2
13	84.5	8	AV8	25.0	25.0	0.324	92.7	54.3	29	17.1
			MAX	25.2	25.2	0.330	94.3	54.5	30	17.3
21	85.0	8	AV8	24.7	24.7	0.321	91.8	54.4	29	16.8
			MAX	24.9	24.9	0.328	93.7	54.7	29	16.9
			Average	24.9	25.0	0.325	92.7	51.9	29	17.0
			Maximum	25.5	25.6	0.335	95.6	55.4	30	17.3

Total number of blows analyzed: 21

BL# Sensors

1-21 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 22 seconds 11:21 AM - 11:21 AM BN 1 - 21

Thompson SPT Calibration - CME 45C (SN 244224)_2 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 96.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	84.1	8	25.1	25.2	0.325	92.9	54.5	30	17.1
7	84.1	8	25.0	25.1	0.324	92.4	54.3	29	17.2
8	84.2	8	25.0	25.0	0.330	94.3	54.3	29	17.3
9	84.3	8	25.0	25.1	0.327	93.3	54.3	30	17.1
10	84.3	8	24.9	24.9	0.329	94.0	54.5	29	17.1
11	84.4	8	25.2	25.2	0.318	90.7	54.2	30	17.1
12	84.4	8	25.0	25.0	0.319	91.3	54.3	29	17.0
13	84.5	8	24.7	24.7	0.324	92.5	54.3	29	17.0
14	84.6	8	24.9	24.9	0.323	92.2	54.3	29	16.9
15	84.6	8	24.7	24.7	0.322	91.9	54.7	29	16.8
16	84.7	8	24.9	24.9	0.328	93.7	54.3	29	16.9
17	84.8	8	24.2	24.2	0.313	89.3	54.3	29	16.7
18	84.8	8	24.5	24.5	0.323	92.3	54.3	29	16.8
19	84.9	8	24.5	24.6	0.322	92.1	54.3	29	16.8
20	84.9	8	24.7	24.7	0.320	91.5	54.5	29	16.7
21	85.0	8	24.8	24.9	0.319	91.1	54.2	29	16.8
		Average	24.8	24.8	0.323	92.2	54.4	29	17.0
		Maximum	25.2	25.2	0.330	94.3	54.7	30	17.3

Total number of blows analyzed: 16

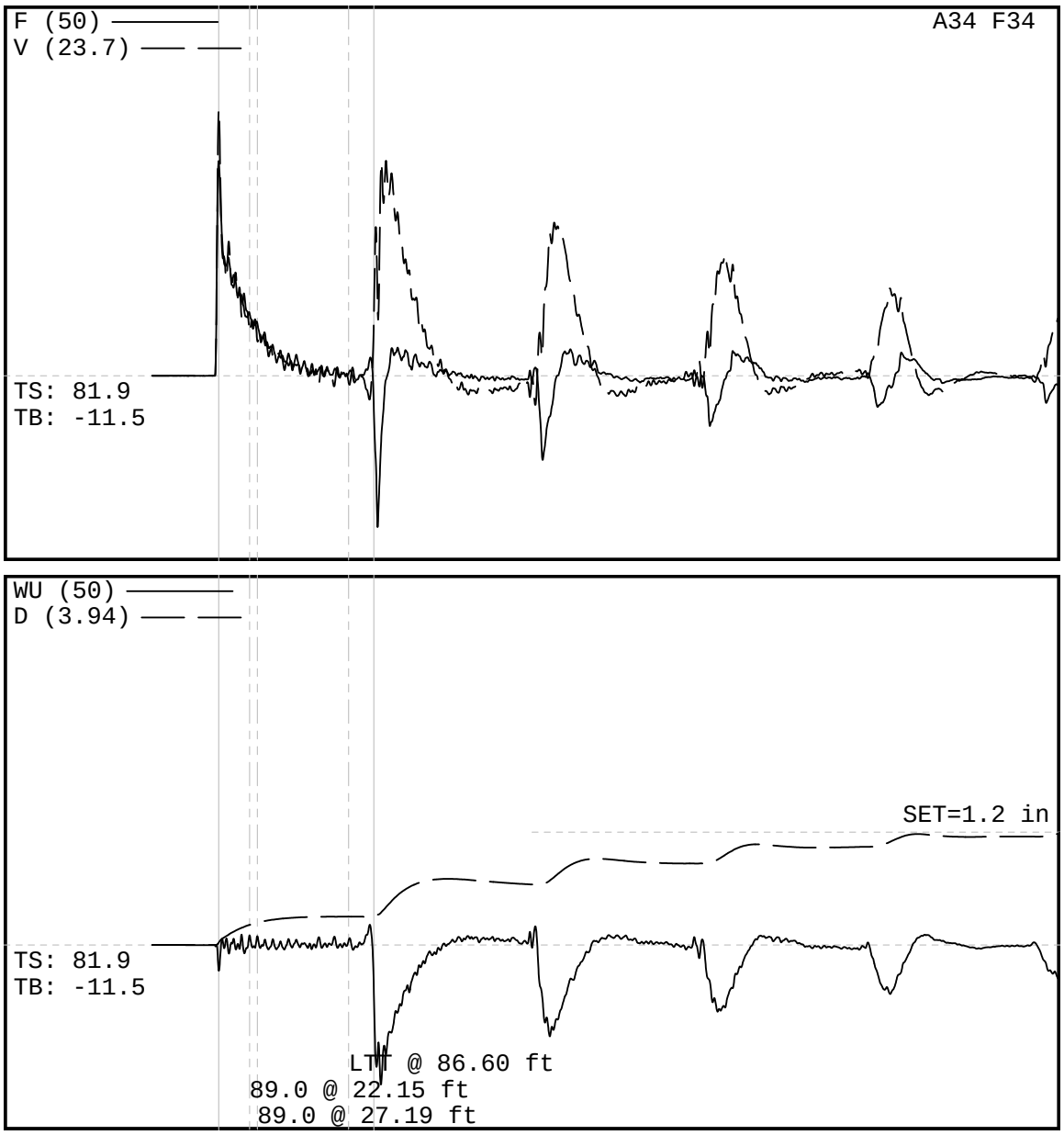
BL# Sensors

6-21 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 22 seconds 11:21 AM - 11:21 AM BN 1 - 21

Thompson SPT Calibration CME 45C (SN 244224)_3



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_3
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_3
4/26/2016 11:52:44 AM
Blow Number 5

Pile Properties

LE	101.00	ft
AR	1.18	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	12.04	ms
JC		[]
LP	89.10	ft

Quantity Results

CSX	24.6	ksi
CSI	24.6	ksi
EMX	0.323	k-ft
ETR	92.4	(%)
BPM	54.7	bpm
FMX	29	kips
VMX	17.1	f/s
QNV	0.00	[]
QNV	0.00	[]

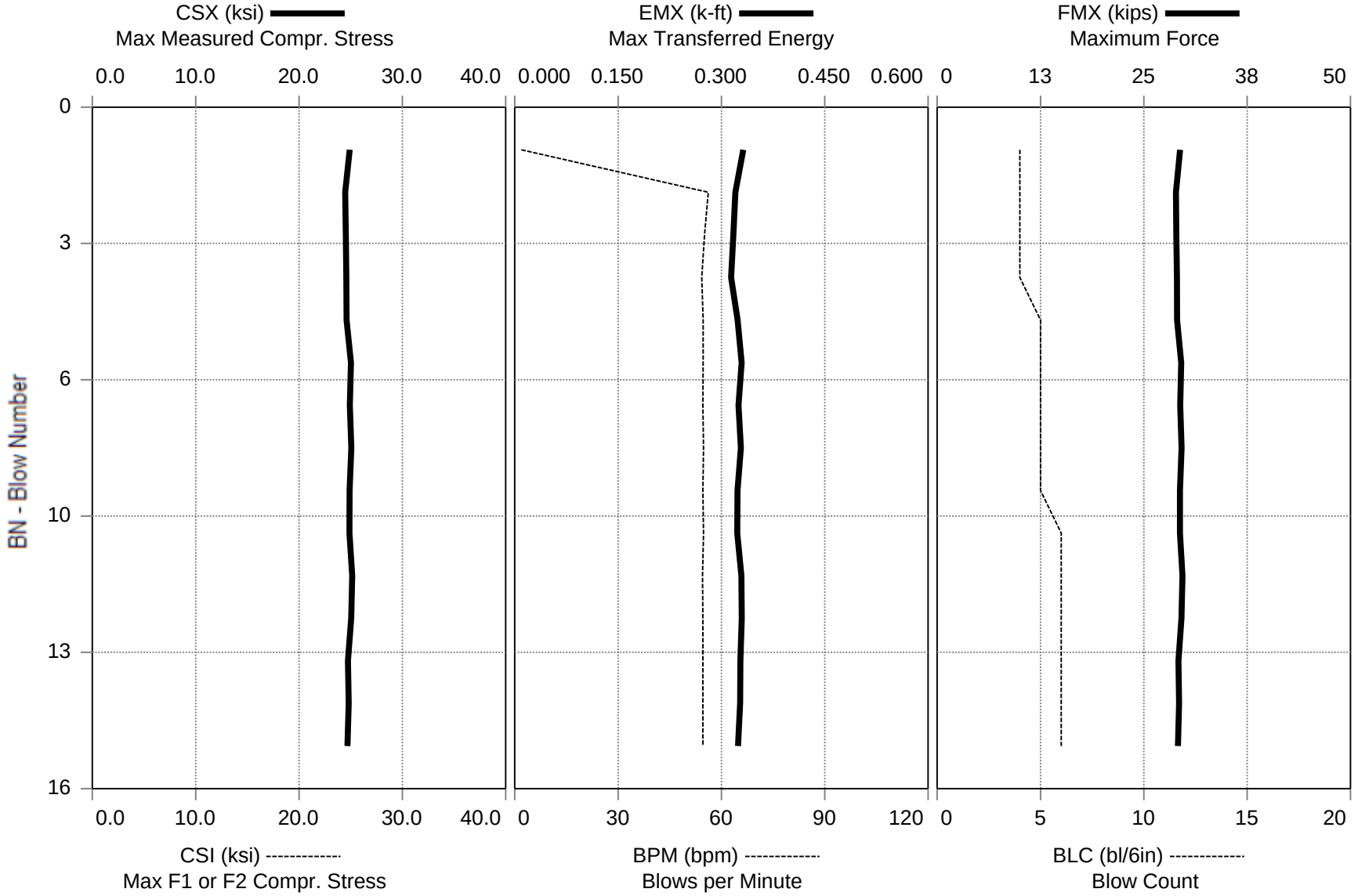
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_3 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_3 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 101.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
4	89.0	4	AV4	24.6	24.7	0.321	91.7	41.9	29	16.8
			MAX	24.9	25.0	0.332	94.8	56.2	29	16.9
9	89.5	5	AV5	24.9	24.9	0.326	93.1	54.7	29	17.1
			MAX	25.1	25.1	0.329	94.1	54.8	30	17.2
15	90.0	6	AV6	24.9	24.9	0.327	93.3	54.6	29	17.1
			MAX	25.1	25.2	0.329	94.1	54.8	30	17.2
			Average	24.8	24.9	0.325	92.8	51.2	29	17.0
			Maximum	25.1	25.2	0.332	94.8	56.2	30	17.2

Total number of blows analyzed: 15

BL# Sensors

1-15 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 15 seconds 11:52 AM - 11:52 AM BN 1 - 15

Thompson SPT Calibration - CME 45C (SN 244224)_3 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 101.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
5	89.1	5	24.6	24.6	0.323	92.4	54.7	29	17.1
6	89.2	5	25.0	25.0	0.329	94.1	54.7	30	17.1
7	89.3	5	24.9	24.9	0.325	92.8	54.6	29	17.1
8	89.4	5	25.1	25.1	0.328	93.8	54.8	30	17.2
9	89.5	5	24.9	24.9	0.323	92.4	54.6	29	17.1
10	89.6	6	24.9	24.9	0.323	92.3	54.8	29	17.0
11	89.7	6	25.1	25.2	0.329	94.0	54.5	30	17.2
12	89.8	6	25.0	25.1	0.329	94.1	54.6	30	17.2
13	89.8	6	24.7	24.8	0.327	93.6	54.6	29	17.2
14	89.9	6	24.8	24.9	0.327	93.5	54.6	29	17.1
15	90.0	6	24.7	24.8	0.324	92.6	54.6	29	17.1
		Average	24.9	24.9	0.326	93.2	54.6	29	17.1
		Maximum	25.1	25.2	0.329	94.1	54.8	30	17.2

Total number of blows analyzed: 11

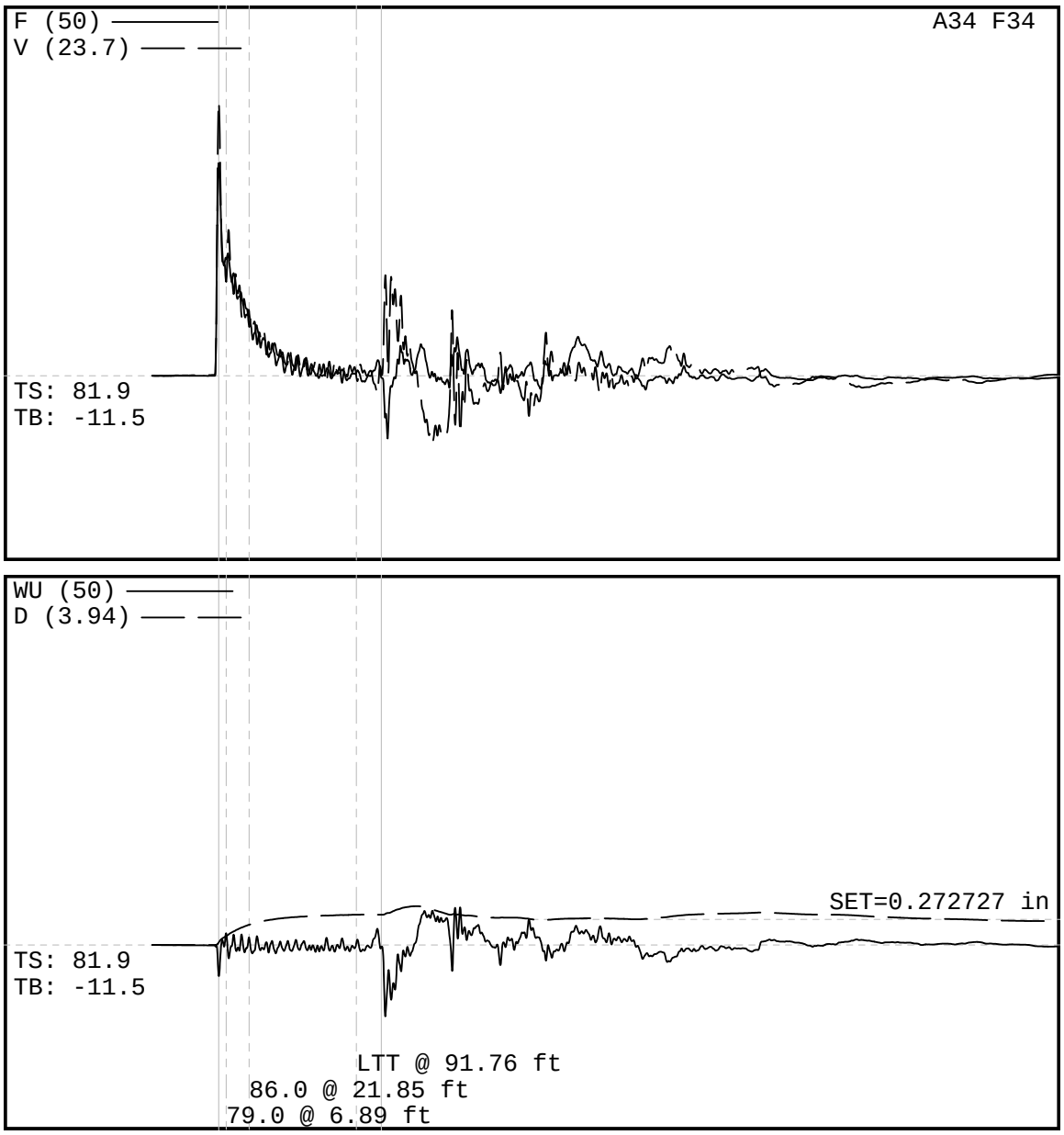
BL# Sensors

5-15 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 15 seconds 11:52 AM - 11:52 AM BN 1 - 15

Thompson SPT Calibration CME 45C (SN 244224)_4



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_4
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_4
4/26/2016 12:21:04 PM
Blow Number 44

Pile Properties

LE 106.00 ft
AR 1.18 in^2
EM 30000 ksi
SP 0.492 k/ft3
WS 16807.9 f/s
EA/C 2.1 ksec/ft
2L/C 12.62 ms
JC []
LP 94.86 ft

Quantity Results

CSX 24.4 ksi
CSI 24.4 ksi
EMX 0.322 k-ft
ETR 92.0 (%)
BPM 54.2 bpm
FMX 29 kips
VMX 17.6 f/s
QNV 0.00 []
QNV 0.00 []

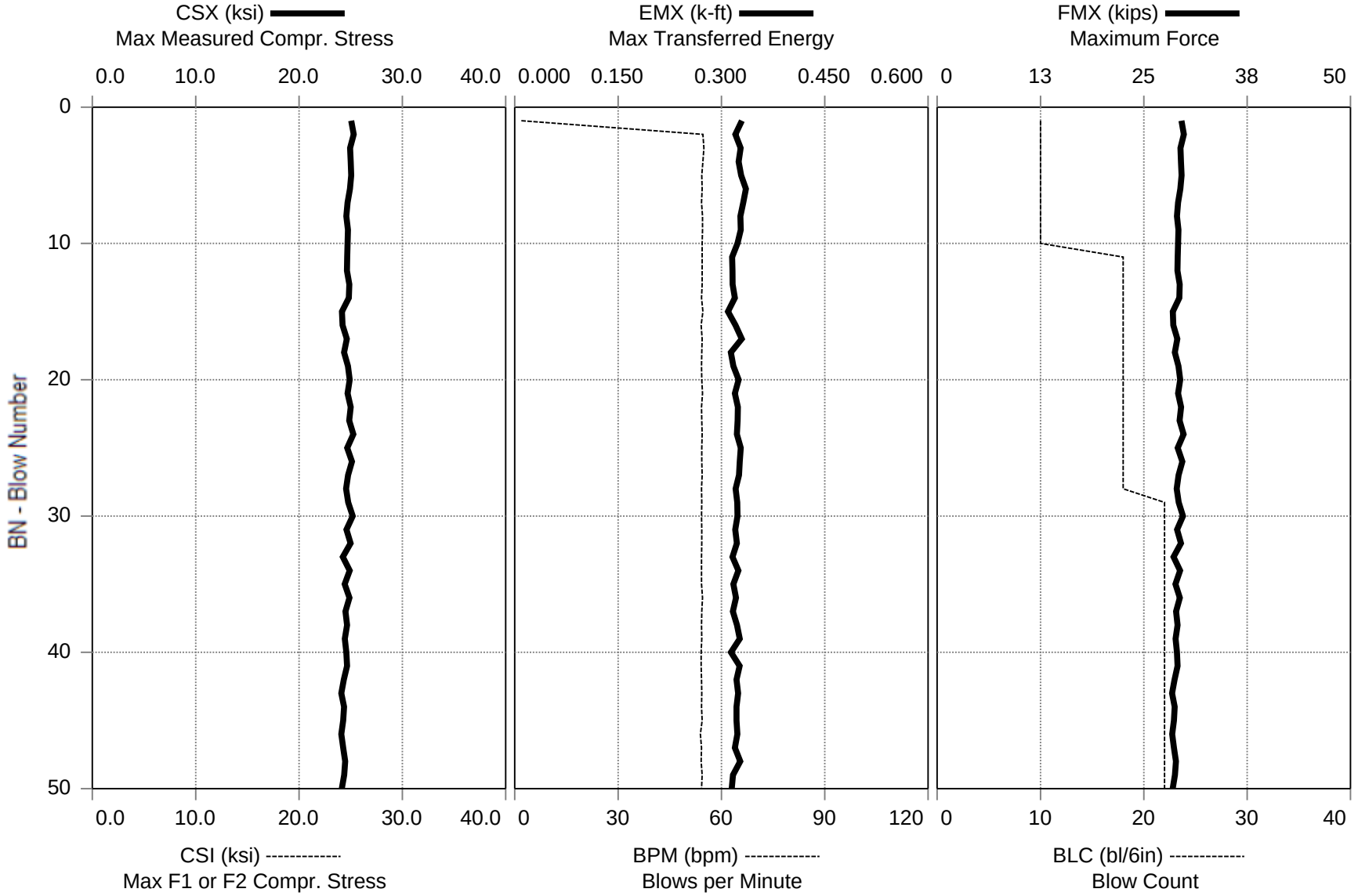
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_4 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_4 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 106.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
10	94.0	10	AV10	24.9	24.9	0.328	93.6	49.2	29	17.4
			MAX	25.3	25.3	0.336	95.9	54.9	30	17.5
28	94.5	18	AV18	24.7	24.7	0.321	91.6	54.3	29	17.4
			MAX	25.3	25.3	0.329	94.1	54.6	30	17.6
50	95.0	22	AV22	24.5	24.5	0.321	91.8	54.2	29	17.5
			MAX	25.2	25.2	0.327	93.5	54.5	30	17.7
			Average	24.7	24.7	0.322	92.1	53.3	29	17.4
			Maximum	25.3	25.3	0.336	95.9	54.9	30	17.7

Total number of blows analyzed: 50

BL# Sensors

1-50 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 54 seconds 12:20 PM - 12:21 PM BN 1 - 50

Thompson SPT Calibration - CME 45C (SN 244224)_4 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 106.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
11	94.0	18	24.7	24.7	0.316	90.2	54.4	29	17.4
12	94.1	18	24.6	24.7	0.316	90.3	54.4	29	17.4
13	94.1	18	24.9	24.9	0.316	90.3	54.4	29	17.6
14	94.1	18	24.8	24.8	0.319	91.3	54.2	29	17.5
15	94.1	18	24.2	24.2	0.310	88.4	54.6	29	17.1
16	94.2	18	24.2	24.2	0.320	91.5	54.1	29	17.3
17	94.2	18	24.6	24.6	0.329	94.1	54.4	29	17.5
18	94.2	18	24.4	24.4	0.314	89.6	54.3	29	17.4
19	94.3	18	24.7	24.8	0.317	90.6	54.2	29	17.4
20	94.3	18	24.9	24.9	0.325	92.8	54.3	29	17.5
21	94.3	18	24.7	24.7	0.319	91.3	54.5	29	17.3
22	94.3	18	25.0	25.0	0.324	92.5	54.2	30	17.4
23	94.4	18	24.9	24.9	0.324	92.4	54.3	29	17.5
24	94.4	18	25.3	25.3	0.322	92.1	54.4	30	17.3
25	94.4	18	24.7	24.7	0.328	93.7	54.3	29	17.5
26	94.4	18	25.1	25.1	0.327	93.3	54.3	30	17.4
27	94.5	18	24.7	24.8	0.325	93.0	54.4	29	17.4
28	94.5	18	24.6	24.6	0.321	91.6	54.2	29	17.4
29	94.5	22	24.8	24.8	0.323	92.2	54.3	29	17.5
30	94.5	22	25.2	25.2	0.323	92.4	54.2	30	17.4
31	94.6	22	24.6	24.6	0.320	91.5	54.3	29	17.5
32	94.6	22	25.0	25.0	0.322	92.1	54.3	29	17.5
33	94.6	22	24.2	24.2	0.316	90.3	54.2	29	17.2
34	94.6	22	24.9	24.9	0.325	92.8	54.2	29	17.5
35	94.7	22	24.4	24.4	0.317	90.7	54.2	29	17.3
36	94.7	22	24.9	24.9	0.321	91.7	54.5	29	17.6
37	94.7	22	24.5	24.5	0.317	90.4	54.3	29	17.4
38	94.7	22	24.7	24.7	0.323	92.2	54.2	29	17.6
39	94.8	22	24.4	24.4	0.327	93.3	54.3	29	17.5
40	94.8	22	24.6	24.6	0.314	89.7	54.1	29	17.5
41	94.8	22	24.6	24.6	0.326	93.3	54.1	29	17.7
42	94.8	22	24.3	24.3	0.322	92.0	54.2	29	17.6
43	94.8	22	24.1	24.1	0.324	92.7	54.3	28	17.4
44	94.9	22	24.4	24.4	0.322	92.0	54.2	29	17.6
45	94.9	22	24.3	24.3	0.322	92.0	54.4	29	17.5
46	94.9	22	24.1	24.1	0.323	92.3	53.9	28	17.4
47	94.9	22	24.3	24.3	0.319	91.3	54.2	29	17.5
48	95.0	22	24.5	24.5	0.327	93.5	54.1	29	17.6
49	95.0	22	24.4	24.4	0.317	90.5	54.4	29	17.5
50	95.0	22	24.1	24.2	0.315	90.0	54.2	28	17.4
		Average	24.6	24.6	0.321	91.7	54.3	29	17.4
		Maximum	25.3	25.3	0.329	94.1	54.6	30	17.7

Total number of blows analyzed: 40

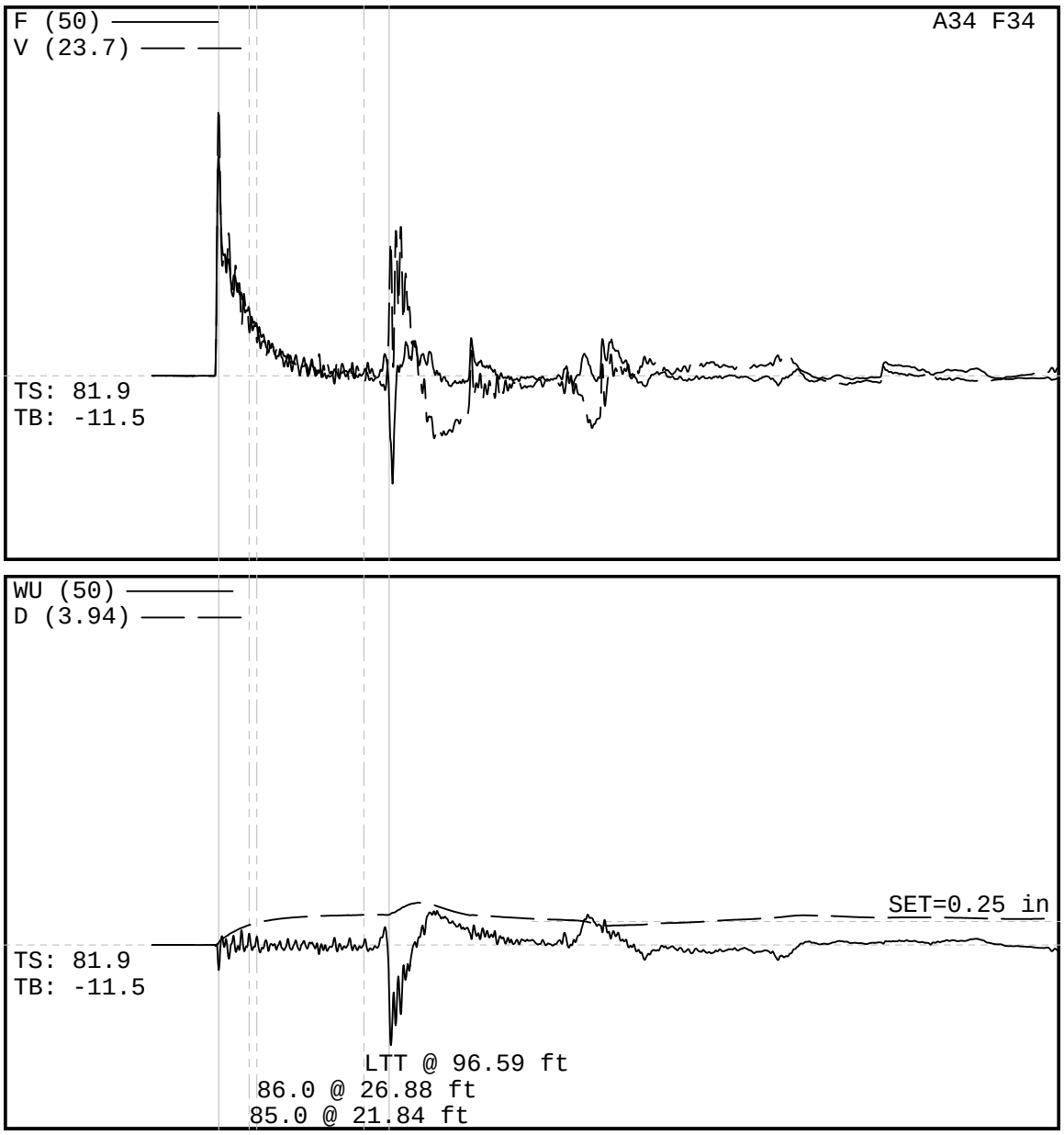
Thompson SPT Calibration - CME 45C (SN 244224)_4 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

BL#	Sensors
11-50	F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 54 seconds 12:20 PM - 12:21 PM BN 1 - 50

Thompson SPT Calibration CME 45C (SN 244224)_5



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_5
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_5
4/26/2016 12:56:07 PM
Blow Number 46

Pile Properties

LE	111.00	ft
AR	1.18	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	13.22	ms
JC		[]
LP	99.60	ft

Quantity Results

CSX	25.1	ksi
CSI	25.2	ksi
EMX	0.326	k-ft
ETR	93.1	(%)
BPM	54.3	bpm
FMX	30	kips
VMX	17.3	f/s
QNV	0.00	[]
QNV	0.00	[]

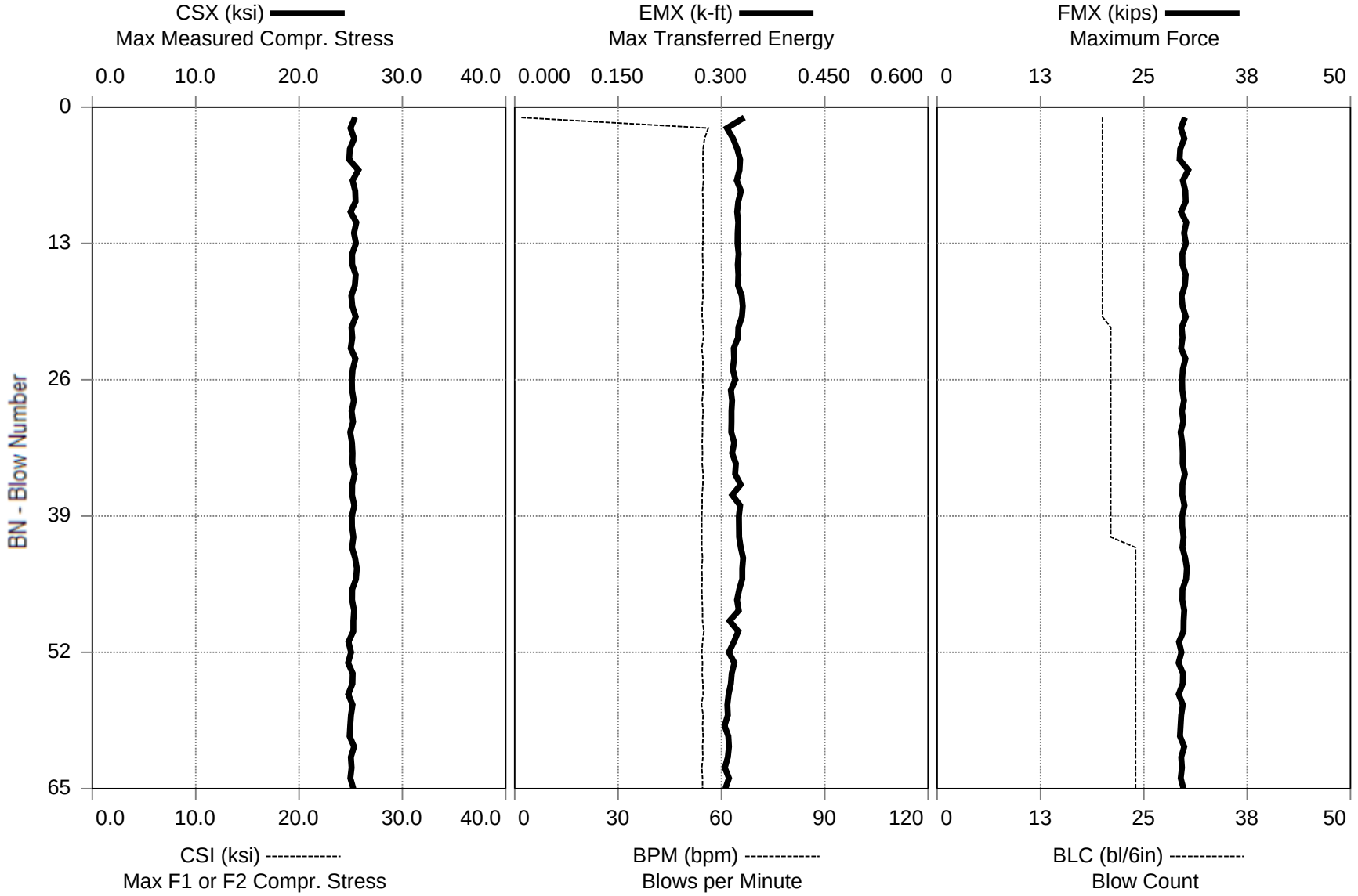
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_5 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_5 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 111.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
20	99.0	20	AV20	25.3	25.3	0.325	92.7	52.1	30	17.1
			MAX	25.7	25.8	0.333	95.2	56.2	30	17.3
41	99.5	21	AV21	25.2	25.2	0.320	91.4	54.5	30	17.3
			MAX	25.5	25.5	0.328	93.7	54.8	30	17.5
65	100.0	24	AV24	25.1	25.2	0.316	90.4	54.5	30	17.4
			MAX	25.6	25.6	0.331	94.7	54.9	30	17.7
			Average	25.2	25.2	0.320	91.4	53.8	30	17.3
			Maximum	25.7	25.8	0.333	95.2	56.2	30	17.7

Total number of blows analyzed: 65

BL# Sensors

1-65 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 1 minute 10 seconds 12:55 PM - 12:56 PM BN 1 - 65

Thompson SPT Calibration - CME 45C (SN 244224)_5 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 111.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
21	99.0	21	25.1	25.1	0.325	92.7	54.7	30	17.1
22	99.0	21	25.2	25.2	0.324	92.6	54.8	30	17.2
23	99.1	21	25.0	25.1	0.318	90.8	54.3	29	17.0
24	99.1	21	25.5	25.5	0.318	91.0	54.6	30	17.5
25	99.1	21	25.2	25.2	0.316	90.4	54.6	30	17.1
26	99.1	21	25.1	25.2	0.320	91.5	54.5	30	17.2
27	99.2	21	25.1	25.2	0.314	89.6	54.7	30	17.3
28	99.2	21	25.3	25.4	0.316	90.1	54.4	30	17.3
29	99.2	21	25.1	25.1	0.315	89.9	54.7	30	17.2
30	99.2	21	25.2	25.3	0.315	89.9	54.5	30	17.4
31	99.3	21	25.0	25.0	0.314	89.8	54.5	29	17.3
32	99.3	21	25.1	25.1	0.319	91.0	54.4	30	17.5
33	99.3	21	25.2	25.2	0.316	90.2	54.5	30	17.5
34	99.3	21	25.2	25.2	0.321	91.7	54.4	30	17.4
35	99.4	21	25.4	25.4	0.320	91.4	54.7	30	17.4
36	99.4	21	25.1	25.2	0.328	93.7	54.6	30	17.4
37	99.4	21	25.1	25.2	0.316	90.2	54.4	30	17.2
38	99.4	21	25.3	25.4	0.327	93.5	54.4	30	17.5
39	99.5	21	25.1	25.1	0.325	92.9	54.3	30	17.3
40	99.5	21	25.1	25.1	0.325	93.0	54.3	30	17.3
41	99.5	21	25.3	25.3	0.326	93.0	54.3	30	17.4
42	99.5	24	25.1	25.1	0.328	93.7	54.3	30	17.4
43	99.5	24	25.4	25.5	0.331	94.7	54.5	30	17.4
44	99.6	24	25.6	25.6	0.330	94.4	54.3	30	17.4
45	99.6	24	25.5	25.6	0.330	94.4	54.4	30	17.4
46	99.6	24	25.1	25.2	0.326	93.1	54.3	30	17.3
47	99.6	24	25.1	25.1	0.323	92.2	54.4	30	17.3
48	99.6	24	25.3	25.3	0.325	92.9	54.5	30	17.4
49	99.7	24	25.3	25.3	0.312	89.1	54.5	30	17.4
50	99.7	24	25.3	25.3	0.324	92.7	54.9	30	17.4
51	99.7	24	24.8	24.8	0.318	90.9	54.5	29	17.0
52	99.7	24	25.0	25.1	0.311	88.8	54.3	30	17.2
53	99.8	24	24.7	24.8	0.319	91.1	54.5	29	17.0
54	99.8	24	25.2	25.3	0.315	90.0	54.4	30	17.5
55	99.8	24	25.2	25.2	0.314	89.6	54.6	30	17.4
56	99.8	24	24.8	24.8	0.310	88.7	54.7	29	17.1
57	99.8	24	25.2	25.2	0.309	88.2	54.2	30	17.5
58	99.9	24	25.0	25.0	0.309	88.4	54.7	30	17.4
59	99.9	24	25.0	25.0	0.305	87.0	54.5	29	17.3
60	99.9	24	24.9	24.9	0.310	88.6	54.7	29	17.4
61	99.9	24	25.3	25.3	0.311	88.9	54.5	30	17.7
62	99.9	24	25.0	25.1	0.309	88.4	54.6	30	17.5
63	100.0	24	25.1	25.1	0.305	87.1	54.3	30	17.5
64	100.0	24	25.0	25.0	0.311	88.8	54.5	29	17.5
65	100.0	24	25.3	25.3	0.306	87.4	54.5	30	17.7
		Average	25.2	25.2	0.318	90.8	54.5	30	17.3

Thompson SPT Calibration - CME 45C (SN 244224)_5 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

BL#	Depth	BLC	CSX	CSI	EMX	ETR	BPM	FMX	VMX
	ft	bl/6in	ksi	ksi	k-ft	(%)	bpm	kips	f/s
		Maximum	25.6	25.6	0.331	94.7	54.9	30	17.7

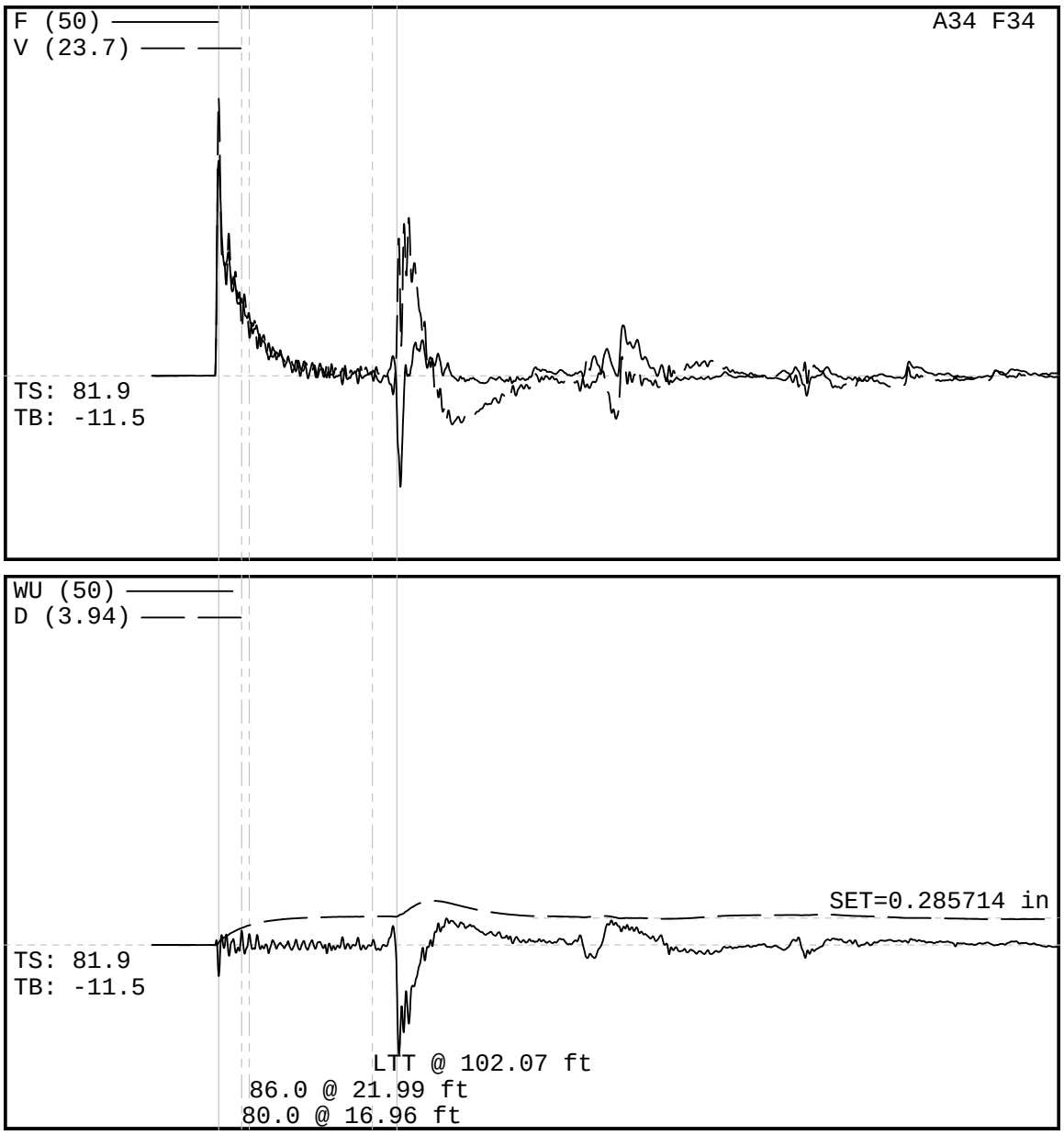
Total number of blows analyzed: 45

BL#	Sensors
21-65	F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 1 minute 10 seconds 12:55 PM - 12:56 PM BN 1 - 65

Thompson SPT Calibration CME 45C (SN 244224)_6



Project Information

PROJECT: Thompson SPT Calibration
PILE NAME: CME 45C (SN 244224)_6
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 45C (SN 244224)_6
4/26/2016 1:25:14 PM
Blow Number 29

Pile Properties

LE 116.00 ft
AR 1.18 in^2
EM 30000 ksi
SP 0.492 k/ft3
WS 16807.9 f/s
EA/C 2.1 ksec/ft
2L/C 13.82 ms
JC []
LP 104.50 ft

Quantity Results

CSX 24.6 ksi
CSI 24.7 ksi
EMX 0.315 k-ft
ETR 89.9 (%)
BPM 54.7 bpm
FMX 29 kips
VMX 17.8 f/s
QNV 0.00 []
QNV 0.00 []

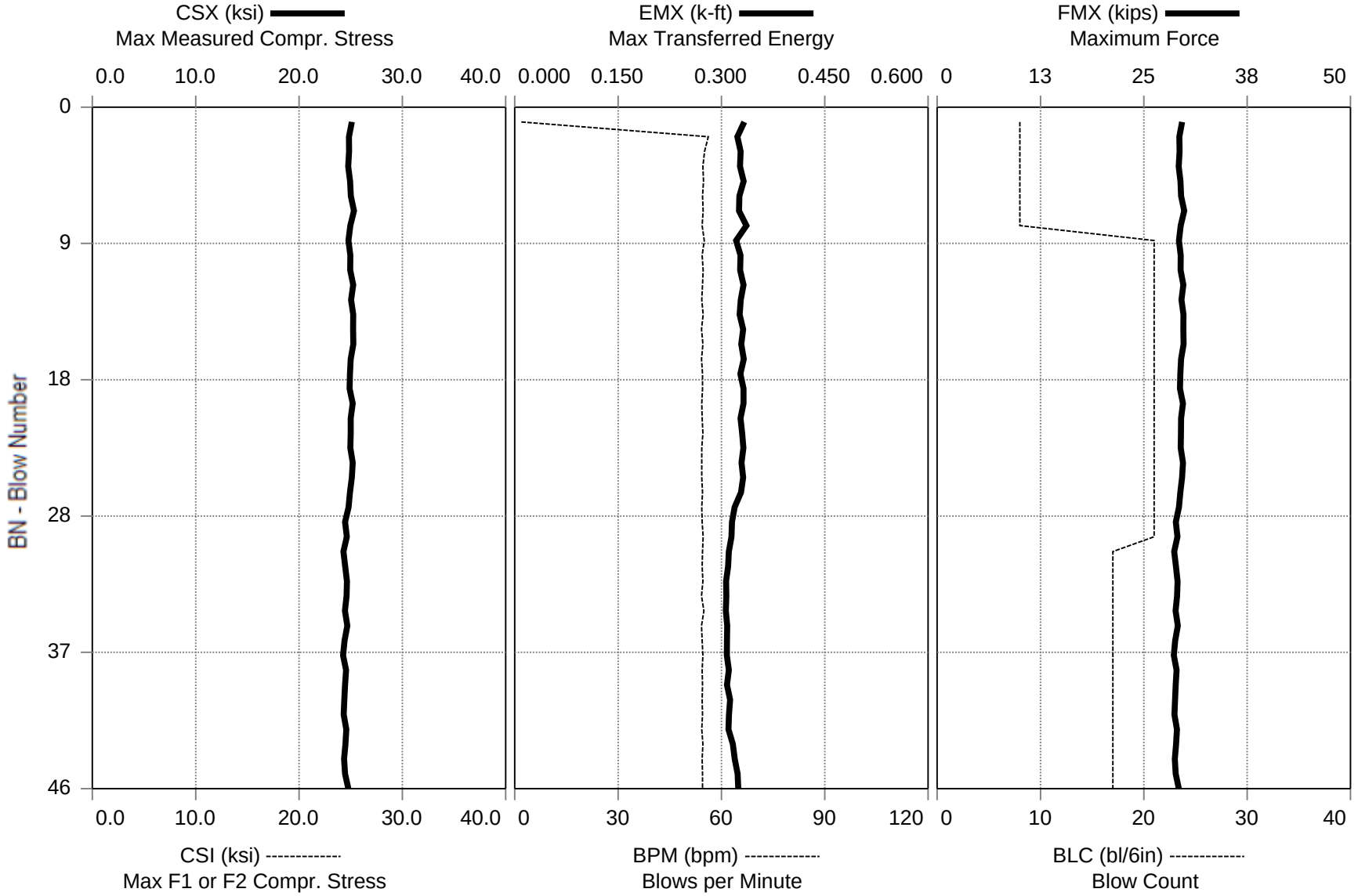
Sensors

F3: [421-AWJ-1] 206.94 (1)
F4: [421-AWJ-2] 206.29 (1)
A3: [K4120] 390 mv/5000g's (1)
A4: [K3774] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 01-June-2016 Test started: 26-April-2016

Thompson SPT Calibration - CME 45C (SN 244224)_6 - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C (SN 244224)_6 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 116.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	104.0	8	AV8	25.0	25.0	0.329	94.0	48.3	29	17.7
			MAX	25.3	25.4	0.336	96.1	56.2	30	18.0
29	104.5	21	AV21	25.0	25.0	0.327	93.5	54.5	29	17.9
			MAX	25.3	25.3	0.332	95.0	55.0	30	18.1
46	105.0	17	AV17	24.5	24.5	0.312	89.1	54.5	29	17.9
			MAX	24.8	24.8	0.324	92.7	54.9	29	18.4
			Average	24.8	24.8	0.322	92.0	53.4	29	17.9
			Maximum	25.3	25.4	0.336	96.1	56.2	30	18.4

Total number of blows analyzed: 46

BL# Sensors

1-46 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 49 seconds 1:24 PM - 1:25 PM BN 1 - 46

Thompson SPT Calibration - CME 45C (SN 244224)_6 AWJ Rod - Mud Rotary
OP: MJN Date: 26-April-2016

AR: 1.18 in² SP: 0.492 k/ft³
LE: 116.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	104.0	21	24.8	24.8	0.321	91.8	55.0	29	17.7
10	104.0	21	25.0	25.0	0.328	93.6	54.4	29	17.9
11	104.1	21	25.0	25.0	0.327	93.5	54.7	29	17.8
12	104.1	21	25.2	25.2	0.332	94.9	54.5	30	17.9
13	104.1	21	25.0	25.1	0.328	93.7	54.3	30	17.9
14	104.1	21	25.2	25.3	0.326	93.2	54.7	30	17.9
15	104.2	21	25.2	25.3	0.331	94.7	54.2	30	17.9
16	104.2	21	25.3	25.3	0.329	93.9	54.6	30	18.0
17	104.2	21	25.0	25.0	0.332	95.0	54.2	30	17.9
18	104.2	21	24.9	25.0	0.327	93.6	54.5	29	17.9
19	104.3	21	24.9	24.9	0.332	94.9	54.5	29	17.8
20	104.3	21	25.2	25.2	0.332	94.9	54.3	30	18.0
21	104.3	21	25.0	25.0	0.328	93.6	54.4	30	18.0
22	104.3	21	25.0	25.0	0.330	94.3	54.6	29	18.0
23	104.4	21	25.0	25.0	0.332	94.8	54.3	29	17.9
24	104.4	21	25.2	25.2	0.329	94.1	54.3	30	18.0
25	104.4	21	25.1	25.1	0.332	94.7	54.3	30	18.1
26	104.4	21	24.9	25.0	0.328	93.8	54.5	29	17.8
27	104.5	21	24.8	24.8	0.319	91.2	54.3	29	17.9
28	104.5	21	24.5	24.5	0.315	90.1	54.4	29	17.4
29	104.5	21	24.6	24.7	0.315	89.9	54.7	29	17.8
30	104.5	17	24.3	24.3	0.311	88.8	54.5	29	17.5
31	104.6	17	24.5	24.5	0.310	88.5	54.4	29	17.6
32	104.6	17	24.6	24.7	0.307	87.7	54.6	29	18.0
33	104.6	17	24.6	24.6	0.307	87.7	54.2	29	17.8
34	104.6	17	24.4	24.5	0.306	87.5	54.9	29	17.8
35	104.7	17	24.7	24.7	0.308	88.1	54.2	29	17.9
36	104.7	17	24.4	24.4	0.308	88.0	54.4	29	17.8
37	104.7	17	24.3	24.3	0.308	88.0	54.6	29	17.7
38	104.8	17	24.5	24.6	0.311	88.8	54.4	29	17.9
39	104.8	17	24.5	24.5	0.308	88.0	54.5	29	17.9
40	104.8	17	24.4	24.4	0.312	89.3	54.4	29	18.0
41	104.9	17	24.3	24.3	0.311	88.8	54.5	29	17.8
42	104.9	17	24.6	24.6	0.310	88.6	54.3	29	18.1
43	104.9	17	24.5	24.5	0.317	90.5	54.6	29	18.1
44	104.9	17	24.4	24.4	0.319	91.2	54.4	29	18.0
45	105.0	17	24.4	24.5	0.323	92.4	54.5	29	18.1
46	105.0	17	24.8	24.8	0.324	92.7	54.5	29	18.4
		Average	24.8	24.8	0.320	91.5	54.5	29	17.9
		Maximum	25.3	25.3	0.332	95.0	55.0	30	18.4

