Geotechnical Data Report

Island Road Marsh Creation and
Nourishment (TE-117)
Terrebonne Parish, Louisiana

for

Louisiana Coastal Protection and Restoration Authority

July 15, 2015

GeoEngineers
Earth Science + Technology

Geotechnical Data Report

Island Road Marsh Creation and Nourishment (TE-117)
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for
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GeoEngineers

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Geotechnical Data Report

Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana

File No. 16715-040-00

July 15, 2015

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VT:CLE:lb

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INTRODUCTION

GeoEngineers, Inc. (GeoEngineers) is pleased to present this Geotechnical Data Report for the Island Road Marsh Creation and Nourishment (TE-117) project to Louisiana Coastal Protection and Restoration Authority (CPRA). The project is located in southeast Terrebonne Parish approximately 10 miles southeast of Montegut, Louisiana, immediately southwest of the Pointe-aux-Chênes marina located on Louisiana Highway 665, and immediately east-northeast of the Isle de Jean Charles marina located on Island Road. A map showing the project vicinity is shown on Figure 1, and field exploration locations are shown on Figure 2.

GeoEngineers' services were performed under contract between Louisiana Department of Natural Resources (DNR)/CPRA and GeoEngineers (DNR Contract No. 2503-14-26 and OCR Contract No. 109-400176 "Geotechnical Services for Coastal Restoration Projects", dated December 9, 2013), Task Order 8, Dated September 2, 2014. CPRA issued purchase order 2000084247 Version 3, dated November 6, 2014 for the project.

FIELD EXPLORATION

Field exploration for the TE-117 project included performing eighteen (18) CPT soundings (C-1 through C-18) and drilling seven (7) soil borings (B-1 through B-7). CPT soundings were completed from February 25, 2015 through March 3, 2015 using Geoprobe equipment mounted on an airboat. The soil borings were completed from March 18, 2015 through March 20, 2015 using a drill rig mounted on an airboat. The depth of the explorations varied from 20 to 50 feet below existing mudline (BM). CPRA provided the required permits to GeoEngineers for conducting the field exploration and the locations were staked in the field by Lonnie G. Harper & Associates, Inc. (LGH). Prior to staking the field explorations, LGH performed a magnetometer survey to clear a 30-foot radius at each location. Due to magnetometer anomalies detected at B-3, C-8 and C-10 locations, those explorations were offset and staked such that a 30-foot radius around the stakes was clear of magnetometer anomalies. A survey of field exploration locations including mudline elevation, water depth and location coordinates was provided by LGH prior to GeoEngineers mobilizing on-site. A copy of the survey report is provided in Appendix D. GeoEngineers coordinated with the landowners for site access and signed the required landowner agreements. GeoEngineers contacted the "One-Call" utility locator within the State of Louisiana 72 hours prior to performing the field exploration. GeoEngineers also coordinated with pipeline company representatives for field explorations (C-6 and C-10) close to pipelines. Both the locations were checked and cleared by the pipeline representatives. As an additional precaution, GeoEngineers probed around each soil boring and CPT sounding location to check for utilities and underground obstructions prior to advancing the explorations on-site. GeoEngineers offset exploration C-9 due to its proximity to the Island Road rip-rap protection. GeoEngineers also offset exploration C-16 because the original stake was in a channel with approximately 11 feet of water which exceeded the depth where the Geoprobe equipment mounted on an airboat could be stable to perform the sounding. C-16 was offset to a place where the water depth was about 6.5 feet. GeoEngineers field crew followed the direction of an oyster biologist from T. Baker Smith to access the field explorations daily. The oyster biologist lead

the way every day on their air boat and directed the crew travel between the marina and the field exploration locations, and while travelling between the field explorations.

CPT soundings were conducted using GeoProbe direct push equipment and Geotech AB cones, rods, and data collection software. The push unit was mounted to a single-engine airboat. CPT soundings were conducted in general accordance with applicable standards, including pushing a 1.4-inch diameter piezo-cone with pore pressure ring and sensor into the subgrade at a rate of approximately 2 centimeters per second and collecting tip pressure, side friction pressure, and pore pressure at one second intervals for the entire depth of the sounding. A summary of CPT sounding locations, including completion depth, is shown on Table 1.