Total number of blows analyzed: 38

BL# Sensors

9-46 F3: [421-AWJ-1] 206.9 (1.00); F4: [421-AWJ-2] 206.3 (1.00); A3: [K4120] 390.0 (1.00); A4: [K3774] 382.0 (1.00)

Time Summary

Drive 49 seconds 1:24 PM - 1:25 PM BN 1 - 46

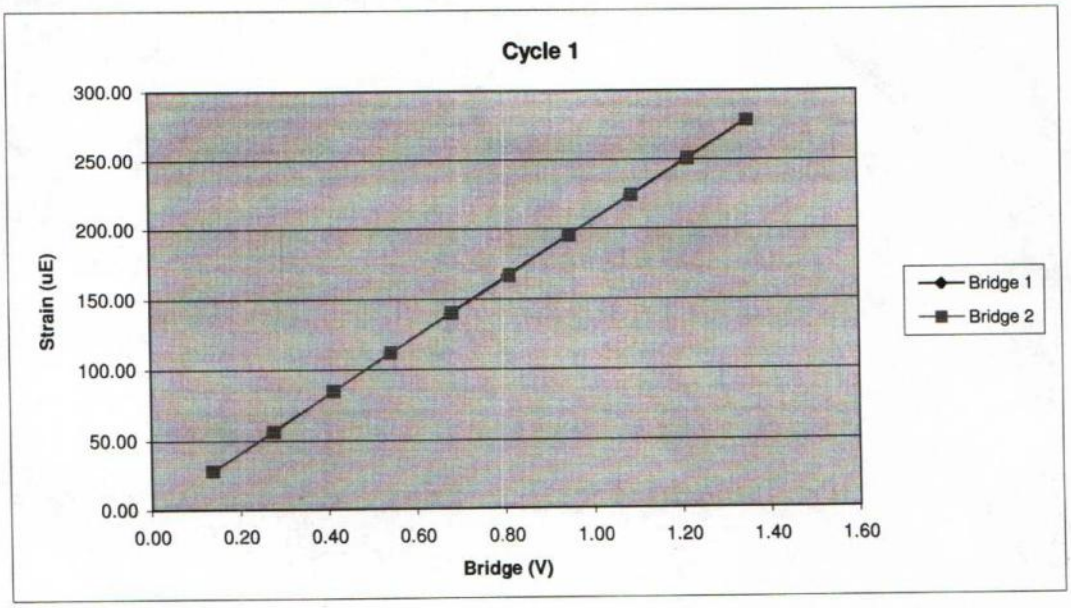
Appendix B

Dynamic Measurement Calibration Sheets

421AWJ		Cycle 1		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	1005.85	28.00	0.14	0.14
3	2005.01	56.43	0.28	0.28
4	3011.46	84.81	0.41	0.41
5	3966.73	111.62	0.54	0.54
6	4968.65	139.87	0.68	0.68
7	5932.98	166.69	0.81	0.81
8	6924.86	194.99	0.95	0.95
9	7977.35	223.97	1.09	1.09
10	8904.68	250.51	1.22	1.22
11	9905.42	278.24	1.35	1.35

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7338.09**	**Force Calibration (lb/V)**	**7328.21**
Offset	-12.00	Offset	-14.97
Correlation	0.999998	Correlation	0.999996
Strain Calibration (µE/V)	**206.26**	**Strain Calibration (µE/V)**	**205.98**
Offset	-0.31	Offset	-0.39
Correlation	0.999999	Correlation	0.999998

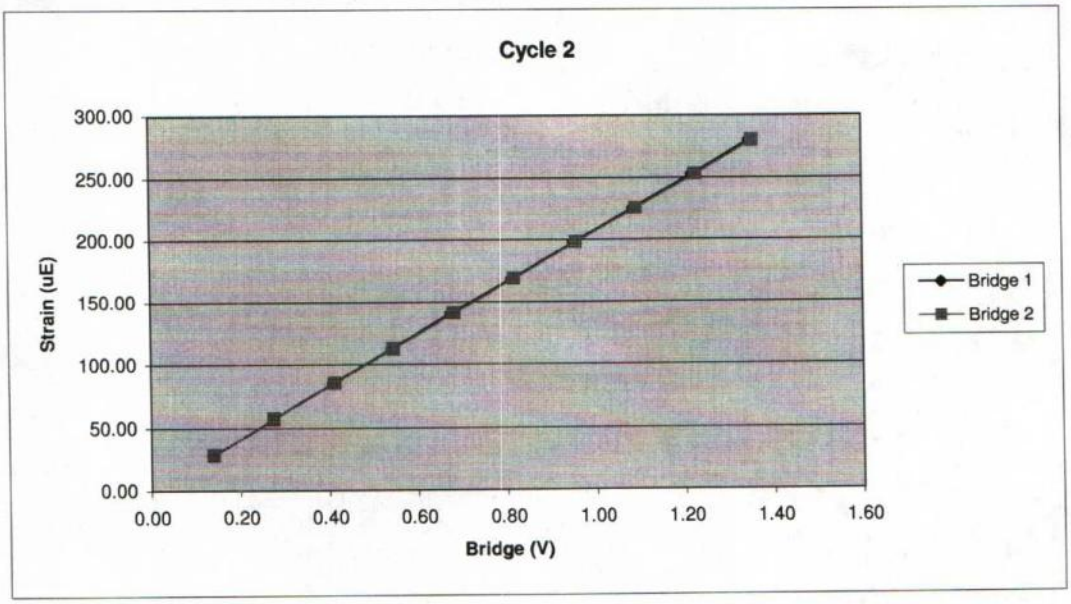
Force Strain Calibration	
EA (Kips)	**35576.37**
Offset	-1.11
Correlation	0.999997



421AWJ		Cycle 2		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	1014.51	28.67	0.14	0.14
3	2007.38	57.15	0.27	0.27
4	3000.63	85.60	0.41	0.41
5	3978.15	112.52	0.54	0.54
6	4953.69	140.78	0.68	0.68
7	5958.76	168.64	0.81	0.82
8	6990.39	197.75	0.95	0.96
9	7981.49	225.38	1.09	1.09
10	8970.81	253.13	1.22	1.23
11	9917.43	279.98	1.35	1.35

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7353.83**	**Force Calibration (lb/V)**	**7322.44**
Offset	**-12.14**	Offset	**-15.23**
Correlation	**0.999996**	Correlation	**0.999994**
Strain Calibration (µE/V)	**207.22**	**Strain Calibration (µE/V)**	**206.34**
Offset	**0.27**	Offset	**0.19**
Correlation	**0.999995**	Correlation	**0.999996**

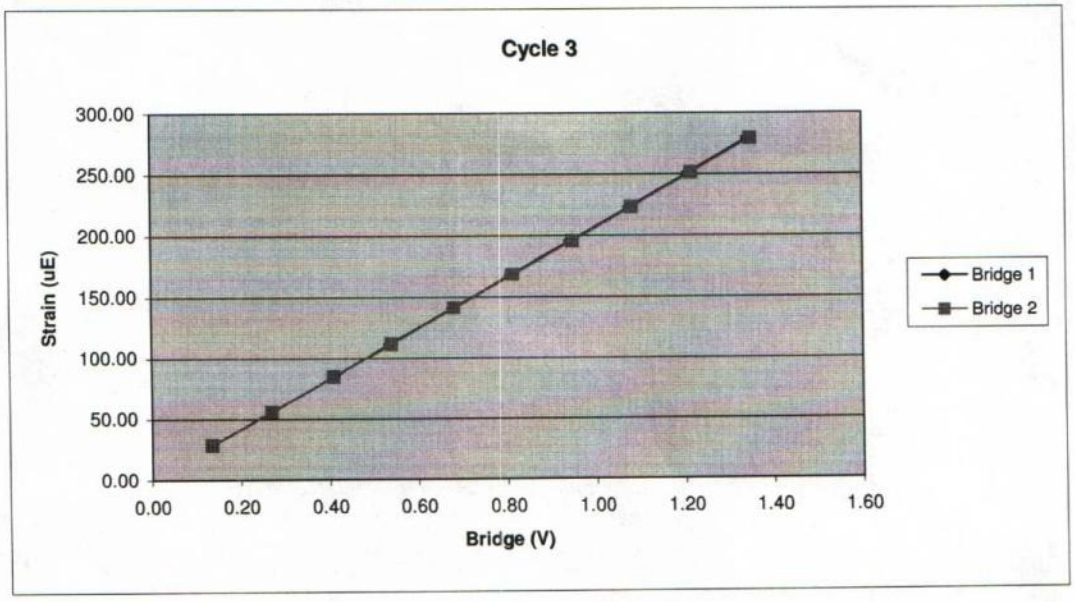
Force Strain Calibration	
EA (Kips)	**35487.78**
Offset	**-21.84**
Correlation	**0.999992**



421AWJ		Cycle 3		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	979.68	28.50	0.13	0.13
3	1973.72	55.64	0.27	0.27
4	2996.50	84.67	0.41	0.41
5	3948.43	111.32	0.54	0.54
6	4995.02	140.86	0.68	0.68
7	5952.86	168.03	0.81	0.81
8	6933.71	195.66	0.94	0.95
9	7917.53	223.31	1.08	1.08
10	8902.52	251.28	1.21	1.22
11	9894.99	279.28	1.34	1.35

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7358.39**	**Force Calibration (lb/V)**	**7331.09**
Offset	**-8.35**	Offset	**-3.80**
Correlation	**0.999998**	Correlation	**0.999998**
Strain Calibration (µE/V)	**207.33**	**Strain Calibration (µE/V)**	**206.56**
Offset	**0.08**	Offset	**0.21**
Correlation	**0.999994**	Correlation	**0.999993**

Force Strain Calibration	
EA (Kips)	**35491.62**
Offset	**-11.08**
Correlation	**0.999996**



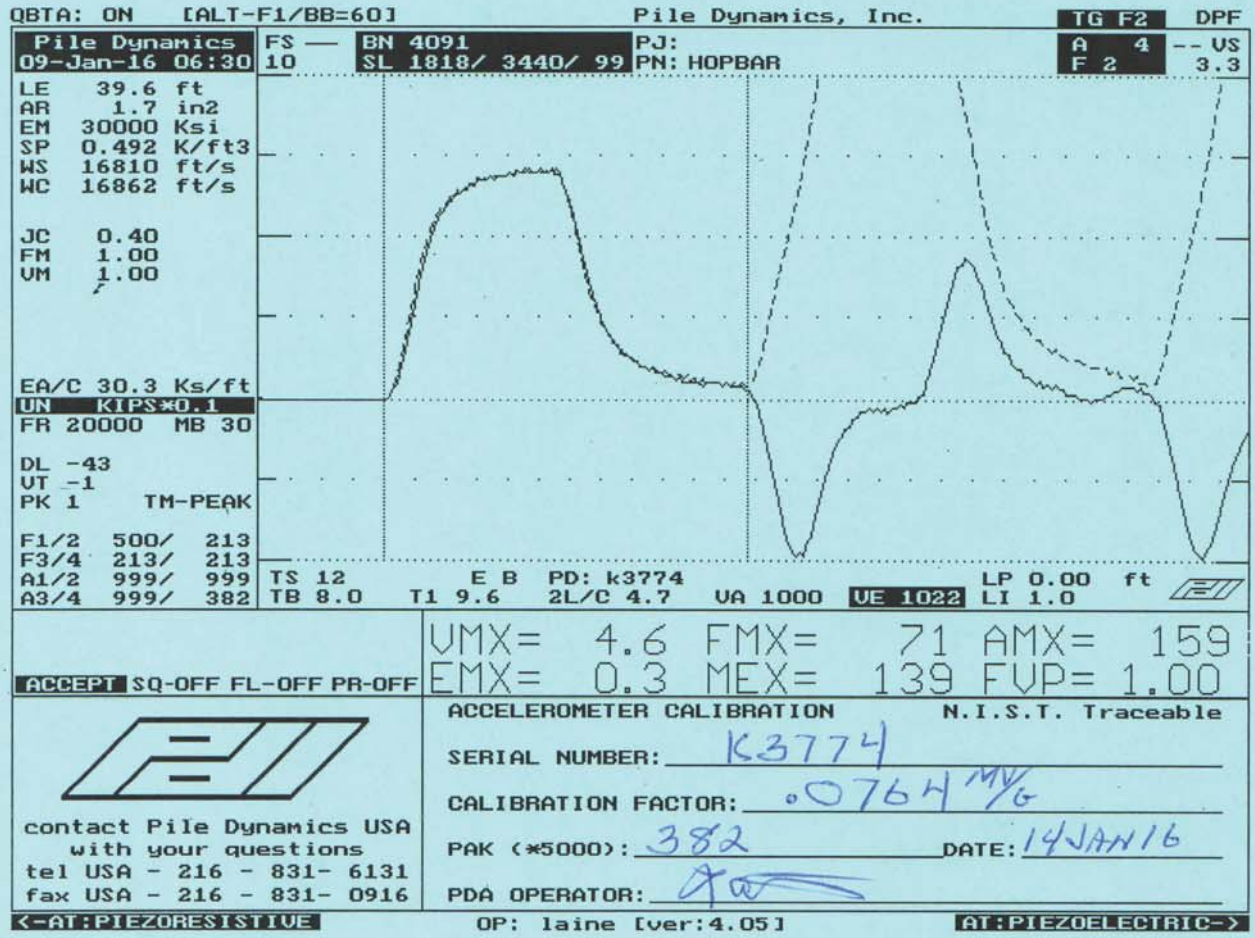
Bridge Excitation (V) 5
Shunt Resitor (ohm) 60.4k

Calibration Factors	421AWJ		
Bridge 1 (µE/V)	206.94	Bridge 2 (µE/V)	206.29
EA Factor (Kips)	35518.59	Area (in^2)	1.18

Calibrated by: _____
Calibrated Date: 8/25/2014

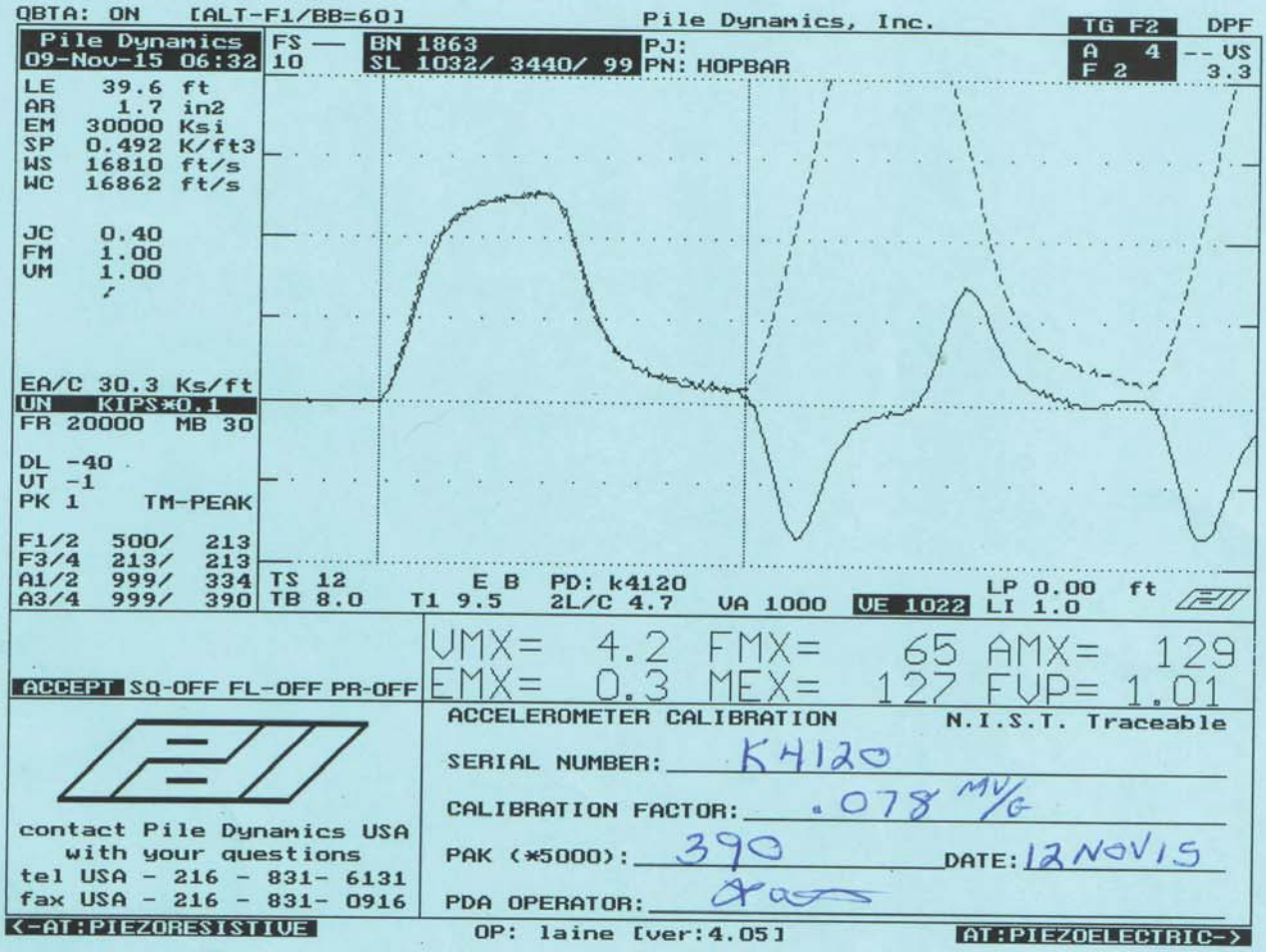
Pile Dynamics Inc
30725 Aurora Rd
Solon, OH 44139

Traceable to N.I.S.T.



Smart Sensor

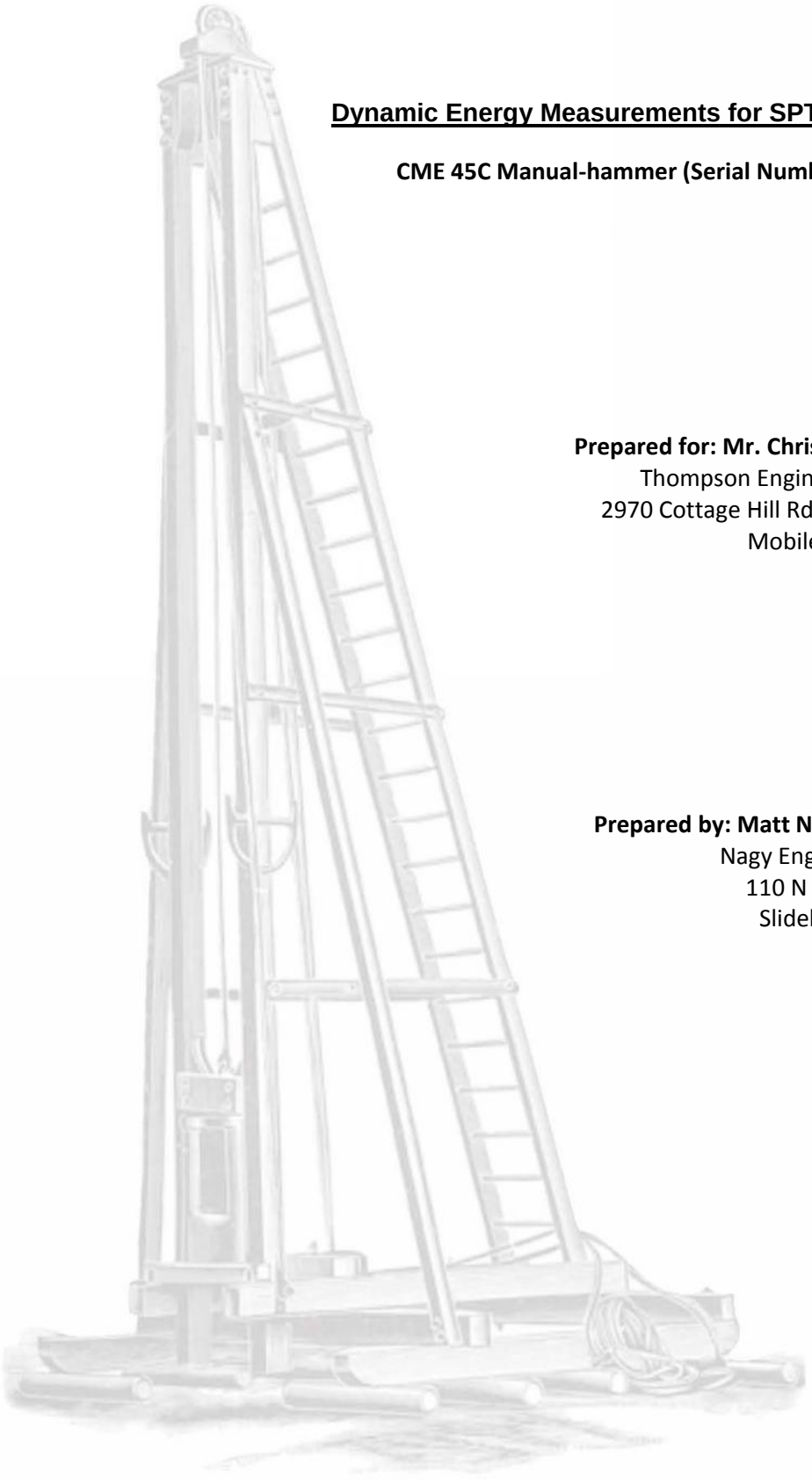
Smart Chip Programmed By T.M.W. **on** 14JAN16 **CRC Value** B078



Smart Sensor

Smart Chip Programmed By J.M.W. **on** 12NOV15 **CRC Value** 980A

Nagy Engineers, Inc.



Dynamic Energy Measurements for SPT Hammer

CME 45C Manual-hammer (Serial Number 244224)

Prepared for: Mr. Chris Dugger of
Thompson Engineering, Inc.
2970 Cottage Hill Rd., Suite 190
Mobile, AL 36606

Prepared by: Matt Nagy, P.E. of
Nagy Engineers, Inc.
110 N Queens Dr.
Slidell, LA 70458

October 6, 2016

Mr. Chris Dugger
Thompson Engineering, Inc.
2970 Cottage Hill Road, Suite 190
Mobile, AL 36606

Re: SPT Hammer Calibration using Dynamic Energy Measurements
Thompson Engineering Drill Rig – CME 45C (S/N 244224) – Manual Hammer
Nagy Engineers Job No. 161037-2

Dear Mr. Dugger:

This report summarizes the results from SPT Energy Measurement Testing performed at the Thompson Engineering office on October 4, 2016. The testing was conducted to calibrate a CME 45C Manual SPT hammer. The hammer reportedly had a 140 lb drop weight and a 2.5 ft drop height. Appendix A gives a summary of the field dynamic test data and results while Appendix B contains the equipment calibration sheets. An overall summary of the test results is presented in Table 1.

OBJECTIVES

The objective of the testing was to perform SPT Energy Measurements according to ASTM D4633-10. These objectives were met using our Pile Driving Analyzer®, Model PAX – SPT Software, which acquired the SPT hammer's transfer energies using an instrumented AWJ rod section and two piezoresistive accelerometers.

TESTING AND EQUIPMENT

Drilling and SPT Hammer Equipment

SPT energy measurements were collected for a CME 45C Manual SPT hammer. The serial number on the rig was s/n 244224. Energy records were collected at various increments between the depths of 31.5 ft and 42.0 ft. The drilling method was mud rotary. Appendix A contains a photo of the CME 45C rig that was tested.

Instrumentation

A Model PAX Pile Driving Analyzer® (PDA) data acquisition system was used to collect and process the dynamic measurements of force and velocity. The PAX is a digital system having a low pass filter cutoff frequency of 5 kHz. The sampling frequency was therefore set to 10 times the low pass filter, or 50 kHz. A two foot long section of AWJ rod subsection was instrumented with one full bridge foil resistance strain

gage and two piezoresistive accelerometers mounted at the midpoint location of the instrumented subsection. Strain and acceleration signals were conditioned, digitized, stored and processed using the PDA. Selected output from the PDA for each recorded impact included the maximum calculated rod top force (FMX), maximum rod top velocity (VMX), maximum average compressive stress (CSX), maximum energy transfer (EMX), energy transfer ratio (ETR) and the hammer operating rate (BPM).

MEASUREMENTS AND CALCULATIONS

FV Method (EMX)

Energy transfer to the PDA gage location, EMX, was computed by the PDA using force, F(t), and velocity, v(t), records as follows:

$$EMX = \int_a^b F(t) \cdot v(t) dt$$

The time "a" corresponds to the start of the record when the energy transfer begins, and "b" is the time at which energy transferred to the rod reaches a maximum value. The FV Method is currently recognized in ASTM D4633-10, and is the theoretically correct result; therefore, no other energy calculation methods are reported.

RESULTS

Upon return to the office, the records collected by the PDA were checked for consistency and accuracy. For example, records from very weak startup or final impacts were not included in the results. Appendix A contains a representative plot of force and normalized velocity versus time and PDIPLOT results for all hammer blows at each dynamically monitored sampling depth. The PDA results include the EMX (transferred energy by the EMX method, as recommended by ASTM D4633-10), ETR (energy transfer ratio), BPM (hammer operating rate), FMX (maximum rod top force), CSX (maximum compressive stress), and VMX (maximum rod top velocity). The plots show each calculated PDA result versus sampling spoon penetration while the tables show statistical summaries for each 6 inch increment. At the end of each table, on the next page, is a statistical evaluation of the results which only include the blows that correspond to the N-Value for that sample.

Table 1 summarizes the average transfer energy values calculated by the EMX method. The records averaged consist only of the hammer blows at each dynamically monitored sampling depth that correspond to the N-Values (i.e. the blows in the initial 6 inches of split spoon driving were not considered as part of the average). The “energy transfer ratio” (ETR) is defined as the ratio of maximum transferred

energy EMX divided by the theoretical hammer potential energy of 350 ft-lbs. The average hammer operating rate is reported in blows per minute (BPM).

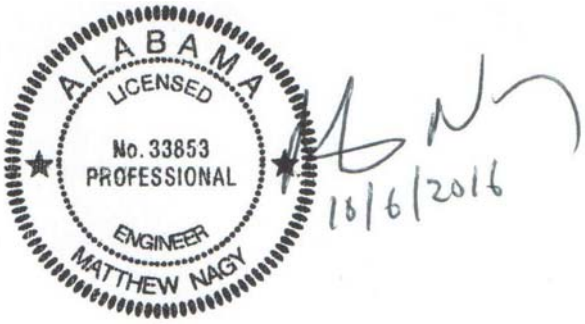
CONCLUSIONS

RIG: CME 45C (s/n: 244224) Manual Hammer - 140 lbs Hammer – 2.5 ft Drop Height

The average maximum energy transfer (EMX) to the AWJ SPT rod using the 140 lbs drop weight was 299 ft-lbs which is approximately 86% of the 350 ft-lbs potential energy of the hammer. The standard deviation of the transfer efficiency was 6% over the seven samples that were collected. The average hammer operation rate during the time of testing was 46.5 blows/min.

We have appreciated this opportunity to be of assistance to you on this project, please contact our office if you have any questions regarding this report, or if we may be of further service.

Very truly yours,
Nagy Engineers, Inc.



Matthew Nagy, P.E. AL # 33853
Project Engineer

Firm COA Number: 4718

enclosed: Appendices A and B

TABLE 1: Summary of SPT Energy Measurements

CME 45C Manual SPT Hammer (S/N 244224)

Rod Length Below Gages *LE*	Depth Below Top of Ground	Reported SPT Blow Counts	Maximum Transfer Force *FMX*	Maximum Compressive Stress *CSX*	Average Hammer Blow Rate *BPM*	Average Energy Transfer *EMX*	Average Transfer Efficiency *ETR*
ft	ft	blows/6"	kips	ksi	blows/min	ft-lbs	%
36.0	31.5 to 33.0 ft	5,5,5	26	22.3	48.3	272	78%
38.0	33.0 to 34.5 ft	6,7,7	25	21.7	41.1	278	80%
40.0	34.5 to 36.0 ft	7,8,9	31	26.6	47.2	289	83%
40.0	36.0 to 37.5 ft	9,9,9	31	26.6	48.0	301	86%
43.0	37.5 to 39.0 ft	5,7,8	27	22.9	46.8	310	89%
45.0	39.0 to 40.5 ft	8,9,9	32	27.4	47.5	315	90%
45.0	40.5 to 42.0 ft	9,9,8	32	27.4	46.6	327	93%
		Overall Average			**46.5**	**299**	**86%**
		Standard Deviation			**2.5**	**20**	**6%**

Notes

LE - Length from the bottom of the spoon to the PDA gage location.
FMX - Maximum Force Meaused at PDA gage locationn.
CSX - Maximum Average Compressive Stress at PDA gage location.
BPM - Hammer operation rate (blows/minute)
EMX - Computed, from $\int F_V \, dt$, maximum energy transferred to PDA gage location.
ETR - Computed, from EMX/PE, maximum energy transfer efficiency

Appendix A

Results from SPT Dynamic Energy Measurements

Thompson Engineering SPT Rig Calibration

CME 45C Manual Hammer

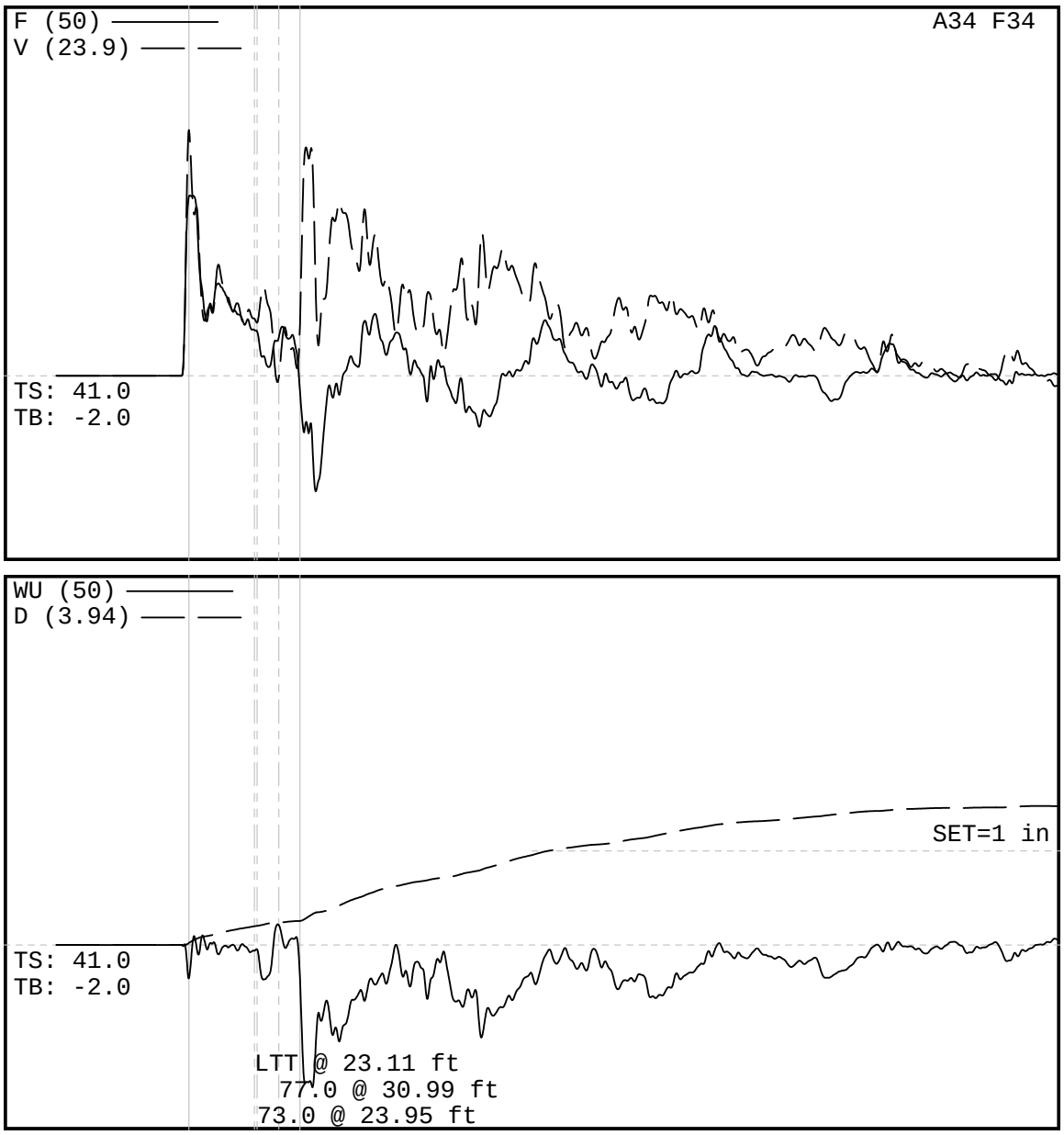
S/N 244224

(AWJ Rod – Side Discharge Mud Rotary)



Thompson Engineering's CME 45C (S/N 244224)

Thompson SPT Calibration - CME 45C CME45C (SN 244224) - 31.5 to 33.0 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME45C (SN 244224) - 31.5 to 33.
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 31.5 to 33.0 ft
10/4/2016 10:30:18 AM
Blow Number 1

Pile Properties

LE	36.00 ft
AR	1.17 in^2
EM	30000 ksi
SP	0.492 k/ft3
WS	16807.9 f/s
EA/C	2.1 ksec/ft
2L/C	4.30 ms
JC	[]
LP	31.60 ft

Quantity Results

CSX	20.82 ksi
CSI	21.12 ksi
EMX	0.260 k-ft
ETR	74.2 (%)
BPM	1.9 bpm
FMX	24 kips
VMX	15.9 f/s
QNV	0.00 []
QNV	0.00 []

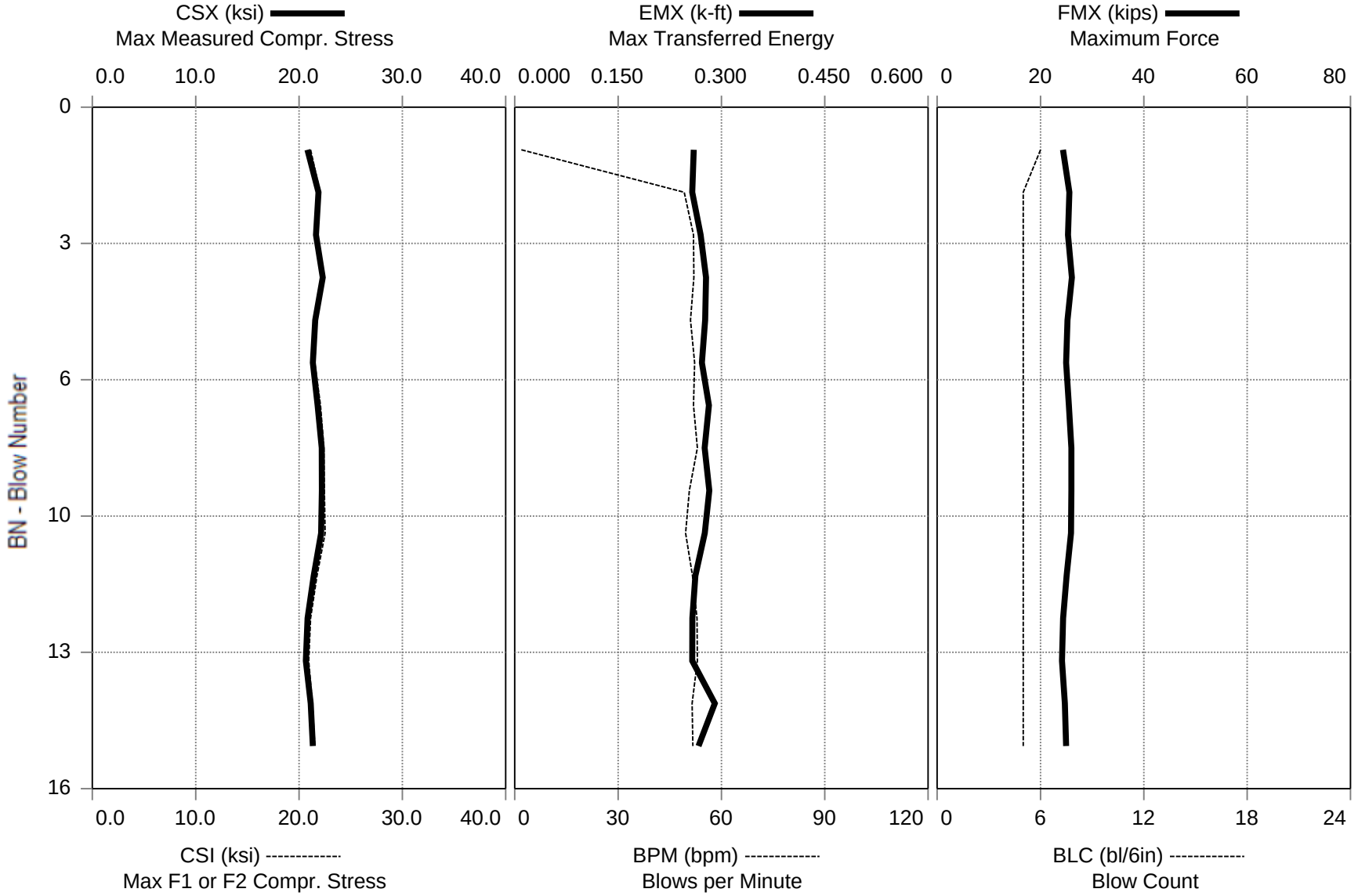
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME45C (SN 244224) - 31.5 to 33.0 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME45C (SN 244224) - 31.5 to 33.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 36.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
5	32.00	5	AV5	21.6	21.8	0.268	76.7	41.2	25	16.7
			MAX	22.3	22.4	0.278	79.3	52.0	26	17.5
10	32.50	5	AV5	21.9	22.2	0.277	79.3	51.5	26	16.9
			MAX	22.2	22.5	0.282	80.7	53.0	26	17.3
15	33.00	5	AV5	21.1	21.3	0.267	76.3	52.1	25	16.2
			MAX	21.4	21.7	0.290	83.0	53.0	25	16.9
			Average	21.5	21.8	0.271	77.4	48.3	25	16.6
			Maximum	22.3	22.5	0.290	83.0	53.0	26	17.5

Total number of blows analyzed: 15

BL# Sensors

1-15 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 16 seconds 10:30 AM - 10:30 AM BN 1 - 15

Thompson SPT Calibration - CME 45C - CME45C (SN 244224) - 31.5 to 33.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 36.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	32.10	5	21.3	21.5	0.272	77.6	52.2	25	16.4
7	32.20	5	21.8	22.1	0.282	80.5	51.9	25	16.6
8	32.30	5	22.2	22.4	0.276	78.8	53.0	26	17.3
9	32.40	5	22.2	22.4	0.282	80.7	50.7	26	17.0
10	32.50	5	22.1	22.5	0.276	78.8	49.6	26	17.1
11	32.60	5	21.4	21.7	0.262	74.9	51.6	25	16.3
12	32.70	5	20.8	21.1	0.258	73.7	52.9	24	16.0
13	32.80	5	20.7	20.9	0.258	73.6	53.0	24	16.0
14	32.90	5	21.1	21.3	0.290	83.0	51.5	25	16.9
15	33.00	5	21.3	21.5	0.267	76.2	51.7	25	15.9
		Average	21.5	21.8	0.272	77.8	51.8	25	16.5
		Maximum	22.2	22.5	0.290	83.0	53.0	26	17.3

Total number of blows analyzed: 10

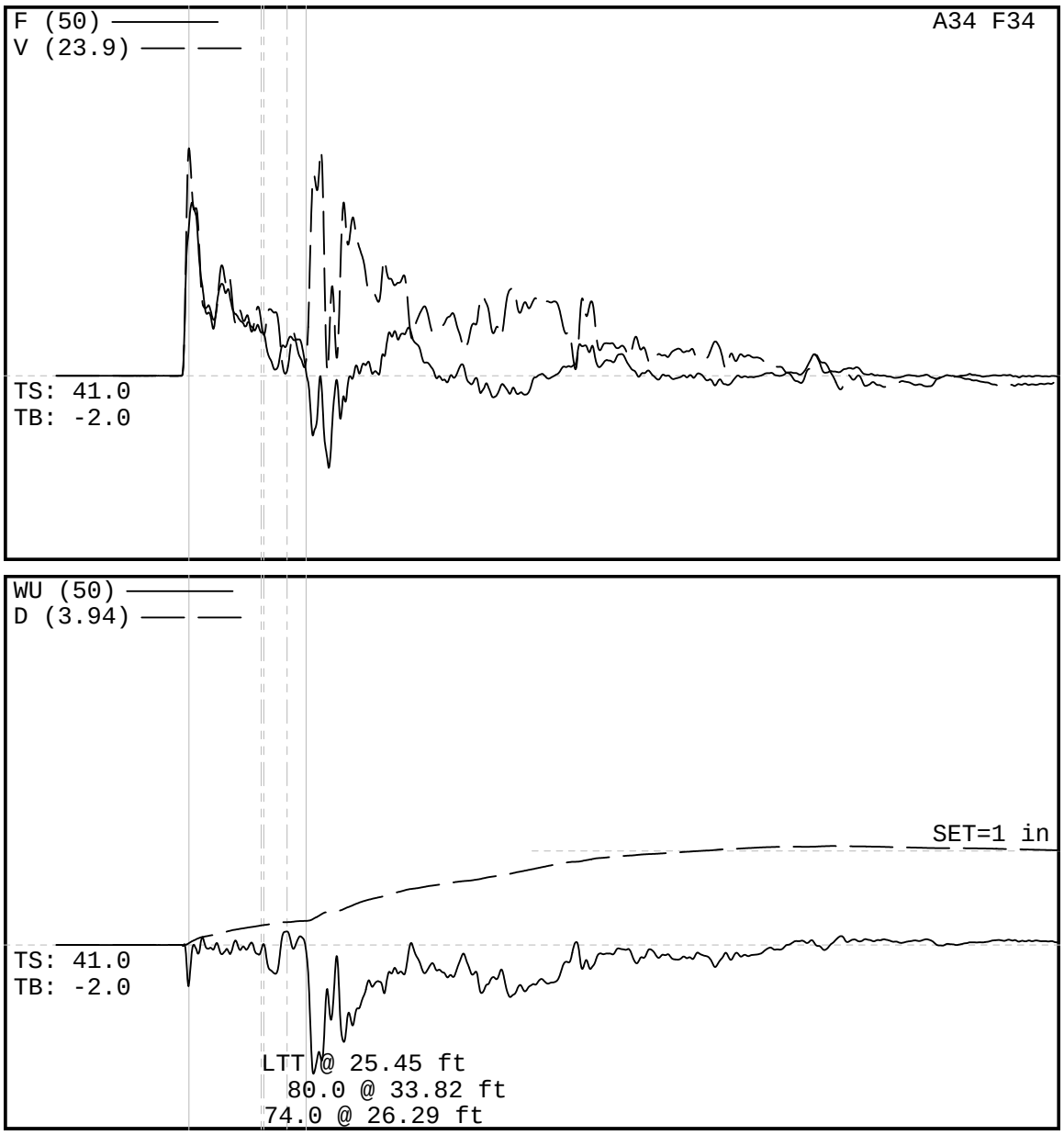
BL# Sensors

6-15 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 16 seconds 10:30 AM - 10:30 AM BN 1 - 15

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 33.0 to 34.5 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 33.0 to 34
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 33.0 to 34.5 ft
10/4/2016 10:39:16 AM
Blow Number 1

Pile Properties

LE	38.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	4.54	ms
JC		[]
LP	33.08	ft

Quantity Results

CSX	20.01	ksi
CSIt	20.17	ksi
EMX	0.244	k-ft
ETR	69.8	(%)
BPM	1.9	bpm
FMX	23	kips
VMX	14.7	f/s
QNV	0.00	[]
QNV	0.00	[]

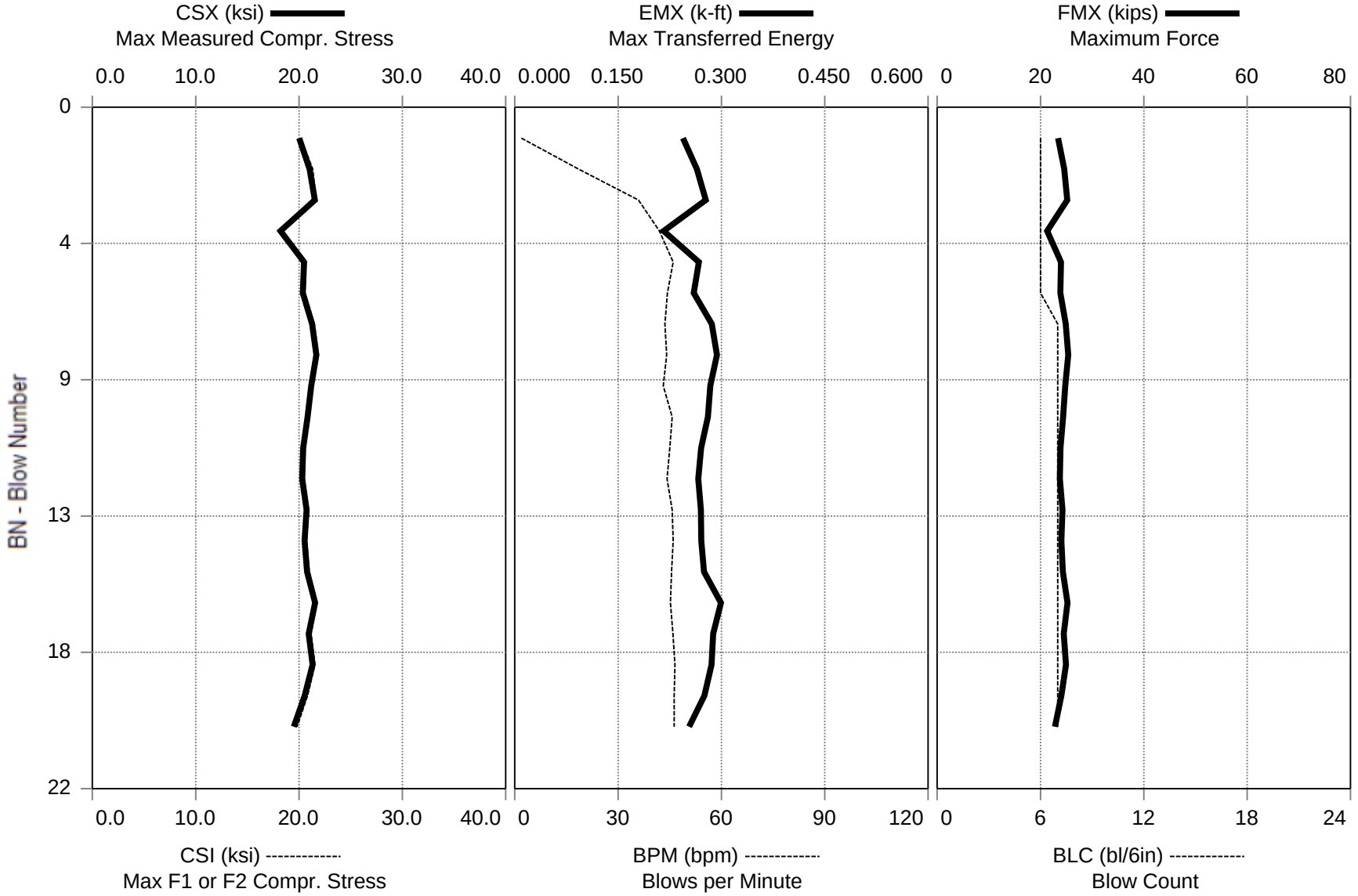
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 33.0 to 34.5 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 33.0 to 34.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 38.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress FMX: Maximum Force
CSI: Max F1 or F2 Compr. Stress ETR: Energy Transfer Ratio
EMX: Max Transferred Energy VMX: Maximum Velocity
BPM: Blows per Minute

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	BPM bpm	FMX kips	ETR (%)	VMX f/s
6	33.50	6	AV6	20.3	20.5	0.255	31.4	24	72.8	16.0
			MAX	21.5	21.7	0.277	46.0	25	79.2	17.1
13	34.00	7	AV7	20.9	21.1	0.279	44.5	24	79.6	16.8
			MAX	21.7	21.9	0.293	45.7	25	83.8	17.2
20	34.50	7	AV7	20.7	21.0	0.278	46.0	24	79.5	16.7
			MAX	21.6	21.7	0.299	46.5	25	85.5	17.2
			Average	20.7	20.9	0.271	41.1	24	77.5	16.5
			Maximum	21.7	21.9	0.299	46.5	25	85.5	17.2

Total number of blows analyzed: 20

BL# Sensors

1-20 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 27 seconds 10:39 AM - 10:39 AM BN 1 - 20

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 33.0 to 34.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 38.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
7	33.57	7	21.3	21.5	0.286	81.7	43.6	25	17.0
8	33.64	7	21.7	21.9	0.293	83.8	44.1	25	17.2
9	33.71	7	21.2	21.3	0.284	81.1	43.1	25	16.9
10	33.79	7	20.8	21.0	0.280	80.1	45.7	24	16.3
11	33.86	7	20.4	20.6	0.270	77.3	45.0	24	16.7
12	33.93	7	20.3	20.5	0.266	76.1	44.2	24	16.4
13	34.00	7	20.7	20.9	0.270	77.2	45.7	24	16.9
14	34.07	7	20.5	20.7	0.271	77.3	46.0	24	16.9
15	34.14	7	20.8	21.0	0.275	78.5	45.5	24	16.9
16	34.21	7	21.6	21.7	0.299	85.5	45.2	25	17.2
17	34.29	7	20.9	21.2	0.288	82.3	45.9	24	17.2
18	34.36	7	21.3	21.5	0.286	81.6	46.5	25	16.8
19	34.43	7	20.5	20.8	0.275	78.6	46.3	24	16.2
20	34.50	7	19.5	19.8	0.253	72.3	46.3	23	15.8
		Average	20.8	21.0	0.278	79.5	45.2	24	16.7
		Maximum	21.7	21.9	0.299	85.5	46.5	25	17.2

Total number of blows analyzed: 14

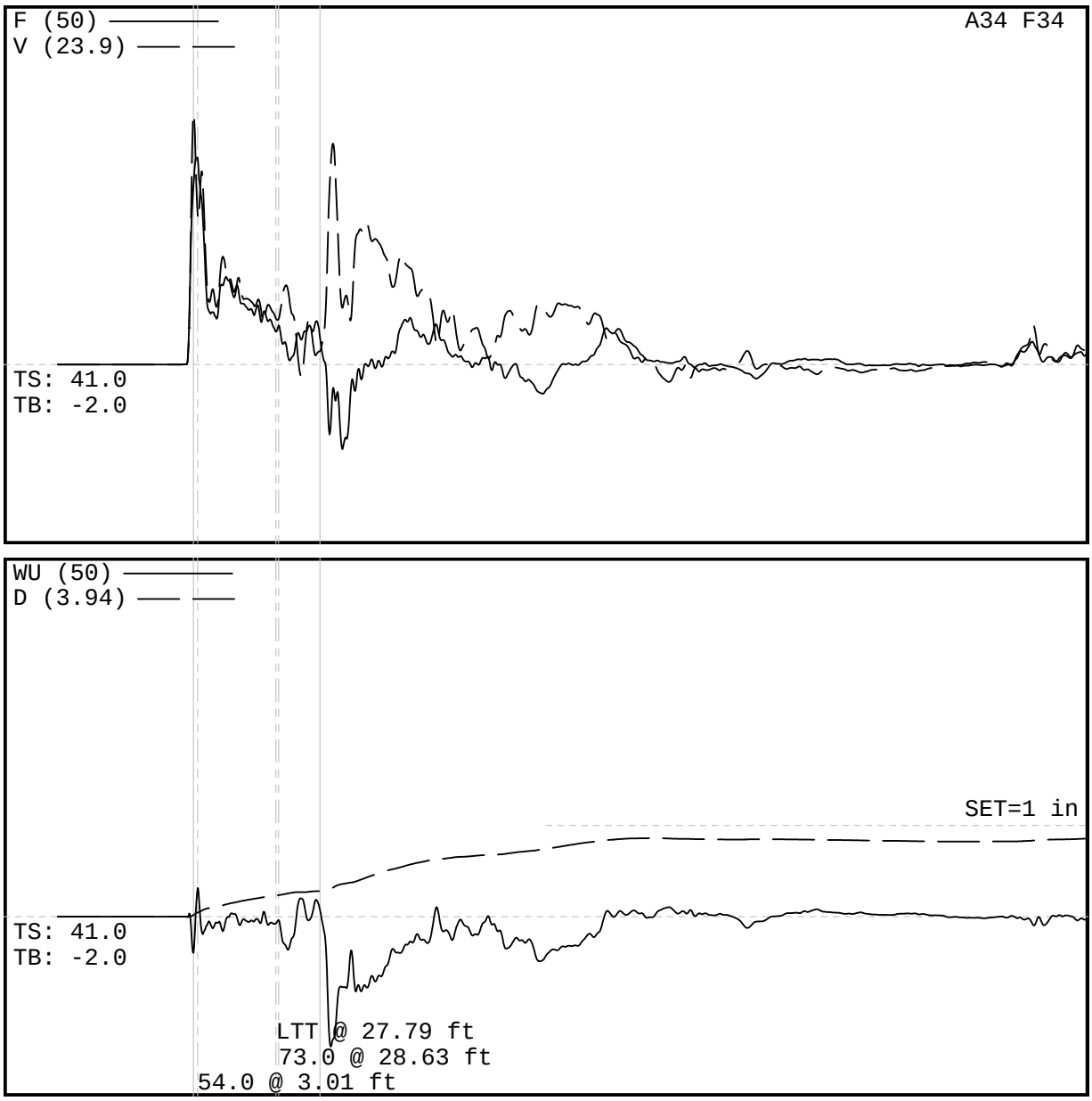
BL# Sensors

7-20 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 27 seconds 10:39 AM - 10:39 AM BN 1 - 20

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 34.5 to 36.0 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 34.5 to 36
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 34.5 to 36 ft
10/4/2016 10:45:15 AM
Blow Number 20

Pile Properties

LE	40.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	4.78	ms
JC		[]
LP	35.78	ft

Quantity Results

CSX	24.65	ksi
CSIt	25.40	ksi
EMX	0.287	k-ft
ETR	81.9	(%)
BPM	50.9	bpm
FMX	29	kips
VMX	16.7	f/s
QNV	0.00	[]
QNV	0.00	[]

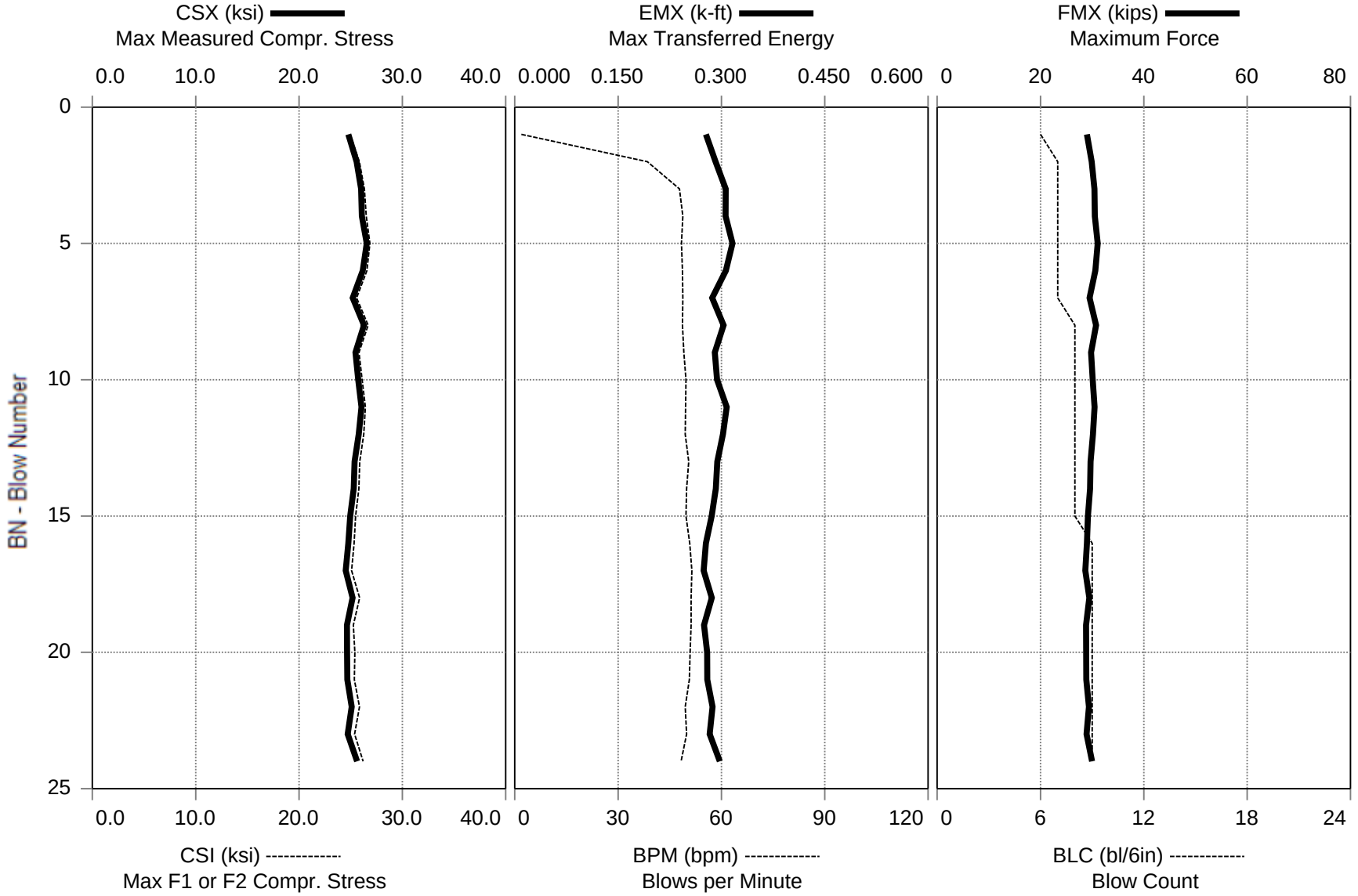
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 34.5 to 36.0 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 34.5 to 36.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 40.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
7	35.00	7	AV7	25.8	26.1	0.299	85.3	40.4	30	17.1
			MAX	26.6	26.9	0.316	90.3	48.8	31	17.6
15	35.50	8	AV8	25.6	26.1	0.296	84.6	49.6	30	17.2
			MAX	26.3	26.7	0.308	87.9	50.5	31	17.6
24	36.00	9	AV9	24.9	25.5	0.282	80.6	50.4	29	17.0
			MAX	25.6	26.2	0.298	85.1	51.4	30	17.4
			Average	25.4	25.9	0.292	83.3	47.2	30	17.1
			Maximum	26.6	26.9	0.316	90.3	51.4	31	17.6

Total number of blows analyzed: 24

BL# Sensors

1-24 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 28 seconds 10:44 AM - 10:45 AM BN 1 - 24

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 34.5 to 36.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 40.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	35.06	8	26.3	26.7	0.303	86.6	48.7	31	17.6
9	35.13	8	25.5	25.8	0.290	83.0	49.1	30	16.7
10	35.19	8	25.7	26.1	0.294	83.9	49.7	30	17.4
11	35.25	8	26.0	26.4	0.308	87.9	49.6	30	17.5
12	35.31	8	25.8	26.3	0.302	86.3	49.5	30	17.4
13	35.38	8	25.4	25.9	0.294	84.0	50.5	30	16.9
14	35.44	8	25.3	25.8	0.292	83.4	49.9	30	17.2
15	35.50	8	24.9	25.5	0.286	81.7	49.7	29	16.9
16	35.56	9	24.8	25.3	0.278	79.3	50.8	29	16.8
17	35.61	9	24.5	25.1	0.274	78.4	51.4	29	16.9
18	35.67	9	25.2	25.9	0.286	81.7	51.2	29	17.1
19	35.72	9	24.6	25.2	0.275	78.5	51.2	29	16.9
20	35.78	9	24.6	25.4	0.279	79.8	50.9	29	16.7
21	35.83	9	24.7	25.3	0.280	79.9	50.7	29	16.7
22	35.89	9	25.1	25.9	0.287	82.0	49.5	29	17.2
23	35.94	9	24.7	25.4	0.283	80.8	49.9	29	17.1
24	36.00	9	25.6	26.2	0.298	85.1	48.3	30	17.4
		Average	25.2	25.8	0.289	82.5	50.0	30	17.1
		Maximum	26.3	26.7	0.308	87.9	51.4	31	17.6

Total number of blows analyzed: 17

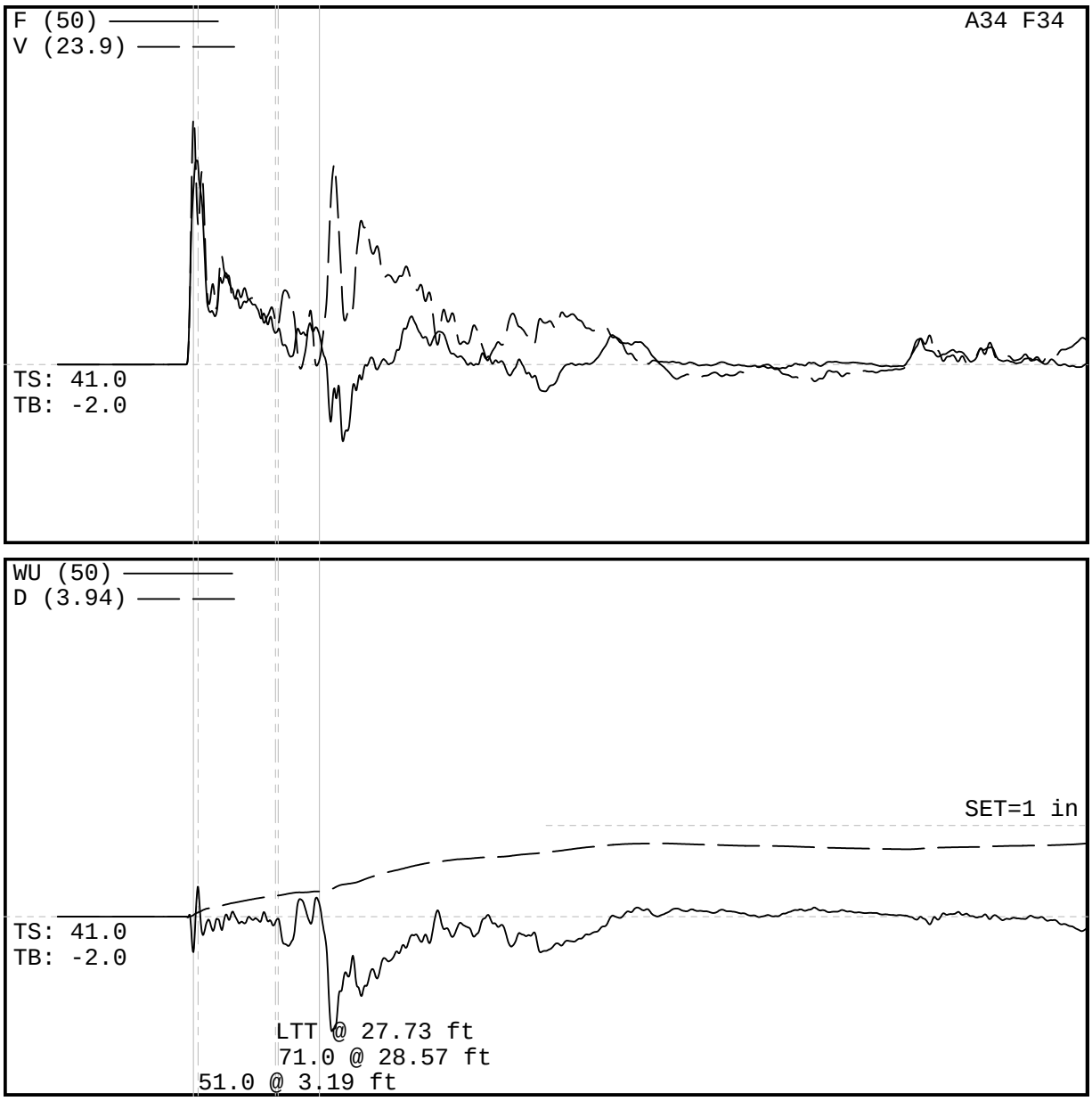
BL# Sensors

8-24 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 28 seconds 10:44 AM - 10:45 AM BN 1 - 24

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 36.0 to 37.5 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 36.0 to 37
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 36.0 to 37.5 ft
10/4/2016 10:47:41 AM
Blow Number 1

Pile Properties

LE	40.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	4.76	ms
JC		[]
LP	36.06	ft

Quantity Results

CSX	24.30	ksi
CSIt	24.72	ksi
EMX	0.283	k-ft
ETR	80.9	(%)
BPM	1.9	bpm
FMX	28	kips
VMX	16.4	f/s
QNV	0.00	[]
QNV	0.00	[]

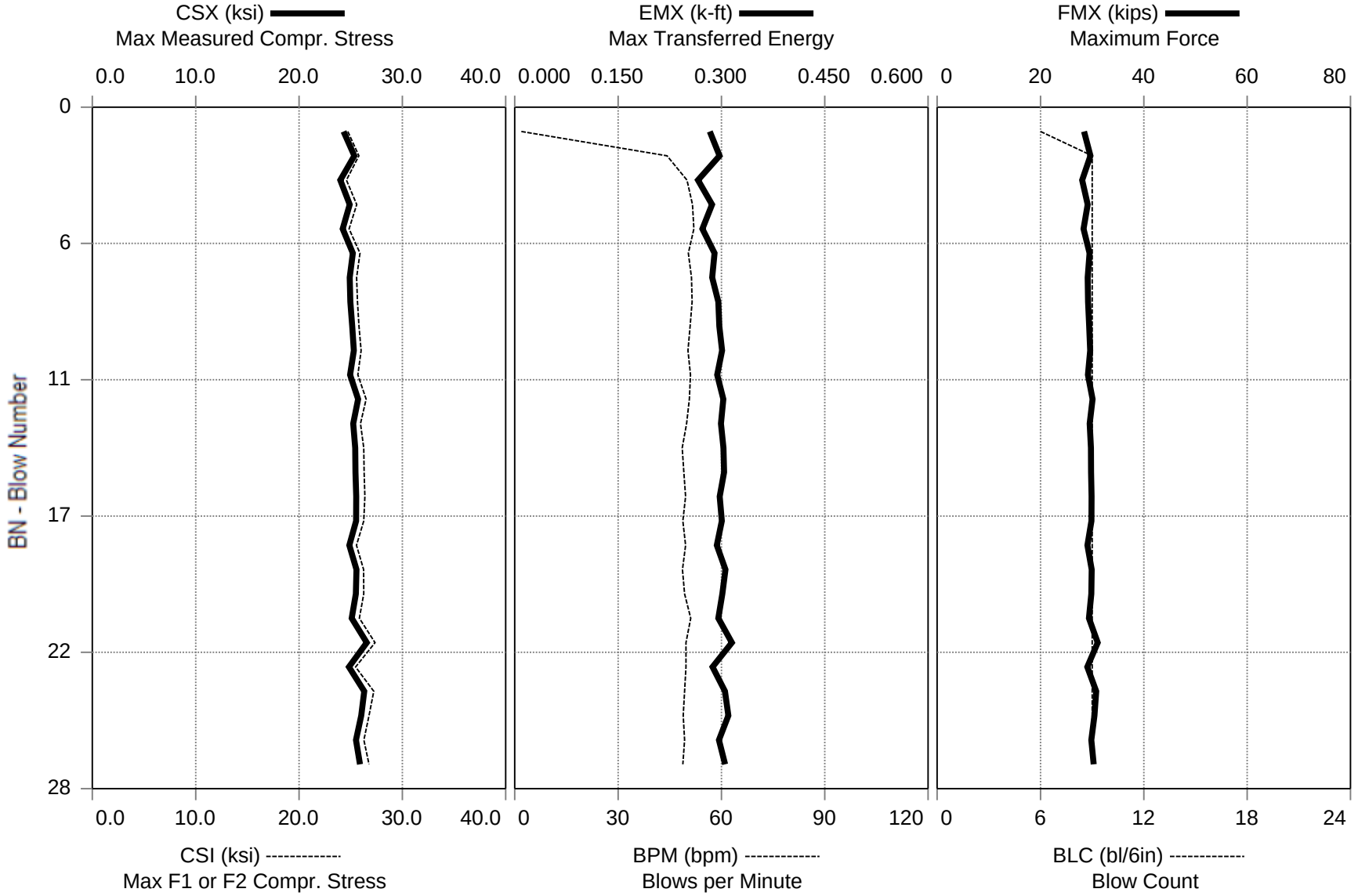
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 36.0 to 37.5 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 36.0 to 37.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 40.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	36.50	9	AV9	24.8	25.4	0.286	81.7	44.9	29	17.1
			MAX	25.4	25.9	0.297	85.0	52.0	30	17.6
18	37.00	9	AV9	25.3	26.1	0.299	85.6	49.7	30	17.5
			MAX	25.7	26.5	0.304	86.8	51.0	30	17.8
27	37.50	9	AV9	25.7	26.5	0.302	86.4	49.4	30	17.7
			MAX	26.6	27.3	0.315	90.0	51.1	31	18.3
			Average	25.3	26.0	0.296	84.6	48.0	30	17.4
			Maximum	26.6	27.3	0.315	90.0	52.0	31	18.3

Total number of blows analyzed: 27

BL# Sensors

1-27 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 31 seconds 10:47 AM - 10:48 AM BN 1 - 27

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 36.0 to 37.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 40.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
10	36.56	9	25.3	26.0	0.301	86.0	50.3	30	17.6
11	36.61	9	24.9	25.7	0.294	83.9	51.0	29	17.3
12	36.67	9	25.7	26.5	0.303	86.5	50.7	30	17.7
13	36.72	9	25.2	26.0	0.299	85.5	49.9	30	17.6
14	36.78	9	25.4	26.3	0.303	86.6	48.6	30	17.8
15	36.83	9	25.5	26.3	0.304	86.8	49.1	30	17.7
16	36.89	9	25.5	26.4	0.297	85.0	49.6	30	17.6
17	36.94	9	25.5	26.3	0.301	85.9	48.8	30	17.4
18	37.00	9	24.9	25.6	0.293	83.8	49.6	29	17.1
19	37.06	9	25.6	26.3	0.306	87.4	48.7	30	17.6
20	37.11	9	25.5	26.3	0.301	86.1	49.3	30	17.3
21	37.17	9	25.1	25.8	0.295	84.4	51.1	29	17.3
22	37.22	9	26.6	27.3	0.315	90.0	49.7	31	18.3
23	37.28	9	24.8	25.5	0.287	82.1	49.7	29	17.1
24	37.33	9	26.3	27.2	0.305	87.2	49.3	31	18.0
25	37.39	9	26.0	26.8	0.310	88.6	48.9	30	17.9
26	37.44	9	25.5	26.3	0.296	84.7	49.3	30	17.6
27	37.50	9	25.9	26.8	0.305	87.3	48.8	30	17.8
		Average	25.5	26.3	0.301	86.0	49.6	30	17.6
		Maximum	26.6	27.3	0.315	90.0	51.1	31	18.3

Total number of blows analyzed: 18

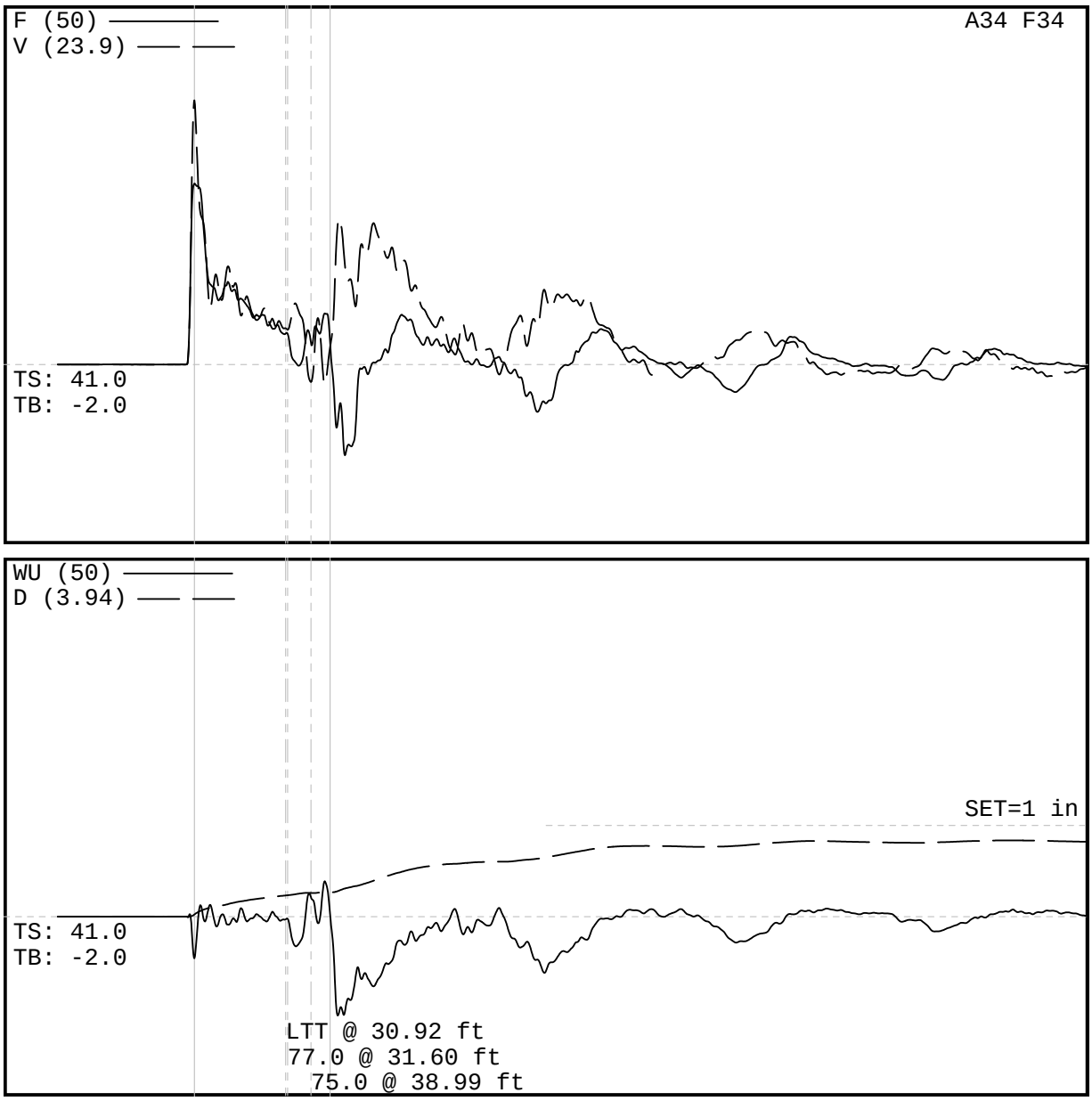
BL# Sensors

10-27 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 31 seconds 10:47 AM - 10:48 AM BN 1 - 27

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 37.5 to 39.0 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 37.5 to 39
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 37.5 to 39.0 ft
10/4/2016 10:58:46 AM
Blow Number 1

Pile Properties

LE	43.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	5.12	ms
JC	[]	
LP	37.60	ft

Quantity Results

CSX	21.56	ksi
CSIt	21.82	ksi
EMX	0.276	k-ft
ETR	78.9	(%)
BPM	1.9	bpm
FMX	25	kips
VMX	17.6	f/s
QNV	0.00	[]
QNV	0.00	[]

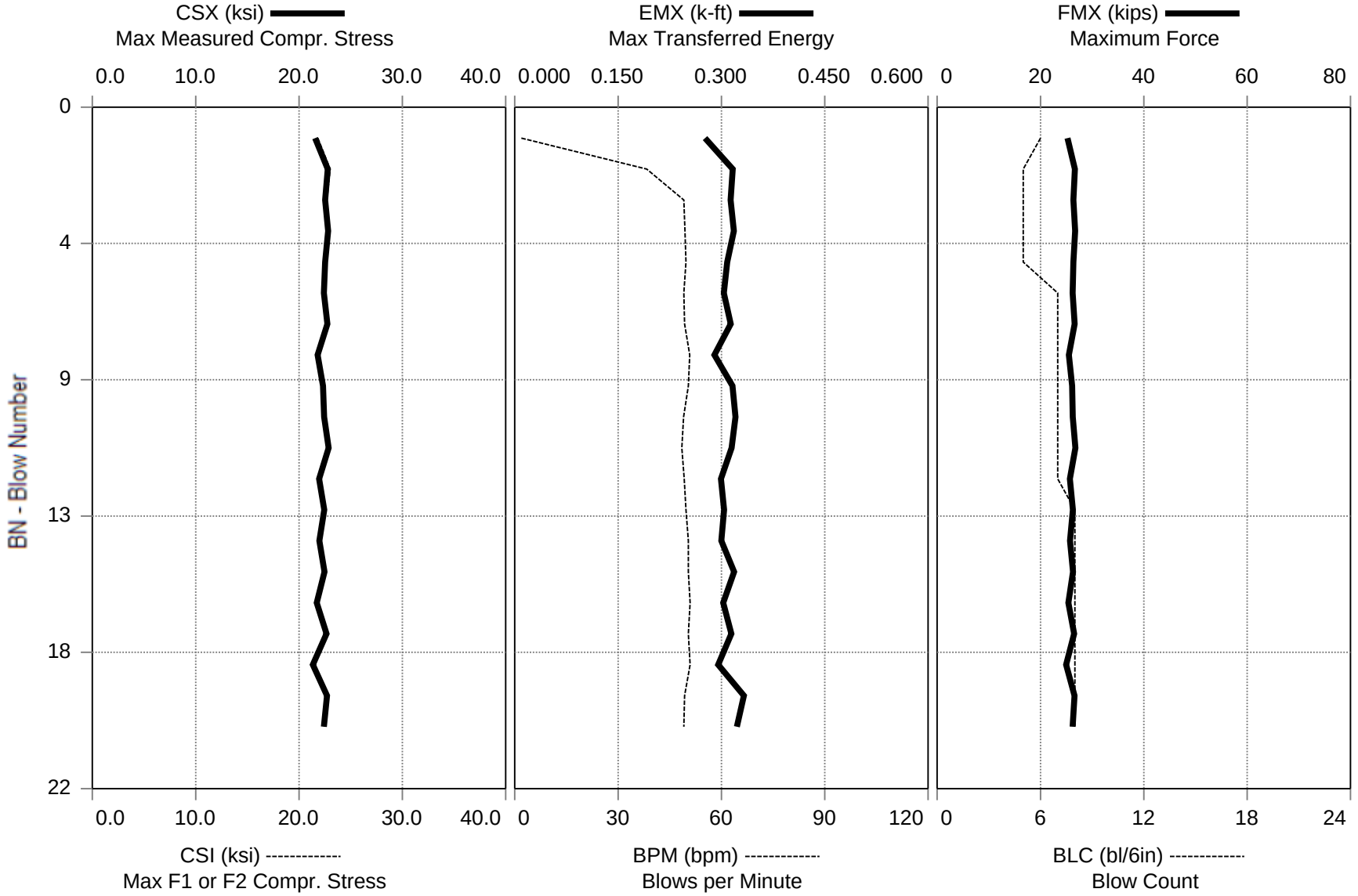
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 37.5 to 39.0 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 37.5 to 39.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 43.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
5	38.00	5	AV5	22.4	22.6	0.306	87.6	37.7	26	18.8
			MAX	22.8	23.0	0.318	90.9	49.7	27	19.3
12	38.50	7	AV7	22.4	22.4	0.308	88.1	49.5	26	18.7
			MAX	22.9	23.0	0.320	91.5	50.8	27	19.4
20	39.00	8	AV8	22.2	22.3	0.311	88.9	50.1	26	19.0
			MAX	22.7	22.8	0.333	95.0	50.9	27	19.5
			Average	22.3	22.4	0.309	88.3	46.8	26	18.8
			Maximum	22.9	23.0	0.333	95.0	50.9	27	19.5

Total number of blows analyzed: 20

BL# Sensors

1-20 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 23 seconds 10:58 AM - 10:59 AM BN 1 - 20

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 37.5 to 39.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 43.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	38.07	7	22.4	22.5	0.304	86.7	49.1	26	18.6
7	38.14	7	22.7	22.8	0.313	89.6	49.3	27	18.6
8	38.21	7	21.8	21.9	0.290	82.8	50.8	25	18.1
9	38.29	7	22.3	22.3	0.316	90.3	50.4	26	19.1
10	38.36	7	22.4	22.5	0.320	91.5	49.0	26	19.4
11	38.43	7	22.9	23.0	0.315	89.9	48.5	27	18.8
12	38.50	7	21.9	22.0	0.299	85.5	49.2	26	18.4
13	38.56	8	22.4	22.5	0.304	86.8	49.7	26	18.7
14	38.63	8	22.0	22.0	0.300	85.7	50.4	26	18.4
15	38.69	8	22.5	22.5	0.318	91.0	50.4	26	19.4
16	38.75	8	21.7	21.7	0.303	86.4	50.9	25	18.9
17	38.81	8	22.7	22.7	0.314	89.8	50.4	27	18.7
18	38.88	8	21.3	21.4	0.295	84.4	50.9	25	18.7
19	38.94	8	22.7	22.8	0.333	95.0	49.3	27	19.5
20	39.00	8	22.4	22.4	0.322	92.1	49.1	26	19.5
		Average	22.3	22.3	0.310	88.5	49.8	26	18.8
		Maximum	22.9	23.0	0.333	95.0	50.9	27	19.5

Total number of blows analyzed: 15

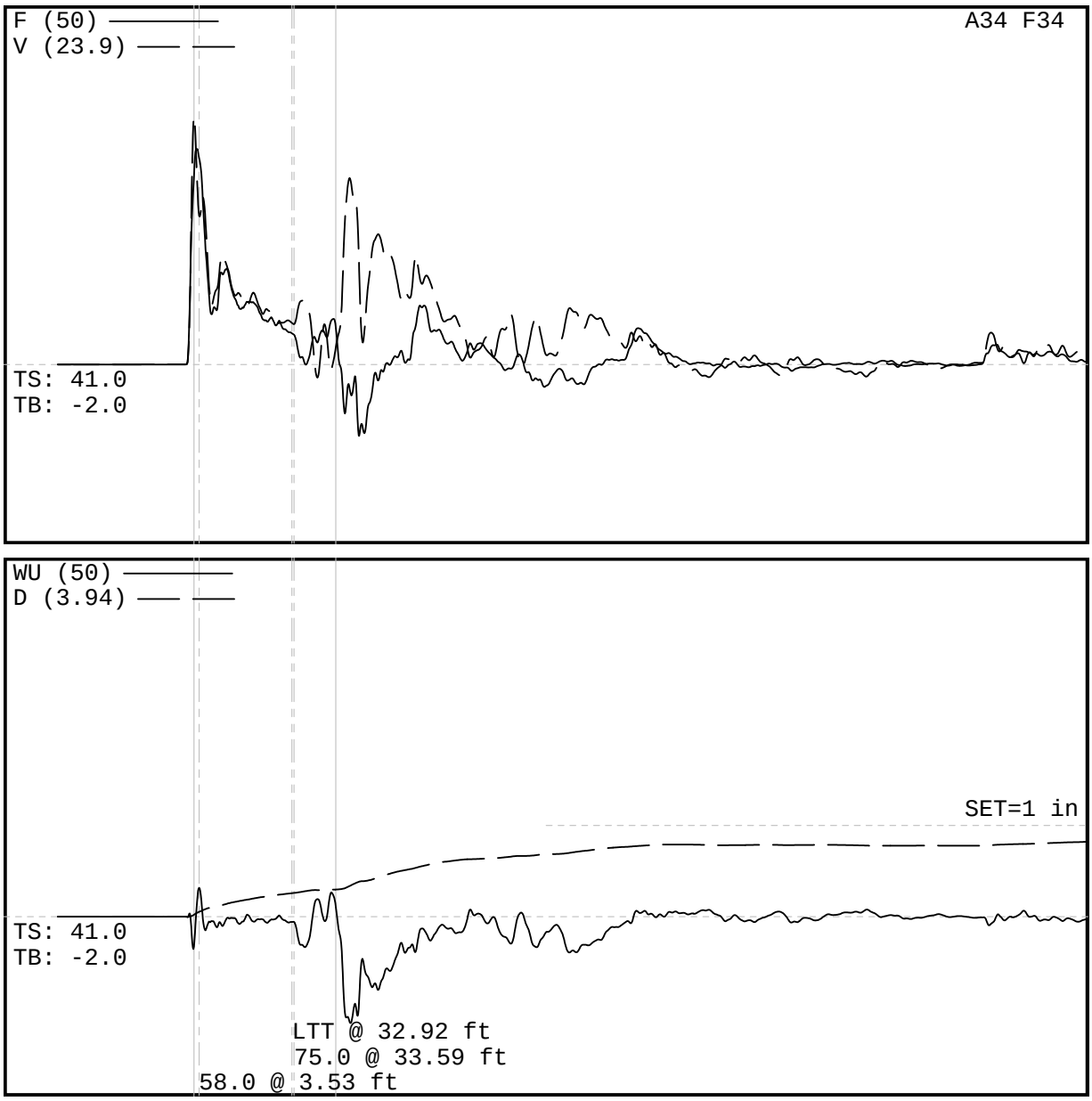
BL# Sensors

6-20 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 23 seconds 10:58 AM - 10:59 AM BN 1 - 20

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 39.0 to 40.5 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 39.0 to 40
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 39.0 to 40.5 ft
10/4/2016 11:03:15 AM
Blow Number 1

Pile Properties

LE	45.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	5.36	ms
JC		[]
LP	39.00	ft

Quantity Results

CSX	25.67	ksi
CSIt	25.83	ksi
EMX	0.314	k-ft
ETR	89.8	(%)
BPM	1.9	bpm
FMX	30	kips
VMX	16.5	f/s
QNV	0.00	[]
QNV	0.00	[]

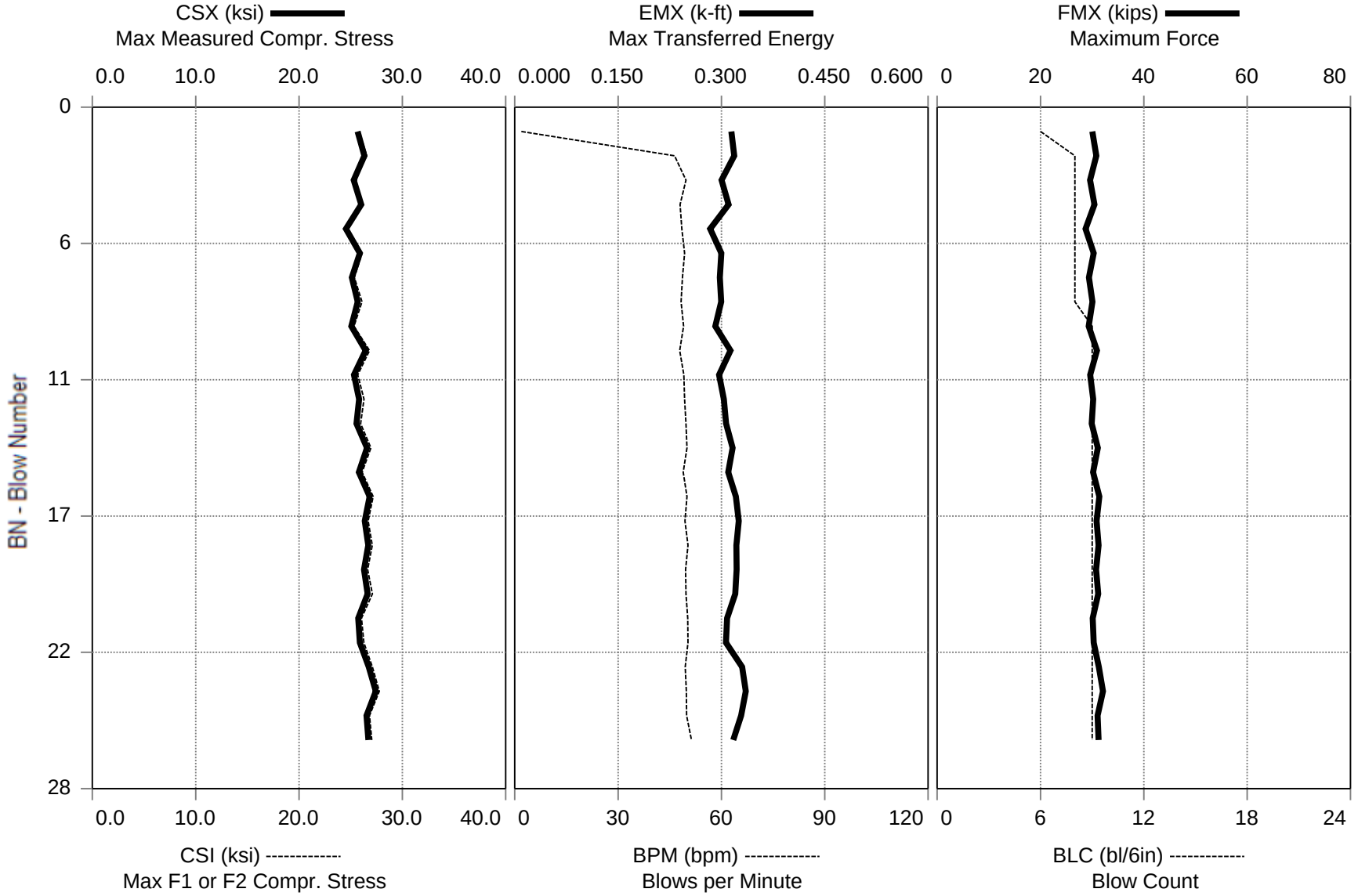
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 39.0 to 40.5 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 39.0 to 40.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 45.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	39.50	8	AV8	25.6	25.8	0.303	86.6	42.6	30	16.6
			MAX	26.3	26.6	0.319	91.0	49.7	31	17.6
17	40.00	9	AV9	26.0	26.3	0.309	88.4	49.3	30	16.7
			MAX	26.8	27.2	0.325	92.9	50.0	31	17.4
26	40.50	9	AV9	26.5	26.9	0.321	91.7	50.1	31	17.3
			MAX	27.4	27.8	0.335	95.8	51.3	32	17.7
			Average	26.0	26.3	0.311	89.0	47.5	30	16.9
			Maximum	27.4	27.8	0.335	95.8	51.3	32	17.7

Total number of blows analyzed: 26

BL# Sensors

1-26 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 30 seconds 11:03 AM - 11:03 AM BN 1 - 26

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 39.0 to 40.5 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 45.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	39.56	9	25.1	25.3	0.291	83.2	49.0	29	16.0
10	39.61	9	26.4	26.8	0.313	89.5	47.9	31	17.1
11	39.67	9	25.3	25.7	0.297	84.7	49.1	30	16.4
12	39.72	9	25.8	26.3	0.304	86.7	49.3	30	16.3
13	39.78	9	25.6	26.0	0.307	87.7	49.7	30	16.7
14	39.83	9	26.6	27.0	0.316	90.4	50.0	31	16.9
15	39.89	9	25.8	26.1	0.310	88.5	48.9	30	16.7
16	39.94	9	26.8	27.2	0.321	91.7	50.0	31	17.1
17	40.00	9	26.4	26.7	0.325	92.9	49.4	31	17.4
18	40.06	9	26.7	27.1	0.322	91.9	50.3	31	17.1
19	40.11	9	26.3	26.6	0.322	92.0	49.6	31	17.5
20	40.17	9	26.6	27.1	0.320	91.4	49.7	31	17.6
21	40.22	9	25.7	26.0	0.308	88.0	50.2	30	16.6
22	40.28	9	25.9	26.3	0.306	87.6	50.3	30	16.9
23	40.33	9	26.7	27.1	0.330	94.3	49.5	31	17.3
24	40.39	9	27.4	27.8	0.335	95.8	49.8	32	17.5
25	40.44	9	26.5	26.8	0.329	93.9	49.9	31	17.7
26	40.50	9	26.7	27.0	0.317	90.6	51.3	31	17.1
		Average	26.2	26.6	0.315	90.0	49.7	31	17.0
		Maximum	27.4	27.8	0.335	95.8	51.3	32	17.7

Total number of blows analyzed: 18

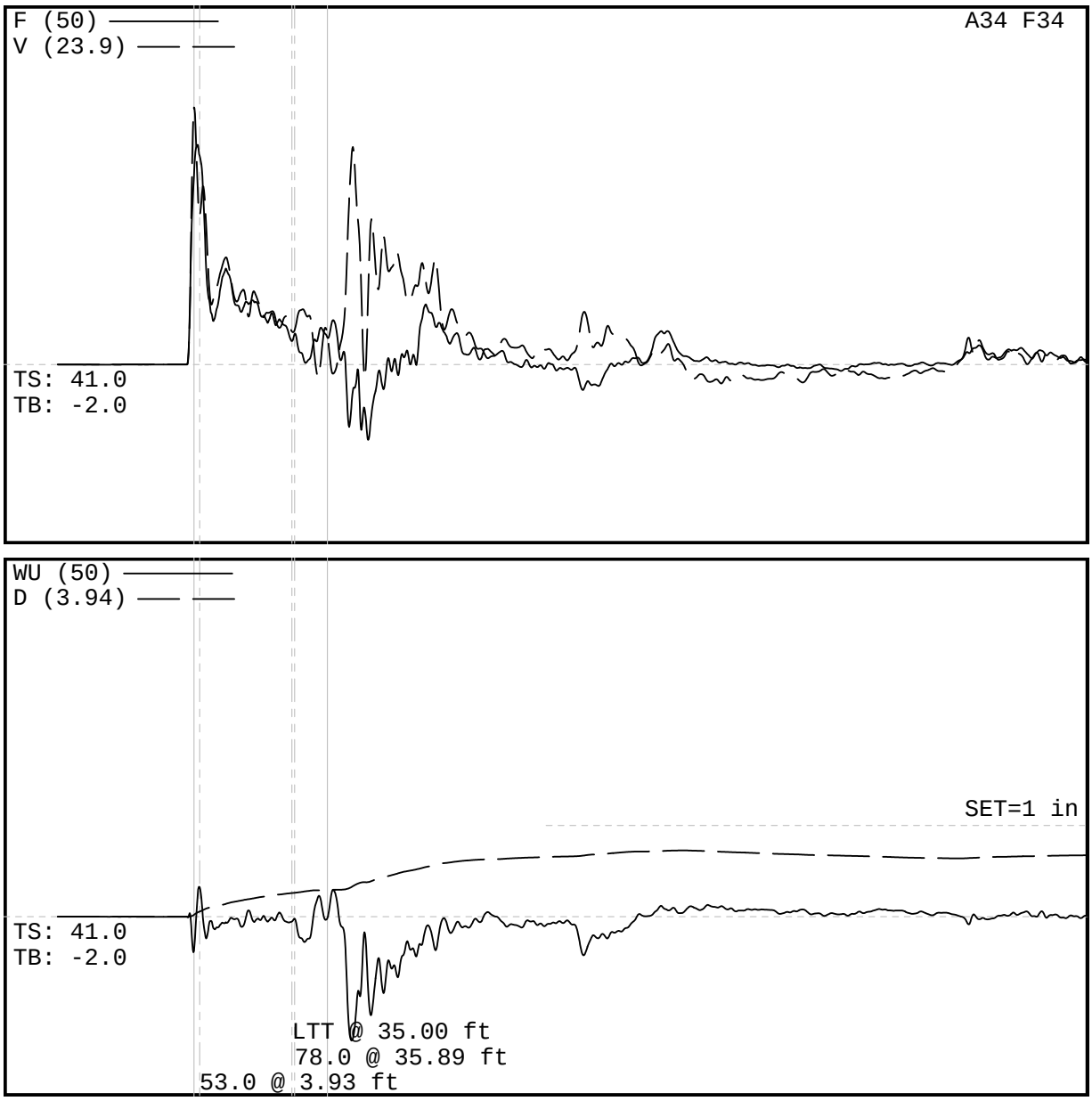
BL# Sensors

9-26 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 30 seconds 11:03 AM - 11:03 AM BN 1 - 26

Thompson SPT Calibration - CME 45C CME 45C (SN 244224) - 40.5 to 42.0 ft



Project Information

PROJECT: Thompson SPT Calibration - CME 45C
PILE NAME: CME 45C (SN 244224) - 40.5 to 42
DESCR: AWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 45C (SN 244224) - 40.5 to 42.0 ft
10/4/2016 11:06:44 AM
Blow Number 1

Pile Properties

LE	45.00	ft
AR	1.17	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.1	ksec/ft
2L/C	5.04	ms
JC	[]	
LP	40.56	ft

Quantity Results

CSX	26.15	ksi
CSIt	26.37	ksi
EMX	0.315	k-ft
ETR	90.1	(%)
BPM	1.9	bpm
FMX	31	kips
VMX	17.1	f/s
QNV	0.00	[]
QNV	0.00	[]

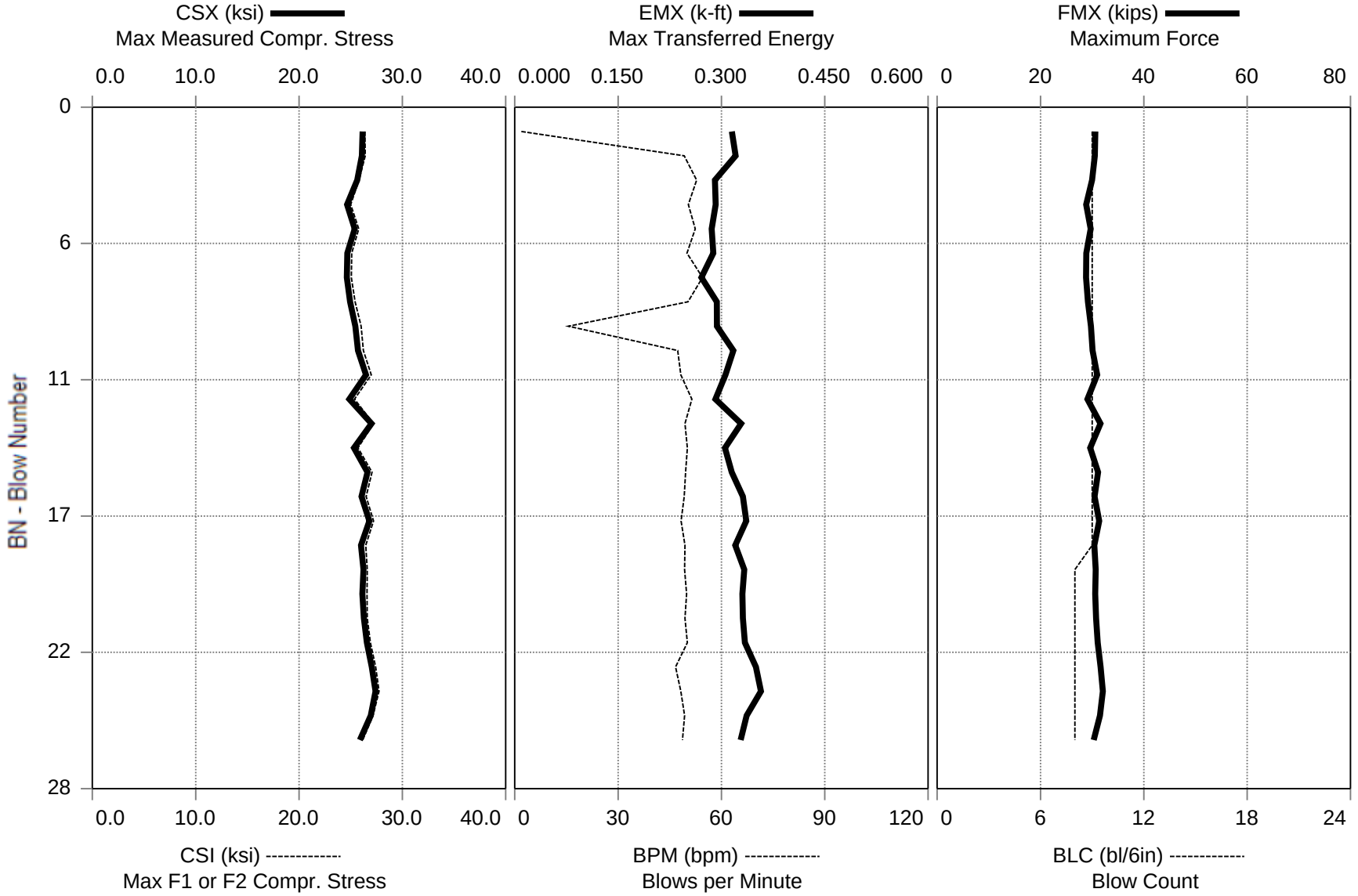
Sensors

F3: [421 AWJ-1] 211.72 (1)
F4: [421 AWJ-2] 211.22 (1)
A3: [K3759] 388 mv/5000g's (1)
A4: [K3760] 382 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 06-October-2016 Test started: 04-October-2016