TABLE 1. CPT SOUNDING LOCATION SUMMARY

Sounding Identification	Approximate Completion Depth (Feet Below Mudline)	Location As-Drilled[1]		
		Mudline Elevation (feet)	Latitude (North)	Longitude (West)
C-1	50	-3.2	N29° 24' 38.3"	W90° 26' 58.1"
C-2	30	-2.5	N29° 24' 22.8"	W90° 27' 03.3"
C-3	30	-2.8	N29° 24' 15.6"	W90° 27' 13.0"
C-4	50	-3.1	N29° 24' 30.6"	W90° 27' 39.3"
C-5	30	-2.2	N29° 24' 11.5"	W90° 27' 38.7"
C-6	30	-2.2	N29° 24' 17.8"	W90° 28' 01.6"
C-7	30	-2.5	N29° 24' 21.3"	W90° 28' 28.5"
C-8	50	-3.4	N29° 24' 27.8"	W90° 28' 56.4"
C-9	30	-3.2	N29° 24' 36.3"	W90° 29' 01.2"
C-10	30	-3.0	N29° 24' 25.1"	W90° 29' 18.4"
C-11	30	-1.5	N29° 24' 07.8"	W90° 29' 07.5"
C-12	30	-1.6	N29° 24' 04.1"	W90° 28' 35.5"
C-13	30	-3.2	N29° 23' 57.0"	W90° 28' 06.0"
C-14[2]	23.5	-2.2	N29° 23' 26.3"	W90° 28' 53.6"
C-15	30	-3.1	N29° 23' 08.6"	W90° 28' 43.5"
C-16	30	-6.5	N29° 22' 40.5"	W90° 28' 11.2"
C-17	30	-2.3	N29° 23' 00.4"	W90° 27' 40.6"
C-18	30	-2.8	N29° 22' 50.7"	W90° 27' 01.7"

[1] A few of the location coordinates for CPTs are different than the survey coordinates provided by LGH (Appendix D). The coordinates in the table above were recorded at the time and location the CPT sounding was completed. All CPTs except C-16 are within the 30 feet radius of the LGH survey location. C-16 is about 60 feet from the staked location.

[2] CPT probe met refusal in sand/silt layer; test was stopped before reaching proposed completion depth of 50 feet.

CPT soundings were completed to a depth varying from approximately 30 to 50 feet BM at all locations except C-14. At C-14, refusal in sand layers limited the depth of exploration to 23.5 feet BM. While obtaining the readings at CPT C-1, negative cone tip resistance was observed. Immediately after retrieving the cone, water bubbles were observed at the C-1 location. The field crew suspected trapped gas (methane/hydrogen sulfide) in the marsh deposits and due to safety concerns additional soundings were not performed at C-1 location. GeoEngineers was not certain if the trapped gas in the marsh distorted the CPT readings; however, the data could not be used to create a soil profile. GeoEngineers conferred with CPRA regarding C-1 at the end of the CPT explorations and prior to drilling the soil boring explorations. Upon discussion with CPRA, it was decided to move soil boring B-1 (originally intended to be drilled adjacent to C-1 location) adjacent to C-2 location. The soil borings at that point were re-labeled for continuity which is why the survey drawing provided by LGH (Appendix D) and the soil boring/CPT location plan (Figure 2) have different locations for B-1. Observing that gas bubbles at location C-1 had stopped during field exploration for the soil borings, GeoEngineers drilled soil boring B-7 close to C-1 to collect data for design of a containment dike in the northern portion of Cell D. The soil boring B-7 was extended to a depth of 20 feet BM. To perform CPT calibration and determine subsurface soil properties, soil borings B-1, B-2, B-3, B-4, B-5 and B-6 were performed adjacent to CPT soundings C-2, C-4, C-8, C-13, C-14 and C-18, respectively. All CPT and soil boring locations were in open water, with water depth ranging from approximately 1 feet to 6.5 feet.

CPT data was collected and stored by GeoEngineers' field representative at the time of field work, then transferred to GeoEngineers' office for processing after completion of field activities. Logs of the CPT soundings can be found in Appendix A.

In addition to the 18 CPT soundings, 7 soil borings were completed for the project. Borehole sampling was conducted in general accordance with applicable ASTM specifications. High-quality, undisturbed, cohesive and semi-cohesive soil (clay/clayey silt) specimens suitable for laboratory strength testing were obtained using a 30-inch-long, 3-inch outside diameter, thin-walled steel Shelby tube sampler. At each soil boring, the sampler was hydraulically pushed into the ground a distance not exceeding 24 inches per specimen using an Osterberg piston sampler. Soil borings were grouted upon completion in accordance with Louisiana requirements.

Immediately upon recovery, each sample was classified in the field by a GeoEngineers field representative based on soil exposed on either end of the Shelby tube. Each Shelby tube was then sealed and stored/transported in a vertical position. Shelby tubes were secured bottom down during transportation to minimize sample disturbance.