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 40.5 to 42.0 ft - AWJ Rod - Mud Rotary



Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 40.5 to 42.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 45.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	41.00	9	AV9	25.3	25.7	0.294	84.1	41.9	30	16.5
			MAX	26.2	26.4	0.321	91.6	54.5	31	17.1
18	41.50	9	AV9	26.1	26.5	0.317	90.5	49.2	31	17.3
			MAX	27.0	27.2	0.336	96.0	51.4	32	18.1
26	42.00	8	AV8	26.6	26.9	0.338	96.5	49.0	31	17.7
			MAX	27.4	27.7	0.357	102.1	50.1	32	18.4
			Average	26.0	26.3	0.315	90.1	46.6	30	17.1
			Maximum	27.4	27.7	0.357	102.1	54.5	32	18.4

Total number of blows analyzed: 26

BL# Sensors

1-26 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 32 seconds 11:06 AM - 11:07 AM BN 1 - 26

Thompson SPT Calibration - CME 45C - CME 45C (SN 244224) - 40.5 to 42.0 ft AWJ Rod - Mud Rotary
OP: MBP Date: 04-October-2016

AR: 1.17 in² SP: 0.492 k/ft³
LE: 45.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
10	41.06	9	25.7	26.2	0.317	90.6	47.3	30	16.9
11	41.11	9	26.5	27.0	0.306	87.4	48.2	31	17.0
12	41.17	9	24.9	25.4	0.291	83.2	51.4	29	16.3
13	41.22	9	27.0	27.2	0.329	93.9	49.4	32	18.1
14	41.28	9	25.3	25.7	0.305	87.2	50.1	30	17.2
15	41.33	9	26.6	27.1	0.315	90.0	49.6	31	17.7
16	41.39	9	26.0	26.5	0.331	94.6	49.2	30	17.5
17	41.44	9	26.8	27.2	0.336	96.0	48.3	31	17.9
18	41.50	9	26.0	26.5	0.320	91.4	49.4	30	17.0
19	41.56	8	26.2	26.6	0.333	95.2	49.3	31	17.7
20	41.63	8	26.1	26.6	0.330	94.4	49.9	31	17.5
21	41.69	8	26.3	26.6	0.331	94.6	49.4	31	17.4
22	41.75	8	26.6	26.9	0.334	95.4	50.1	31	17.7
23	41.81	8	27.0	27.4	0.350	100.0	46.7	32	17.9
24	41.88	8	27.4	27.7	0.357	102.1	48.2	32	18.4
25	41.94	8	26.9	27.2	0.337	96.1	49.3	32	17.9
26	42.00	8	25.9	26.2	0.328	93.7	48.7	30	17.4
		Average	26.3	26.7	0.327	93.3	49.1	31	17.5
		Maximum	27.4	27.7	0.357	102.1	51.4	32	18.4

Total number of blows analyzed: 17

BL# Sensors

10-26 F3: [421 AWJ-1] 211.7 (1.00); F4: [421 AWJ-2] 211.2 (1.00); A3: [K3759] 388.0 (1.00); A4: [K3760] 382.0 (1.00)

Time Summary

Drive 32 seconds 11:06 AM - 11:07 AM BN 1 - 26

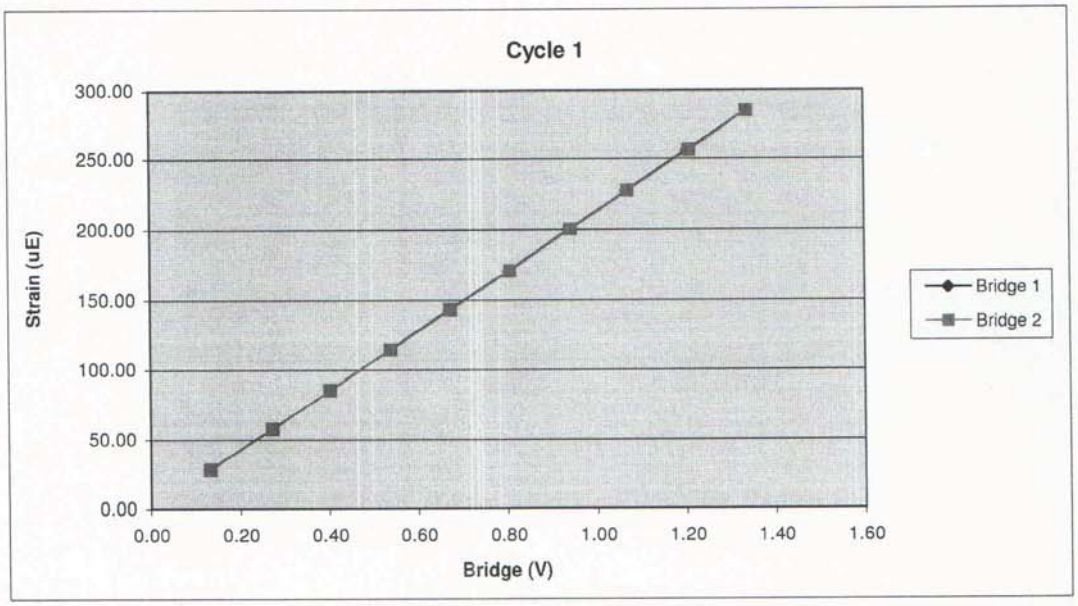
Appendix B

Dynamic Measurement Calibration Sheets

421AWJ		Cycle 1		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	977.41	28.35	0.13	0.13
3	2000.85	57.50	0.27	0.27
4	2967.25	85.45	0.40	0.40
5	3968.27	114.62	0.54	0.54
6	4951.78	143.03	0.67	0.67
7	5951.81	171.50	0.81	0.81
8	6947.91	200.04	0.94	0.94
9	7899.36	227.51	1.07	1.07
10	8936.57	256.49	1.21	1.21
11	9889.40	284.22	1.34	1.34

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7400.94**	**Force Calibration (lb/V)**	**7395.17**
Offset	-8.93	Offset	-13.36
Correlation	0.999997	Correlation	0.999998
Strain Calibration (µE/V)	**212.52**	**Strain Calibration (µE/V)**	**212.35**
Offset	0.14	Offset	0.02
Correlation	0.999998	Correlation	0.999998

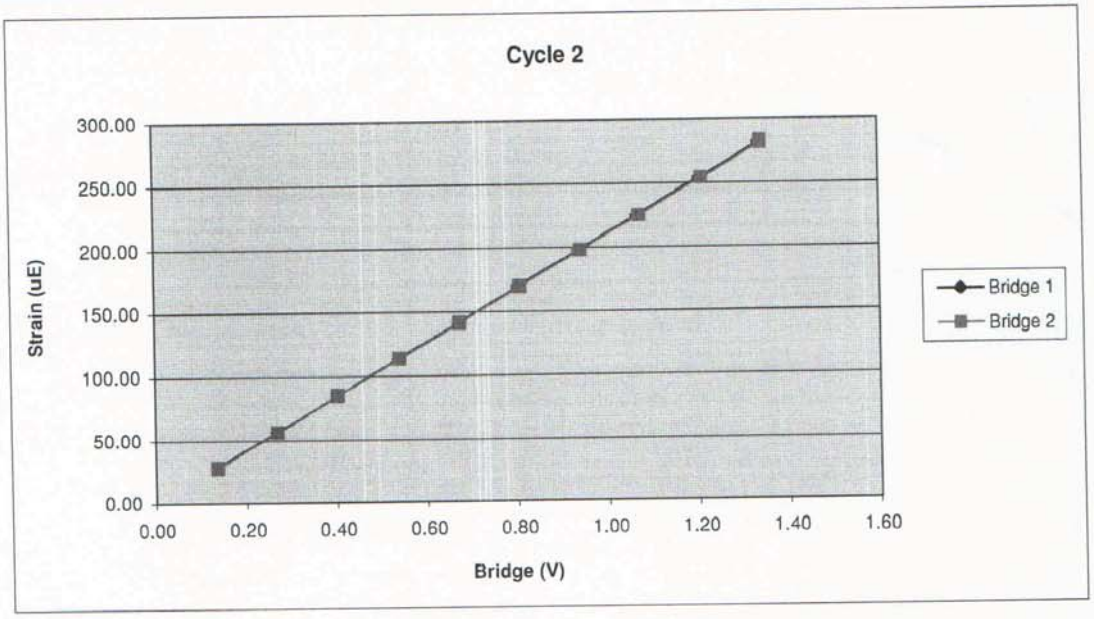
Force Strain Calibration	
EA (Kips)	**34825.17**
Offset	-13.94
Correlation	0.999994



421AWJ		Cycle 2		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	1007.12	28.19	0.14	0.14
3	1983.74	56.70	0.27	0.27
4	2974.73	84.76	0.40	0.40
5	3983.02	113.98	0.54	0.54
6	4970.66	141.67	0.67	0.67
7	5957.52	169.58	0.80	0.81
8	6953.42	197.75	0.94	0.94
9	7921.00	225.54	1.07	1.07
10	8954.67	254.34	1.21	1.21
11	9921.07	282.45	1.34	1.34

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7421.25**	**Force Calibration (lb/V)**	**7402.61**
Offset	**-4.57**	Offset	**-8.69**
Correlation	**0.999998**	Correlation	**0.999997**
Strain Calibration (µE/V)	**211.10**	**Strain Calibration (µE/V)**	**210.57**
Offset	**-0.02**	Offset	**-0.14**
Correlation	**0.999996**	Correlation	**0.999997**

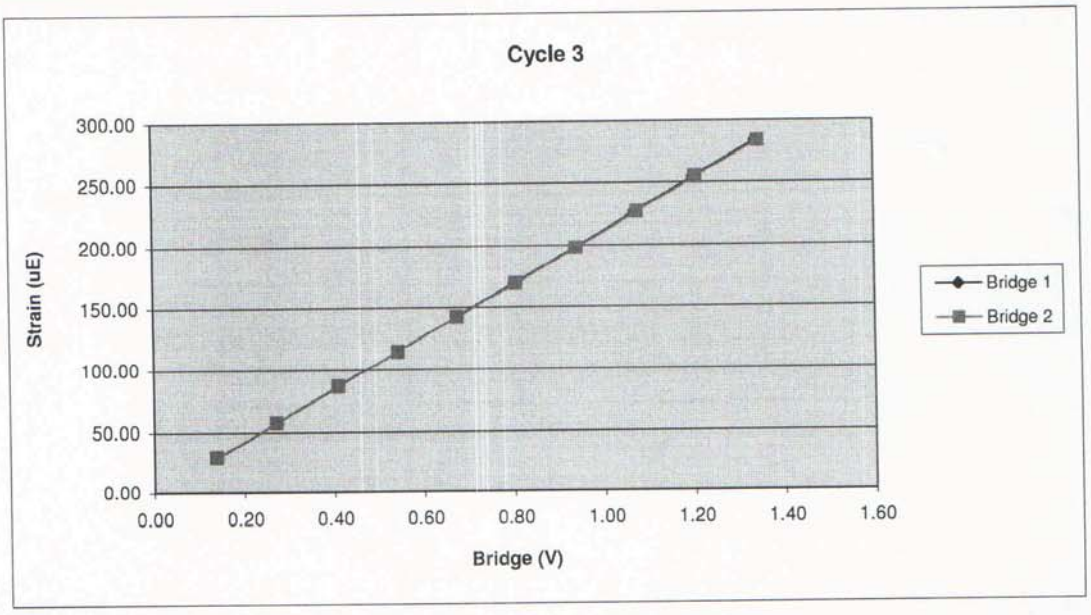
Force Strain Calibration	
EA (Kips)	**35155.36**
Offset	**-3.85**
Correlation	**0.999992**



421AWJ		Cycle 3		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	1013.80	29.12	0.14	0.14
3	1994.36	57.31	0.27	0.27
4	3014.26	86.78	0.41	0.41
5	3995.61	114.48	0.54	0.54
6	4985.22	142.55	0.67	0.67
7	5935.68	169.88	0.80	0.81
8	6941.82	198.26	0.94	0.94
9	7946.18	226.76	1.07	1.07
10	8906.48	254.57	1.20	1.21
11	9938.18	283.74	1.34	1.34

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**7420.66**	**Force Calibration (lb/V)**	**7392.54**
Offset	**-13.83**	Offset	**-5.42**
Correlation	**0.999998**	Correlation	**0.999997**
Strain Calibration (µE/V)	**211.54**	**Strain Calibration (µE/V)**	**210.74**
Offset	**0.10**	Offset	**0.34**
Correlation	**0.999999**	Correlation	**0.999999**

Force Strain Calibration	
EA (Kips)	**35079.13**
Offset	**-17.30**
Correlation	**0.999997**



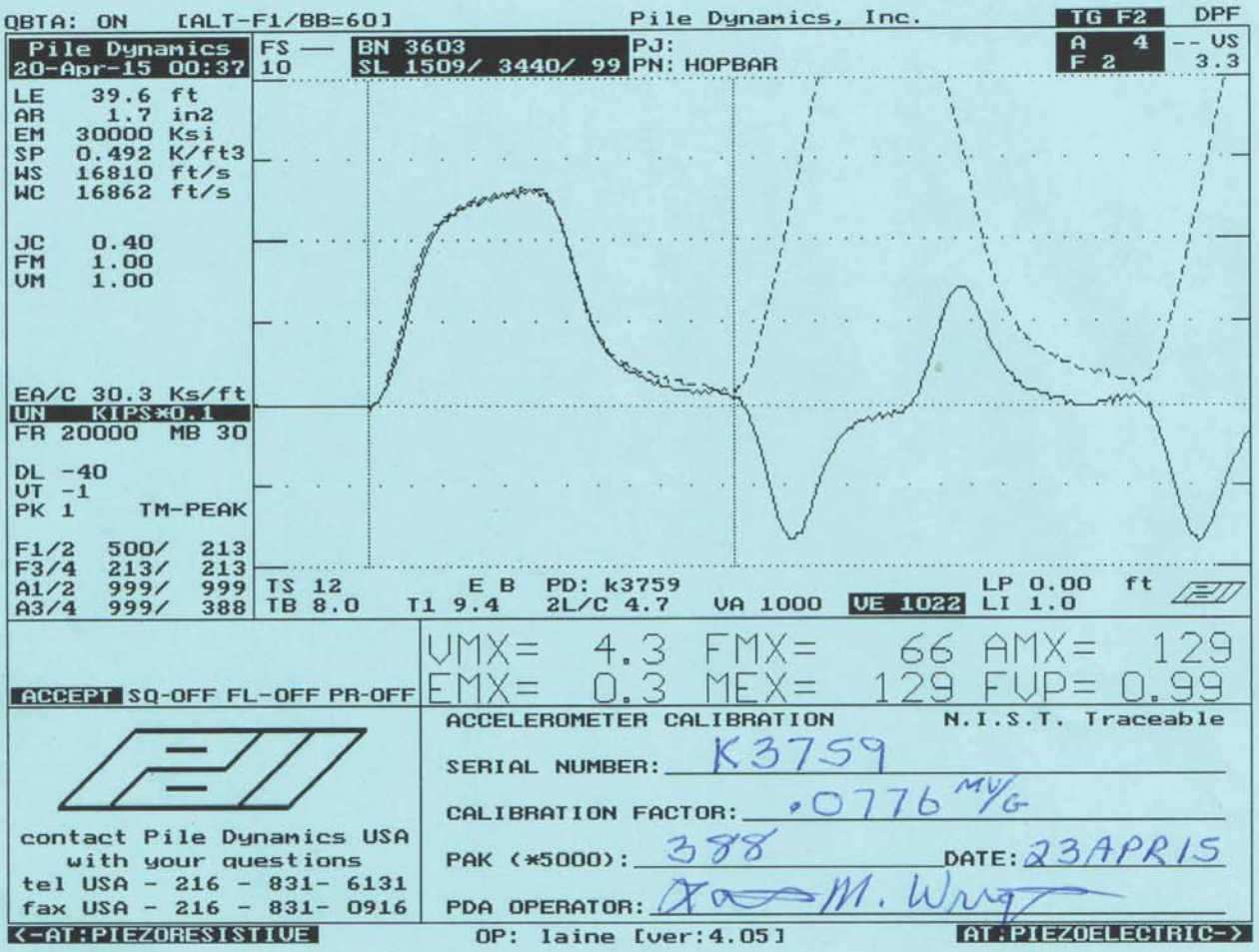
Bridge Excitation (V) 5
Shunt Resitor (ohm) 60.4k

Calibration Factors	421AWJ		
Bridge 1 (µE/V)	211.72	Bridge 2 (µE/V)	211.22
EA Factor (Kips)	35019.89	Area (in^2)	1.17

Calibrated by: David Buck
Calibrated Date: 6/10/2016

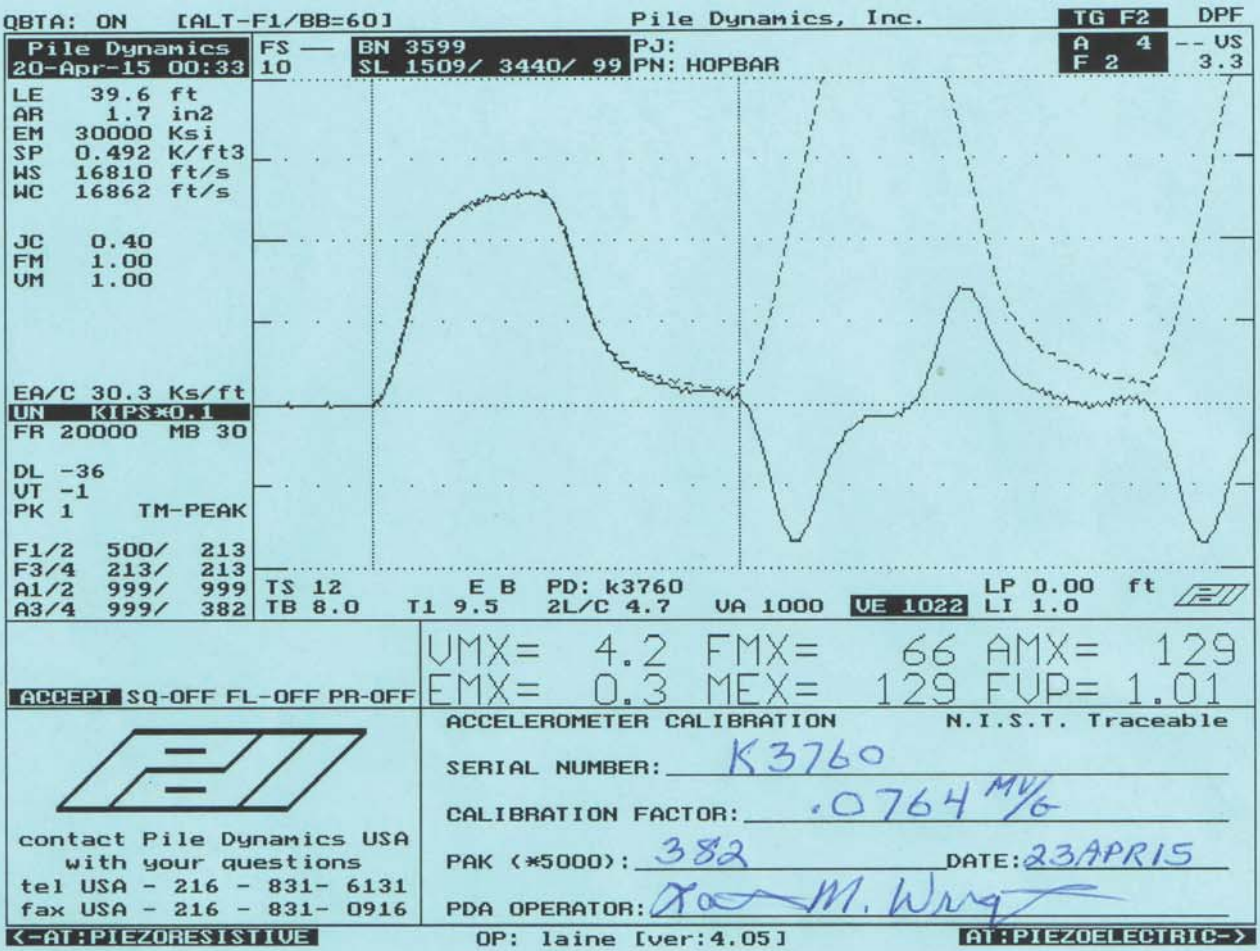
Pile Dynamics Inc
30725 Aurora Rd
Solon, OH 44139

Traceable to N.I.S.T.



Smart Sensor

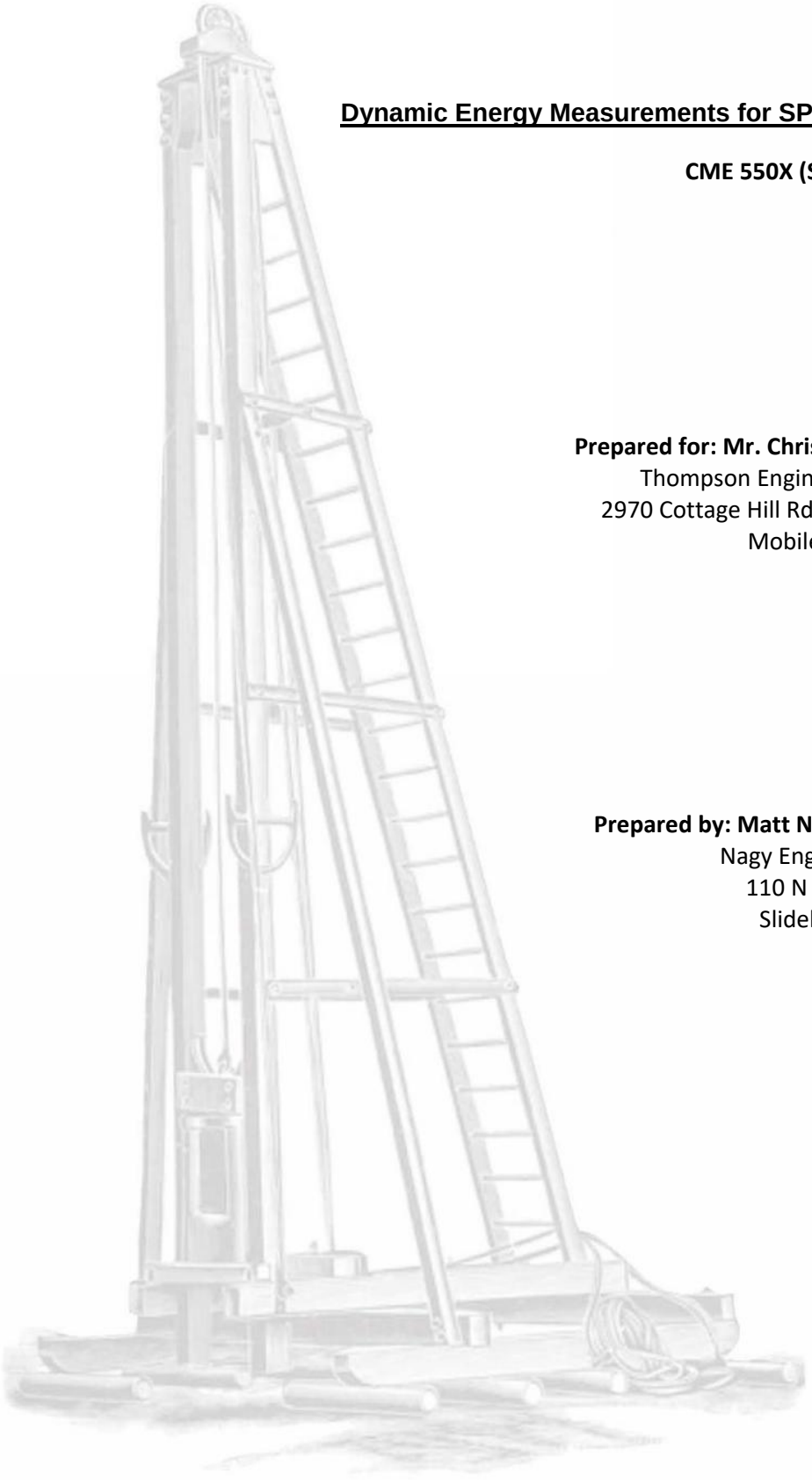
Smart Chip Programmed By R.M.W. **on** 23APR15 **CRC Value** F861



Smart Sensor

Smart Chip Programmed By T.M.W. **on** 23APR15 **CRC Value** E317

Nagy Engineers, Inc.



Dynamic Energy Measurements for SPT Hammer

CME 550X (S/N 355273)

Prepared for: Mr. Chris Dugger of
Thompson Engineering, Inc.
2970 Cottage Hill Rd., Suite 190
Mobile, AL 36606

Prepared by: Matt Nagy, P.E. of
Nagy Engineers, Inc.
110 N Queens Dr.
Slidell, LA 70458

September 13, 2017

Mr. Chris Dugger
Thompson Engineering, Inc.
2970 Cottage Hill Road, Suite 190
Mobile, AL 36606

Re: SPT Hammer Calibration using Dynamic Energy Measurements
Thompson Engineering Drill Rig – CME 550X (S/N 355273)
Nagy Engineers Job No. 171044-1

Dear Mr. Dugger:

This report summarizes the results from SPT Energy Measurement Testing performed in Mobile, Alabama near the intersection of Interstate 10 and Old Spanish Trail on September 11, 2017. The testing was conducted to calibrate a CME 550X automatic SPT hammer. The hammer reportedly had a 140 lb drop weight and a 2.5 ft drop height. Appendix A gives a summary of the field dynamic test data and results while Appendix B contains the equipment calibration sheets. An overall summary of the test results is presented in Table 1.

OBJECTIVES

The objective of the testing was to perform SPT Energy Measurements according to ASTM D4633-10. These objectives were met using our Pile Driving Analyzer®, Model PAX – SPT Software, which acquired the SPT hammer's transfer energies using an instrumented NWJ rod section and two piezoresistive accelerometers.

TESTING AND EQUIPMENT

Drilling and SPT Hammer Equipment

SPT energy measurements were collected for a CME 550X automatic SPT hammer. The serial number on the rig was s/n 355273. Energy records were collected at various increments between the depths of 13.5 ft and 35.0 ft. The drilling method was mud rotary. Appendix A contains a photo of the CME 550X rig that was tested.

Instrumentation

A Model PAX Pile Driving Analyzer® (PDA) data acquisition system was used to collect and process the dynamic measurements of force and velocity. The PAX is a digital system having a low pass filter cutoff frequency of 5 kHz. The sampling frequency was therefore set to 10 times the low pass filter, or 50 kHz. A

two foot long section of NWJ rod subsection was instrumented with one full bridge foil resistance strain gage and two piezoresistive accelerometers mounted at the midpoint location of the instrumented subsection. Strain and acceleration signals were conditioned, digitized, stored and processed using the PDA. Selected output from the PDA for each recorded impact included the maximum calculated rod top force (FMX), maximum rod top velocity (VMX), maximum average compressive stress (CSX), maximum energy transfer (EMX), energy transfer ratio (ETR) and the hammer operating rate (BPM).

MEASUREMENTS AND CALCULATIONS

FV Method (EMX)

Energy transfer to the PDA gage location, EMX, was computed by the PDA using force, F(t), and velocity, v(t), records as follows:

$$EMX = \int_a^b F(t) \cdot v(t) dt$$

The time "a" corresponds to the start of the record when the energy transfer begins, and "b" is the time at which energy transferred to the rod reaches a maximum value. The FV Method is currently recognized in ASTM D4633-10, and is the theoretically correct result; therefore, no other energy calculation methods are reported.

RESULTS

Upon return to the office, the records collected by the PDA were checked for consistency and accuracy. For example, records from very weak startup or final impacts were not included in the results. Appendix A contains a representative plot of force and normalized velocity versus time and PDIPLOT results for all hammer blows at each dynamically monitored sampling depth. The PDA results include the EMX (transferred energy by the EMX method, as recommended by ASTM D4633-10), ETR (energy transfer ratio), BPM (hammer operating rate), FMX (maximum rod top force), CSX (maximum compressive stress), and VMX (maximum rod top velocity). The plots show each calculated PDA result versus sampling spoon penetration while the tables show statistical summaries for each 6 inch increment. At the end of each table, on the next page, is a statistical evaluation of the results which only include the blows that correspond to the N-Value for that sample.

Table 1 summarizes the average transfer energy values calculated by the EMX method. The records averaged consist only of the hammer blows at each dynamically monitored sampling depth that correspond to the N-Values (i.e. the blows in the initial 6 inches of split spoon driving were not considered

as part of the average). The “energy transfer ratio” (ETR) is defined as the ratio of maximum transferred energy EMX divided by the theoretical hammer potential energy of 350 ft-lbs. The average hammer operating rate is reported in blows per minute (BPM).

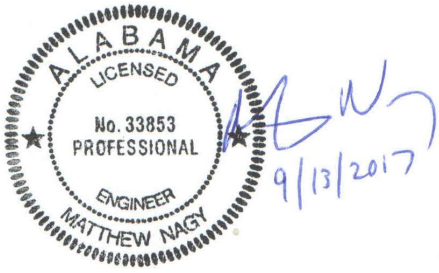
CONCLUSIONS

RIG: CME 550X (s/n: 355273) - 140 lbs Hammer – 2.5 ft Drop Height

The average maximum energy transfer (EMX) to the NWJ SPT rod using the 140 lbs drop weight was 314 ft-lbs which is 90% of the 350 ft-lbs potential energy of the hammer. The standard deviation of the transfer efficiency was 3% over the eight samples that were collected. The average hammer operation rate during the time of testing was 51.5 blows/min.

We have appreciated this opportunity to be of assistance to you on this project, please contact our office if you have any questions regarding this report, or if we may be of further service.

Very truly yours,
Nagy Engineers, Inc.



Matthew Nagy, P.E. AL # 33853

Firm COA Number: 4718

Enclosed: Appendices A and B

TABLE 1: Summary of SPT Energy Measurements
CME 550X Automatic SPT Hammer (S/N 355273)

Rod Length Below Gages *LE*	Depth Below Top of Ground	Reported SPT Blow Counts	Maximum Transfer Force *FMX*	Maximum Compressive Stress *CSX*	Average Hammer Blow Rate *BPM*	Average Energy Transfer *EMX*	Average Transfer Efficiency *ETR*
ft	ft	blows/6"	kips	ksi	blows/min	ft-lbs	%
19.0	13.5 to 15.0	3,7,11	42	29.5	43.7	290	83%
24.0	18.5 to 20.0	2,3,8	43	30.6	54.4	310	89%
27.0	21.0 to 22.5	13,23,21	43	30.3	56.6	313	89%
29.0	23.5 to 25.0	8,8,5	43	30.0	50.5	314	90%
32.0	26.0 to 27.5	7,5,5	44	30.7	55.5	327	93%
34.0	28.5 to 30.0	5,9,15	43	30.0	50.4	327	93%
37.0	31.0 to 32.5	6,4,8	43	30.0	50.4	314	90%
39.0	33.5 to 35.0	9,12,12	43	30.5	50.5	318	91%
		Overall Average			**51.5**	**314**	**90%**
		Standard Deviation			**4.1**	**12**	**3%**

Notes

LE - Length from the bottom of the spoon to the PDA gage location.
FMX - Maximum Force Meaused at PDA gage locationn.
CSX - Maximum Average Compressive Stress at PDA gage location.
BPM - Hammer operation rate (blows/minute)
EMX - Computed, from $\int F v \, dt$, maximum energy transferred to PDA gage location.
ETR - Computed, from EMX/PE, maximum energy transfer efficiency

Appendix A

Results from SPT Dynamic Energy Measurements

Thompson Engineering SPT Rig Calibration

CMX 550X

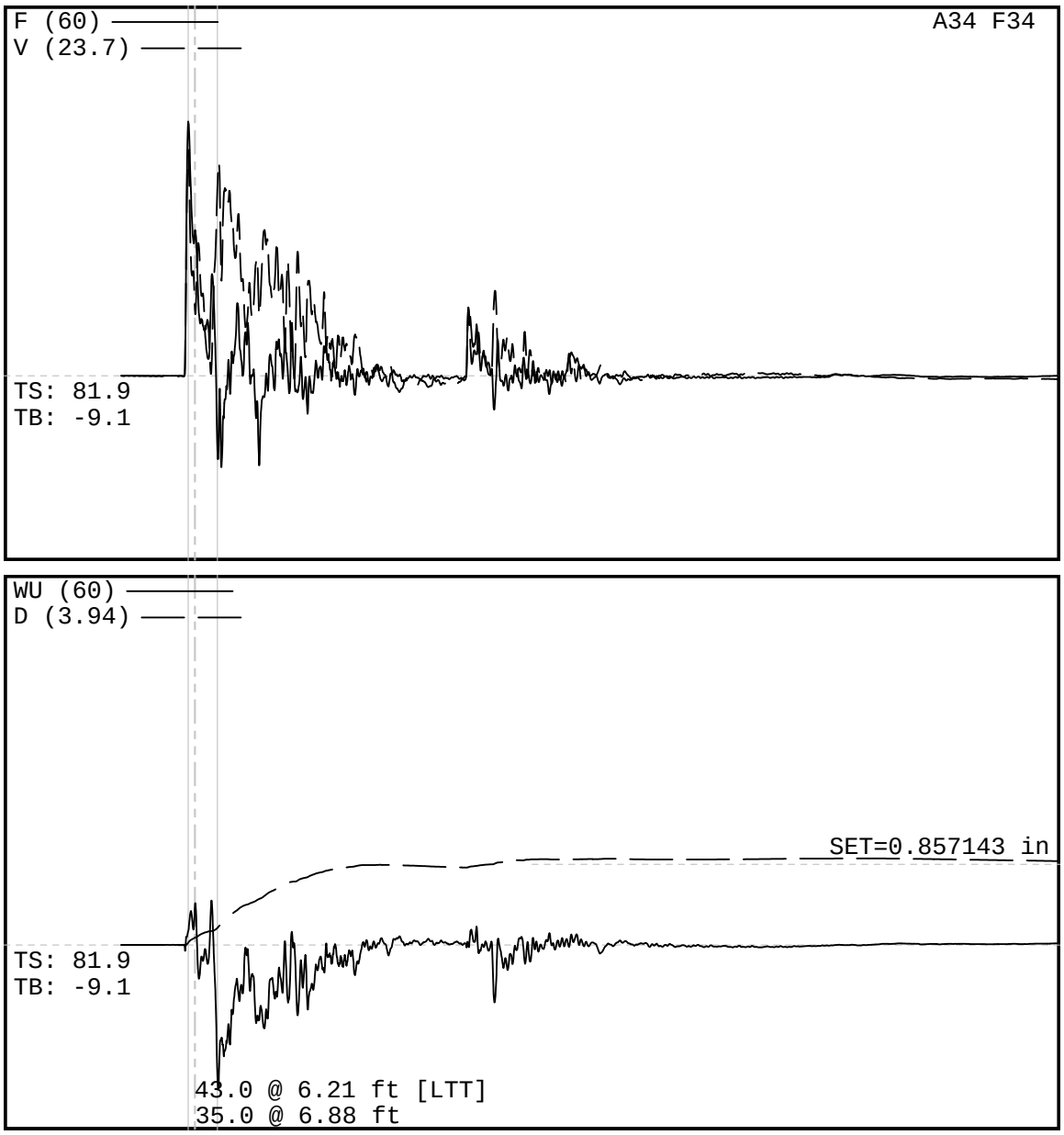
S/N 355273

(NWJ Rod –Mud Rotary)



Thompson Engineering's CME 550X (S/N 355273)

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 13.5 to 15.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 13.5 to 1
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)
9/11/2017 1:11:19 PM
Blow Number 7

Pile Properties

LE	19.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	2.26	ms
JC		[]
LP	14.29	ft

Quantity Results

CSX	29.03	ksi
CSI f	29.28	ksi
EMX	0.286	k-ft
ETR	81.7	(%)
BPM	43.7	bpm
FMX	41	kips
VMX	14.5	f/s
QNV	0.00	[]
QNV	0.00	[]

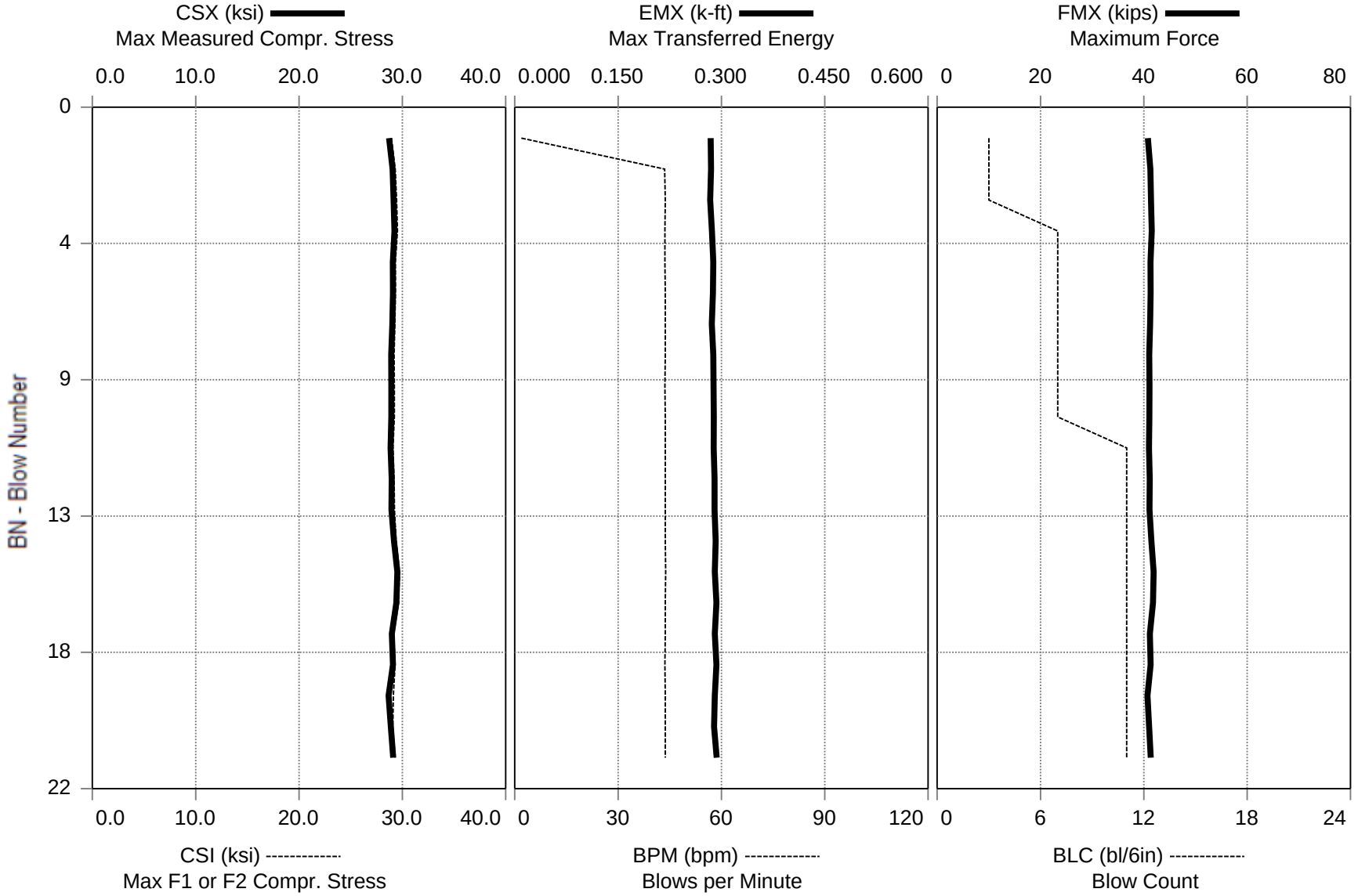
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 13.5 to 15.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 13.5 to 15.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR:	1.42 in²	SP:	0.492 k/ft³
LE:	19.00 ft	EM:	30,000 ksi
WS:	16,807.9 f/s	JC:	0.00 []

CSX: Max Measured Compr. Stress
CSI: Max F1 or F2 Compr. Stress
EMX: Max Transferred Energy
ETR: Energy Transfer Ratio
BPM: Blows per Minute
FMX: Maximum Force
VMX: Maximum Velocity

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
3	14.00	3	AV3	29.0	29.2	0.284	81.2	29.7	41	14.5
			MAX	29.2	29.4	0.285	81.4	43.7	41	14.8
10	14.50	7	AV7	29.0	29.3	0.288	82.2	43.7	41	14.5
			MAX	29.2	29.5	0.289	82.6	43.7	42	14.6
21	15.00	11	AV11	29.1	29.3	0.291	83.1	43.7	41	14.6
			MAX	29.5	29.7	0.293	83.7	43.8	42	14.7
			Average	29.0	29.3	0.289	82.5	41.7	41	14.6
			Maximum	29.5	29.7	0.293	83.7	43.8	42	14.8

Total number of blows analyzed: 21

BL# Sensors

1-21 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 27 seconds 1:11 PM - 1:11 PM BN 1 - 21

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 13.5 to 15.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 19.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
4	14.07	7	29.2	29.5	0.286	81.7	43.6	42	14.3
5	14.14	7	29.1	29.3	0.288	82.4	43.6	41	14.4
6	14.21	7	29.1	29.3	0.288	82.2	43.7	41	14.5
7	14.29	7	29.0	29.3	0.286	81.7	43.7	41	14.5
8	14.36	7	28.9	29.2	0.288	82.4	43.7	41	14.6
9	14.43	7	28.9	29.2	0.289	82.4	43.6	41	14.6
10	14.50	7	28.9	29.2	0.289	82.6	43.7	41	14.6
11	14.55	11	28.9	29.1	0.289	82.5	43.7	41	14.5
12	14.59	11	29.0	29.2	0.290	82.9	43.7	41	14.6
13	14.64	11	28.9	29.2	0.290	82.9	43.7	41	14.6
14	14.68	11	29.2	29.4	0.292	83.3	43.7	41	14.6
15	14.73	11	29.5	29.7	0.290	82.9	43.8	42	14.7
16	14.77	11	29.4	29.6	0.293	83.6	43.7	42	14.6
17	14.82	11	29.0	29.2	0.290	83.0	43.7	41	14.6
18	14.86	11	29.1	29.3	0.293	83.7	43.6	41	14.7
19	14.91	11	28.7	29.1	0.290	83.0	43.7	41	14.5
20	14.95	11	28.9	29.1	0.289	82.6	43.7	41	14.6
21	15.00	11	29.1	29.3	0.293	83.7	43.7	41	14.7
		Average	29.0	29.3	0.290	82.7	43.7	41	14.6
		Maximum	29.5	29.7	0.293	83.7	43.8	42	14.7

Total number of blows analyzed: 18

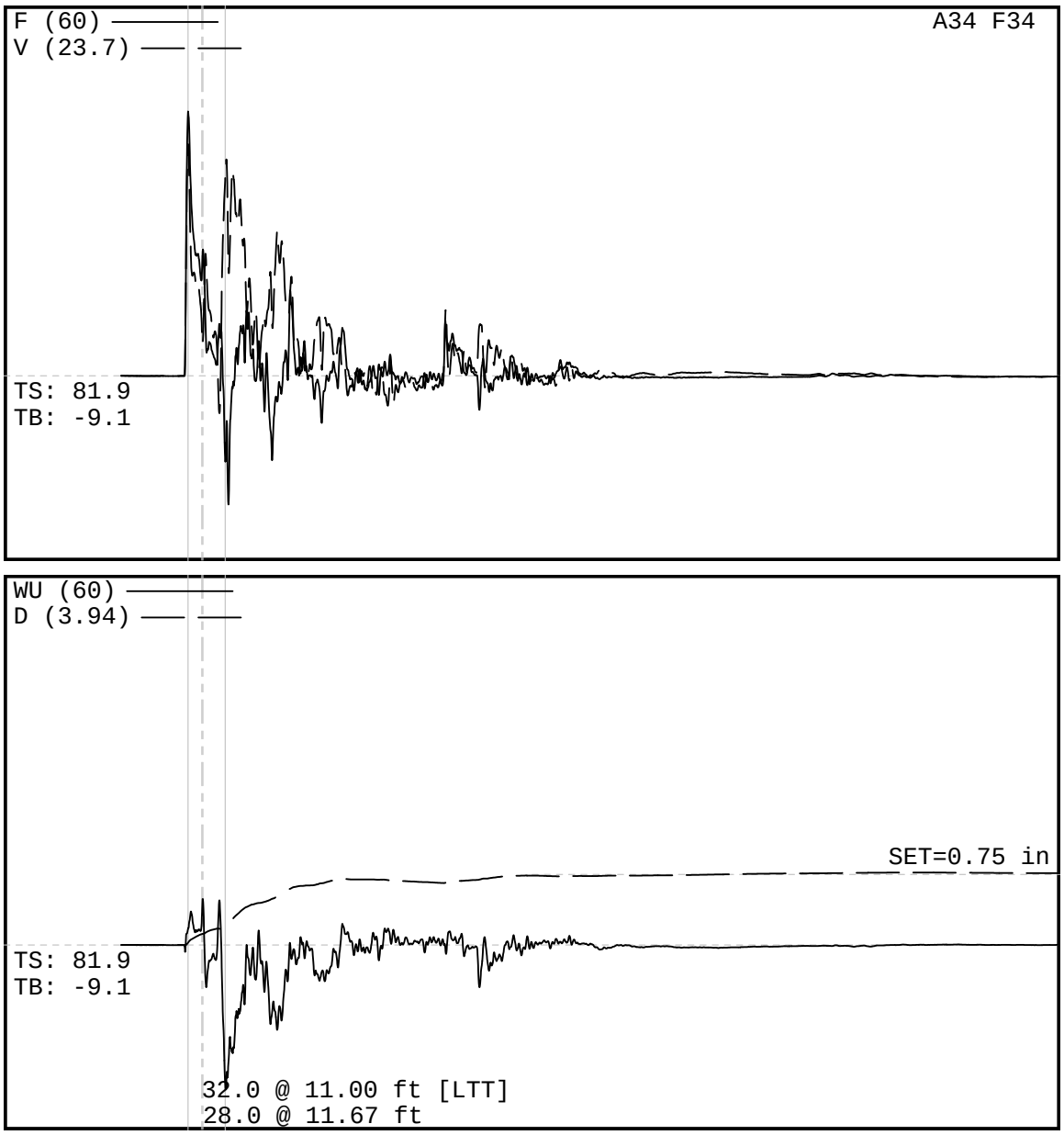
BL# Sensors

4-21 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 27 seconds 1:11 PM - 1:11 PM BN 1 - 21

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 18.5 to 20.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 18.5 to 2
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_1
9/11/2017 1:23:52 PM
Blow Number 8

Pile Properties

LE	24.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	2.88	ms
JC		[]
LP	19.69	ft

Quantity Results

CSX	30.17	ksi
CSI f	30.53	ksi
EMX	0.312	k-ft
ETR	89.0	(%)
BPM	54.1	bpm
FMX	43	kips
VMX	14.8	f/s
QNV	0.00	[]
QNV	0.00	[]

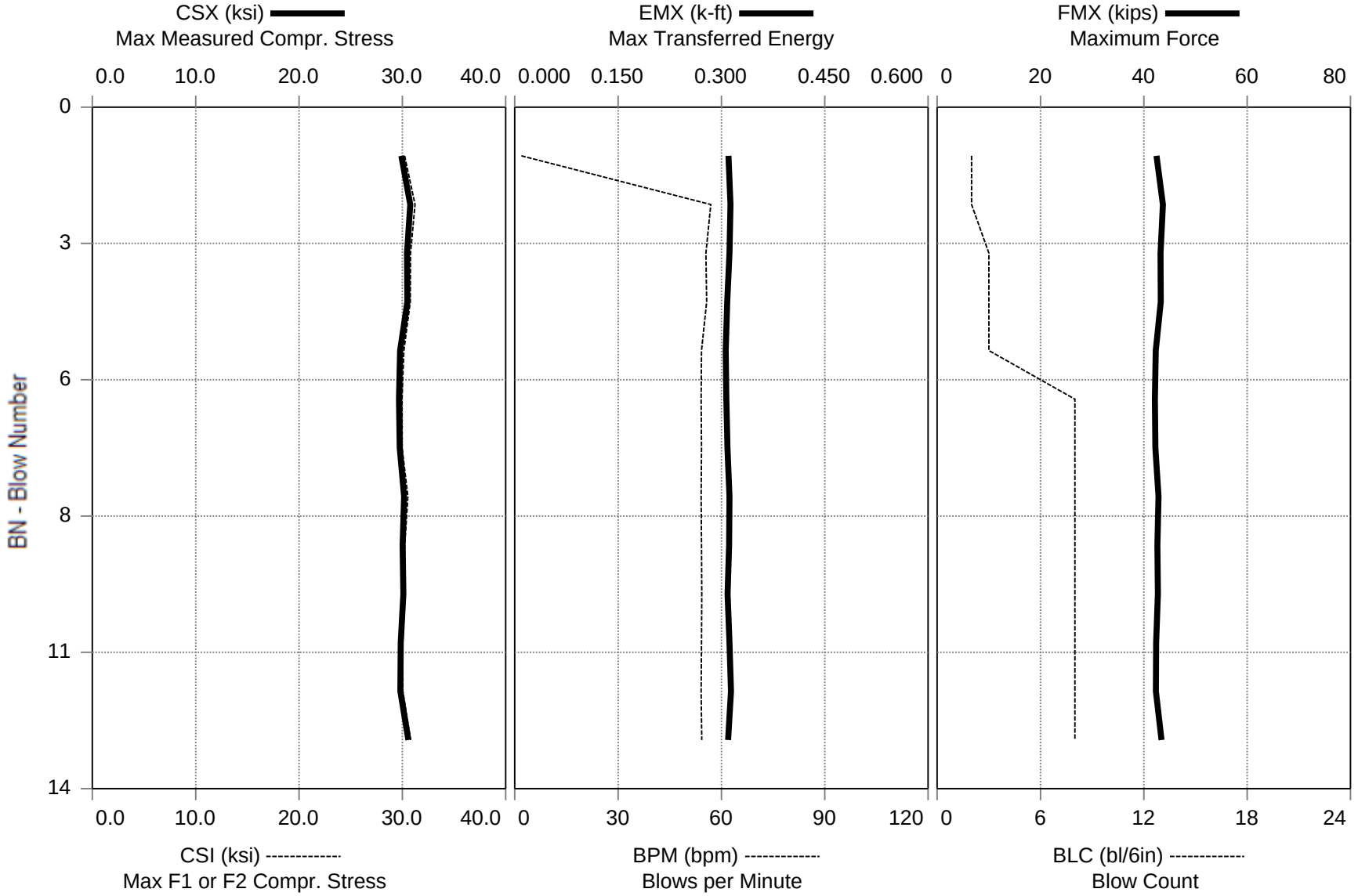
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 18.5 to 20.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 18.5 to 20.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 24.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
2	19.00	2	AV2	30.3	30.7	0.312	89.0	29.4	43	16.4
			MAX	30.8	31.2	0.313	89.4	56.9	44	16.4
5	19.50	3	AV3	30.2	30.6	0.309	88.2	55.1	43	15.8
			MAX	30.5	30.8	0.312	89.1	55.7	43	16.2
13	20.00	8	AV8	30.0	30.2	0.310	88.7	54.2	43	14.8
			MAX	30.6	30.8	0.314	89.6	54.3	43	15.0
			Average	30.1	30.4	0.310	88.6	50.6	43	15.3
			Maximum	30.8	31.2	0.314	89.6	56.9	44	16.4