A summary of soil boring locations, including completion depth, is shown in Table 2 and on Figure 2. Logs of soil borings are included in Appendix B.

TABLE 2. SOIL BORING LOCATION SUMMARY

Soil Boring Identification	Approximate Completion Depth (Feet Below Mudline)	Location As-Drilled[1]		
		Mudline Elevation (feet)	Latitude (North)	Longitude (West)
B-1	30	-2.5	N29° 24' 22.8"	W90° 27' 03.3"
B-2	50	-3.1	N29° 24' 30.6"	W90° 27' 39.3"
B-3	30	-3.4	N29° 24' 27.8"	W90° 28' 56.4"
B-4	30	-3.2	N29° 23' 57.0"	W90° 28' 06.0"
B-5	30	-2.2	N29° 23' 26.3"	W90° 28' 53.6"
B-6	30	-2.8	N29° 22' 50.7"	W90° 27' 01.7"
B-7	20	-3.2	N29° 24' 38.3"	W90° 26' 58.1"

[1] A few of the location coordinates for soil borings are different than the survey coordinates provided by LGH (Appendix D). The coordinates in the table above were recorded at the time and location the soil borings were completed.

LABORATORY TESTING

Intact soft to medium semi-cohesive and cohesive samples were subjected to laboratory miniature vane (mini vane) shear testing prior to extrusion. Upon extrusion, each sample was examined to confirm or modify field classifications. Representative soil samples were selected for laboratory testing consisting of moisture content, dry unit weight, unconfined compression, unconsolidated undrained compression, organic content, fiber content, grain size analysis, specific gravity, consolidation testing and Atterberg limits. The test results are presented on the soil boring logs and figures included in Appendix B and Appendix C, respectively.

CPT SOUNDING RESULTS

CPT sounding information was processed using Dataforensic's RapidCPT add-in to the soil data presentation software gINT. Soil stratigraphy was identified using Robertson and Campanella's non-normalized soil behavior type (SBT) charts. The normalized SBT chart from 1990 uses normalized parameters and has 9 soil types, whereas the non-normalized SBT chart from 1986 uses the basic CPT measurements of q_t and f_s and has 12 soil types. In general, the normalized SBT charts are considered more reliable because they use CPT parameters normalized in terms of effective stress taking soil unit weight and groundwater conditions in to account. Due to the variation of soil properties across the site, the normalized SBT charts were not providing a good soil type representation of the soil profile for the CPT's across the project site. Relatively, the non-normalized charts provided a better representation than the normalized charts and hence are included in this report. It should be noted that the SBT charts at some locations did show different soil type than those classified in the laboratory based on adjacent soil borings. This is because the cone responds to the in-situ mechanical behavior of the soil and not directly to the soil classification criteria based on grain-size distribution and Atterberg Limits. This variation is more pronounced in soil mixtures. For example, a soil with 60% sand and 40% fines may be classified as silty sand or clayey sand, however, if the fines have high clay, then the CPT-SBT will reflect this behavior and will predict a more clay-like

behavior such as clayey silt to silty clay. In general, CPTs seemed to match the soil borings and provided a good representation using the q_t and B_q correlation.

Shear strengths were computed using the N_{kt} correlation presented in "Use of in situ tests for foundation design on clay" from *Proceedings of the ASCE Specialty Conference In Situ '86: Use of In Situ Tests in Geotechnical Engineering* by Aas, Lacasse, Lunne, and Höeg (1986, Blacksburg, VA). For the purposes of this project, we back-calculated N_{kt} value of 19 for CPT's C-2, C-4 and C-8, and 18 for CPT's C-13, C-14 and C-18 using shear strengths from soil borings B-1, B-2, B-3, B-4, B-5 and B-6. The shear strength correlation is listed below:

$Su = (q_t - \sigma_{v0})/N_{kt}$ Where Su = estimated shear strength of the soil;
q_t = raw tip pressure from CPT sounding results;
σ_{v0} = total in-situ overburden pressure at the depth of interest; and
N_{kt} = Empirical correlation factor ≈ 18 to 19 for this project.

Shear strength with depth charts will be provided in the Geotechnical Engineering Report at a later date.

SITE CONDITIONS

Based on observations during our field exploration, the marsh creation area is predominantly open water with few channels across the site. Due to the water depths in the area and landowner restrictions, GeoEngineers had to use equipment mounted on airboats to complete the field explorations. Explorations B-3, C-8 and C-10 were offset by the survey crew due to magnetometer anomalies registered during survey. Enterprise and Crosstex pipeline companies own pipelines in the area and were concerned that C-6 and C-10 were close to their pipelines. These locations were cleared; however, there may be other pipelines in the area that still need to be mapped. Overhead utilities were noted on the east side of C-1/B-7 and C-2/B-1 locations and on the west side of C-9 which was close to Island Road.

VARIATIONS

Interpretations of soil conditions, as described in the soil boring logs are based on field and laboratory data described in this report. Variations in soil conditions are likely to exist between the boring locations and seasonal variation in water conditions will occur. Tidal influence should be expected in the marsh area and must be considered in the project design and construction.

LIMITATIONS

The information presented in this report is based on field explorations completed for this study and judgments made by the GeoEngineers. This report is specific to this site and should not be used other than for the design of the Island Road Marsh Creation and Nourishment (TE-117) project located in Terrebonne Parish, Louisiana. We have provided the requested information for the geotechnical data report in this document.

Within the limitations of scope, schedule, and budget, our services have been executed in accordance with generally accepted practices in the field of geotechnical engineering in this area at the time this report was prepared. No warranty or other conditions expressed or implied should be understood.

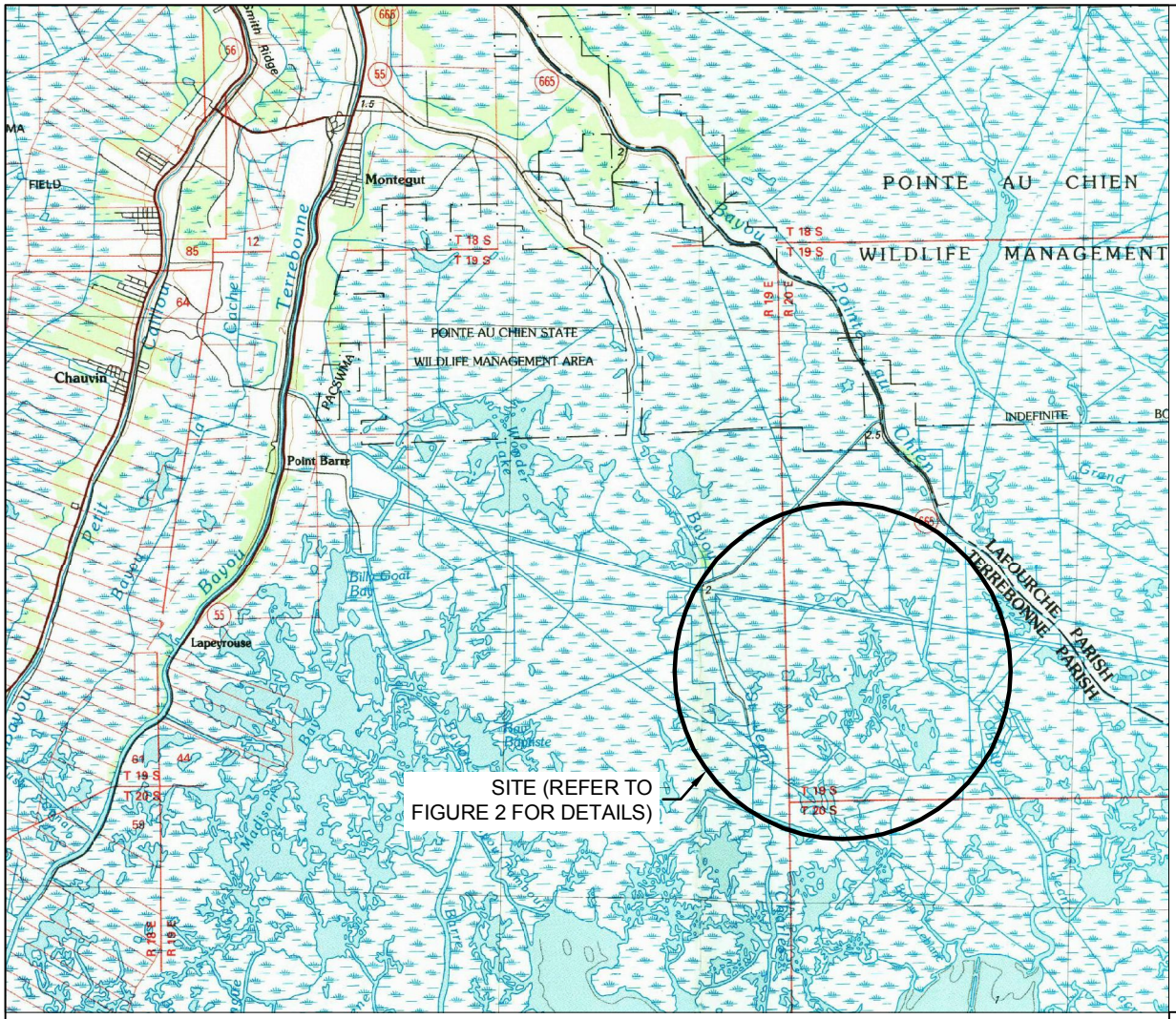
Please refer to Appendix E titled "Report Limitations and Guidelines for Use" for additional information pertaining to use of this report.