Total number of blows analyzed: 13

BL# Sensors

1-13 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 13 seconds 1:23 PM - 1:23 PM BN 1 - 13

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 18.5 to 20.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 24.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
3	19.17	3	30.4	30.8	0.312	89.1	55.5	43	15.8
4	19.33	3	30.5	30.8	0.308	88.1	55.7	43	16.2
5	19.50	3	29.8	30.1	0.306	87.5	54.2	42	15.5
6	19.56	8	29.7	30.0	0.307	87.8	54.1	42	14.9
7	19.63	8	29.7	30.0	0.309	88.2	54.2	42	14.6
8	19.69	8	30.2	30.5	0.312	89.0	54.1	43	14.8
9	19.75	8	30.0	30.2	0.311	88.9	54.2	43	14.8
10	19.81	8	30.1	30.2	0.309	88.3	54.3	43	14.8
11	19.88	8	29.8	30.0	0.312	89.0	54.2	42	14.8
12	19.94	8	29.8	30.0	0.314	89.6	54.1	42	14.9
13	20.00	8	30.6	30.8	0.310	88.5	54.3	43	15.0
		Average	30.1	30.3	0.310	88.5	54.4	43	15.1
		Maximum	30.6	30.8	0.314	89.6	55.7	43	16.2

Total number of blows analyzed: 11

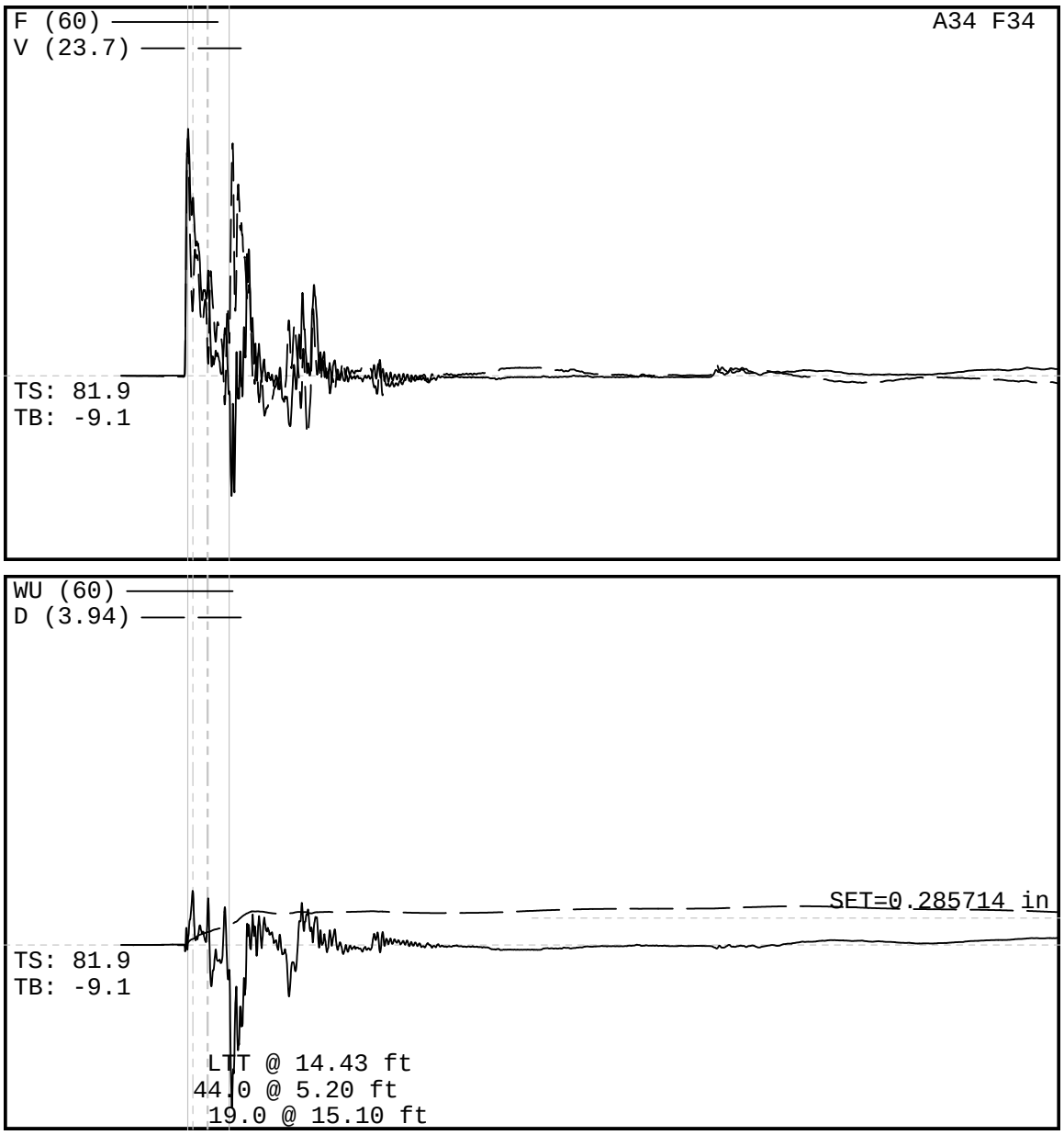
BL# Sensors

3-13 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 13 seconds 1:23 PM - 1:23 PM BN 1 - 13

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 21.0 to 22.5 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 21.0 to 2
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_2
9/11/2017 1:35:14 PM
Blow Number 37

Pile Properties

LE	27.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	3.22	ms
JC		[]
LP	22.02	ft

Quantity Results

CSX	28.20	ksi
CSI f	28.81	ksi
EMX	0.314	k-ft
ETR	89.6	(%)
BPM	56.4	bpm
FMX	40	kips
VMX	15.2	f/s
QNV	0.00	[]
QNV	0.00	[]

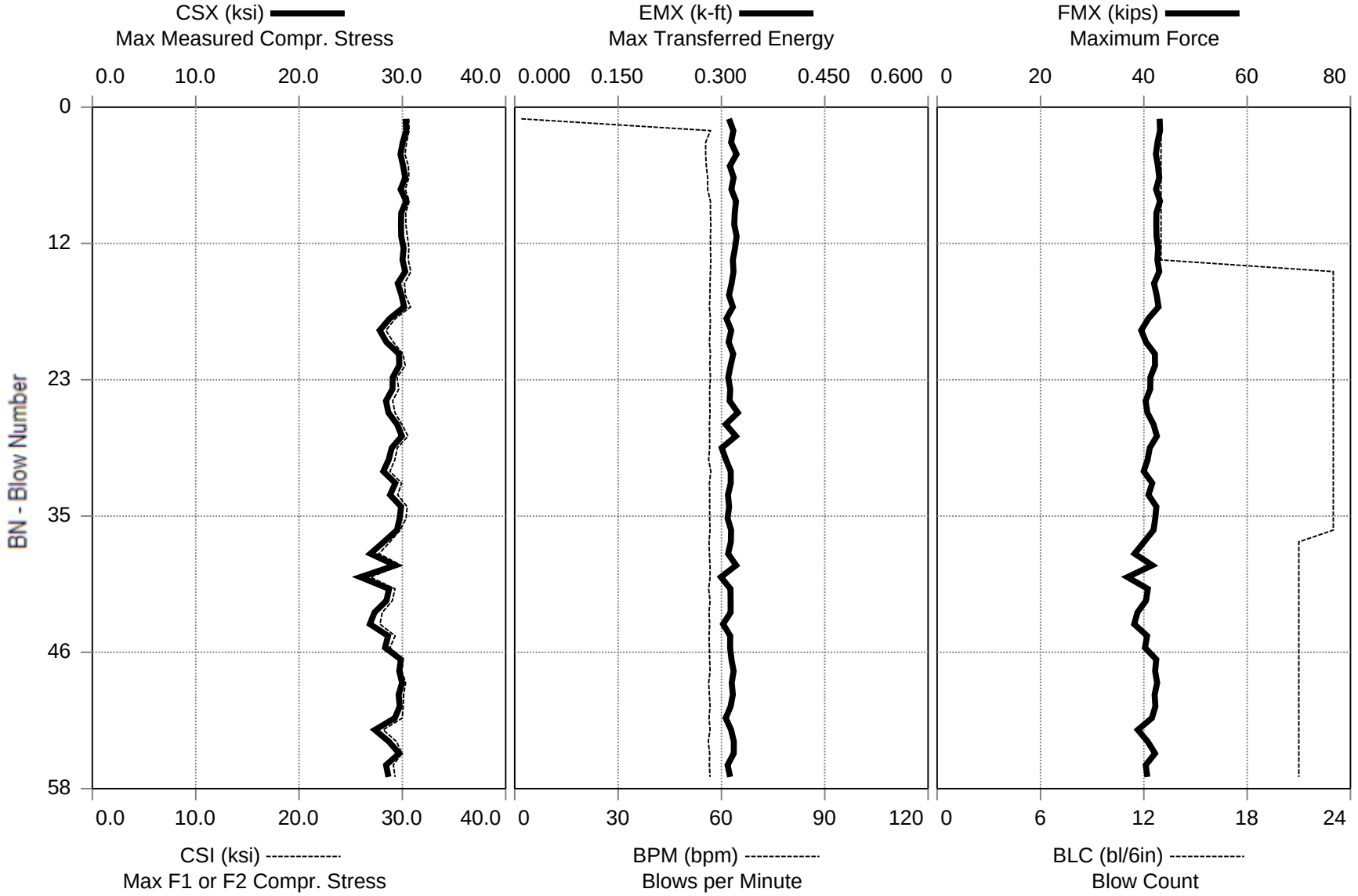
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 21.0 to 22.5 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 21.0 to 22.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 27.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
13	21.50	13	AV13	30.1	30.5	0.317	90.7	52.2	43	15.0
			MAX	30.4	30.7	0.322	92.0	56.9	43	15.2
36	22.00	23	AV23	29.2	29.8	0.312	89.3	56.6	41	15.0
			MAX	30.3	30.8	0.324	92.5	56.9	43	15.5
57	22.50	21	AV21	28.6	29.1	0.313	89.3	56.5	41	15.6
			MAX	30.0	30.3	0.321	91.8	56.7	43	16.2
			Average	29.2	29.7	0.314	89.6	55.6	41	15.2
			Maximum	30.4	30.8	0.324	92.5	56.9	43	16.2

Total number of blows analyzed: 57

BL# Sensors

1-57 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 59 seconds 1:34 PM - 1:35 PM BN 1 - 57

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 21.0 to 22.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 27.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress
CSI: Max F1 or F2 Compr. Stress
EMX: Max Transferred Energy
ETR: Energy Transfer Ratio
BPM: Blows per Minute
FMX: Maximum Force
VMX: Maximum Velocity

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
14	21.52	23	30.3	30.8	0.317	90.7	56.8	43	15.3
15	21.54	23	29.6	30.2	0.315	89.9	56.7	42	15.0
16	21.57	23	29.9	30.3	0.311	88.8	56.7	42	15.2
17	21.59	23	30.2	30.8	0.317	90.5	56.5	43	14.9
18	21.61	23	28.8	29.3	0.307	87.8	56.8	41	15.2
19	21.63	23	27.8	28.4	0.314	89.8	56.7	39	15.4
20	21.65	23	28.5	29.1	0.310	88.7	56.5	40	15.2
21	21.67	23	29.7	30.0	0.317	90.6	56.8	42	14.9
22	21.70	23	29.7	30.3	0.313	89.5	56.6	42	14.8
23	21.72	23	29.1	29.5	0.310	88.5	56.8	41	15.1
25	21.76	23	28.4	29.1	0.312	89.1	56.6	40	15.3
27	21.80	23	29.5	30.0	0.306	87.5	56.5	42	15.2
29	21.85	23	29.0	29.5	0.300	85.8	56.6	41	14.5
31	21.89	23	28.2	28.8	0.314	89.6	56.9	40	15.1
33	21.93	23	28.8	29.6	0.309	88.4	56.6	41	15.0
35	21.98	23	29.7	30.4	0.309	88.3	56.6	42	14.4
37	22.02	21	28.2	28.8	0.314	89.6	56.4	40	15.2
39	22.07	21	29.3	29.9	0.321	91.8	56.7	42	15.2
41	22.12	21	28.7	29.3	0.313	89.5	56.3	41	15.2
43	22.17	21	27.3	28.1	0.313	89.5	56.4	39	15.6
45	22.21	21	28.6	29.3	0.313	89.4	56.4	41	15.5
47	22.26	21	29.9	30.1	0.315	89.9	56.6	42	15.3
49	22.31	21	30.0	30.3	0.315	90.0	56.3	43	15.2
51	22.36	21	29.7	30.1	0.313	89.5	56.7	42	15.6
53	22.40	21	27.3	28.1	0.314	89.7	56.7	39	16.2
55	22.45	21	29.7	29.9	0.318	90.8	56.6	42	15.8
57	22.50	21	28.7	29.3	0.313	89.3	56.7	41	15.9
		Average	28.9	29.5	0.313	89.3	56.6	41	15.3
		Maximum	30.3	30.8	0.324	92.5	56.9	43	16.2

Total number of blows analyzed: 44

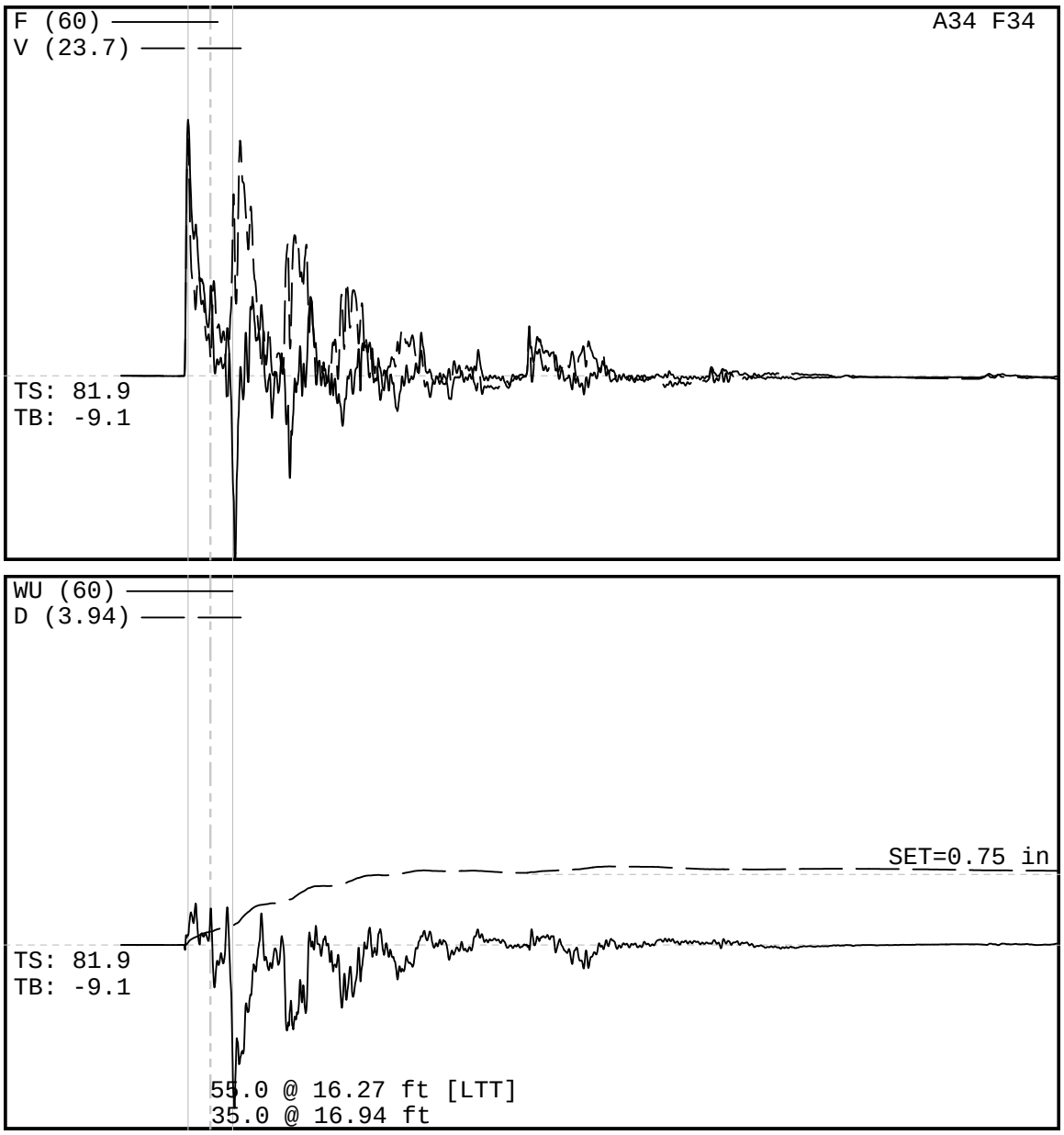
BL# Sensors

14-57 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 59 seconds 1:34 PM - 1:35 PM BN 1 - 57

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 23.5 to 25.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 23.5 to 2
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_3
9/11/2017 1:45:51 PM
Blow Number 10

Pile Properties

LE	29.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	3.46	ms
JC		[]
LP	24.13	ft

Quantity Results

CSX	29.23	ksi
CSI f	29.76	ksi
EMX	0.314	k-ft
ETR	89.7	(%)
BPM	50.5	bpm
FMX	42	kips
VMX	15.2	f/s
QNV	0.00	[]
QNV	0.00	[]

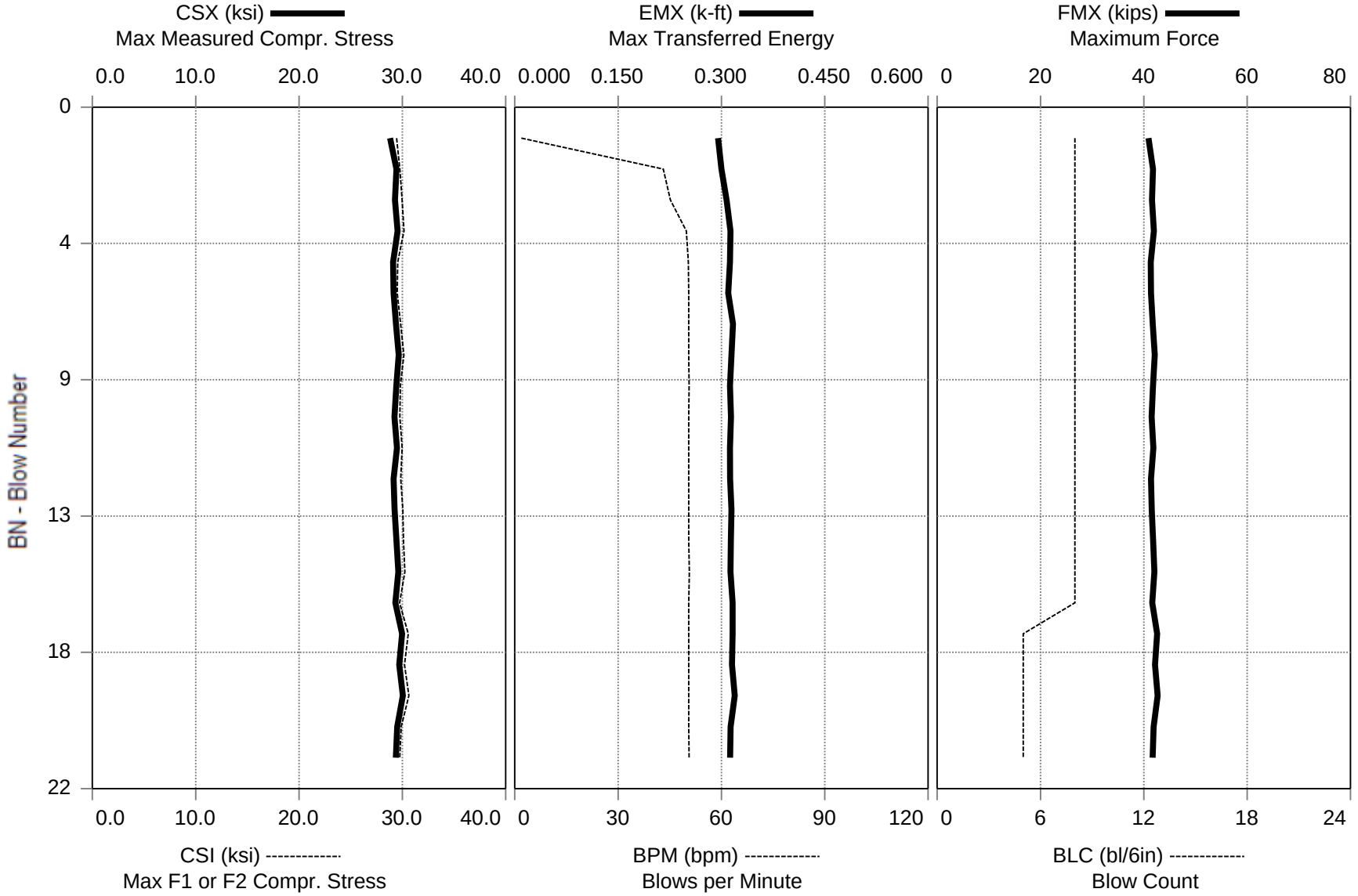
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 23.5 to 25.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 23.5 to 25.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 29.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	24.00	8	AV8	29.3	29.8	0.309	88.2	42.7	42	15.4
			MAX	29.6	30.2	0.317	90.5	50.5	42	16.1
16	24.50	8	AV8	29.4	29.9	0.314	89.6	50.5	42	15.2
			MAX	29.6	30.2	0.316	90.4	50.7	42	15.4
21	25.00	5	AV5	29.7	30.2	0.315	90.1	50.5	42	16.3
			MAX	30.0	30.6	0.319	91.2	50.6	43	17.1
			Average	29.4	29.9	0.312	89.2	47.6	42	15.6
			Maximum	30.0	30.6	0.319	91.2	50.7	43	17.1

Total number of blows analyzed: 21

BL# Sensors

1-21 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 24 seconds 1:45 PM - 1:46 PM BN 1 - 21

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 23.5 to 25.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 29.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	24.06	8	29.4	29.8	0.312	89.3	50.6	42	15.1
10	24.13	8	29.2	29.8	0.314	89.7	50.5	42	15.2
11	24.19	8	29.5	30.0	0.312	89.2	50.5	42	15.2
12	24.25	8	29.1	29.8	0.313	89.3	50.5	41	15.1
13	24.31	8	29.2	30.0	0.315	89.9	50.5	42	15.3
14	24.38	8	29.4	30.1	0.314	89.6	50.5	42	15.2
15	24.44	8	29.6	30.2	0.313	89.5	50.7	42	15.4
16	24.50	8	29.3	29.7	0.316	90.4	50.5	42	15.2
17	24.60	5	30.0	30.6	0.316	90.4	50.5	43	15.5
18	24.70	5	29.7	30.2	0.315	90.1	50.5	42	15.9
19	24.80	5	30.0	30.6	0.319	91.2	50.5	43	16.3
20	24.90	5	29.5	29.9	0.313	89.5	50.5	42	17.1
21	25.00	5	29.4	29.7	0.313	89.3	50.6	42	16.9
		Average	29.5	30.0	0.314	89.8	50.5	42	15.6
		Maximum	30.0	30.6	0.319	91.2	50.7	43	17.1

Total number of blows analyzed: 13

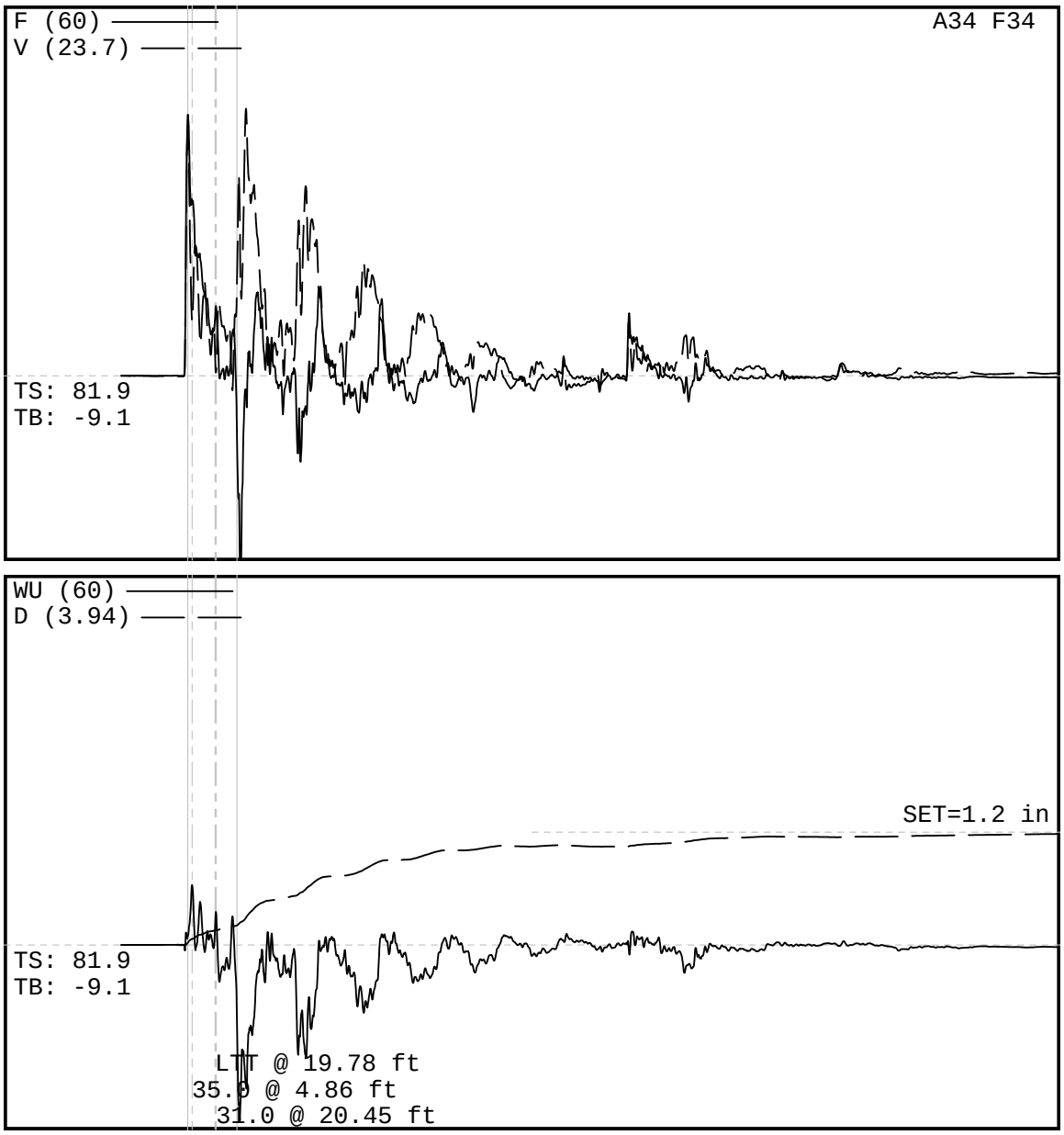
BL# Sensors

9-21 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 24 seconds 1:45 PM - 1:46 PM BN 1 - 21

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 26.0 to 27.5 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 26.0 to 2
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_4
9/11/2017 1:53:32 PM
Blow Number 8

Pile Properties

LE	32.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	3.82	ms
JC		[]
LP	26.60	ft

Quantity Results

CSX	29.81	ksi
CSI f	30.00	ksi
EMX	0.326	k-ft
ETR	93.2	(%)
BPM	55.6	bpm
FMX	42	kips
VMX	17.1	f/s
QNV	0.00	[]
QNV	0.00	[]

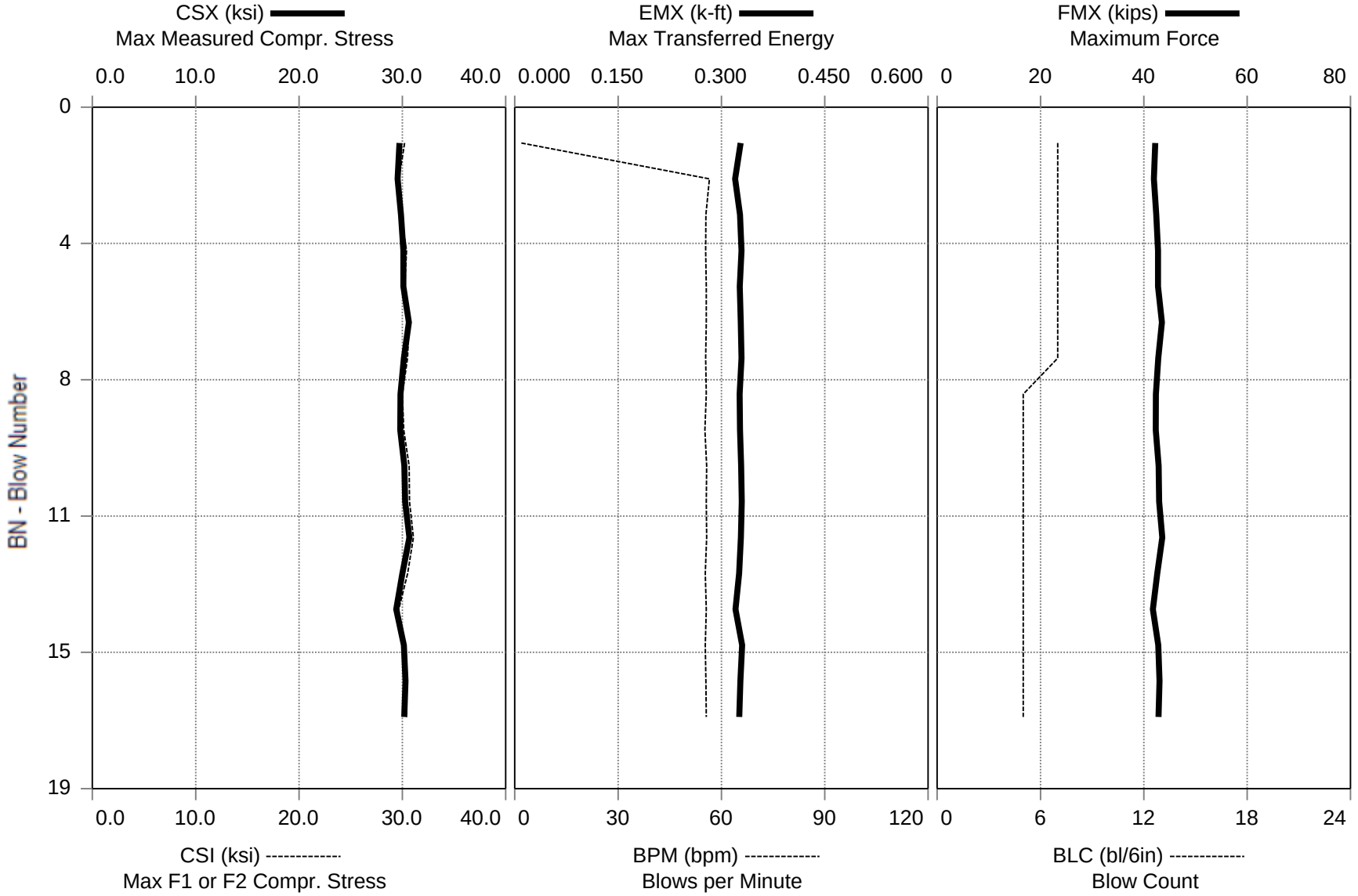
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 26.0 to 27.5 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 26.0 to 27.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 32.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress
CSI: Max F1 or F2 Compr. Stress
EMX: Max Transferred Energy
ETR: Energy Transfer Ratio
BPM: Blows per Minute
FMX: Maximum Force
VMX: Maximum Velocity

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
7	26.50	7	AV7	30.0	30.2	0.327	93.4	48.0	43	17.3
			MAX	30.6	30.7	0.329	94.0	56.5	44	18.2
12	27.00	5	AV5	30.1	30.5	0.328	93.7	55.6	43	17.8
			MAX	30.7	31.1	0.330	94.2	55.7	44	18.4
17	27.50	5	AV5	30.0	30.2	0.326	93.1	55.5	43	17.9
			MAX	30.3	30.5	0.330	94.3	55.6	43	18.1
			Average	30.0	30.3	0.327	93.4	52.4	43	17.6
			Maximum	30.7	31.1	0.330	94.3	56.5	44	18.4

Total number of blows analyzed: 17

BL# Sensors

1-17 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 18 seconds 1:53 PM - 1:53 PM BN 1 - 18

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 26.0 to 27.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 32.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	26.60	5	29.8	30.0	0.326	93.2	55.6	42	17.1
9	26.70	5	29.8	30.1	0.327	93.4	55.2	42	17.7
10	26.80	5	30.2	30.7	0.329	93.9	55.7	43	17.8
11	26.90	5	30.3	30.7	0.330	94.2	55.6	43	18.4
12	27.00	5	30.7	31.1	0.328	93.8	55.7	44	18.1
13	27.10	5	30.0	30.5	0.326	93.1	55.3	43	18.1
14	27.20	5	29.4	29.7	0.320	91.5	55.6	42	18.1
15	27.30	5	30.1	30.2	0.330	94.3	55.3	43	18.0
16	27.40	5	30.3	30.4	0.327	93.6	55.5	43	17.6
17	27.50	5	30.2	30.4	0.326	93.1	55.6	43	17.8
		Average	30.1	30.4	0.327	93.4	55.5	43	17.9
		Maximum	30.7	31.1	0.330	94.3	55.7	44	18.4

Total number of blows analyzed: 10

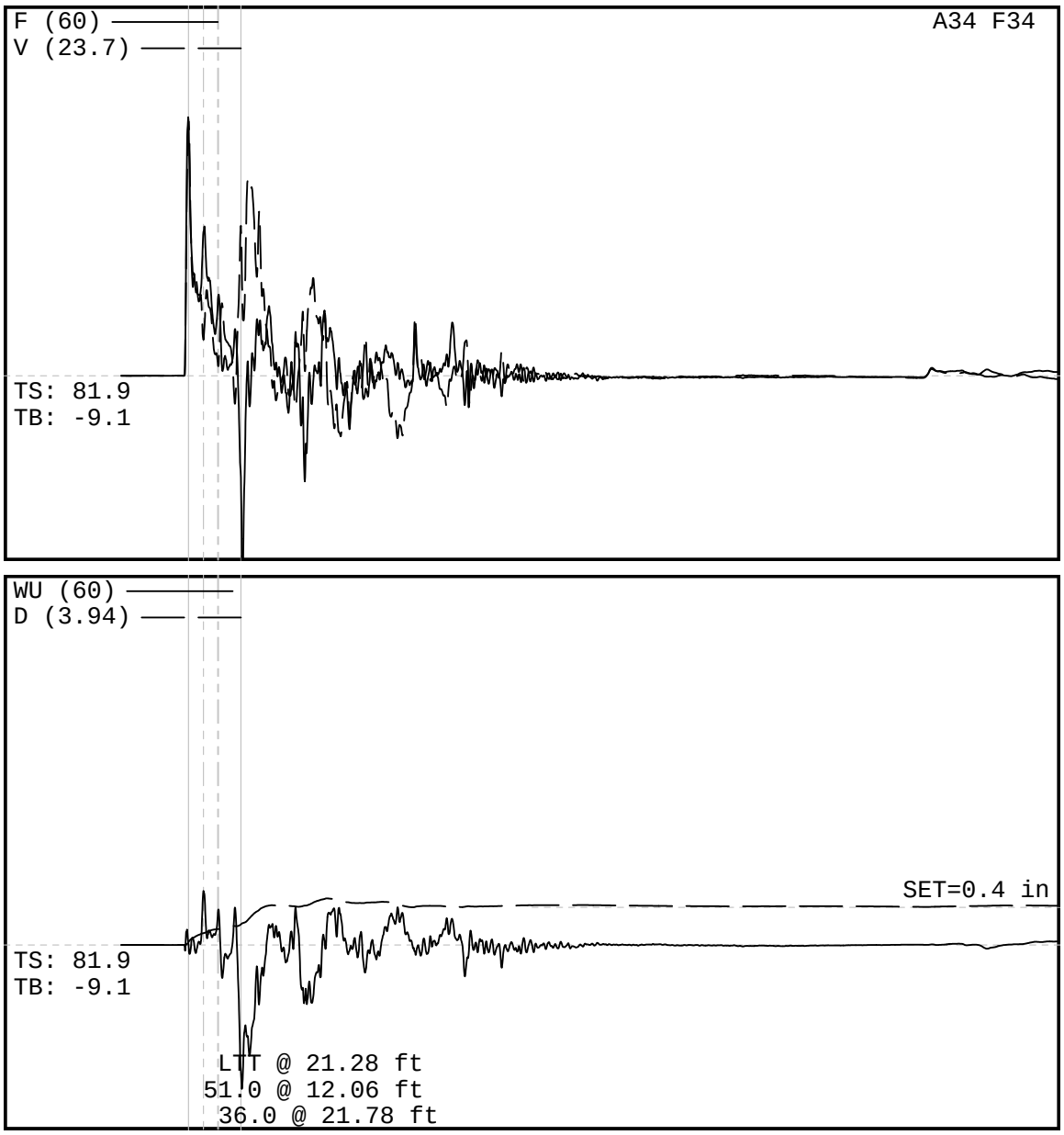
BL# Sensors

8-17 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 18 seconds 1:53 PM - 1:53 PM BN 1 - 18

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 28.5 to 30.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 28.5 to 3
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_5
9/11/2017 2:03:38 PM
Blow Number 18

Pile Properties

LE	34.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	4.06	ms
JC		[]
LP	29.63	ft

Quantity Results

CSX	29.53	ksi
CSI f	29.80	ksi
EMX	0.325	k-ft
ETR	92.9	(%)
BPM	50.5	bpm
FMX	42	kips
VMX	16.3	f/s
QNV	0.00	[]
QNV	0.00	[]

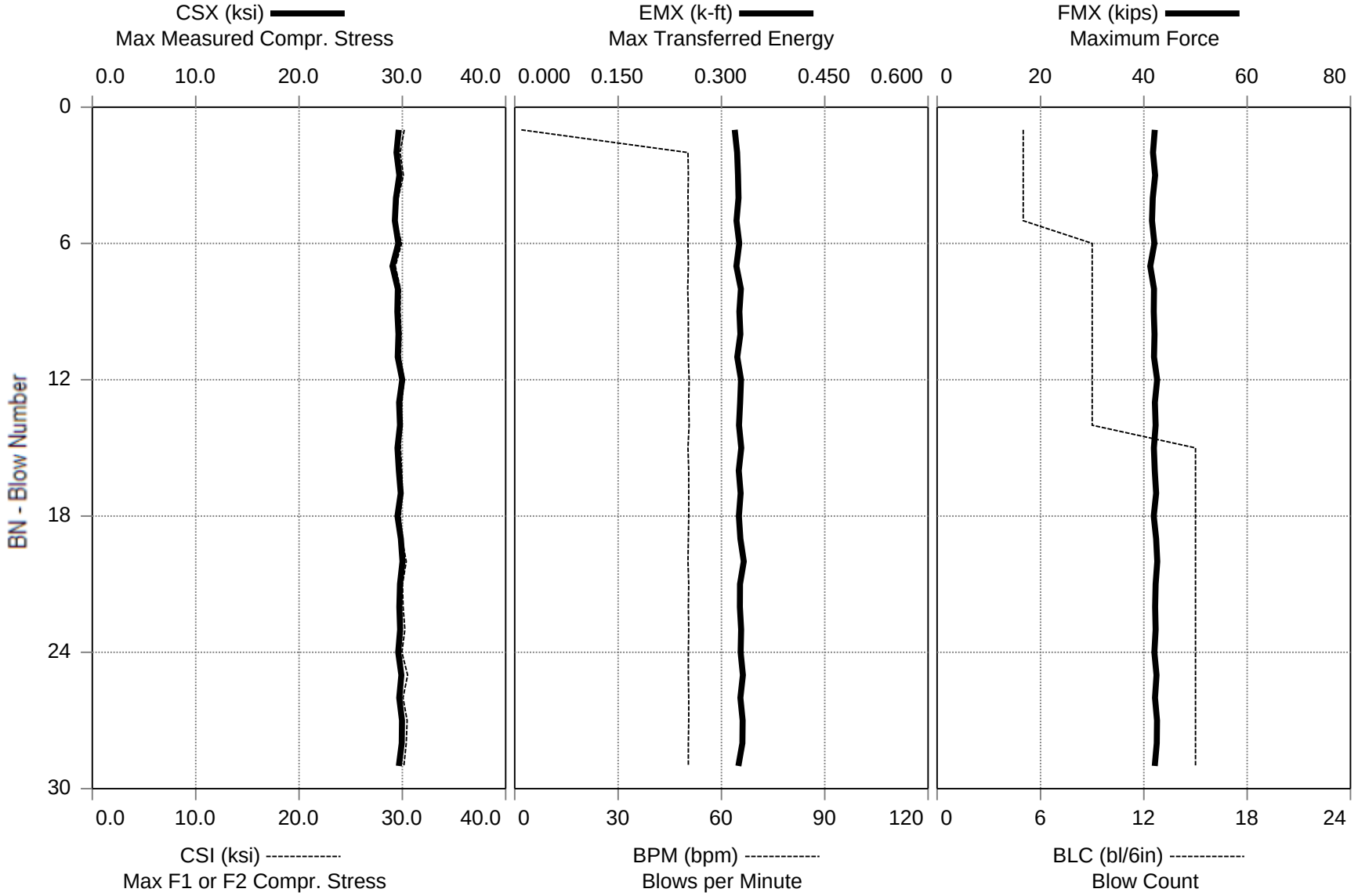
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 28.5 to 30.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 28.5 to 30.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 34.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress
CSI: Max F1 or F2 Compr. Stress
EMX: Max Transferred Energy
ETR: Energy Transfer Ratio
BPM: Blows per Minute
FMX: Maximum Force
VMX: Maximum Velocity

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
5	29.00	5	AV5	29.5	29.8	0.323	92.2	40.7	42	16.2
			MAX	29.7	30.2	0.325	92.8	50.4	42	16.3
14	29.50	9	AV9	29.6	29.8	0.326	93.1	50.4	42	16.3
			MAX	30.0	30.2	0.328	93.9	50.6	43	16.5
29	30.00	15	AV15	29.8	30.1	0.328	93.7	50.4	42	16.4
			MAX	30.0	30.5	0.332	95.0	50.5	43	16.6
			Average	29.7	30.0	0.326	93.3	48.7	42	16.4
			Maximum	30.0	30.5	0.332	95.0	50.6	43	16.6

Total number of blows analyzed: 29

BL# Sensors

1-29 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 33 seconds 2:03 PM - 2:03 PM BN 1 - 29

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 28.5 to 30.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 34.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	29.06	9	29.6	29.9	0.326	93.1	50.3	42	16.3
7	29.11	9	29.0	29.3	0.322	91.9	50.4	41	16.1
8	29.17	9	29.6	29.8	0.328	93.8	50.2	42	16.4
9	29.22	9	29.5	29.8	0.326	93.2	50.4	42	16.3
10	29.28	9	29.6	29.9	0.327	93.6	50.4	42	16.3
11	29.33	9	29.5	29.8	0.323	92.3	50.4	42	16.3
12	29.39	9	30.0	30.2	0.328	93.9	50.6	43	16.5
13	29.44	9	29.7	30.0	0.327	93.5	50.5	42	16.3
14	29.50	9	29.8	29.8	0.326	93.0	50.6	42	16.3
15	29.53	15	29.5	29.8	0.329	94.0	50.3	42	16.3
16	29.57	15	29.7	29.9	0.325	92.9	50.5	42	16.3
17	29.60	15	29.8	30.0	0.328	93.7	50.5	42	16.4
18	29.63	15	29.5	29.8	0.325	92.9	50.5	42	16.3
19	29.67	15	29.8	30.0	0.327	93.5	50.4	42	16.4
20	29.70	15	30.0	30.4	0.332	95.0	50.3	43	16.6
21	29.73	15	29.8	30.0	0.327	93.4	50.5	42	16.4
22	29.77	15	29.7	30.1	0.327	93.4	50.4	42	16.4
23	29.80	15	29.8	30.2	0.329	93.9	50.5	42	16.5
24	29.83	15	29.6	29.9	0.328	93.7	50.4	42	16.3
25	29.87	15	29.9	30.5	0.331	94.6	50.4	42	16.6
26	29.90	15	29.7	30.1	0.327	93.6	50.5	42	16.4
27	29.93	15	30.0	30.5	0.331	94.5	50.5	43	16.6
28	29.97	15	29.9	30.4	0.330	94.4	50.4	43	16.6
29	30.00	15	29.7	30.1	0.325	92.7	50.4	42	16.4
		Average	29.7	30.0	0.327	93.5	50.4	42	16.4
		Maximum	30.0	30.5	0.332	95.0	50.6	43	16.6

Total number of blows analyzed: 24

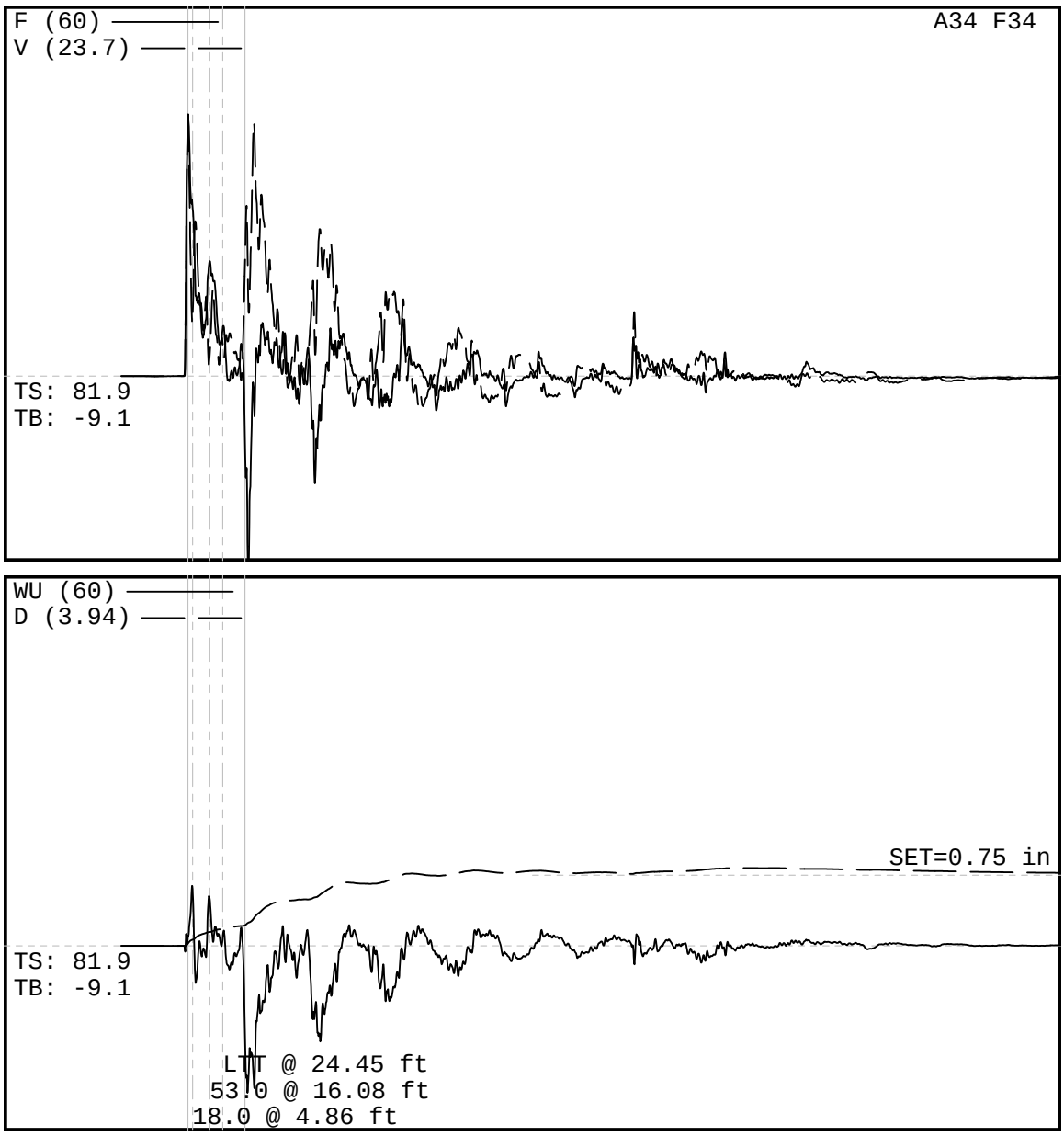
BL# Sensors

6-29 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 33 seconds 2:03 PM - 2:03 PM BN 1 - 29

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 31.0 to 32.5 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 31.0 to 3
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_6
9/11/2017 2:13:12 PM
Blow Number 12

Pile Properties

LE	37.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	4.42	ms
JC		[]
LP	32.13	ft

Quantity Results

CSX	29.87	ksi
CSI f	30.48	ksi
EMX	0.322	k-ft
ETR	91.9	(%)
BPM	50.4	bpm
FMX	42	kips
VMX	16.2	f/s
QNV	0.00	[]
QNV	0.00	[]

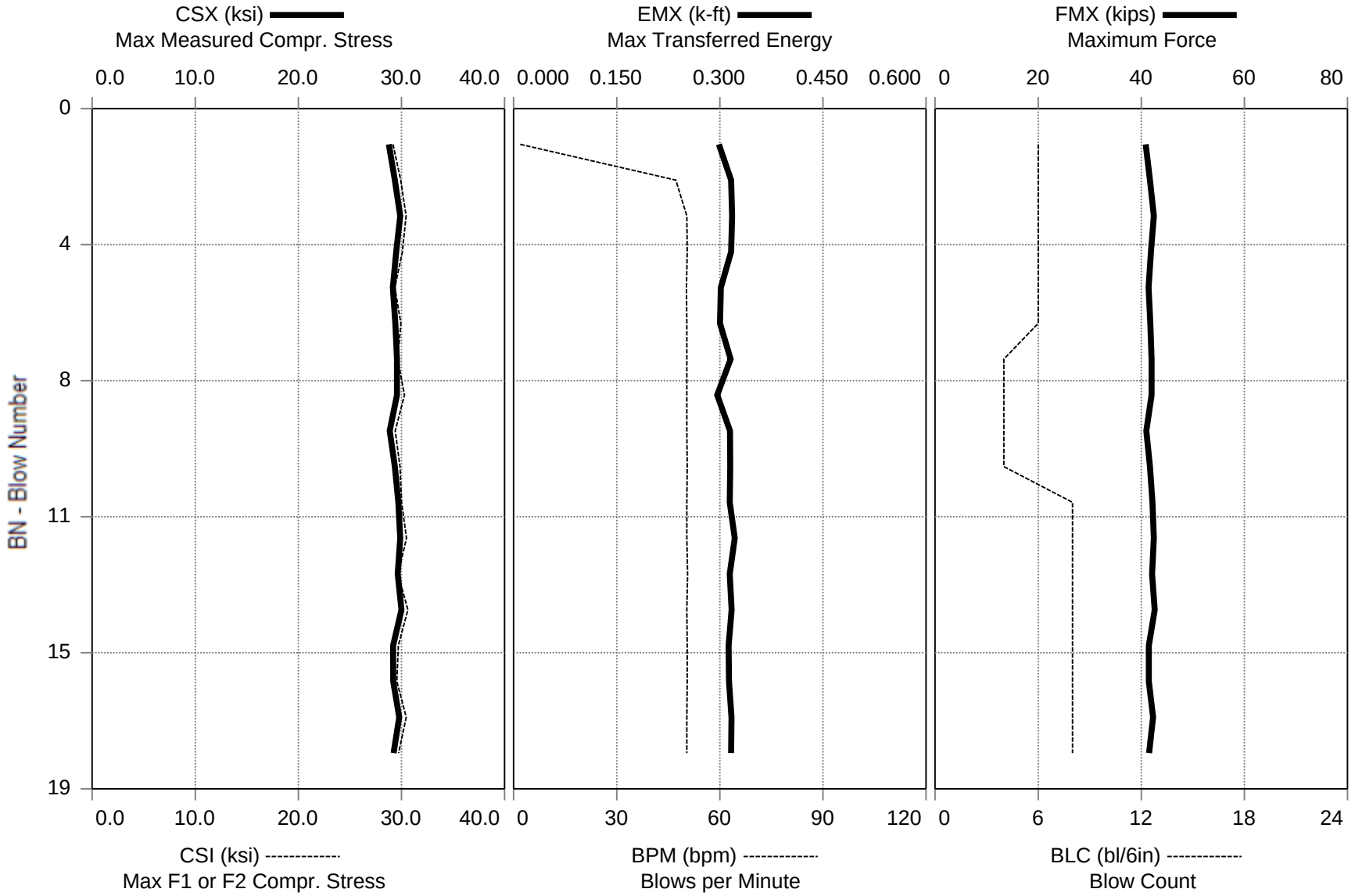
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 31.0 to 32.5 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 31.0 to 32.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 37.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	31.50	6	AV6	29.3	29.8	0.308	88.1	41.8	42	15.2
			MAX	29.9	30.4	0.318	90.8	50.5	42	15.5
10	32.00	4	AV4	29.3	29.8	0.310	88.7	50.4	42	16.0
			MAX	29.6	30.3	0.316	90.2	50.5	42	16.4
18	32.50	8	AV8	29.6	30.0	0.316	90.3	50.5	42	15.6
			MAX	30.0	30.6	0.322	91.9	50.6	43	16.2
			Average	29.4	29.9	0.312	89.2	47.6	42	15.5
			Maximum	30.0	30.6	0.322	91.9	50.6	43	16.4

Total number of blows analyzed: 18

BL# Sensors

1-18 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 20 seconds 2:12 PM - 2:13 PM BN 1 - 18

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 31.0 to 32.5 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 37.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
7	31.63	4	29.6	29.6	0.316	90.2	50.4	42	16.1
8	31.75	4	29.6	30.3	0.296	84.6	50.4	42	15.8
9	31.88	4	28.9	29.4	0.315	89.9	50.4	41	15.5
10	32.00	4	29.4	29.9	0.315	90.0	50.5	42	16.4
11	32.06	8	29.7	30.0	0.314	89.8	50.4	42	15.4
12	32.13	8	29.9	30.5	0.322	91.9	50.4	42	16.2
13	32.19	8	29.6	29.7	0.314	89.8	50.6	42	15.9
14	32.25	8	30.0	30.6	0.317	90.6	50.4	43	15.9
15	32.31	8	29.2	29.7	0.313	89.3	50.5	41	15.2
16	32.38	8	29.2	29.6	0.313	89.5	50.5	41	15.3
17	32.44	8	29.8	30.5	0.317	90.6	50.4	42	15.6
18	32.50	8	29.2	29.7	0.316	90.4	50.4	42	15.2
		Average	29.5	29.9	0.314	89.7	50.4	42	15.7
		Maximum	30.0	30.6	0.322	91.9	50.6	43	16.4

Total number of blows analyzed: 12

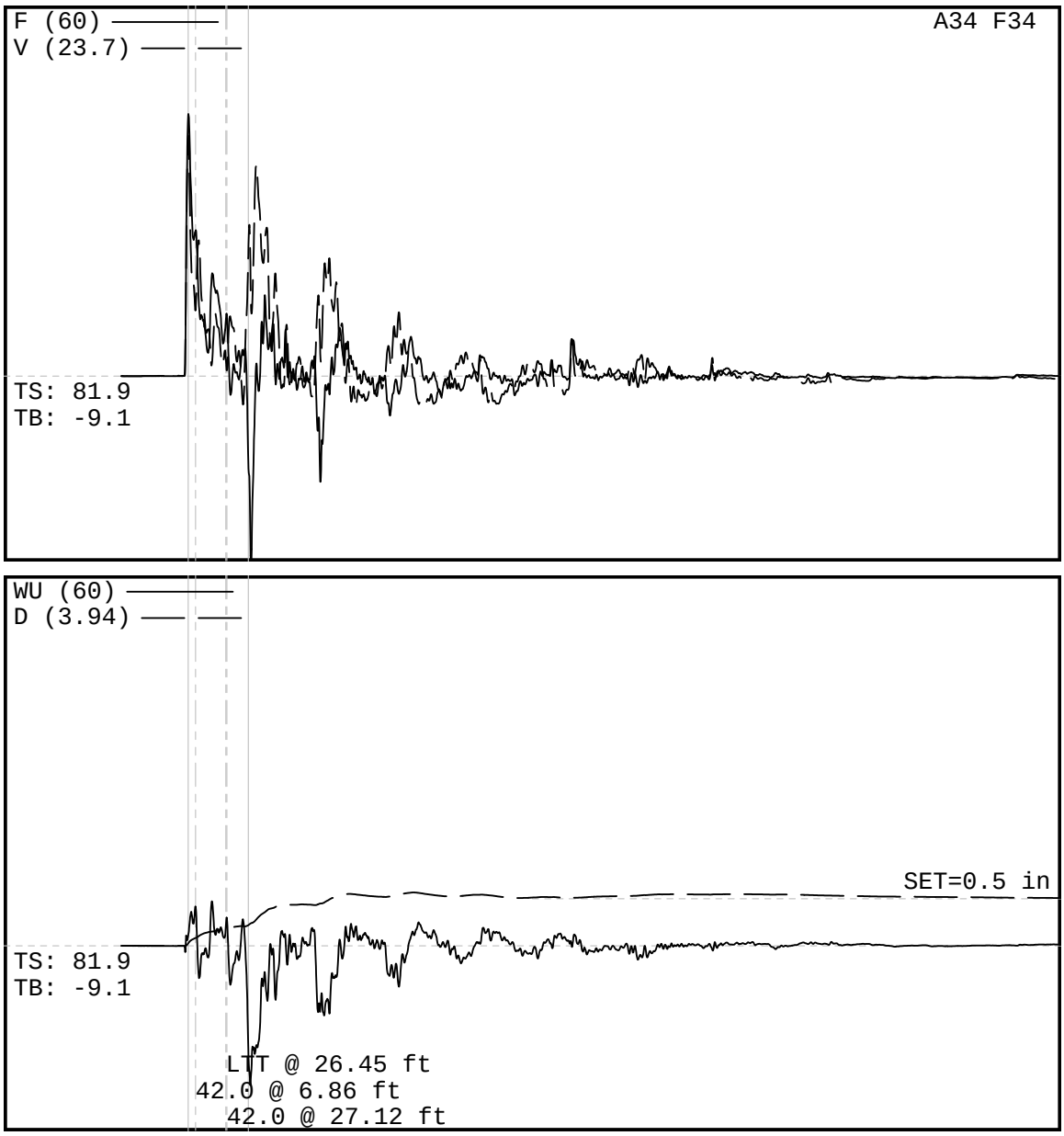
BL# Sensors

7-18 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 20 seconds 2:12 PM - 2:13 PM BN 1 - 18

Thompson Engineering SPT Calibration CME 550X (SN 355273) - 33.5 to 35.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 355273) - 33.5 to 3
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MJN
FILE: CME 550X (SN 355273)_7
9/11/2017 2:22:47 PM
Blow Number 22

Pile Properties

LE	39.00 ft
AR	1.42 in^2
EM	30000 ksi
SP	0.492 k/ft3
WS	16807.9 f/s
EA/C	2.5 ksec/ft
2L/C	4.66 ms
JC	[]
LP	34.54 ft

Quantity Results

CSX	29.91 ksi
CSI f	30.50 ksi
EMX	0.320 k-ft
ETR	91.3 (%)
BPM	50.6 bpm
FMX	42 kips
VMX	15.4 f/s
QNV	0.00 []
QNV	0.00 []

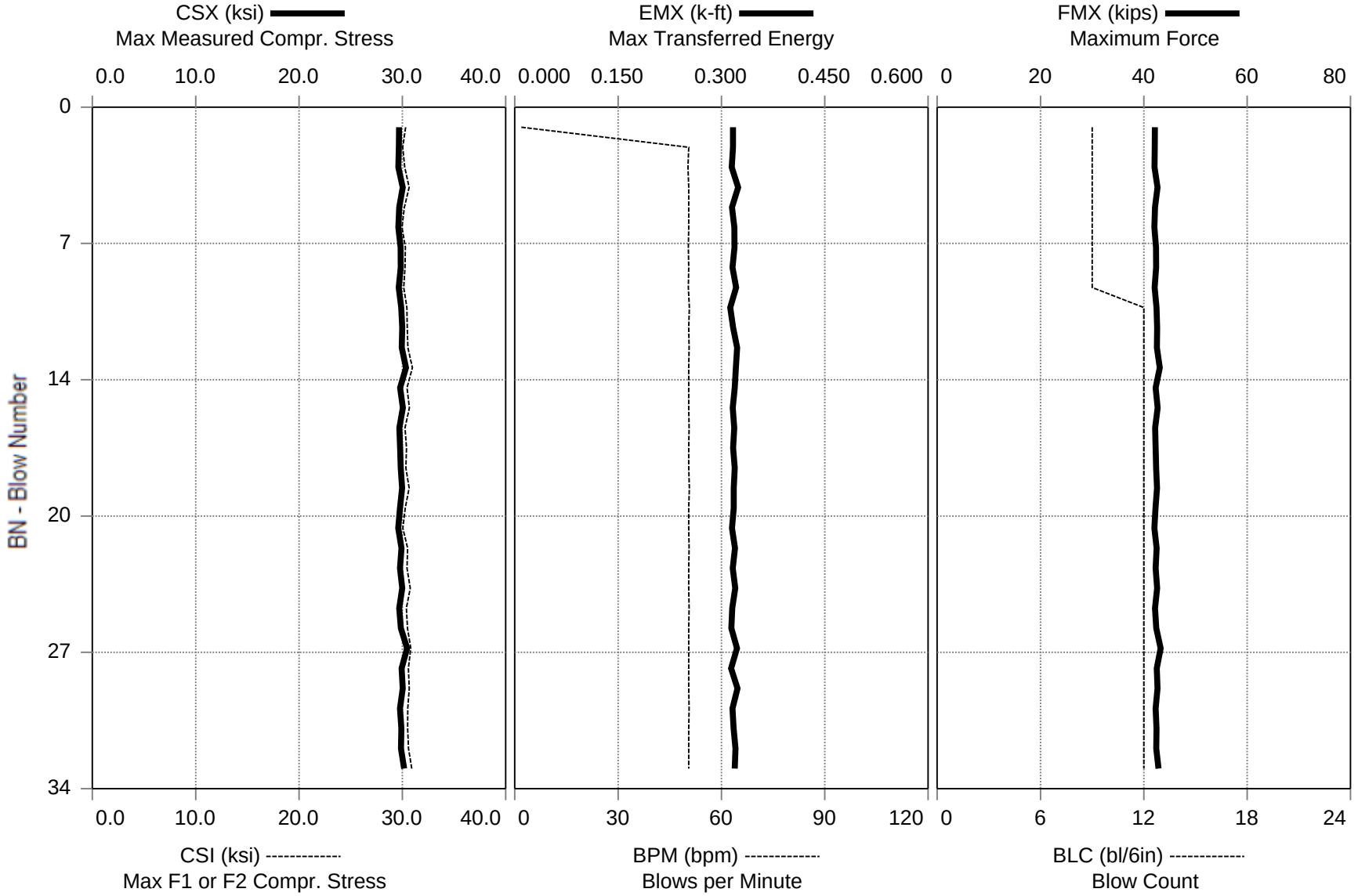
Sensors

F3: [413 NWJ-1] 212.28 (1)
F4: [413 NWJ-2] 213.94 (1)
A3: [K3773] 380 mv/5000g's (1)
A4: [K4822] 355 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 13-September-2017 Test started: 11-September-2017

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 33.5 to 35.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 33.5 to 35.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 39.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	34.00	9	AV9	29.7	30.2	0.318	90.9	45.1	42	15.2
			MAX	30.0	30.6	0.324	92.6	50.5	43	15.5
21	34.50	12	AV12	29.9	30.5	0.318	90.8	50.6	42	15.3
			MAX	30.3	31.0	0.323	92.2	50.7	43	15.6
33	35.00	12	AV12	29.9	30.6	0.318	90.9	50.5	43	15.4
			MAX	30.5	30.9	0.323	92.4	50.6	43	15.7
			Average	29.9	30.4	0.318	90.9	49.0	42	15.3
			Maximum	30.5	31.0	0.324	92.6	50.7	43	15.7

Total number of blows analyzed: 33

BL# Sensors

1-33 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 37 seconds 2:22 PM - 2:23 PM BN 1 - 33

Thompson Engineering SPT Calibration - CME 550X (SN 355273) - 33.5 to 35.0 ft NWJ Rod - Mud Rotary
OP: MJN Date: 11-September-2017

AR: 1.42 in² SP: 0.492 k/ft³
LE: 39.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
10	34.04	12	29.9	30.4	0.313	89.3	50.7	42	15.3
11	34.08	12	30.0	30.5	0.317	90.5	50.5	43	15.4
12	34.13	12	29.9	30.5	0.323	92.2	50.6	43	15.4
13	34.17	12	30.3	31.0	0.321	91.7	50.5	43	15.6
14	34.21	12	29.8	30.4	0.319	91.2	50.5	42	15.3
15	34.25	12	30.0	30.7	0.316	90.4	50.5	43	15.4
16	34.29	12	29.7	30.2	0.319	91.0	50.6	42	15.2
17	34.33	12	29.8	30.4	0.317	90.6	50.5	42	15.3
18	34.38	12	29.8	30.3	0.319	91.2	50.5	42	15.2
19	34.42	12	30.0	30.6	0.318	90.8	50.7	43	15.4
20	34.46	12	29.8	30.3	0.318	90.8	50.5	42	15.3
21	34.50	12	29.6	30.1	0.315	90.1	50.5	42	15.1
22	34.54	12	29.9	30.5	0.320	91.3	50.6	42	15.4
23	34.58	12	29.8	30.4	0.316	90.4	50.5	42	15.3
24	34.63	12	30.0	30.8	0.320	91.4	50.5	43	15.4
25	34.67	12	29.7	30.4	0.316	90.2	50.6	42	15.2
26	34.71	12	29.9	30.5	0.314	89.8	50.5	42	15.3
27	34.75	12	30.5	30.8	0.323	92.2	50.5	43	15.7
28	34.79	12	29.9	30.6	0.314	89.7	50.5	42	15.3
29	34.83	12	30.0	30.7	0.323	92.4	50.5	43	15.4
30	34.88	12	29.8	30.5	0.316	90.3	50.6	42	15.3
31	34.92	12	29.9	30.5	0.318	90.8	50.5	42	15.3
32	34.96	12	29.9	30.6	0.320	91.5	50.5	42	15.4
33	35.00	12	30.2	30.9	0.319	91.2	50.5	43	15.4
		Average	29.9	30.5	0.318	90.9	50.5	42	15.3
		Maximum	30.5	31.0	0.323	92.4	50.7	43	15.7

Total number of blows analyzed: 24

BL# Sensors

10-33 F3: [413 NWJ-1] 212.3 (1.00); F4: [413 NWJ-2] 213.9 (1.00); A3: [K3773] 380.0 (1.00); A4: [K4822] 355.0 (1.00)

Time Summary

Drive 37 seconds 2:22 PM - 2:23 PM BN 1 - 33

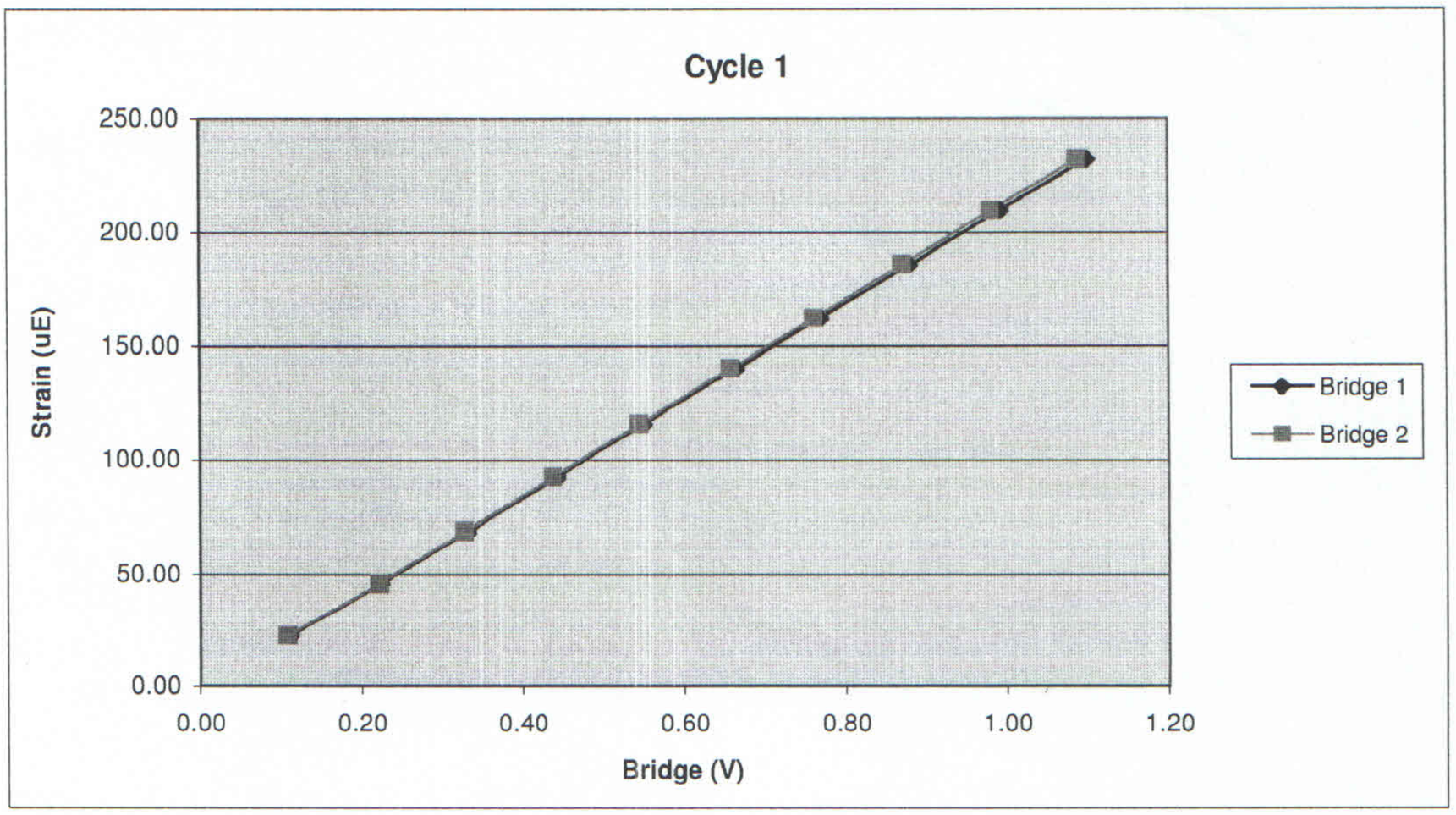
Appendix B

Dynamic Measurement Calibration Sheets

413NWJ		Cycle 1		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	990.99	22.25	0.11	0.11
3	2002.63	46.15	0.22	0.22
4	2988.10	69.17	0.33	0.33
5	3994.04	92.72	0.44	0.44
6	4963.98	115.99	0.55	0.54
7	5994.11	140.04	0.66	0.66
8	6930.41	162.12	0.77	0.76
9	7939.49	185.78	0.88	0.87
10	8950.34	209.60	0.99	0.98
11	9926.18	232.15	1.10	1.09

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**9036.37**	**Force Calibration (lb/V)**	**9125.33**
Offset	-9.46	Offset	-2.08
Correlation	1.000000	Correlation	0.999997
Strain Calibration (µE/V)	**212.51**	**Strain Calibration (µE/V)**	**214.61**
Offset	-1.22	Offset	-1.05
Correlation	0.999996	Correlation	0.999998

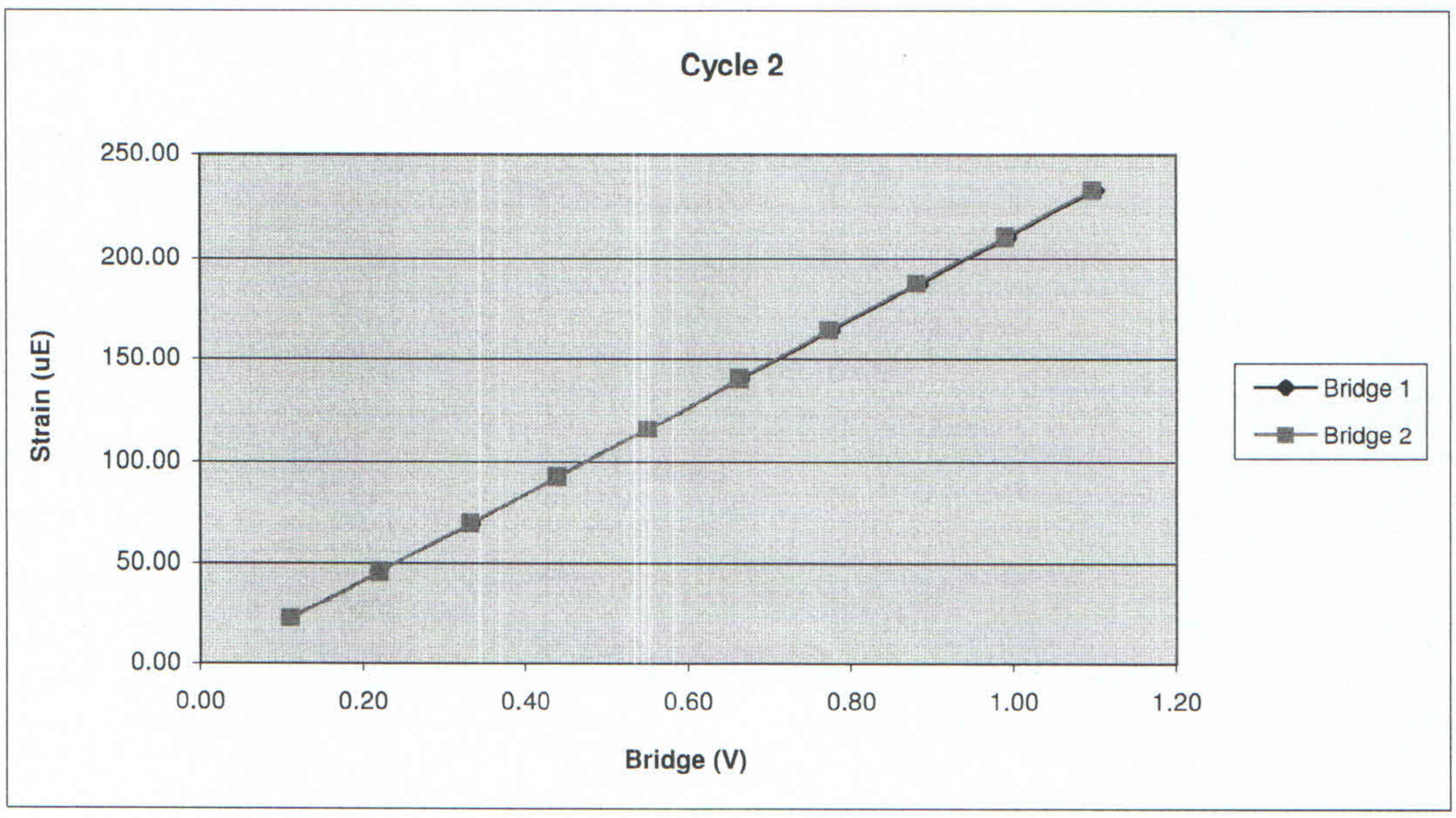
Force Strain Calibration	
EA (Kips)	**42521.15**
Offset	42.49
Correlation	0.999997



413NWJ		Cycle 2		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	987.05	22.73	0.11	0.11
3	1966.04	45.88	0.22	0.22
4	2986.33	69.92	0.33	0.33
5	3951.35	92.68	0.44	0.44
6	4949.03	116.49	0.55	0.55
7	5960.47	140.42	0.66	0.66
8	6953.03	163.97	0.78	0.77
9	7934.77	187.50	0.88	0.88
10	8928.90	210.76	0.99	0.99
11	9905.13	233.34	1.10	1.10

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**8992.65**	**Force Calibration (lb/V)**	**9034.81**
Offset	**-7.95**	Offset	**-19.15**
Correlation	**0.999996**	Correlation	**0.999998**
Strain Calibration (µE/V)	**212.81**	**Strain Calibration (µE/V)**	**213.81**
Offset	**-0.84**	Offset	**-1.11**
Correlation	**0.999997**	Correlation	**0.999996**

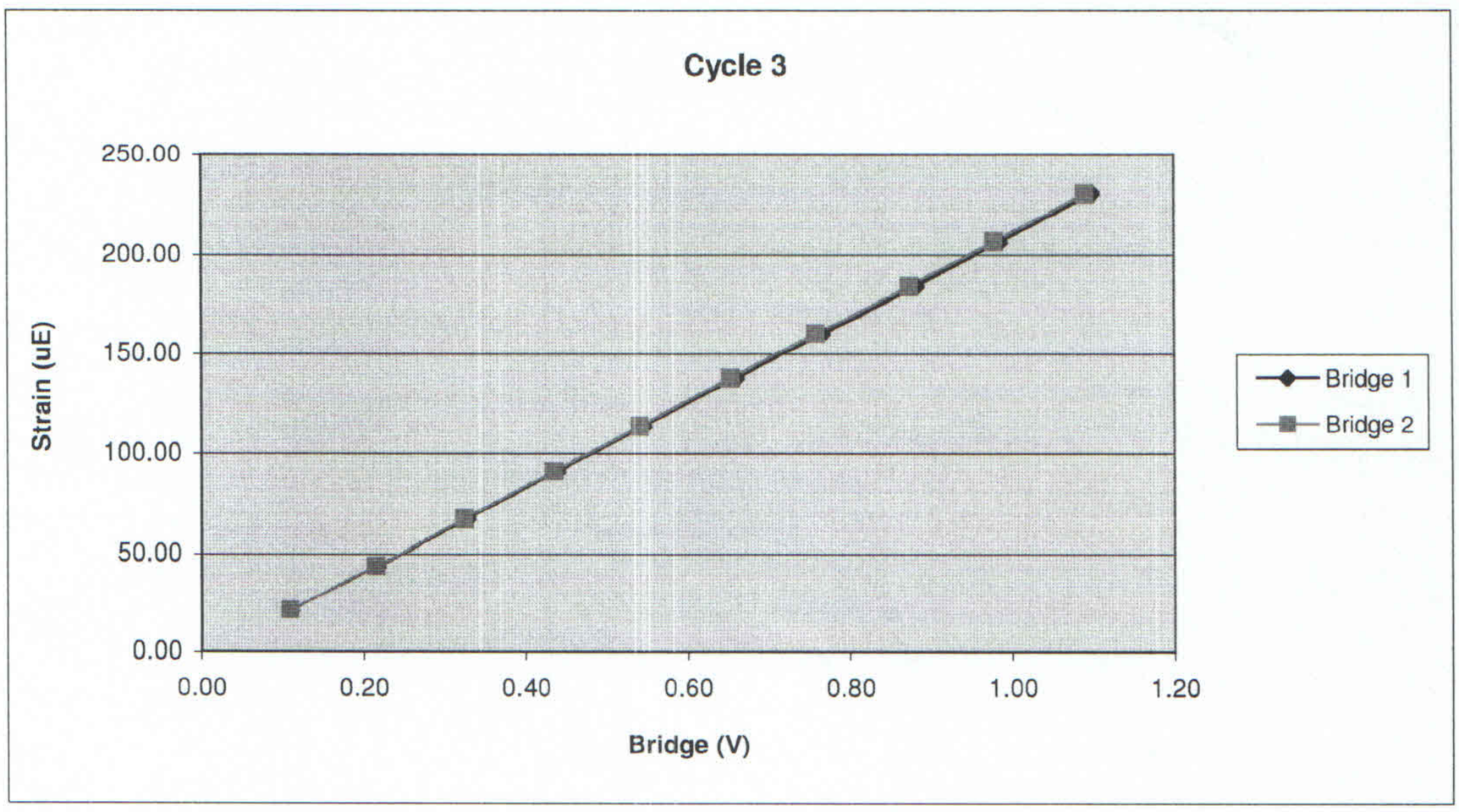
Force Strain Calibration	
EA (Kips)	**42256.93**
Offset	**27.76**
Correlation	**0.999996**



413NWJ		Cycle 3		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	978.00	21.53	0.11	0.11
3	1923.94	43.44	0.22	0.21
4	2938.53	67.46	0.33	0.32
5	3944.67	91.22	0.44	0.44
6	4898.87	113.58	0.54	0.54
7	5921.72	137.82	0.66	0.65
8	6874.74	160.10	0.77	0.76
9	7926.90	184.40	0.88	0.87
10	8859.86	206.60	0.98	0.98
11	9889.59	230.60	1.10	1.09

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**9008.15**	**Force Calibration (lb/V)**	**9088.85**
Offset	**-7.86**	Offset	**-13.21**
Correlation	**0.999998**	Correlation	**0.999998**
Strain Calibration (µE/V)	**211.51**	**Strain Calibration (µE/V)**	**213.41**
Offset	**-1.67**	Offset	**-1.80**
Correlation	**0.999995**	Correlation	**0.999993**

Force Strain Calibration	
EA (Kips)	**42588.80**
Offset	**63.31**
Correlation	**0.999997**



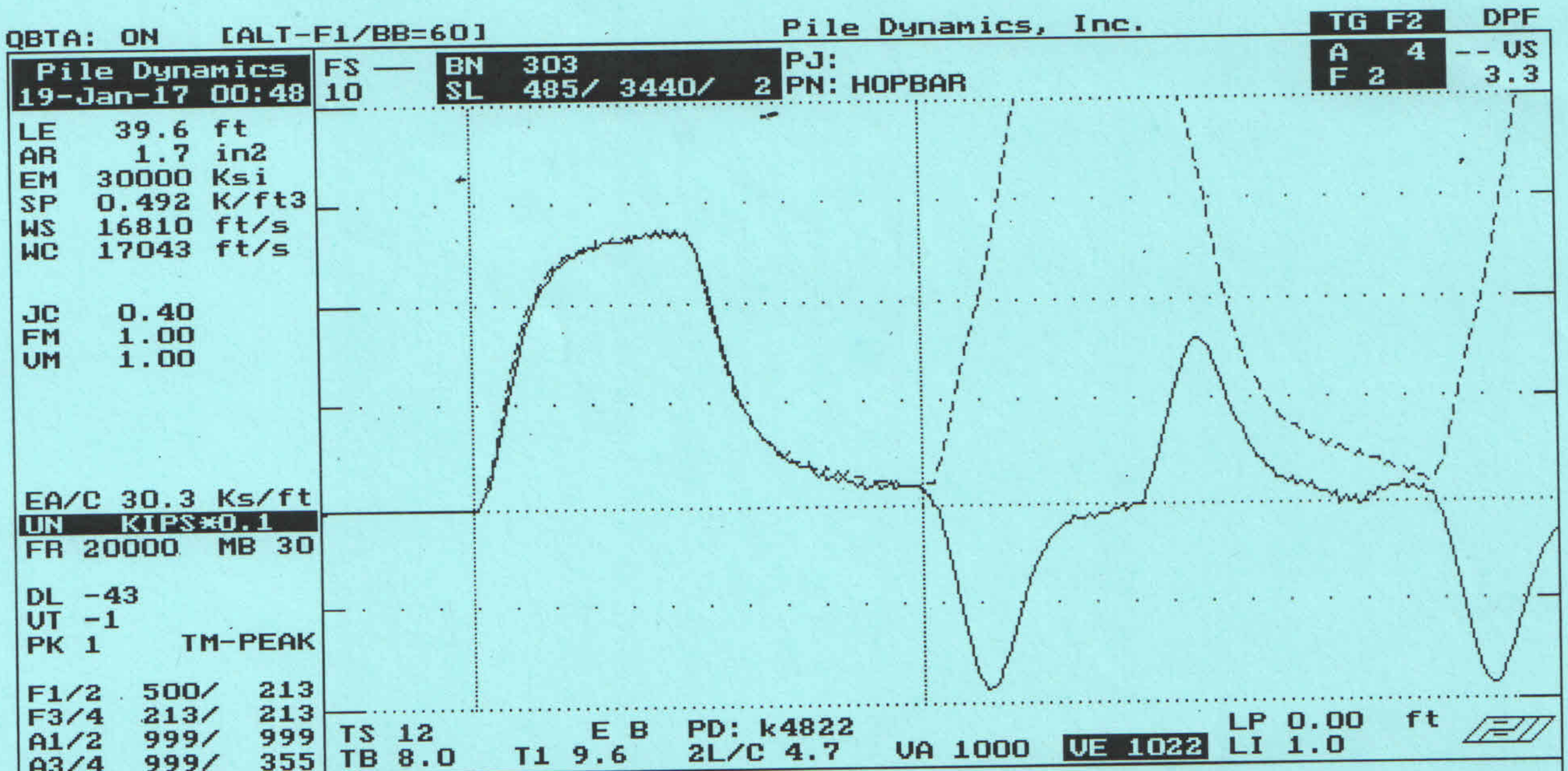
Bridge Excitation (V) 5
Shunt Resitor (ohm) 60.4k

Calibration Factors	413NWJ		
Bridge 1 (µE/V)	212.28	Bridge 2 (µE/V)	213.94
EA Factor (Kips)	42455.63	Area (in^2)	1.42

Calibrated by: _____
Calibrated Date: 6/10/2016

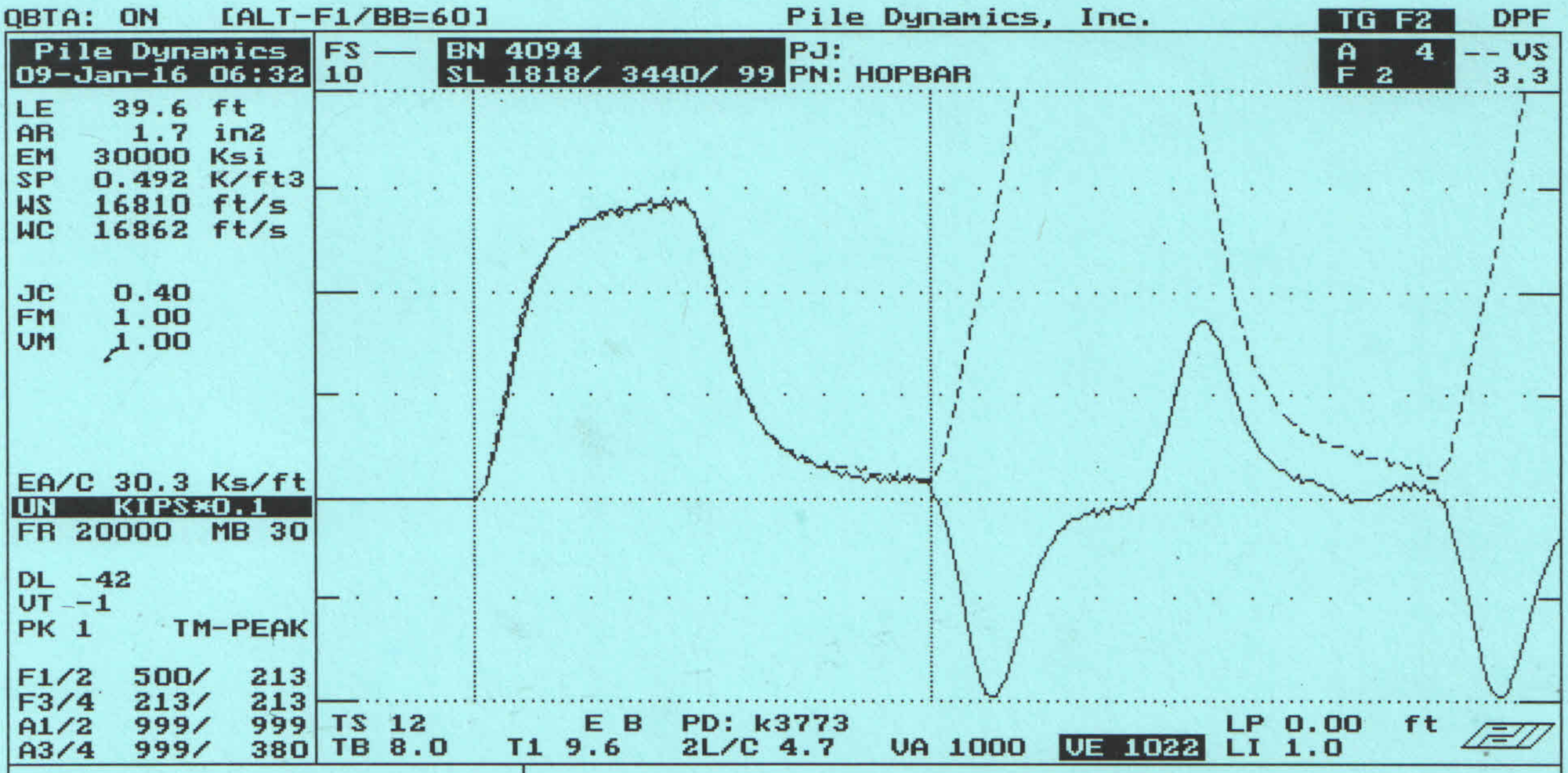
Pile Dynamics Inc
30725 Aurora Rd
Solon, OH 44139

Traceable to N.I.S.T.



Smart Sensor

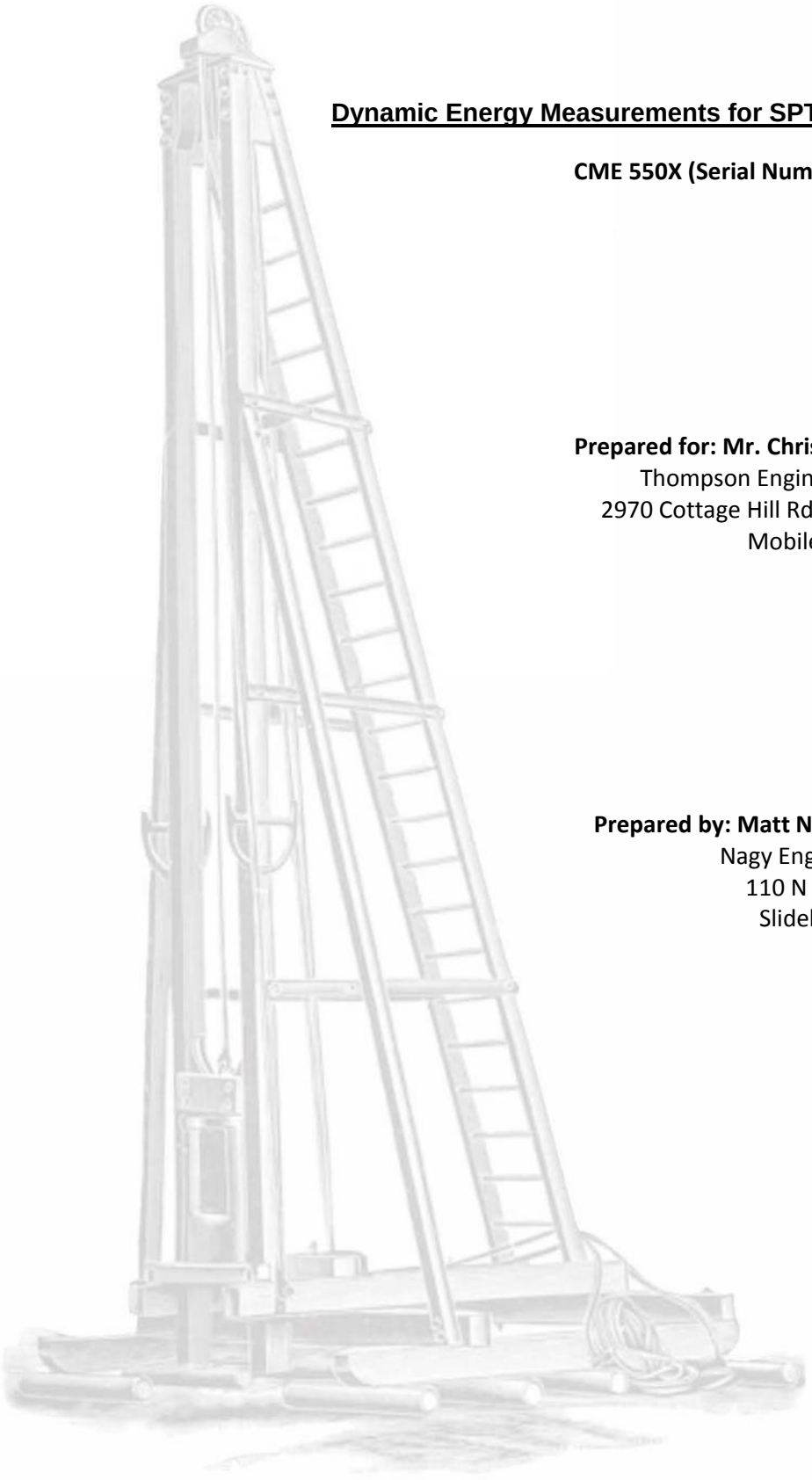
Smart Chip Programmed By R.M.W. **on** 19JAN17 **CRC Value** 5839



Smart Sensor

Smart Chip Programmed By T.M.W. **on** 14JAN16 **CRC Value** 317C

Nagy Engineers, Inc.



Dynamic Energy Measurements for SPT Hammer

CME 550X (Serial Number 327443)

Prepared for: Mr. Chris Dugger of
Thompson Engineering, Inc.
2970 Cottage Hill Rd., Suite 190
Mobile, AL 36606

Prepared by: Matt Nagy, P.E. of
Nagy Engineers, Inc.
110 N Queens Dr.
Slidell, LA 70458

October 5, 2016

Mr. Chris Dugger
Thompson Engineering, Inc.
2970 Cottage Hill Road, Suite 190
Mobile, AL 36606

Re: SPT Hammer Calibration using Dynamic Energy Measurements
Thompson Engineering Drill Rig – CME 550X (S/N 327443)
Nagy Engineers Job No. 161037-1

Dear Mr. Dugger:

This report summarizes the results from SPT Energy Measurement Testing performed at the Mobile River Bridge project on September 28, 2016. The testing was conducted to calibrate a CME 550X automatic SPT hammer. The hammer reportedly had a 140 lb drop weight and a 2.5 ft drop height. Appendix A gives a summary of the field dynamic test data and results while Appendix B contains the equipment calibration sheets. An overall summary of the test results is presented in Table 1.

OBJECTIVES

The objective of the testing was to perform SPT Energy Measurements according to ASTM D4633-10. These objectives were met using our Pile Driving Analyzer®, Model PAX – SPT Software, which acquired the SPT hammer's transfer energies using an instrumented NWJ rod section and two piezoresistive accelerometers.

TESTING AND EQUIPMENT

Drilling and SPT Hammer Equipment

SPT energy measurements were collected for a CME 550X automatic SPT hammer. The serial number on the rig was s/n 327443. Energy records were collected at various increments between the depths of 68.5 ft and 100 ft. The drilling method was mud rotary. Appendix A contains a photo of the CME 550X rig that was tested.

Instrumentation

A Model PAX Pile Driving Analyzer® (PDA) data acquisition system was used to collect and process the dynamic measurements of force and velocity. The PAX is a digital system having a low pass filter cutoff frequency of 5 kHz. The sampling frequency was therefore set to 10 times the low pass filter, or 50 kHz. A two foot long section of NWJ rod subsection was instrumented with one full bridge foil resistance strain

gage and two piezoresistive accelerometers mounted at the midpoint location of the instrumented subsection. Strain and acceleration signals were conditioned, digitized, stored and processed using the PDA. Selected output from the PDA for each recorded impact included the maximum calculated rod top force (FMX), maximum rod top velocity (VMX), maximum average compressive stress (CSX), maximum energy transfer (EMX), energy transfer ratio (ETR) and the hammer operating rate (BPM).

MEASUREMENTS AND CALCULATIONS

FV Method (EMX)

Energy transfer to the PDA gage location, EMX, was computed by the PDA using force, F(t), and velocity, v(t), records as follows:

$$EMX = \int_a^b F(t) \cdot v(t) dt$$

The time "a" corresponds to the start of the record when the energy transfer begins, and "b" is the time at which energy transferred to the rod reaches a maximum value. The FV Method is currently recognized in ASTM D4633-10, and is the theoretically correct result; therefore, no other energy calculation methods are reported.

RESULTS

Upon return to the office, the records collected by the PDA were checked for consistency and accuracy. For example, records from very weak startup or final impacts were not included in the results. Appendix A contains a representative plot of force and normalized velocity versus time and PDIPLOT results for all hammer blows at each dynamically monitored sampling depth. The PDA results include the EMX (transferred energy by the EMX method, as recommended by ASTM D4633-10), ETR (energy transfer ratio), BPM (hammer operating rate), FMX (maximum rod top force), CSX (maximum compressive stress), and VMX (maximum rod top velocity). The plots show each calculated PDA result versus sampling spoon penetration while the tables show statistical summaries for each 6 inch increment. At the end of each table, on the next page, is a statistical evaluation of the results which only include the blows that correspond to the N-Value for that sample.

Table 1 summarizes the average transfer energy values calculated by the EMX method. The records averaged consist only of the hammer blows at each dynamically monitored sampling depth that correspond to the N-Values (i.e. the blows in the initial 6 inches of split spoon driving were not considered as part of the average). The “energy transfer ratio” (ETR) is defined as the ratio of maximum transferred

energy EMX divided by the theoretical hammer potential energy of 350 ft-lbs. The average hammer operating rate is reported in blows per minute (BPM).

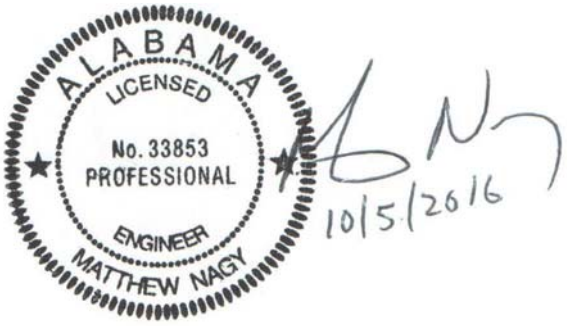
CONCLUSIONS

RIG: CME 550X (s/n: 327443) - 140 lbs Hammer – 2.5 ft Drop Height

The average maximum energy transfer (EMX) to the NWJ SPT rod using the 140 lbs drop weight was 307 ft-lbs which is approximately 88% of the 350 ft-lbs potential energy of the hammer. The standard deviation of the transfer efficiency was 1% over the seven samples that were collected. The average hammer operation rate during the time of testing was 49.2 blows/min.

We have appreciated this opportunity to be of assistance to you on this project, please contact our office if you have any questions regarding this report, or if we may be of further service.

Very truly yours,
Nagy Engineers, Inc.