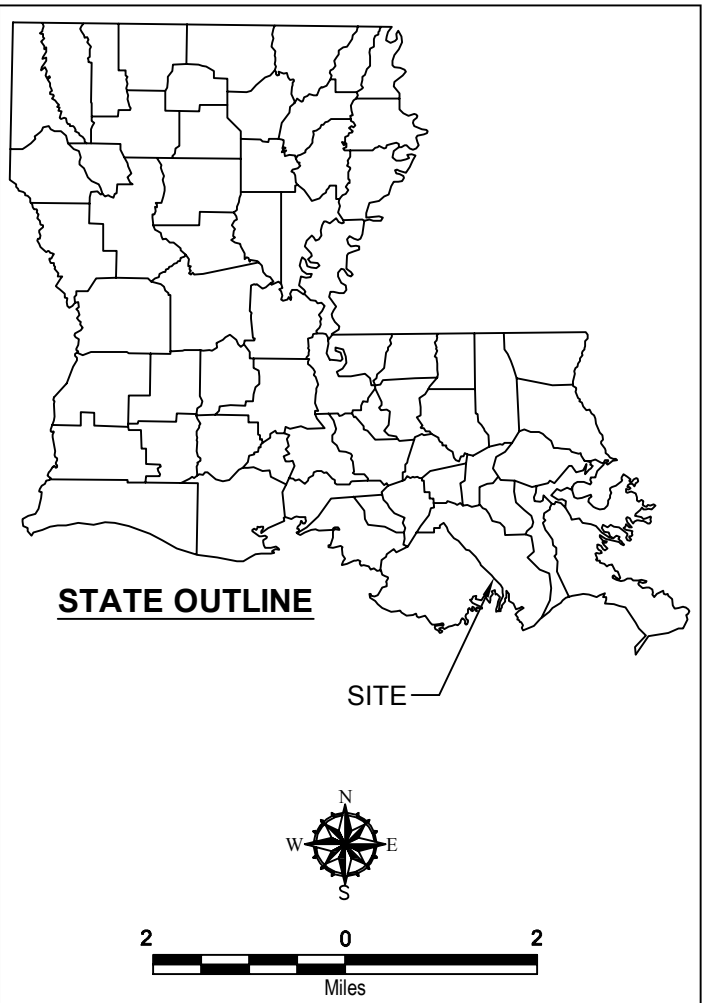
FIGURES

GeoEngineers

P:\16\16715040\00\CAD\Vicinity Map.dwg\TAB:Layout1 modified on Jul 01, 2015 - 10:20am