Matthew Nagy, P.E. AL # 33853
Project Engineer

Firm COA Number: 4718

enclosed: Appendices A and B

TABLE 1: Summary of SPT Energy Measurements

CME 550X Automatic SPT Hammer (S/N 327443)

Rod Length Below Gages *LE*	Depth Below Top of Ground	Reported SPT Blow Counts	Maximum Transfer Force *FMX*	Maximum Compressive Stress *CSX*	Average Hammer Blow Rate *BPM*	Average Energy Transfer *EMX*	Average Transfer Efficiency *ETR*
ft	ft	blows/6"	kips	ksi	blows/min	ft-lbs	%
86.0	68.5 to 70.0	5,6,10	42	29.2	47.2	305	87%
91.0	73.5 to 75.0	6,11,15	42	29.4	49.5	310	88%
96.0	78.5 to 80.0	8,18,20	41	29.0	49.4	312	89%
101.0	83.5 to 85.0	11,14,18	41	29.2	49.5	308	88%
106.0	88.5 to 90.0	11,13,16	39	27.2	49.4	304	87%
111.0	93.5 to 95.0	12,14,19	40	28.4	50.0	302	86%
116.0	98.5 to 100.0	12,12,8	38	27.0	49.6	308	88%
		Overall Average			**49.2**	**307**	**88%**
		Standard Deviation			**0.9**	**4**	**1%**

Notes

LE - Length from the bottom of the spoon to the PDA gage location.
FMX - Maximum Force Meaused at PDA gage locationn.
CSX - Maximum Average Compressive Stress at PDA gage location.
BPM - Hammer operation rate (blows/minute)
EMX - Computed, from $\int Fv\,dt$, maximum energy transferred to PDA gage location.
ETR - Computed, from EMX/PE, maximum energy transfer efficiency

Appendix A

Results from SPT Dynamic Energy Measurements

Thompson Engineering SPT Rig Calibration

CME 550X

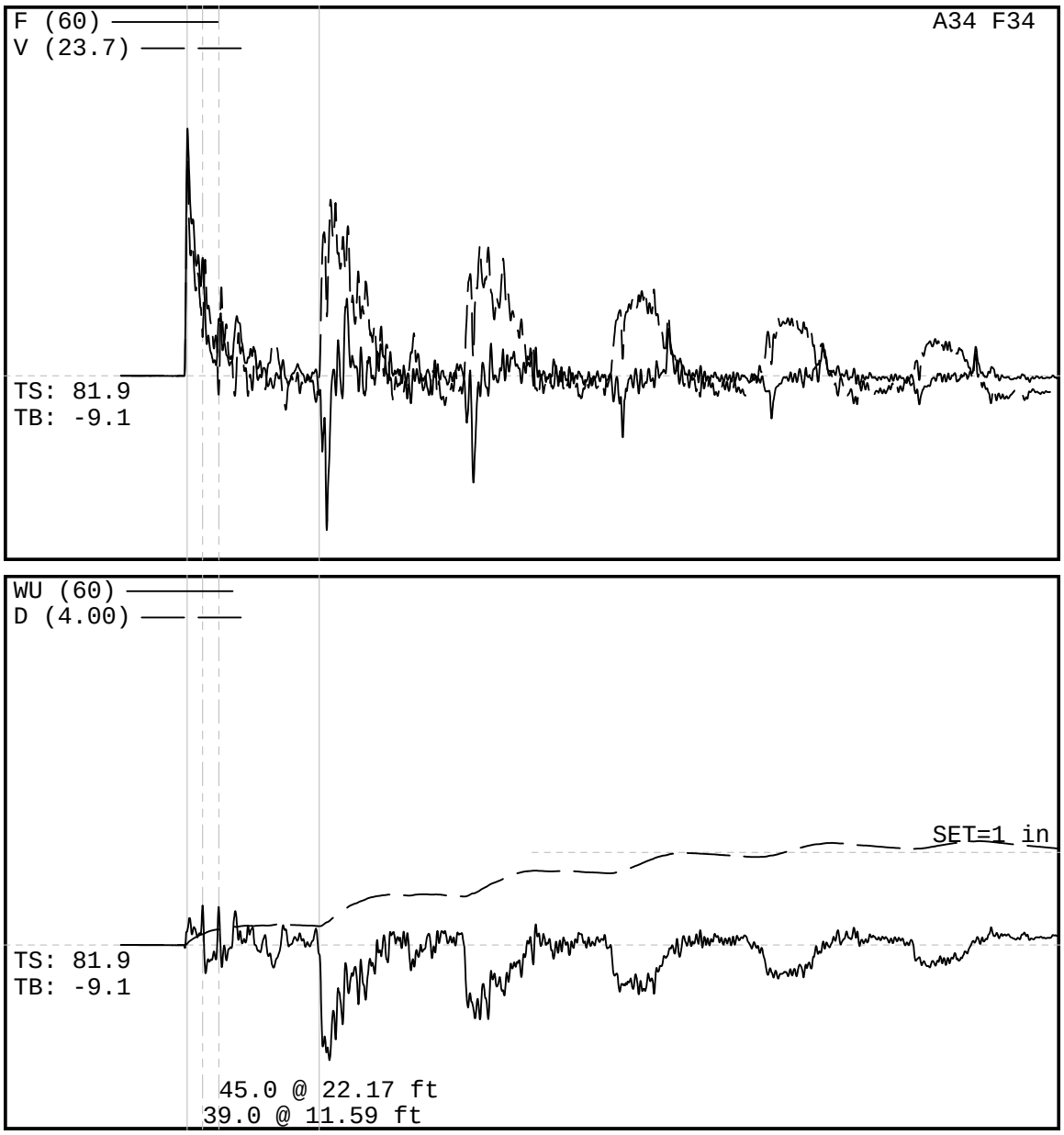
S/N 327443

(NWJ Rod – Mud Rotary)



Thompson Engineering's CME 550X (S/N 327443)

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 68.5 to 70.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 68.5 to 7
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 68.5 to 70.0 ft
9/28/2016 9:26:10 AM
Blow Number 1

Pile Properties

LE	86.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	10.24	ms
JC		[]
LP	68.60	ft

Quantity Results

CSX	28.23	ksi
CSI f	28.76	ksi
EMX	0.3	k-ft
ETR	86.1	(%)
BPM	1.9	bpm
FMX	40	kips
VMX	13.9	f/s
QNV	0.00	[]
QNV	0.00	[]

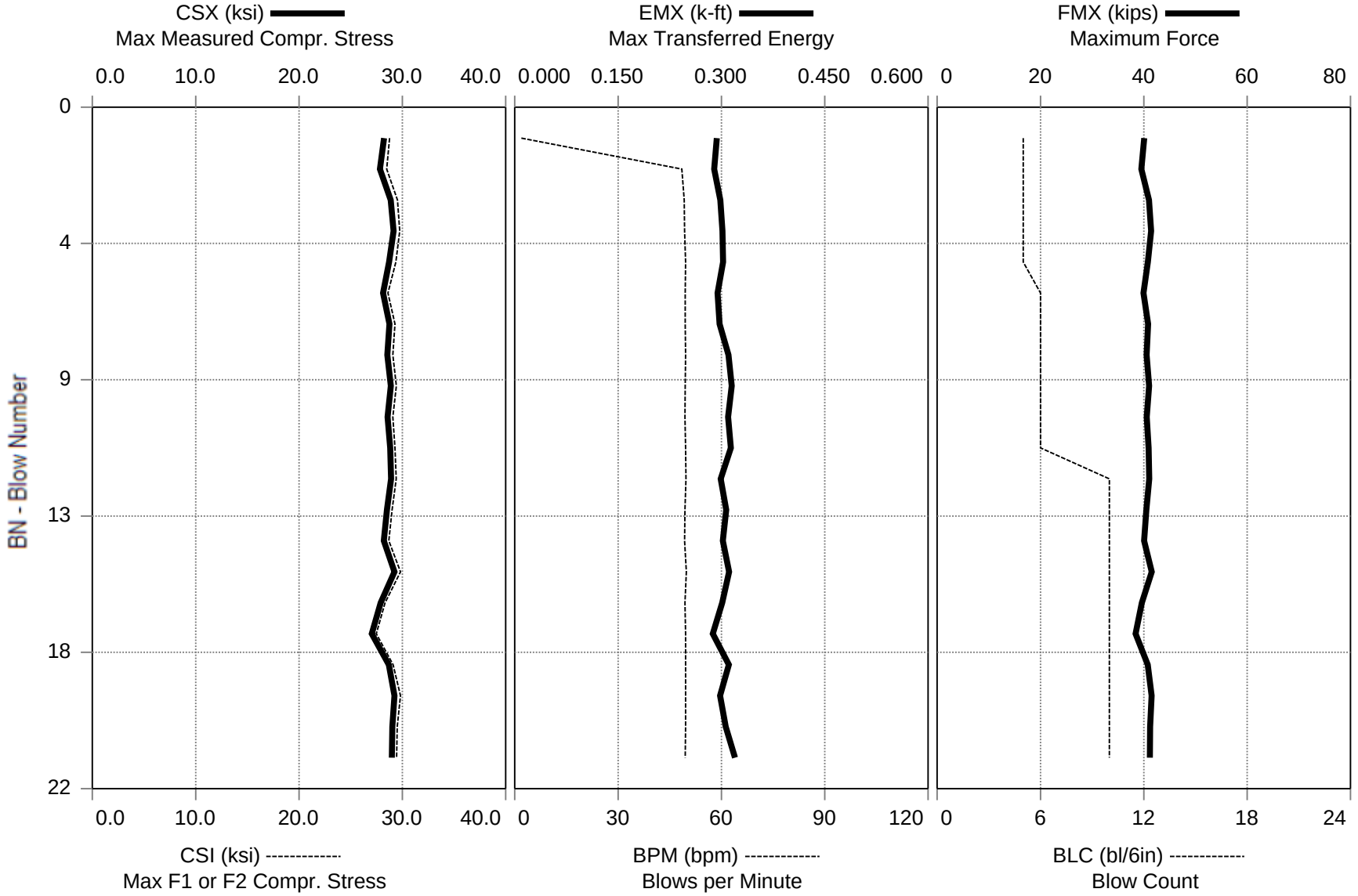
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 68.5 to 70.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 68.5 to 70.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 86.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress FMX: Maximum Force
CSI: Max F1 or F2 Compr. Stress ETR: Energy Transfer Ratio
EMX: Max Transferred Energy VMX: Maximum Velocity
BPM: Blows per Minute

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	BPM bpm	FMX kips	ETR (%)	VMX f/s
5	69.00	5	AV5	28.6	29.2	0.297	39.7	41	84.9	14.1
			MAX	29.2	29.7	0.302	49.6	41	86.4	14.3
11	69.50	6	AV6	28.6	29.1	0.307	49.5	41	87.6	14.3
			MAX	28.9	29.4	0.315	49.6	41	90.0	14.4
21	70.00	10	AV10	28.6	29.1	0.304	49.6	41	86.9	14.4
			MAX	29.2	29.8	0.320	49.8	42	91.4	14.7
			Average	28.6	29.1	0.303	47.2	41	86.6	14.3
			Maximum	29.2	29.8	0.320	49.8	42	91.4	14.7

Total number of blows analyzed: 21

BL# Sensors

1-21 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 24 seconds 9:26 AM - 9:26 AM BN 1 - 21

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 68.5 to 70.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 86.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	69.08	6	28.1	28.6	0.294	84.1	49.5	40	13.9
7	69.17	6	28.7	29.3	0.297	84.9	49.5	41	14.3
8	69.25	6	28.5	29.1	0.310	88.6	49.6	41	14.3
9	69.33	6	28.9	29.4	0.315	90.0	49.5	41	14.4
10	69.42	6	28.6	29.1	0.310	88.5	49.4	41	14.3
11	69.50	6	28.8	29.3	0.314	89.6	49.6	41	14.4
12	69.55	10	28.9	29.4	0.299	85.4	49.7	41	14.5
13	69.60	10	28.5	29.0	0.307	87.7	49.4	40	14.3
14	69.65	10	28.2	28.7	0.302	86.3	49.3	40	14.3
15	69.70	10	29.2	29.8	0.311	88.9	49.8	42	14.7
16	69.75	10	27.9	28.3	0.301	86.0	49.4	40	13.9
17	69.80	10	27.0	27.5	0.287	82.1	49.6	38	13.6
18	69.85	10	28.7	29.1	0.311	88.8	49.6	41	14.3
19	69.90	10	29.2	29.8	0.298	85.1	49.6	42	14.7
20	69.95	10	29.0	29.5	0.306	87.5	49.6	41	14.7
21	70.00	10	29.0	29.4	0.320	91.4	49.5	41	14.6
		Average	28.6	29.1	0.305	87.2	49.5	41	14.3
		Maximum	29.2	29.8	0.320	91.4	49.8	42	14.7

Total number of blows analyzed: 16

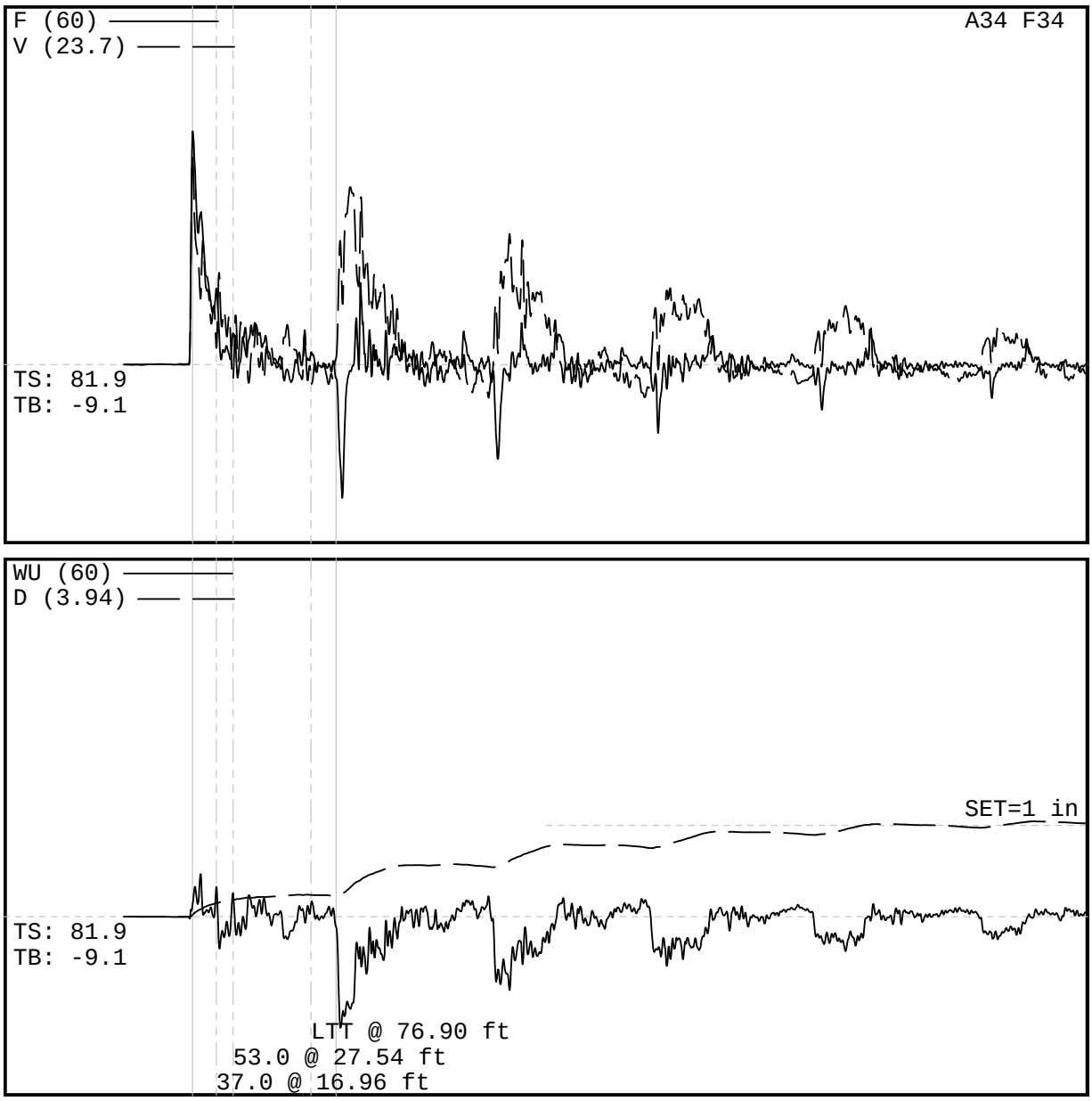
BL# Sensors

6-21 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 24 seconds 9:26 AM - 9:26 AM BN 1 - 21

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 73.5 to 75.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 73.5 to 7
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 73.5 to 75.0 ft
9/28/2016 9:46:38 AM
Blow Number 1

Pile Properties

LE	91.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	10.84	ms
JC	[]	
LP	73.58	ft

Quantity Results

CSX	27.44	ksi
CSI f	27.98	ksi
EMX	0.3	k-ft
ETR	87.6	(%)
BPM	1.9	bpm
FMX	39	kips
VMX	13.8	f/s
QNV	0.00	[]
QNV	0.00	[]

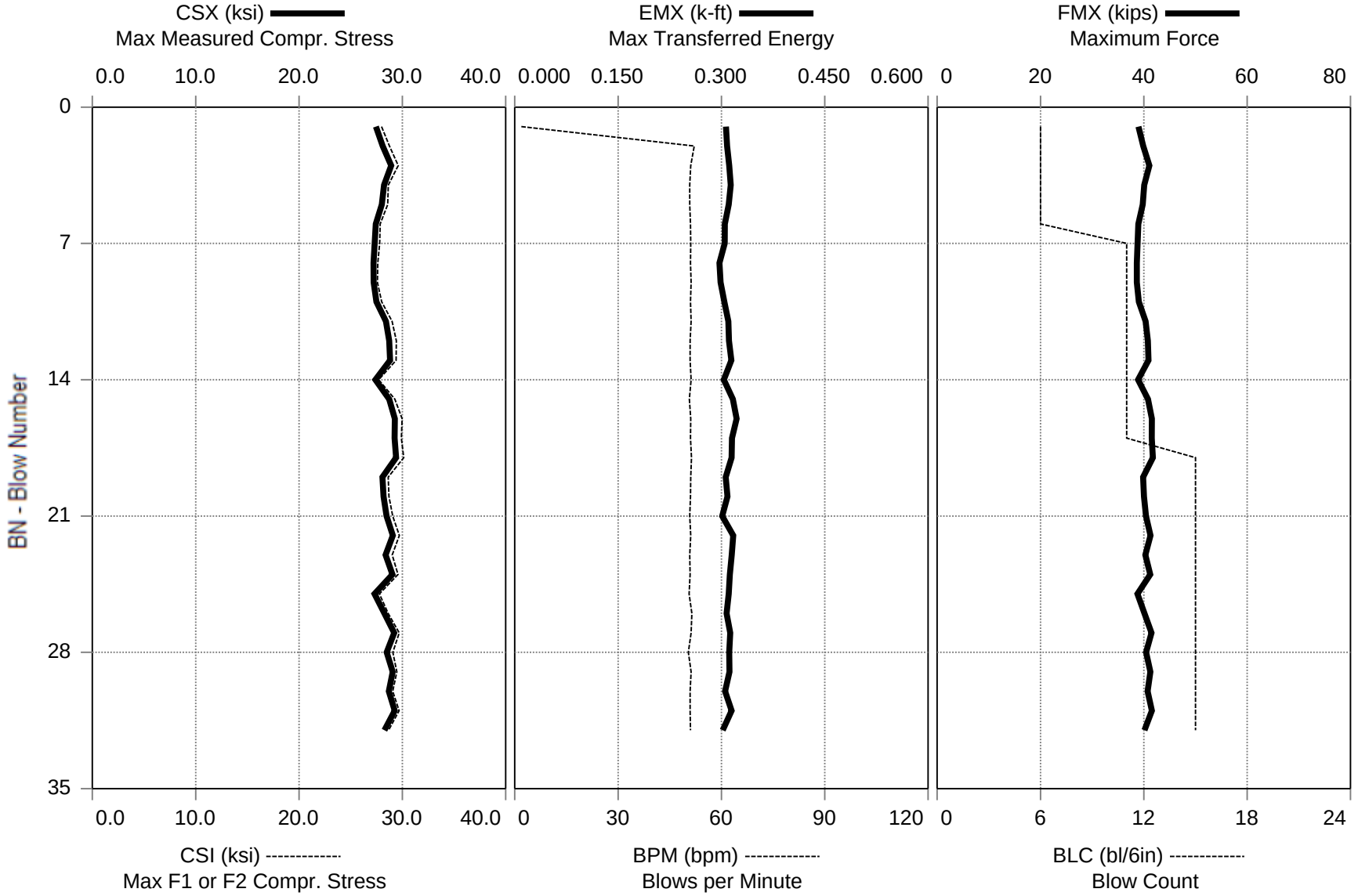
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 73.5 to 75.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 73.5 to 75.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 91.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
6	74.00	6	AV6	28.0	28.6	0.309	88.3	43.0	40	14.2
			MAX	28.9	29.6	0.313	89.6	52.1	41	14.8
17	74.50	11	AV11	28.2	28.7	0.309	88.3	51.0	40	14.3
			MAX	29.3	30.0	0.322	92.0	51.2	42	15.0
32	75.00	15	AV15	28.6	29.1	0.310	88.6	51.0	41	14.8
			MAX	29.4	30.1	0.317	90.6	51.4	42	15.1
			Average	28.3	28.9	0.309	88.4	49.5	40	14.5
			Maximum	29.4	30.1	0.322	92.0	52.1	42	15.1

Total number of blows analyzed: 32

BL# Sensors

1-32 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 36 seconds 9:46 AM - 9:47 AM BN 1 - 32

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 73.5 to 75.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 91.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
7	74.05	11	27.3	27.8	0.305	87.1	51.1	39	13.8
8	74.09	11	27.2	27.6	0.297	84.9	51.0	39	13.4
9	74.14	11	27.2	27.6	0.299	85.3	51.2	39	13.6
10	74.18	11	27.5	28.0	0.304	86.9	51.0	39	14.0
11	74.23	11	28.4	29.0	0.310	88.6	51.2	40	14.7
12	74.27	11	28.7	29.4	0.311	88.8	50.9	41	14.7
13	74.32	11	28.8	29.4	0.314	89.8	50.9	41	14.8
14	74.36	11	27.4	27.7	0.304	86.7	51.2	39	13.7
15	74.41	11	28.7	29.3	0.317	90.5	50.7	41	14.9
16	74.45	11	29.3	30.0	0.322	92.0	51.1	42	15.0
17	74.50	11	29.2	29.9	0.315	90.1	51.0	42	15.0
18	74.53	15	29.4	30.1	0.315	90.0	51.3	42	15.1
19	74.57	15	28.1	28.6	0.306	87.5	51.1	40	14.4
20	74.60	15	28.2	28.7	0.309	88.2	51.0	40	14.8
21	74.63	15	28.5	29.1	0.301	86.0	50.8	40	14.7
22	74.67	15	29.1	29.7	0.317	90.6	51.1	41	15.0
23	74.70	15	28.4	29.0	0.315	90.0	50.8	40	14.7
24	74.73	15	29.0	29.6	0.312	89.2	50.9	41	15.0
25	74.77	15	27.3	27.8	0.311	88.7	50.6	39	14.0
26	74.80	15	28.3	28.6	0.307	87.8	51.4	40	14.7
27	74.83	15	29.2	29.7	0.313	89.4	51.2	41	15.0
28	74.87	15	28.5	29.1	0.311	88.9	50.4	40	14.7
29	74.90	15	29.1	29.5	0.312	89.0	51.2	41	15.1
30	74.93	15	28.7	29.1	0.305	87.2	50.9	41	14.8
31	74.97	15	29.3	29.7	0.315	89.9	50.9	42	15.0
32	75.00	15	28.3	28.7	0.302	86.3	51.0	40	14.6
		Average	28.4	28.9	0.310	88.4	51.0	40	14.6
		Maximum	29.4	30.1	0.322	92.0	51.4	42	15.1

Total number of blows analyzed: 26

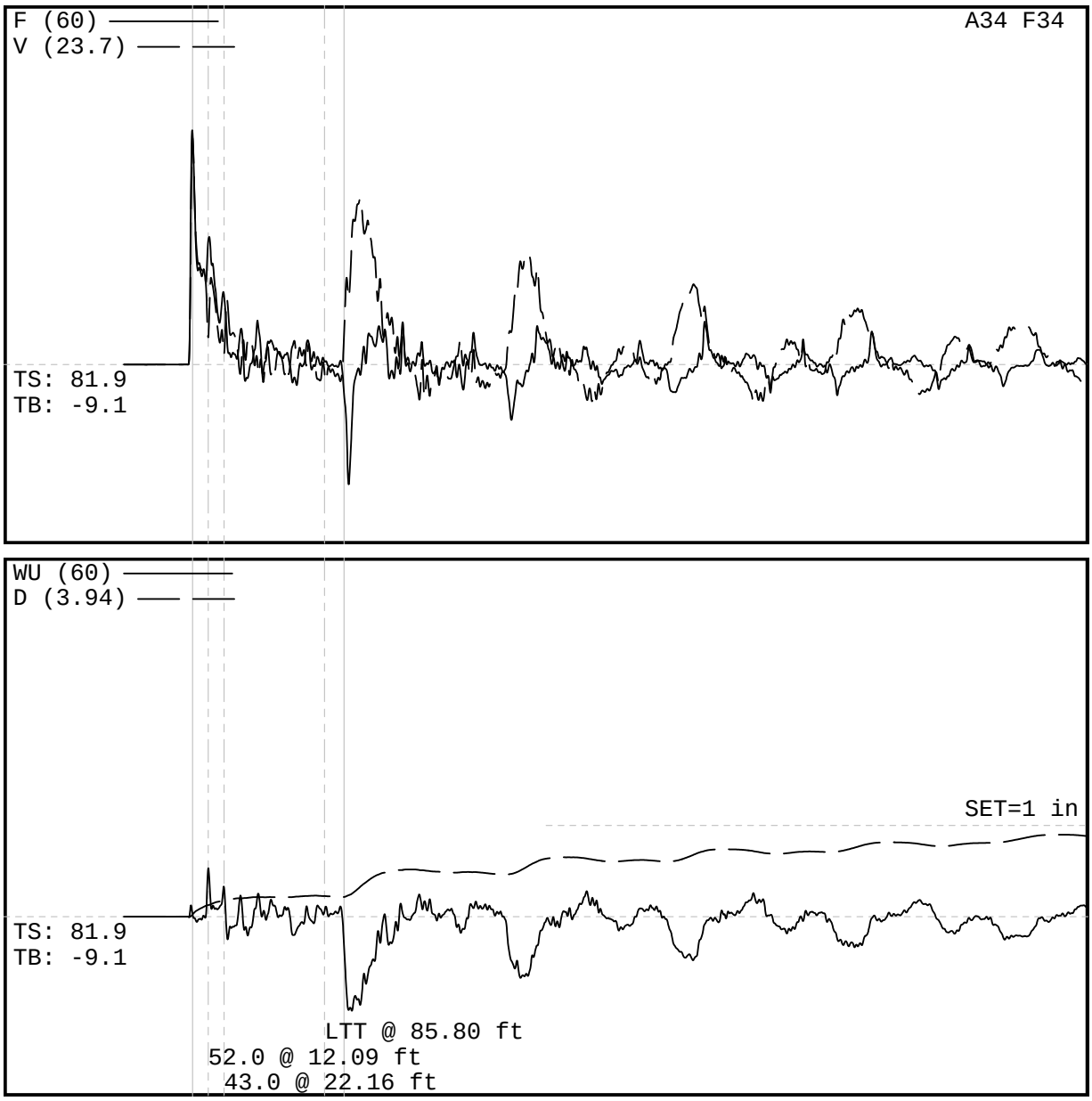
BL# Sensors

7-32 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 36 seconds 9:46 AM - 9:47 AM BN 1 - 32

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 78.5 to 80.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 78.5 to 8
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 78.5 to 80.0 ft
9/28/2016 10:08:12 AM
Blow Number 1

Pile Properties

LE	96.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	11.44	ms
JC	[]	
LP	78.56	ft

Quantity Results

CSX	27.57	ksi
CSI f	28.06	ksi
EMX	0.3	k-ft
ETR	89.0	(%)
BPM	1.9	bpm
FMX	39	kips
VMX	14.9	f/s
QNV	0.00	[]
QNV	0.00	[]

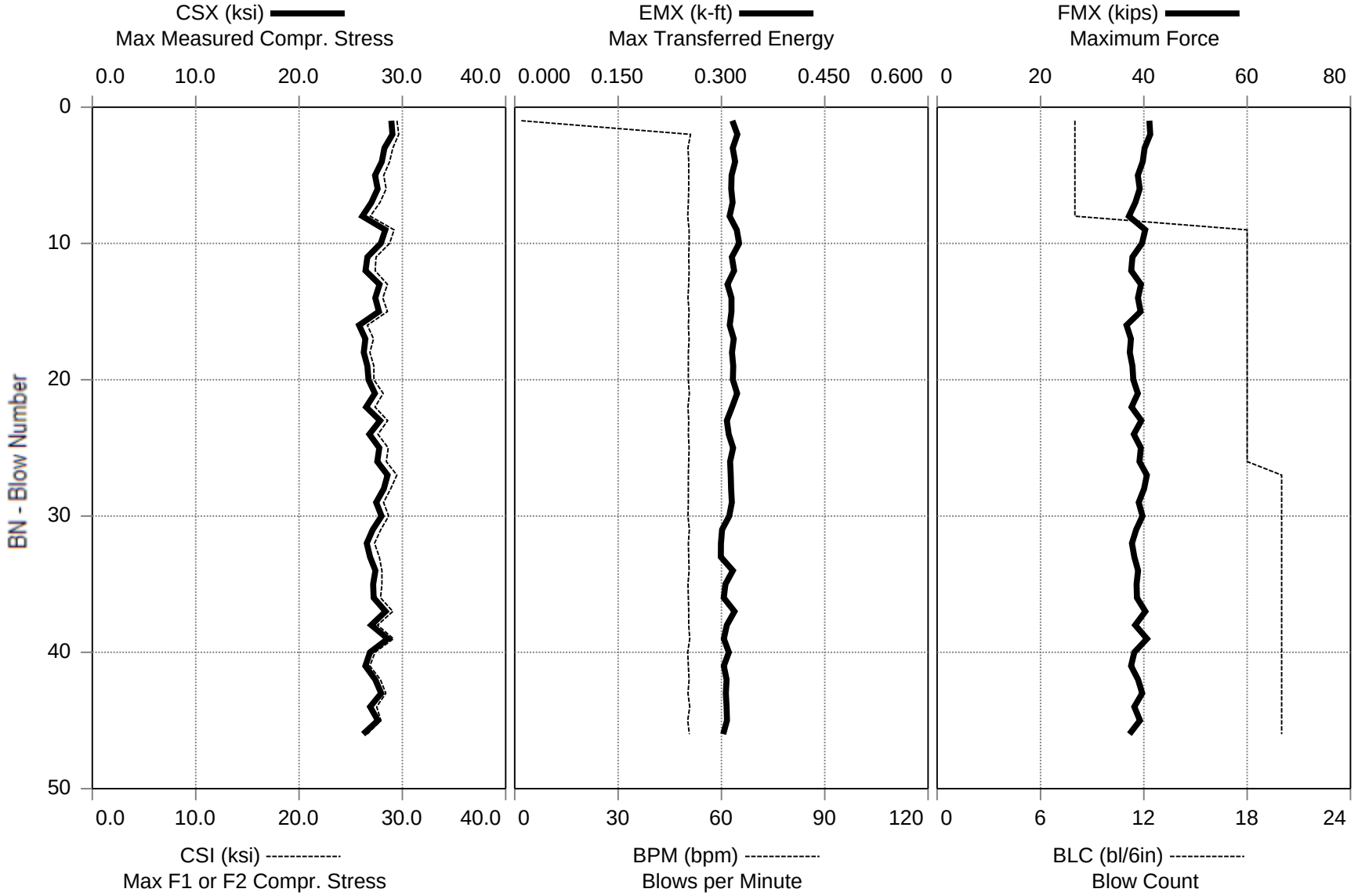
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 78.5 to 80.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 78.5 to 80.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 96.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
8	79.00	8	AV8	27.8	28.5	0.317	90.4	44.4	39	15.6
			MAX	29.0	29.7	0.323	92.3	51.0	41	15.9
26	79.50	18	AV18	27.1	27.9	0.316	90.2	50.5	38	16.1
			MAX	28.4	29.2	0.326	93.1	50.7	40	16.6
46	80.00	20	AV20	27.4	28.0	0.308	87.9	50.5	39	15.9
			MAX	28.6	29.5	0.319	91.1	50.8	41	17.0
			Average	27.3	28.1	0.312	89.3	49.4	39	15.9
			Maximum	29.0	29.7	0.326	93.1	51.0	41	17.0

Total number of blows analyzed: 46

BL# Sensors

1-46 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 53 seconds 10:08 AM - 10:09 AM BN 1 - 46

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 78.5 to 80.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 96.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
9	79.03	18	28.4	29.2	0.322	92.0	50.6	40	16.0
10	79.06	18	27.9	28.8	0.326	93.1	50.6	40	16.5
11	79.08	18	26.6	27.4	0.315	90.1	50.5	38	15.8
12	79.11	18	26.4	27.4	0.318	91.0	50.6	38	16.5
13	79.14	18	27.8	28.6	0.309	88.2	50.5	39	16.3
14	79.17	18	27.4	28.1	0.315	89.9	50.3	39	15.1
15	79.19	18	27.7	28.5	0.315	89.9	50.6	39	16.5
16	79.22	18	25.8	26.6	0.312	89.2	50.4	37	15.2
17	79.25	18	26.4	27.2	0.318	90.8	50.6	38	16.1
18	79.28	18	26.3	26.9	0.315	90.1	50.4	37	16.0
19	79.31	18	26.6	27.2	0.317	90.6	50.4	38	16.4
20	79.33	18	26.7	27.2	0.317	90.5	50.4	38	16.1
21	79.36	18	27.3	28.1	0.323	92.2	50.7	39	16.6
22	79.39	18	26.5	27.4	0.315	90.1	50.3	38	16.5
23	79.42	18	27.8	28.6	0.308	87.9	50.5	40	16.4
24	79.44	18	26.8	27.6	0.311	88.7	50.4	38	15.3
25	79.47	18	27.8	28.6	0.317	90.5	50.6	39	16.1
26	79.50	18	27.6	28.4	0.313	89.3	50.5	39	16.2
27	79.53	20	28.6	29.5	0.313	89.5	50.4	41	16.2
28	79.55	20	28.2	28.9	0.314	89.7	50.4	40	16.5
29	79.58	20	27.5	28.2	0.315	90.0	50.4	39	16.1
30	79.60	20	28.0	28.7	0.311	88.9	50.3	40	16.9
31	79.63	20	27.1	27.9	0.301	86.0	50.7	39	16.5
32	79.65	20	26.6	27.3	0.299	85.5	50.4	38	17.0
33	79.68	20	26.9	27.8	0.299	85.5	50.5	38	16.6
34	79.70	20	27.4	28.0	0.317	90.4	50.6	39	15.9
35	79.73	20	27.2	28.0	0.306	87.4	50.3	39	16.5
36	79.75	20	27.2	27.9	0.303	86.7	50.4	39	16.5
37	79.78	20	28.4	29.1	0.319	91.1	50.5	40	16.3
38	79.80	20	27.0	27.6	0.308	87.9	50.5	38	15.8
39	79.83	20	28.6	29.1	0.303	86.7	50.8	41	15.5
40	79.85	20	26.9	27.4	0.311	88.8	50.2	38	15.2
41	79.88	20	26.4	26.9	0.303	86.7	50.4	38	14.5
42	79.90	20	27.4	27.9	0.308	87.9	50.6	39	14.9
43	79.93	20	27.9	28.4	0.306	87.5	50.3	40	15.2
44	79.95	20	26.9	27.5	0.308	87.9	50.8	38	15.7
45	79.98	20	27.6	27.9	0.308	88.0	50.2	39	15.1
46	80.00	20	26.2	26.6	0.303	86.4	50.7	37	14.4
		Average	27.3	28.0	0.312	89.0	50.5	39	16.0
		Maximum	28.6	29.5	0.326	93.1	50.8	41	17.0

Total number of blows analyzed: 38

BL# Sensors

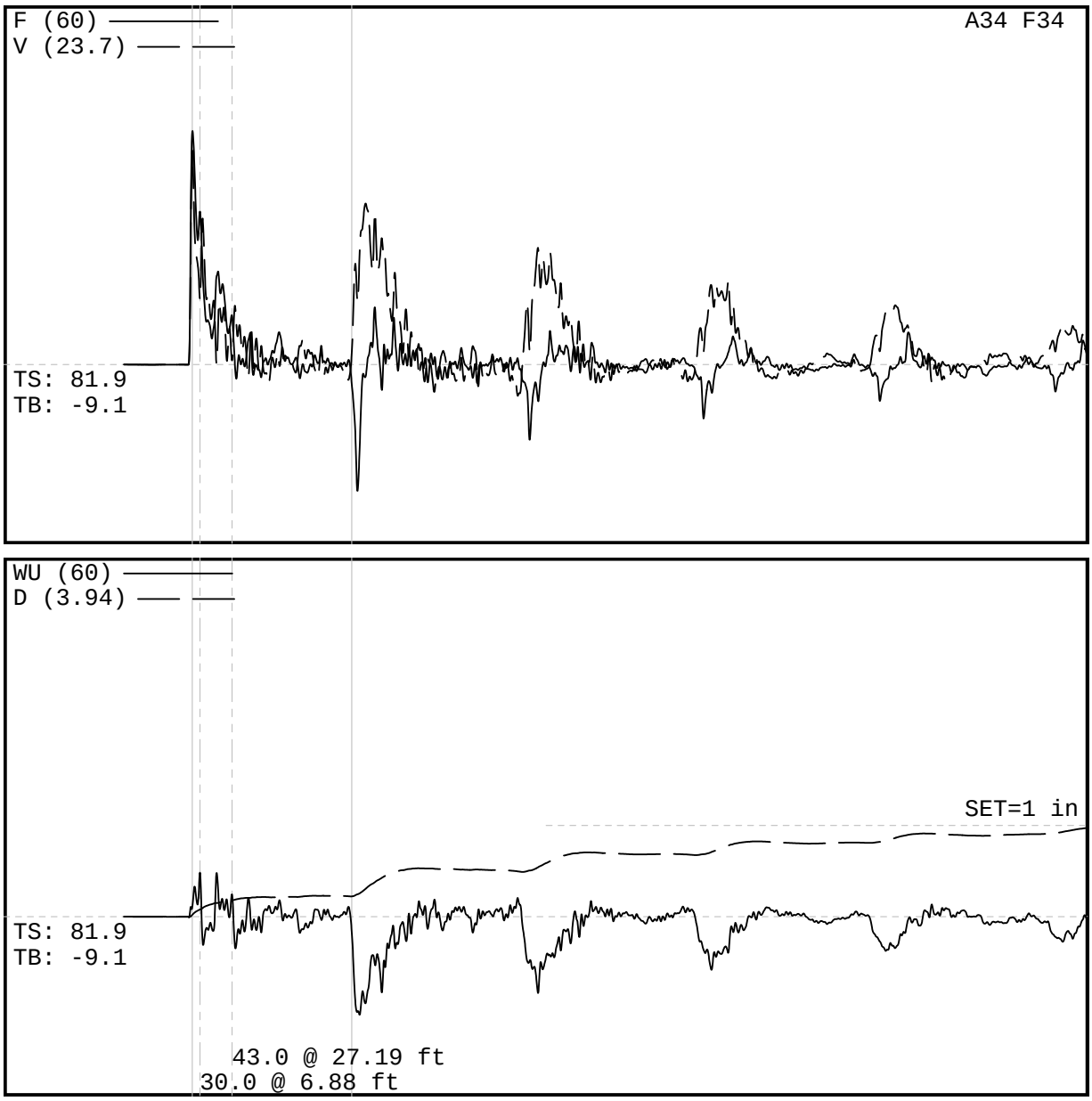
9-46 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 78.5 to 80.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

Time Summary

Drive 53 seconds 10:08 AM - 10:09 AM BN 1 - 46

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 83.5 to 85.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 83.5 to 8
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 83.5 to 85.0 ft
9/28/2016 10:33:36 AM
Blow Number 1

Pile Properties

LE	101.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	12.04	ms
JC		[]
LP	83.55	ft

Quantity Results

CSX	27.50	ksi
CSI f	27.93	ksi
EMX	0.3	k-ft
ETR	85.0	(%)
BPM	1.9	bpm
FMX	39	kips
VMX	14.1	f/s
QNV	0.00	[]
QNV	0.00	[]

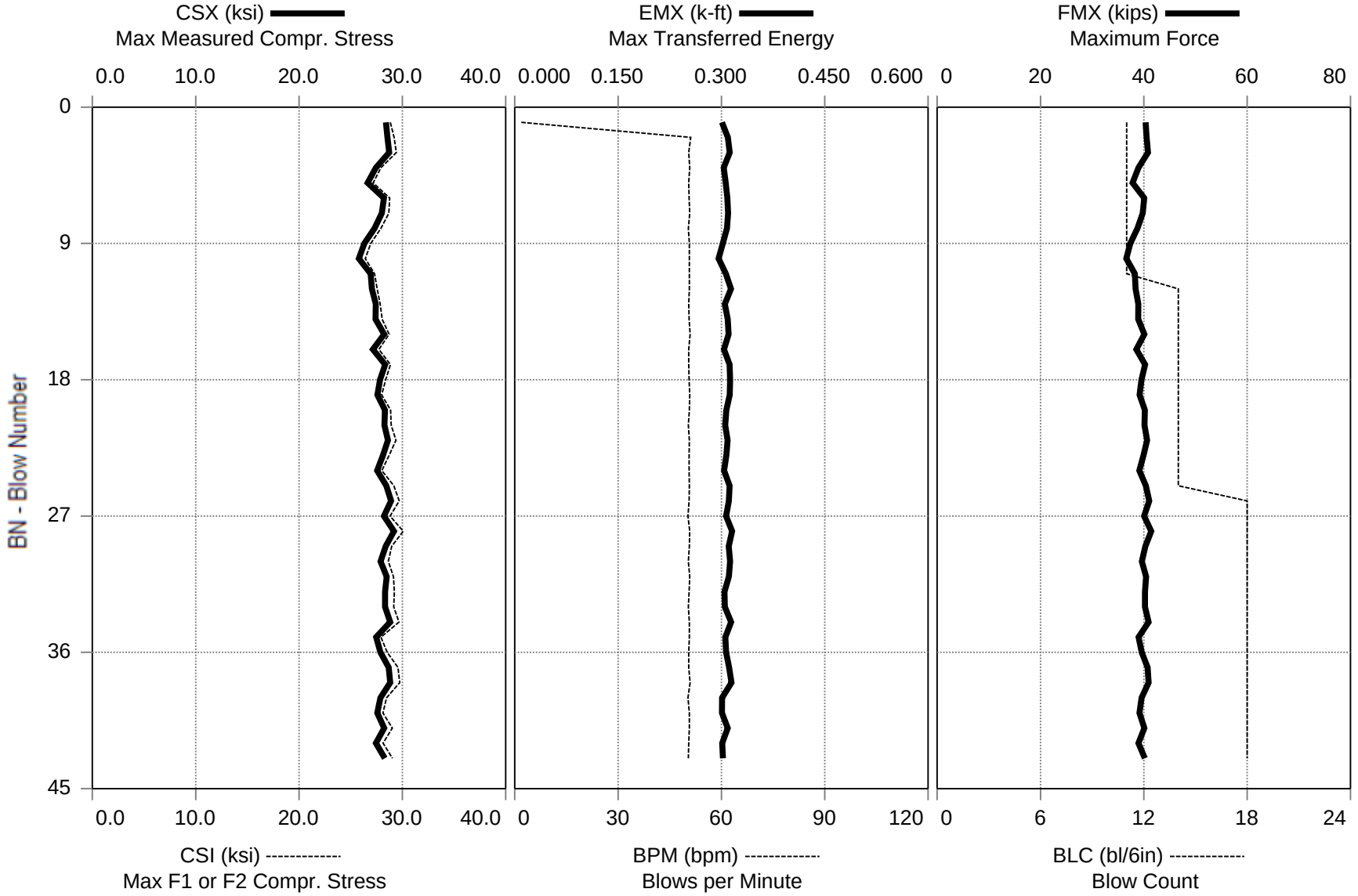
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 83.5 to 85.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 83.5 to 85.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 101.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
11	84.00	11	AV11	27.5	28.1	0.306	87.3	46.2	39	14.2
			MAX	28.7	29.4	0.312	89.1	51.1	41	15.0
25	84.50	14	AV14	27.9	28.4	0.309	88.2	50.6	40	14.7
			MAX	28.6	29.4	0.314	89.7	50.9	41	15.1
43	85.00	18	AV18	28.3	29.0	0.308	88.0	50.6	40	15.0
			MAX	29.2	30.1	0.316	90.2	50.9	41	15.7
			Average	27.9	28.6	0.308	87.9	49.5	40	14.7
			Maximum	29.2	30.1	0.316	90.2	51.1	41	15.7

Total number of blows analyzed: 43

BL# Sensors

1-43 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 49 seconds 10:33 AM - 10:34 AM BN 1 - 43

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 83.5 to 85.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 101.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
12	84.04	14	27.0	27.6	0.314	89.7	50.7	38	14.0
13	84.07	14	27.4	27.9	0.305	87.1	50.5	39	14.4
14	84.11	14	27.4	28.0	0.309	88.3	50.6	39	14.3
15	84.14	14	28.2	28.7	0.310	88.7	50.9	40	14.8
16	84.18	14	27.2	27.7	0.304	86.8	50.5	39	14.6
17	84.21	14	28.3	28.8	0.312	89.1	50.5	40	14.7
18	84.25	14	27.8	28.4	0.312	89.3	50.6	40	14.9
19	84.29	14	27.6	28.0	0.312	89.2	50.8	39	14.4
20	84.32	14	28.3	28.9	0.307	87.7	50.7	40	14.7
21	84.36	14	28.3	28.9	0.305	87.3	50.4	40	14.8
22	84.39	14	28.6	29.4	0.309	88.3	50.7	41	15.1
23	84.43	14	28.1	28.7	0.307	87.7	50.6	40	15.1
24	84.46	14	27.6	28.0	0.304	86.8	50.6	39	14.4
25	84.50	14	28.4	29.2	0.312	89.1	50.7	40	15.0
26	84.53	18	28.9	29.7	0.311	88.8	50.6	41	15.1
27	84.56	18	28.2	28.8	0.307	87.7	50.3	40	15.0
28	84.58	18	29.2	30.1	0.316	90.2	50.8	41	15.3
29	84.61	18	28.4	29.0	0.311	88.7	50.7	40	14.7
30	84.64	18	27.9	28.6	0.313	89.3	50.4	40	14.7
31	84.67	18	28.5	29.1	0.311	88.8	50.8	40	15.0
32	84.69	18	28.3	29.2	0.304	87.0	50.6	40	15.0
33	84.72	18	28.3	29.2	0.305	87.1	50.4	40	15.0
34	84.75	18	28.8	29.7	0.314	89.7	50.7	41	15.2
35	84.78	18	27.5	27.9	0.306	87.3	50.7	39	14.1
36	84.81	18	27.9	28.5	0.307	87.7	50.5	40	14.6
37	84.83	18	28.7	29.6	0.311	88.9	50.5	41	15.2
38	84.86	18	28.8	29.7	0.315	89.9	50.9	41	15.2
39	84.89	18	27.9	28.5	0.301	86.0	50.3	40	15.1
40	84.92	18	27.6	28.1	0.301	85.9	50.7	39	14.3
41	84.94	18	28.2	29.0	0.309	88.3	50.7	40	15.7
42	84.97	18	27.4	28.1	0.301	86.0	50.5	39	15.1
43	85.00	18	28.3	29.0	0.302	86.3	50.4	40	15.4
		Average	28.1	28.8	0.308	88.1	50.6	40	14.8
		Maximum	29.2	30.1	0.316	90.2	50.9	41	15.7

Total number of blows analyzed: 32

BL# Sensors

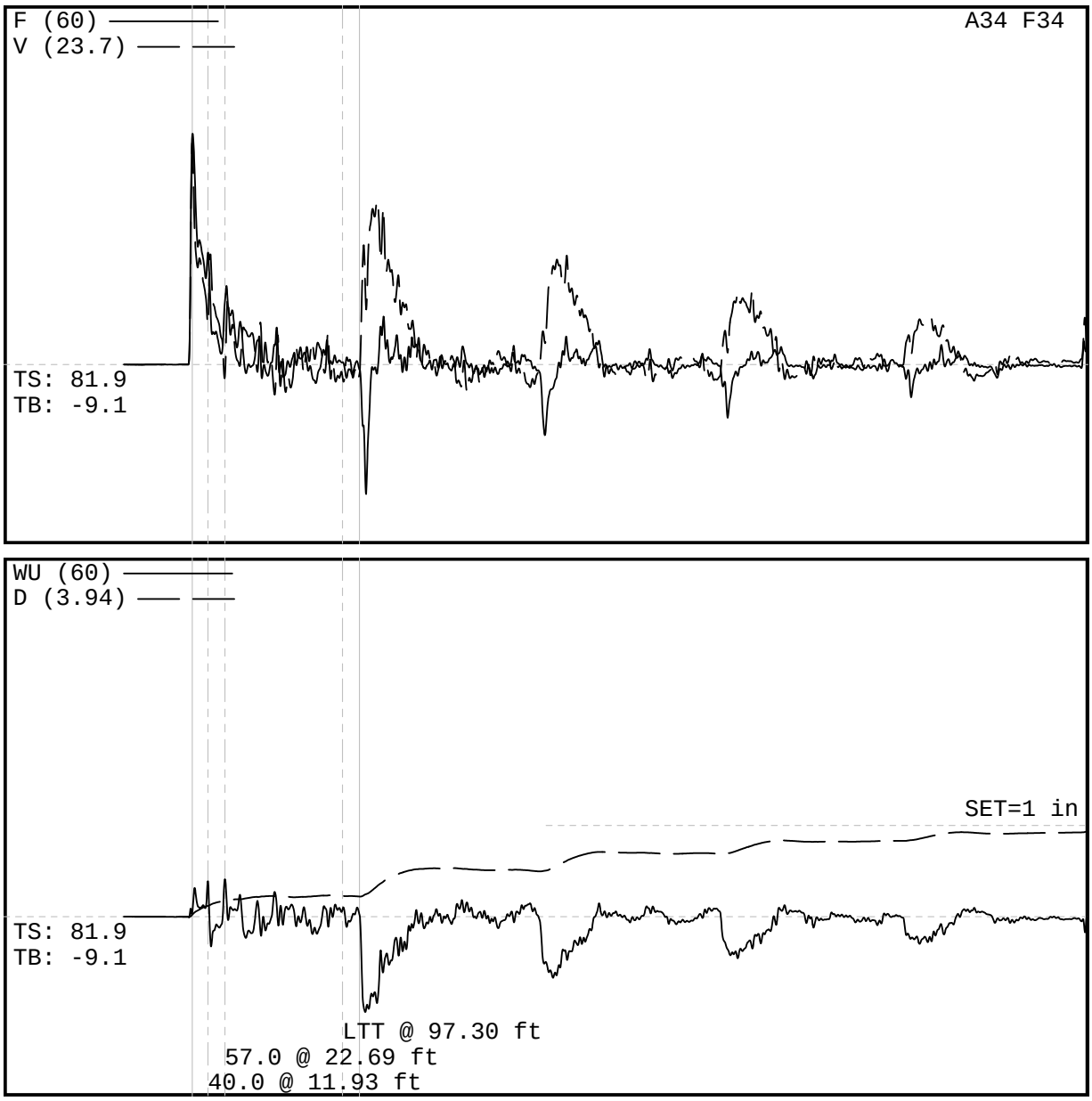
12-43 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 83.5 to 85.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

Time Summary

Drive 49 seconds 10:33 AM - 10:34 AM BN 1 - 43

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 88.5 to 90.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 88.5 to 9
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 88.5 to 90.0 ft
9/28/2016 10:51:53 AM
Blow Number 1

Pile Properties

LE	106.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	12.62	ms
JC		[]
LP	88.55	ft

Quantity Results

CSX	27.17	ksi
CSI f	27.38	ksi
EMX	0.3	k-ft
ETR	86.6	(%)
BPM	1.9	bpm
FMX	39	kips
VMX	14.6	f/s
QNV	0.00	[]
QNV	0.00	[]

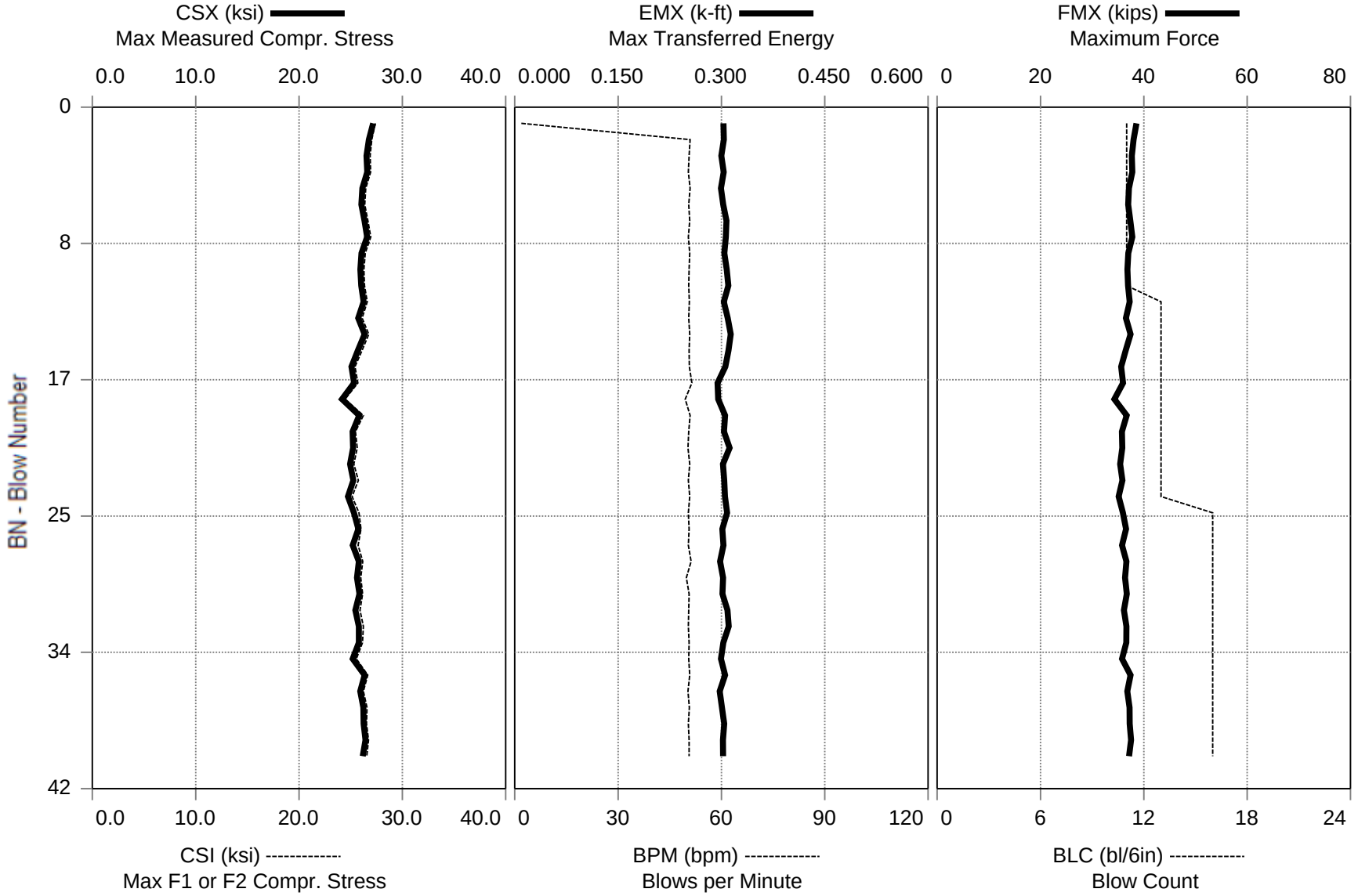
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 88.5 to 90.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 88.5 to 90.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 106.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
11	89.00	11	AV11	26.4	26.7	0.304	86.9	46.2	37	15.3
			MAX	27.2	27.4	0.310	88.6	50.9	39	16.1
24	89.50	13	AV13	25.4	25.7	0.305	87.1	50.6	36	15.6
			MAX	26.4	26.7	0.313	89.6	51.4	37	16.4
40	90.00	16	AV16	25.8	26.2	0.303	86.6	50.5	37	15.5
			MAX	26.4	26.7	0.311	88.8	51.2	38	16.5
			Average	25.8	26.2	0.304	86.8	49.4	37	15.5
			Maximum	27.2	27.4	0.313	89.6	51.4	39	16.5

Total number of blows analyzed: 40

BL# Sensors

1-40 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 46 seconds 10:51 AM - 10:52 AM BN 1 - 40

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 88.5 to 90.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 106.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
12	89.04	13	26.2	26.6	0.303	86.7	50.7	37	15.8
13	89.08	13	25.7	26.1	0.309	88.3	50.5	37	16.4
14	89.12	13	26.4	26.7	0.313	89.6	50.8	37	16.2
15	89.15	13	25.7	26.1	0.310	88.6	50.6	36	15.8
16	89.19	13	25.1	25.4	0.306	87.4	50.7	36	15.7
17	89.23	13	25.3	25.7	0.294	84.1	51.4	36	15.6
18	89.27	13	24.2	24.5	0.295	84.4	49.5	34	14.6
19	89.31	13	25.8	26.2	0.305	87.2	50.9	37	16.0
20	89.35	13	25.2	25.5	0.304	86.8	50.5	36	15.3
21	89.38	13	25.2	25.6	0.312	89.1	50.3	36	15.9
22	89.42	13	24.9	25.3	0.302	86.3	50.8	35	14.0
23	89.46	13	25.3	25.7	0.304	86.9	50.4	36	16.4
24	89.50	13	24.7	25.1	0.305	87.2	50.8	35	15.1
25	89.53	16	25.3	25.8	0.308	88.1	50.4	36	16.5
26	89.56	16	25.7	26.0	0.301	86.1	50.6	37	14.6
27	89.59	16	25.2	25.7	0.303	86.6	50.4	36	15.7
28	89.63	16	25.8	26.2	0.298	85.2	51.2	37	15.0
29	89.66	16	25.6	26.0	0.302	86.4	49.8	36	15.8
30	89.69	16	25.8	26.2	0.301	86.1	50.6	37	15.2
31	89.72	16	25.5	25.9	0.309	88.2	50.5	36	16.1
32	89.75	16	25.8	26.2	0.311	88.8	50.4	37	15.9
33	89.78	16	25.8	26.1	0.303	86.5	50.6	37	15.8
34	89.81	16	25.2	25.5	0.299	85.5	50.5	36	15.8
35	89.84	16	26.4	26.6	0.305	87.2	50.8	37	14.9
36	89.88	16	25.9	26.2	0.297	85.0	50.3	37	15.0
37	89.91	16	26.2	26.6	0.301	85.9	50.7	37	15.3
38	89.94	16	26.2	26.5	0.304	86.9	50.4	37	15.4
39	89.97	16	26.4	26.7	0.302	86.3	50.6	38	15.2
40	90.00	16	26.2	26.6	0.302	86.4	50.6	37	15.2
		Average	25.6	26.0	0.304	86.8	50.6	36	15.5
		Maximum	26.4	26.7	0.313	89.6	51.4	38	16.5

Total number of blows analyzed: 29

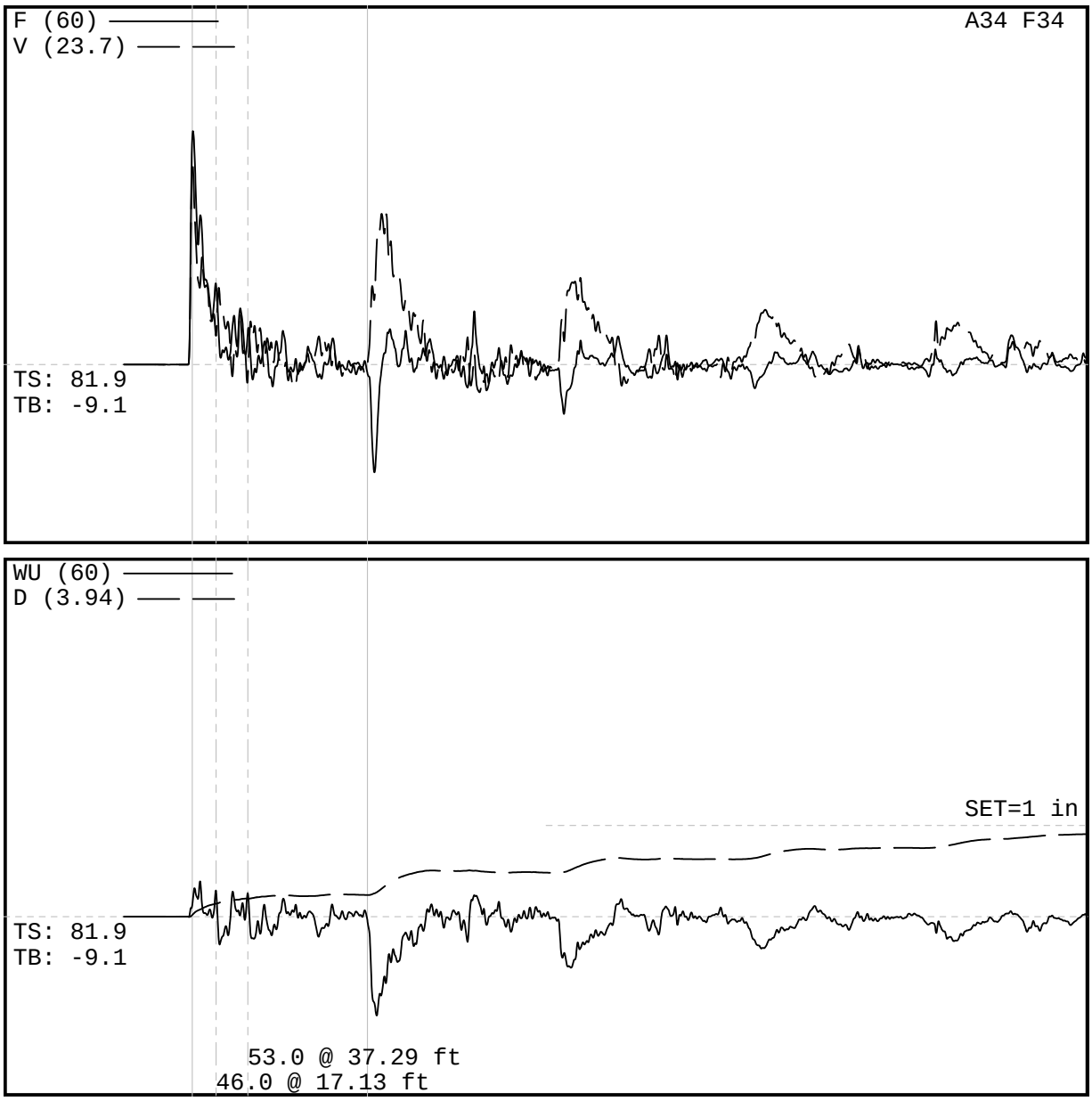
BL# Sensors

12-40 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 46 seconds 10:51 AM - 10:52 AM BN 1 - 40

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 93.5 to 95.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 93.5 to 9
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 93.5 to 95.0 ft
9/28/2016 11:26:27 AM
Blow Number 1

Pile Properties

LE	111.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	13.22	ms
JC	[]	
LP	93.54	ft

Quantity Results

CSX	27.47	ksi
CSI f	27.80	ksi
EMX	0.3	k-ft
ETR	86.5	(%)
BPM	1.9	bpm
FMX	39	kips
VMX	13.5	f/s
QNV	0.00	[]
QNV	0.00	[]

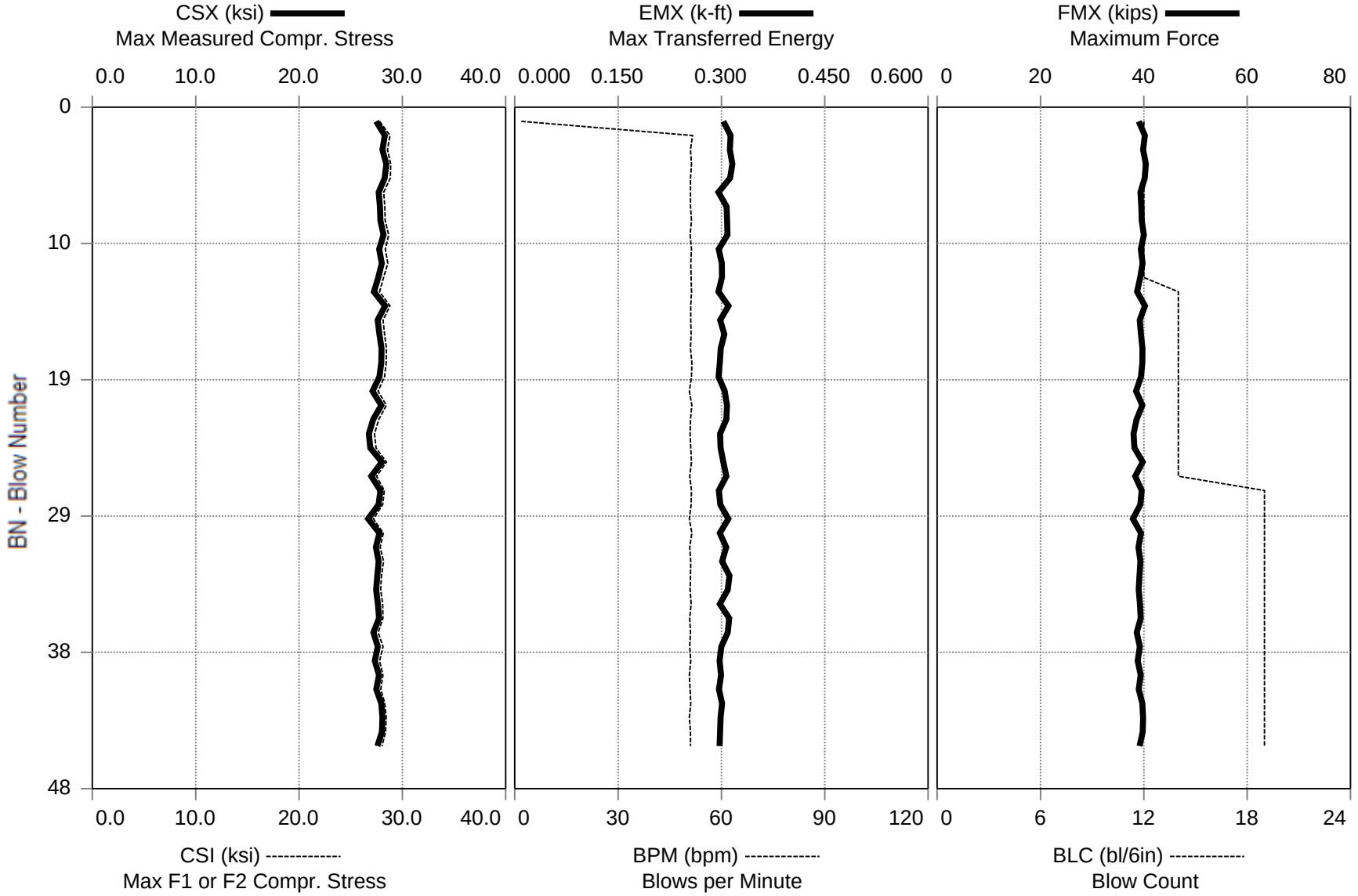
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 93.5 to 95.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 93.5 to 95.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 111.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
12	94.00	12	AV12	28.0	28.5	0.306	87.5	47.1	40	14.4
			MAX	28.4	28.9	0.316	90.3	51.6	40	15.0
26	94.50	14	AV14	27.5	28.0	0.302	86.3	51.1	39	14.1
			MAX	28.3	28.8	0.310	88.6	51.4	40	14.8
45	95.00	19	AV19	27.6	28.0	0.302	86.3	51.0	39	14.3
			MAX	28.1	28.4	0.312	89.0	51.4	40	14.7
			Average	27.7	28.1	0.303	86.6	50.0	39	14.3
			Maximum	28.4	28.9	0.316	90.3	51.6	40	15.0

Total number of blows analyzed: 45

BL# Sensors

1-45 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 51 seconds 11:26 AM - 11:27 AM BN 1 - 45

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 93.5 to 95.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 111.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
13	94.04	14	27.2	27.8	0.296	84.5	51.3	39	13.8
14	94.07	14	28.3	28.8	0.310	88.6	51.1	40	14.7
15	94.11	14	27.6	28.1	0.298	85.2	51.1	39	14.0
16	94.14	14	27.8	28.3	0.304	86.9	51.2	39	14.0
17	94.18	14	28.0	28.5	0.299	85.4	51.0	40	14.8
18	94.21	14	28.0	28.4	0.298	85.0	51.4	40	14.6
19	94.25	14	27.8	28.3	0.296	84.5	51.3	39	14.7
20	94.29	14	27.1	27.6	0.305	87.1	50.7	38	13.5
21	94.32	14	28.0	28.4	0.308	88.0	51.4	40	14.8
22	94.36	14	27.2	27.7	0.307	87.7	51.0	39	13.8
23	94.39	14	26.8	27.3	0.298	85.1	50.9	38	13.3
24	94.43	14	26.9	27.5	0.299	85.4	51.1	38	13.4
25	94.46	14	28.0	28.5	0.303	86.5	51.3	40	14.6
26	94.50	14	27.0	27.5	0.307	87.7	50.8	38	14.0
27	94.53	19	27.9	28.2	0.296	84.6	51.3	40	14.6
28	94.55	19	27.7	28.1	0.298	85.3	51.2	39	14.5
29	94.58	19	26.7	27.2	0.310	88.6	50.7	38	13.3
30	94.61	19	27.8	28.2	0.298	85.0	51.4	39	14.5
31	94.63	19	27.4	27.8	0.307	87.7	50.8	39	14.4
32	94.66	19	27.7	28.2	0.301	86.0	51.1	39	14.5
33	94.68	19	27.6	28.0	0.312	89.0	51.0	39	14.5
34	94.71	19	27.5	27.9	0.309	88.3	50.9	39	14.3
35	94.74	19	27.6	28.1	0.298	85.1	51.2	39	14.4
36	94.76	19	27.7	28.1	0.311	88.9	50.8	39	14.5
37	94.79	19	27.2	27.7	0.309	88.3	51.0	39	14.0
38	94.82	19	27.6	28.1	0.300	85.7	50.8	39	14.4
39	94.84	19	27.3	27.8	0.297	84.9	51.1	39	14.1
40	94.87	19	27.7	28.1	0.299	85.5	50.7	39	14.5
41	94.89	19	27.5	27.9	0.296	84.7	50.9	39	14.3
42	94.92	19	28.0	28.3	0.301	86.0	51.1	40	14.7
43	94.95	19	28.1	28.4	0.299	85.3	50.7	40	14.6
44	94.97	19	28.0	28.4	0.298	85.2	51.0	40	14.6
45	95.00	19	27.6	28.0	0.297	84.9	51.0	39	14.0
		Average	27.6	28.0	0.302	86.3	51.0	39	14.3
		Maximum	28.3	28.8	0.312	89.0	51.4	40	14.8

Total number of blows analyzed: 33

BL# Sensors

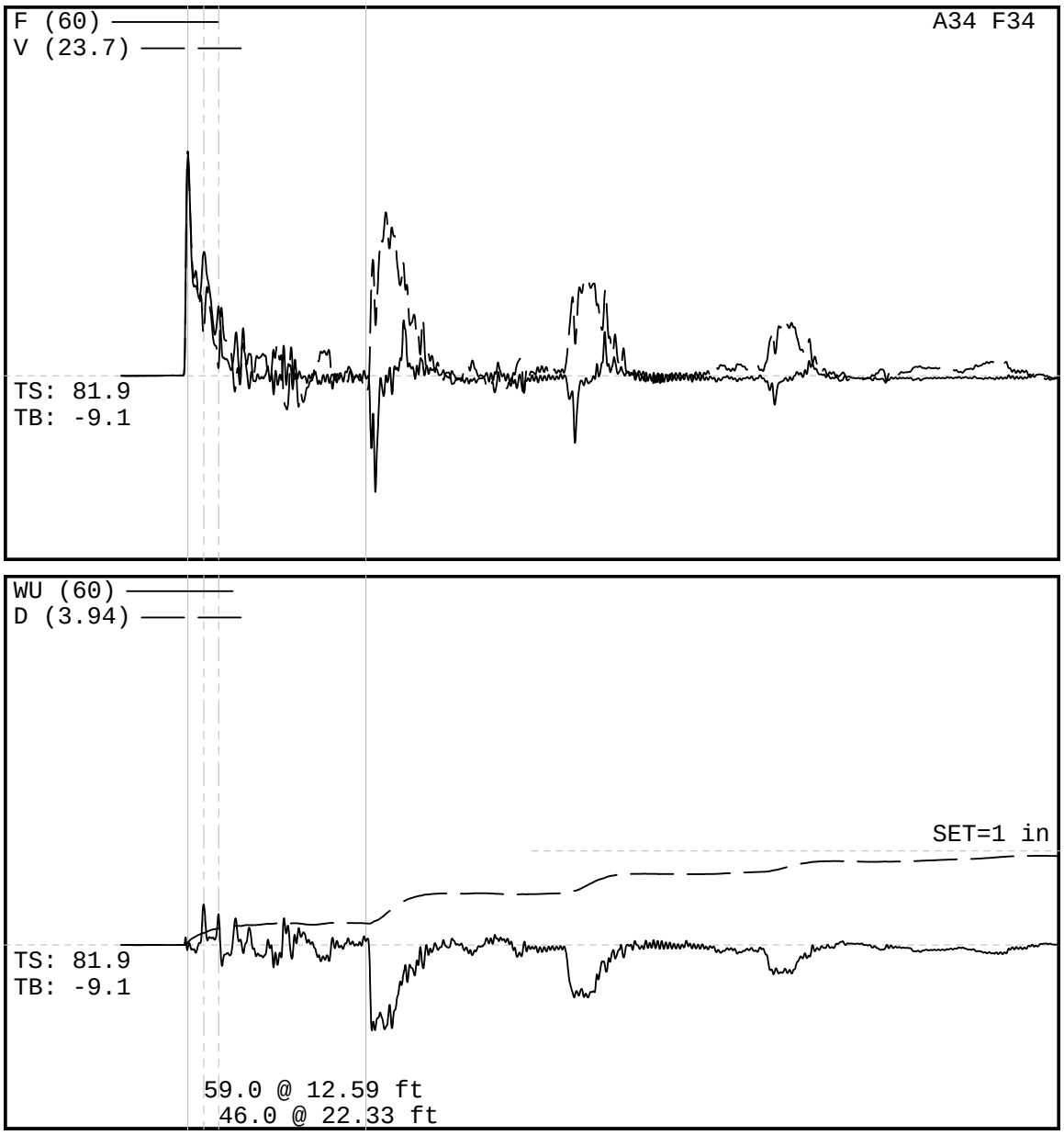
13-45 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 93.5 to 95.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

Time Summary

Drive 51 seconds 11:26 AM - 11:27 AM BN 1 - 45

Thompson Engineering SPT Calibration CME 550X (SN 327443) - 98.5 to 100.0 ft



Project Information

PROJECT: Thompson Engineering SPT Calibratic
PILE NAME: CME 550X (SN 327443) - 98.5 to 1
DESCR: NWJ Rod - Mud Rotary
OPERATOR: MBP
FILE: CME 550X (SN 327443) - 98.5 to 100.0 ft
9/28/2016 11:50:26 AM
Blow Number 32

Pile Properties

LE	116.00	ft
AR	1.42	in^2
EM	30000	ksi
SP	0.492	k/ft3
WS	16807.9	f/s
EA/C	2.5	ksec/ft
2L/C	13.82	ms
JC		[]
LP	100.00	ft

Quantity Results

CSX	25.12	ksi
CSI0	25.34	ksi
EMX	0.3	k-ft
ETR	86.5	(%)
BPM	51.0	bpm
FMX	36	kips
VMX	14.4	f/s
QNV	0.00	[]
QNV	0.00	[]

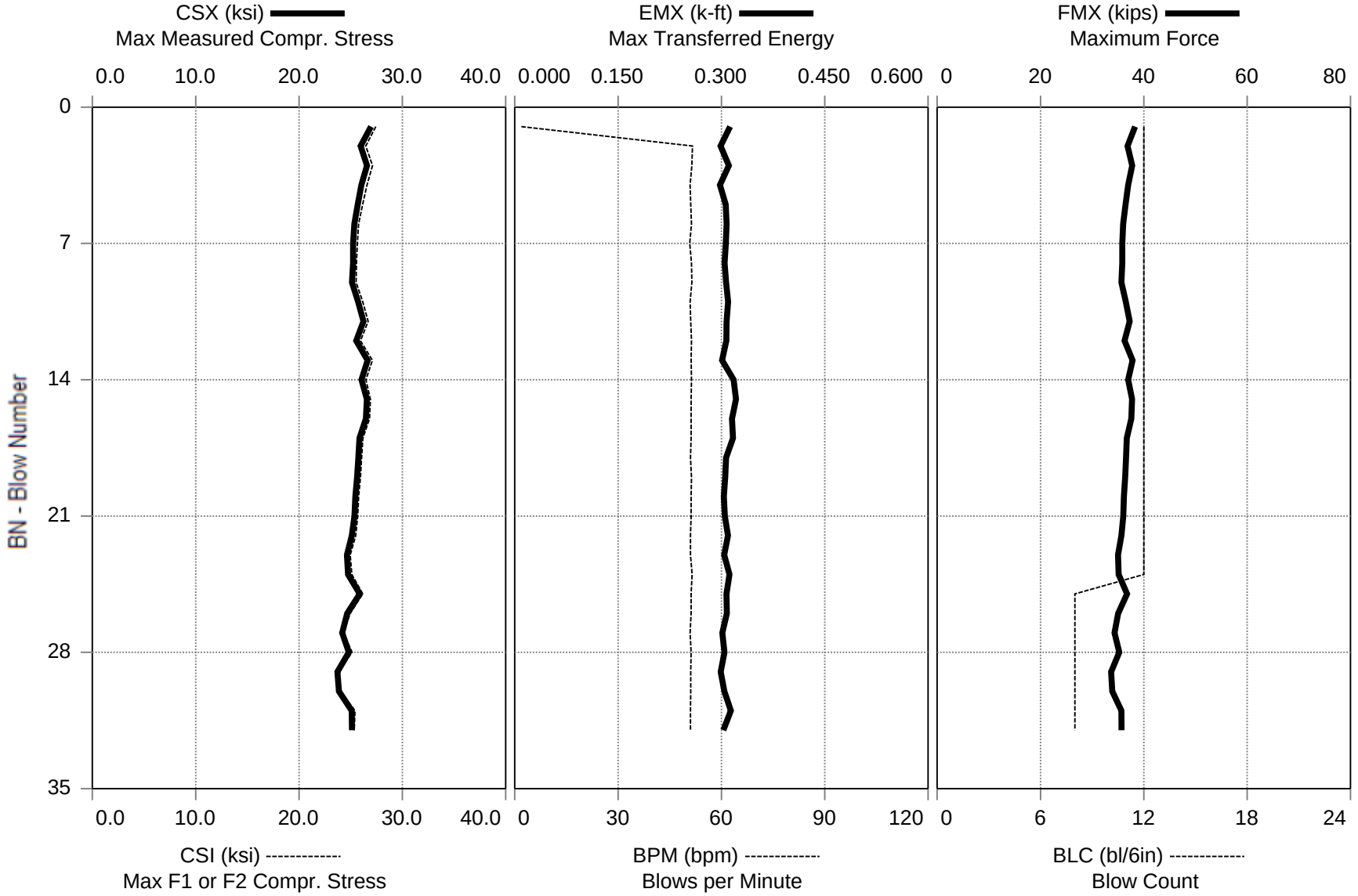
Sensors

F3: [413 NWJ-2] 213.94 (1)
F4: [413 NWJ-1] 212.28 (1)
A3: [K4676] 390 mv/5000g's (1)
A4: [K4120] 388 mv/5000g's (1)
CLIP: OK

Nagy Engineers, Inc. - PDIPLOT2 Ver 2016.1.56.1 - Case Method & iCAP® Results

Printed: 29-September-2016 Test started: 28-September-2016

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 98.5 to 100.0 ft - NWJ Rod - Mud Rotary



Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 98.5 to 100.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 116.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	TYPE	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
12	99.00	12	AV12	25.8	26.2	0.306	87.5	47.1	37	15.5
			MAX	27.0	27.4	0.313	89.3	51.6	38	16.0
24	99.50	12	AV12	25.7	26.0	0.310	88.5	51.2	36	16.2
			MAX	26.6	27.1	0.321	91.7	51.5	38	17.1
32	100.00	8	AV8	24.7	24.9	0.305	87.1	51.1	35	15.9
			MAX	25.9	26.2	0.314	89.6	51.2	37	16.8
			Average	25.5	25.8	0.307	87.8	49.6	36	15.9
			Maximum	27.0	27.4	0.321	91.7	51.6	38	17.1

Total number of blows analyzed: 32

BL# Sensors

1-32 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 36 seconds 11:49 AM - 11:50 AM BN 1 - 32

Thompson Engineering SPT Calibration - CME 550X (SN 327443) - 98.5 to 100.0 ft NWJ Rod - Mud Rotary
OP: MBP Date: 28-September-2016

AR: 1.42 in² SP: 0.492 k/ft³
LE: 116.00 ft EM: 30,000 ksi
WS: 16,807.9 f/s JC: 0.00 []

CSX: Max Measured Compr. Stress BPM: Blows per Minute
CSI: Max F1 or F2 Compr. Stress FMX: Maximum Force
EMX: Max Transferred Energy VMX: Maximum Velocity
ETR: Energy Transfer Ratio

BL#	Depth ft	BLC bl/6in	CSX ksi	CSI ksi	EMX k-ft	ETR (%)	BPM bpm	FMX kips	VMX f/s
13	99.04	12	26.6	27.1	0.301	86.0	51.2	38	15.5
14	99.08	12	26.0	26.5	0.318	90.8	51.3	37	16.2
15	99.13	12	26.6	26.9	0.321	91.7	51.2	38	16.0
16	99.17	12	26.5	26.8	0.315	90.1	51.2	38	16.0
17	99.21	12	25.9	26.2	0.317	90.5	51.2	37	16.4
18	99.25	12	25.7	26.1	0.307	87.6	51.0	37	15.9
19	99.29	12	25.6	25.9	0.306	87.3	51.3	36	16.0
20	99.33	12	25.5	25.8	0.304	86.7	51.2	36	15.9
21	99.38	12	25.4	25.7	0.305	87.1	51.2	36	16.0
22	99.42	12	25.1	25.5	0.309	88.4	51.0	36	16.6
23	99.46	12	24.6	24.9	0.304	86.8	51.0	35	16.7
24	99.50	12	24.7	25.1	0.312	89.1	51.5	35	17.1
25	99.56	8	25.9	26.2	0.307	87.8	51.2	37	15.9
26	99.63	8	24.7	25.0	0.308	88.0	51.2	35	16.8
27	99.69	8	24.2	24.3	0.301	86.1	50.9	34	15.2
28	99.75	8	24.8	25.1	0.304	87.0	51.2	35	16.7
29	99.81	8	23.7	23.8	0.299	85.4	51.1	34	15.4
30	99.88	8	23.9	24.0	0.304	86.9	51.1	34	15.9
31	99.94	8	25.1	25.4	0.314	89.6	51.0	36	16.8
32	100.00	8	25.1	25.3	0.303	86.5	51.0	36	14.4
		Average	25.3	25.6	0.308	88.0	51.2	36	16.1
		Maximum	26.6	27.1	0.321	91.7	51.5	38	17.1

Total number of blows analyzed: 20

BL# Sensors

13-32 F3: [413 NWJ-2] 213.9 (1.00); F4: [413 NWJ-1] 212.3 (1.00); A3: [K4676] 390.0 (1.00); A4: [K4120] 388.0 (1.00)

Time Summary

Drive 36 seconds 11:49 AM - 11:50 AM BN 1 - 32

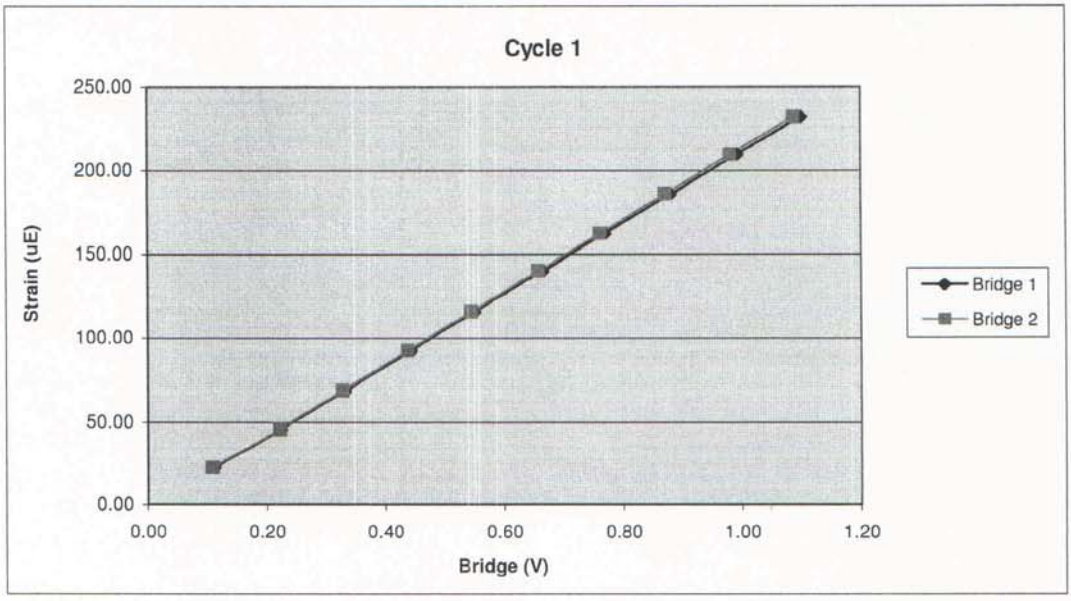
Appendix B

Dynamic Measurement Calibration Sheets

413NWJ		Cycle 1		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	990.99	22.25	0.11	0.11
3	2002.63	46.15	0.22	0.22
4	2988.10	69.17	0.33	0.33
5	3994.04	92.72	0.44	0.44
6	4963.98	115.99	0.55	0.54
7	5994.11	140.04	0.66	0.66
8	6930.41	162.12	0.77	0.76
9	7939.49	185.78	0.88	0.87
10	8950.34	209.60	0.99	0.98
11	9926.18	232.15	1.10	1.09

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**9036.37**	**Force Calibration (lb/V)**	**9125.33**
Offset	-9.46	Offset	-2.08
Correlation	1.000000	Correlation	0.999997
Strain Calibration (µE/V)	**212.51**	**Strain Calibration (µE/V)**	**214.61**
Offset	-1.22	Offset	-1.05
Correlation	0.999996	Correlation	0.999998

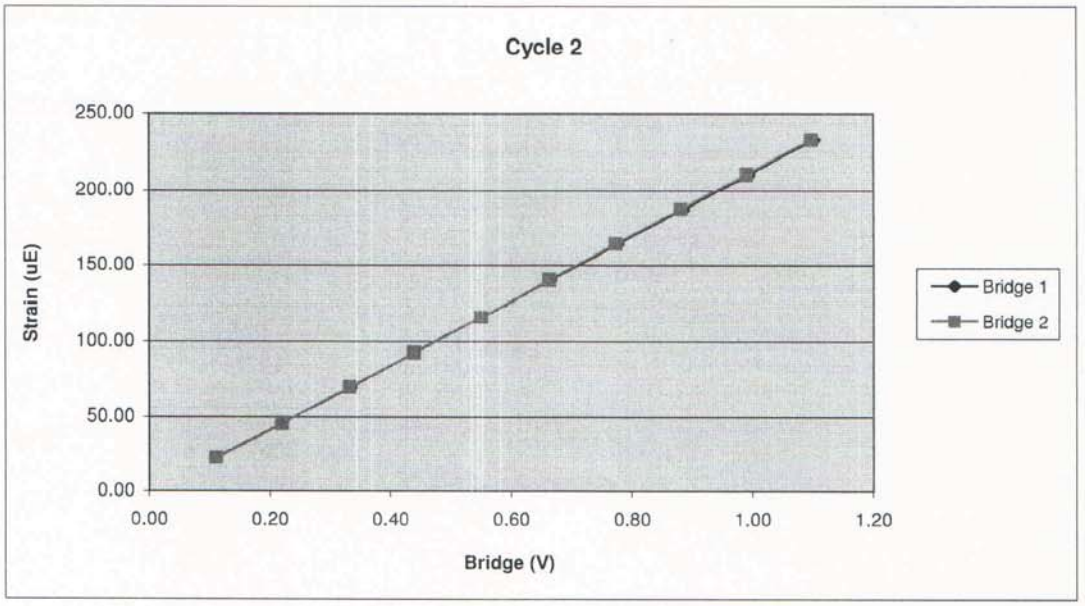
Force Strain Calibration	
EA (Kips)	**42521.15**
Offset	42.49
Correlation	0.999997



413NWJ		Cycle 2		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	987.05	22.73	0.11	0.11
3	1966.04	45.88	0.22	0.22
4	2986.33	69.92	0.33	0.33
5	3951.35	92.68	0.44	0.44
6	4949.03	116.49	0.55	0.55
7	5960.47	140.42	0.66	0.66
8	6953.03	163.97	0.78	0.77
9	7934.77	187.50	0.88	0.88
10	8928.90	210.76	0.99	0.99
11	9905.13	233.34	1.10	1.10

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**8992.65**	**Force Calibration (lb/V)**	**9034.81**
Offset	**-7.95**	Offset	**-19.15**
Correlation	**0.999996**	Correlation	**0.999998**
Strain Calibration (µE/V)	**212.81**	**Strain Calibration (µE/V)**	**213.81**
Offset	**-0.84**	Offset	**-1.11**
Correlation	**0.999997**	Correlation	**0.999996**

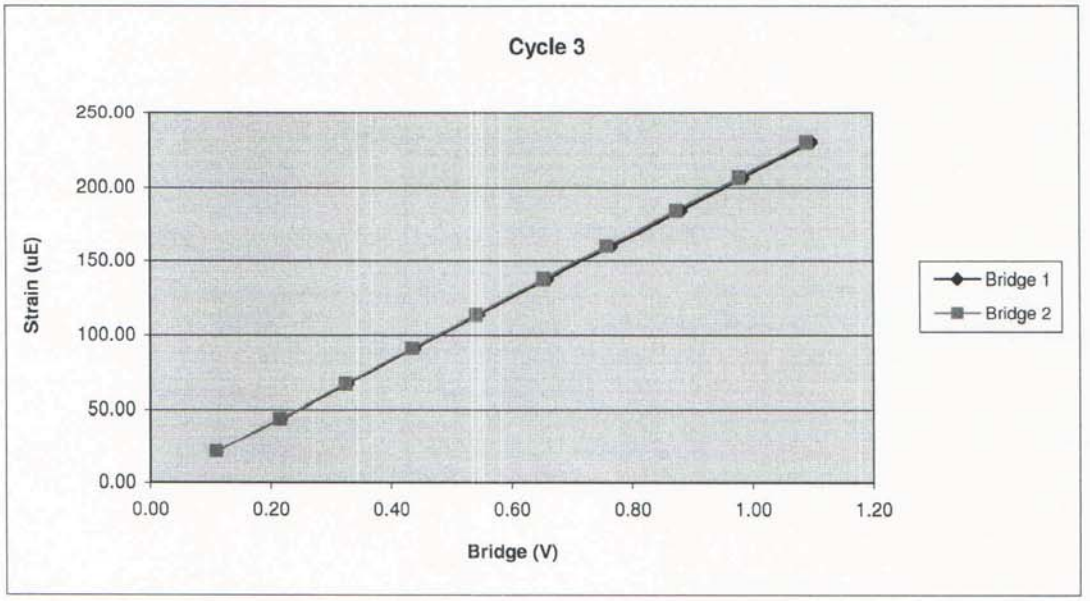
Force Strain Calibration	
EA (Kips)	**42256.93**
Offset	**27.76**
Correlation	**0.999996**



413NWJ		Cycle 3		
Sample	**Force (lb)**	**Strain (µE)**	**Bridge 1 (V)**	**Bridge 2 (V)**
1	0.00	0.00	0.00	0.00
2	978.00	21.53	0.11	0.11
3	1923.94	43.44	0.22	0.21
4	2938.53	67.46	0.33	0.32
5	3944.67	91.22	0.44	0.44
6	4898.87	113.58	0.54	0.54
7	5921.72	137.82	0.66	0.65
8	6874.74	160.10	0.77	0.76
9	7926.90	184.40	0.88	0.87
10	8859.86	206.60	0.98	0.98
11	9889.59	230.60	1.10	1.09

Bridge 1		**Bridge 2**	
Force Calibration (lb/V)	**9008.15**	**Force Calibration (lb/V)**	**9088.85**
Offset	**-7.86**	Offset	**-13.21**
Correlation	**0.999998**	Correlation	**0.999998**
Strain Calibration (µE/V)	**211.51**	**Strain Calibration (µE/V)**	**213.41**
Offset	**-1.67**	Offset	**-1.80**
Correlation	**0.999995**	Correlation	**0.999993**

Force Strain Calibration	
EA (Kips)	**42588.80**
Offset	**63.31**
Correlation	**0.999997**



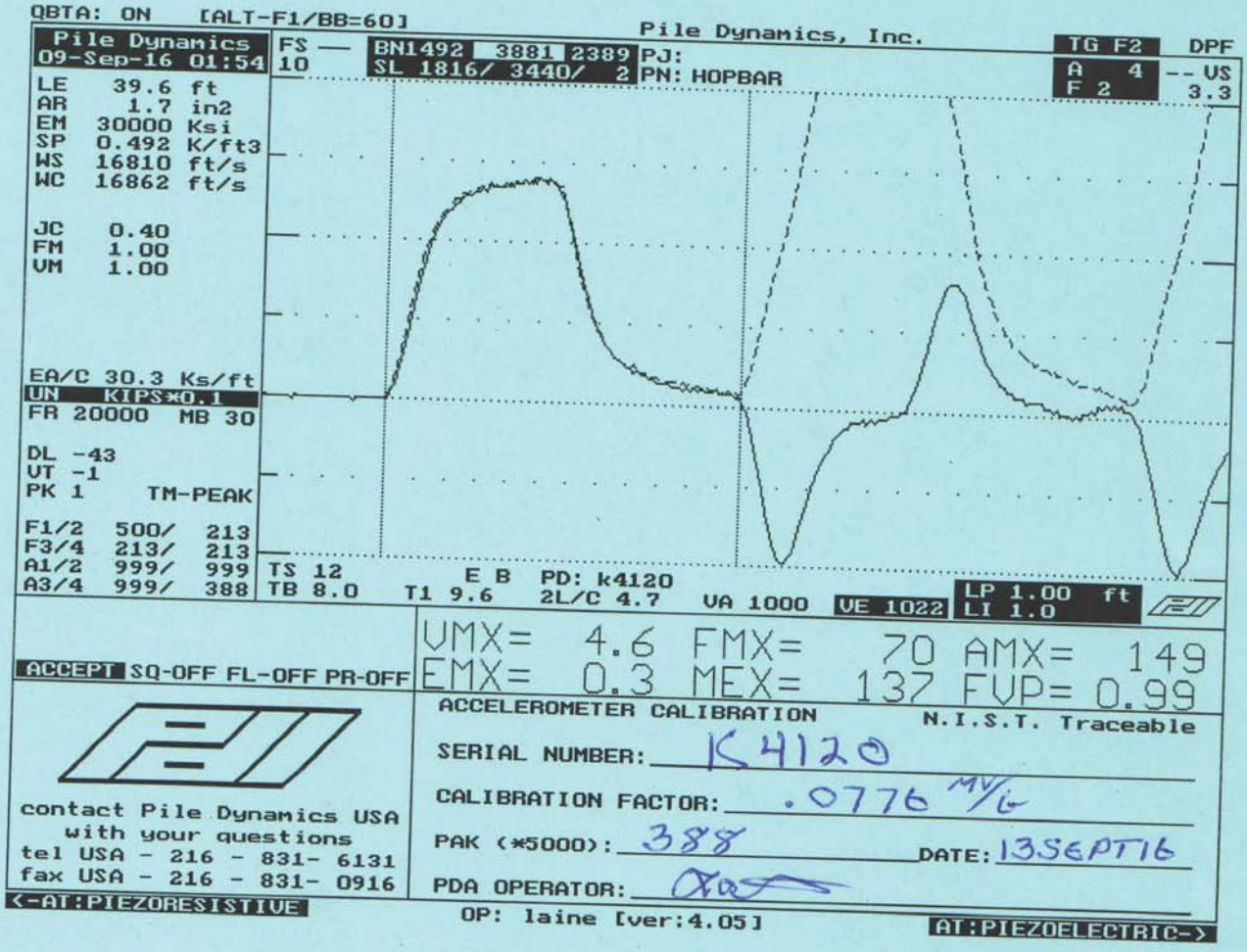
Bridge Excitation (V) 5
Shunt Resitor (ohm) 60.4k

Calibration Factors	413NWJ		
Bridge 1 (µE/V)	212.28	Bridge 2 (µE/V)	213.94
EA Factor (Kips)	42455.63	Area (in^2)	1.42

Calibrated by: David Brunell
Calibrated Date: 6/10/2016

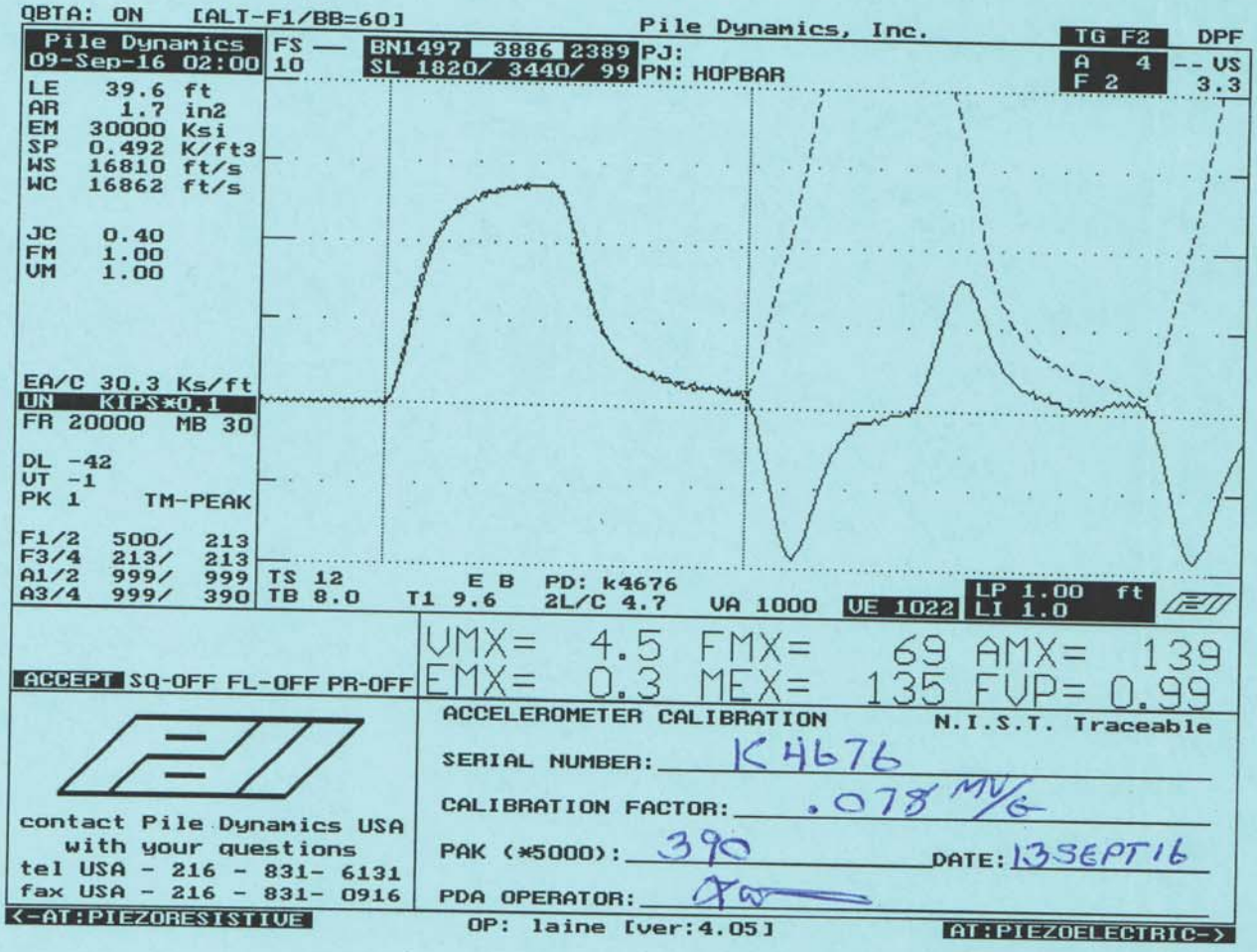
Pile Dynamics Inc
30725 Aurora Rd
Solon, OH 44139

Traceable to N.I.S.T.



Smart Sensor

Smart Chip Programmed By D.M.W. **on** 13SEPT16 **CRC Value** 2F02



Smart Sensor

Smart Chip Programmed By A.M.W **on** 13SEPT16 **CRC Value** C6ED