JPV : KMC





Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

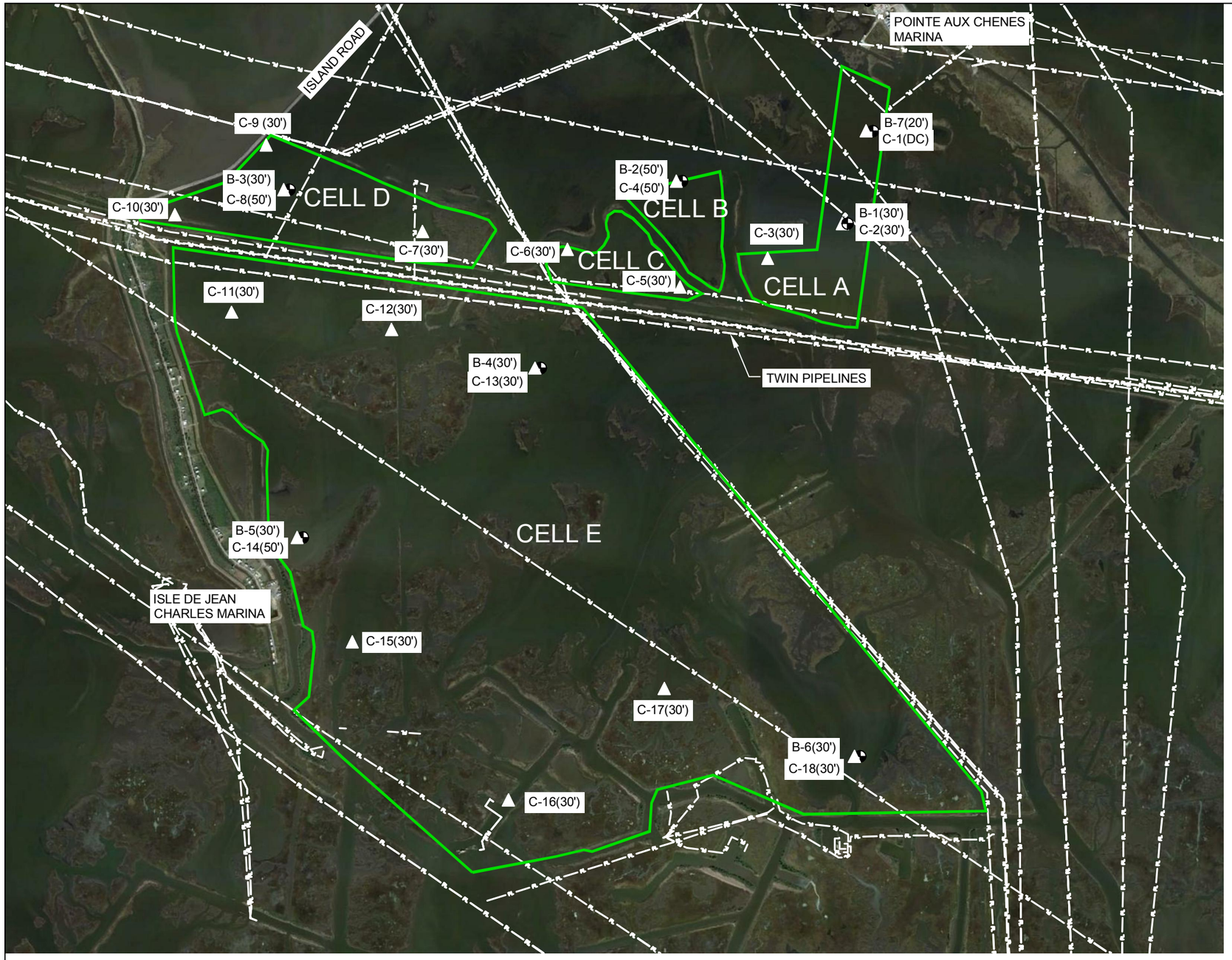
Reference: Topographic image was taken from USGS, 100K Template, Quad: Terrebonne Bay, Dated: 1983

VICINITY MAP

Island Road Marsh Creation
and Nourishment (TE-117)
Terrebonne Parish, Louisiana

GEOENGINEERS

Figure 1



CPT DETAILS			
CPT #	LATITUDE	LONGITUDE	DEPTH BELOW MUDLINE
C-1	N 29° 24' 38.3"	W 90° 26' 58.1"	50 FT.
C-2	N 29° 24' 22.8"	W 90° 27' 03.3"	30 FT.
C-3	N 29° 24' 15.6"	W 90° 27' 13.0"	30 FT.
C-4	N 29° 24' 30.6"	W 90° 27' 39.3"	50 FT.
C-5	N 29° 24' 11.5"	W 90° 27' 38.7"	30 FT.
C-6	N 29° 24' 17.8"	W 90° 28' 01.6"	30 FT.
C-7	N 29° 24' 21.3"	W 90° 28' 28.5"	30 FT.
C-8	N 29° 24' 27.8"	W 90° 28' 56.4"	50 FT.
C-9	N 29° 24' 36.3"	W 90° 29' 01.2"	30 FT.
C-10	N 29° 24' 25.1"	W 90° 29' 18.4"	30 FT.
C-11	N 29° 24' 07.8"	W 90° 29' 07.5"	30 FT.
C-12	N 29° 24' 04.1"	W 90° 28' 35.5"	30 FT.
C-13	N 29° 23' 57.0"	W 90° 28' 06.0"	30 FT.
C-14	N 29° 23' 26.3"	W 90° 28' 53.6"	23.5 FT.*
C-15	N 29° 23' 08.6"	W 90° 28' 43.5"	30 FT.
C-16	N 29° 22' 40.5"	W 90° 28' 11.2"	30 FT.
C-17	N 29° 23' 00.4"	W 90° 27' 40.6"	30 FT.
C-18	N 29° 22' 50.7"	W 90° 27' 01.7"	30 FT.

*UNABLE TO ADVANCE CONE TO FULL DEPTH DUE TO SAND LAYERS

SOIL BORING DETAILS			
BORING #	LATITUDE	LONGITUDE	DEPTH BELOW MUDLINE
B-1	N 29° 24' 22.8"	W 90° 27' 03.3"	30 FT.
B-2	N 29° 24' 30.6"	W 90° 27' 39.3"	50 FT.
B-3	N 29° 24' 27.8"	W 90° 28' 56.4"	30 FT.
B-4	N 29° 23' 57.0"	W 90° 28' 06.0"	30 FT.
B-5	N 29° 23' 26.3"	W 90° 28' 53.6"	30 FT.
B-6	N 29° 22' 50.7"	W 90° 27' 01.7"	30 FT.
B-7	N 29° 24' 38.3"	W 90° 26' 58.1"	20 FT.

LEGEND

- B-1 Approximate Soil Boring Location
- C-1 Approximate CPT Location
- Cell Location
- Pipeline

Notes:
1. GeoEngineers field crew followed T. Baker Smith representatives directions to access the exploration locations.
2. The locations of all features shown are approximate.
3. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers, Inc. and will serve as the official record of this communication.

Reference: 1. Aerial image was taken from Google Earth Pro., Licensed to GeoEngineers Inc., Imagery Dated: November 14, 2012
2. Cell locations were provided by CPRA, Base Map.dwg, St. Project # TE-117, Sheet 2-2, Dated July 2014
3. Soil Boring and CPT locations were staked and surveyed by Lonnie G. Harper & Associates, Dated February 23, 2015
4. Pipeline routes were provided by CPRA, Island Road Marsh Creation, State Project Number:TE-117, Sheet 2, Dated July 2014

N W E S

2000 0 2000
FEET

SITE PLAN

Island Road Marsh Creation and Nourishment (TE-117)
Terrebonne Parish, Louisiana

GEOENGINEERS

Figure 2

VT : KMC

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APPENDICES

GeoEngineers

APPENDIX A
Logs of CPT Soundings

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

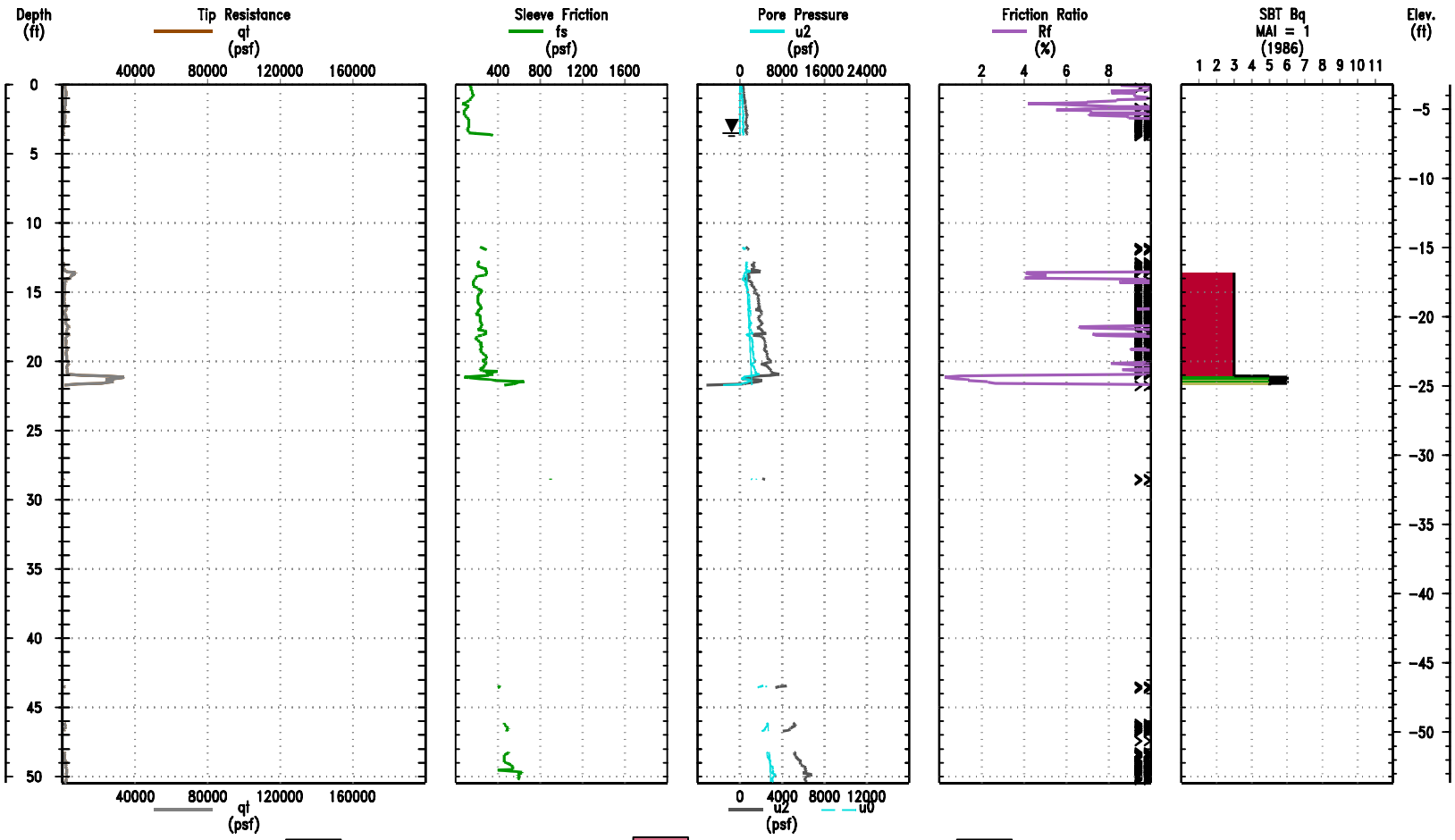
Cone Penetration Test

C-1

Project #: 16715-040-00
Date: Mar. 1, 2015

Latitude: N29°24'38.3"
Longitude: W90°26'58.1"

Elevation: -3.2
Filename: C-1d.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-1	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-1**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

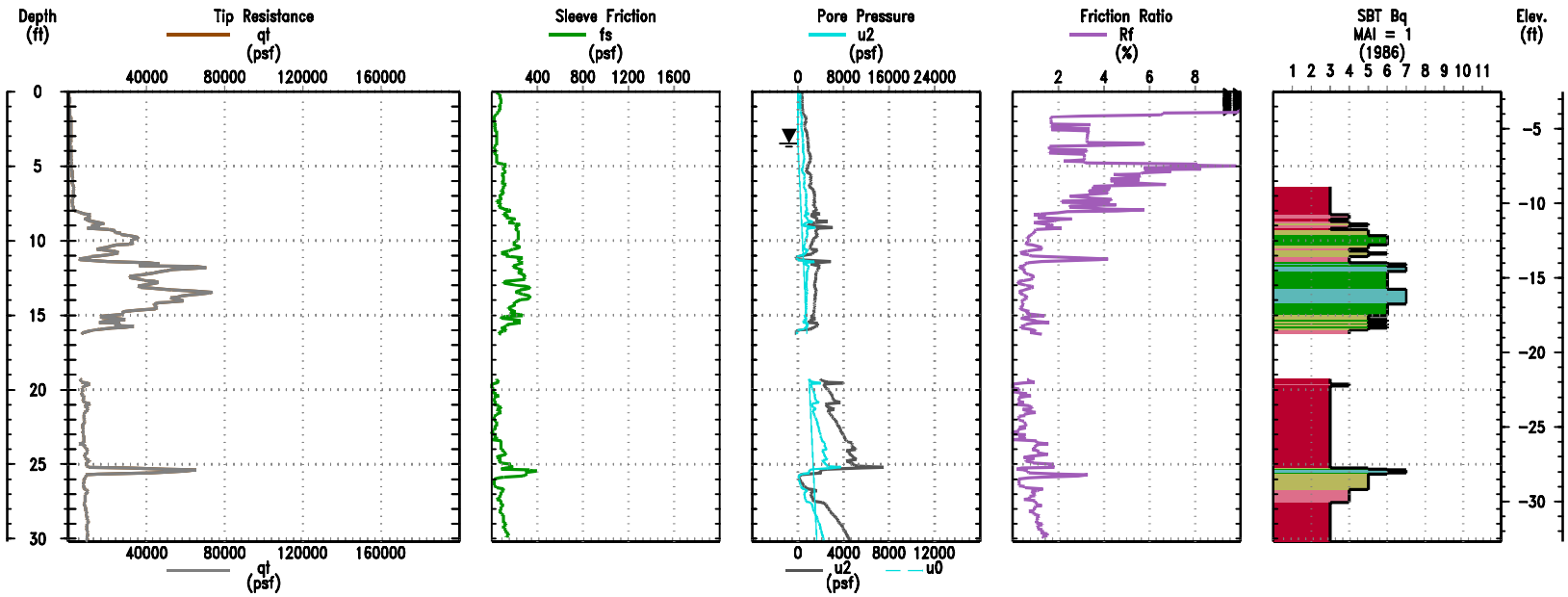
Cone Penetration Test

C-2

Project #: 16715-040-00
Date: Mar. 1, 2015

Latitude: N29°24'22.8"
Longitude: W90°27'03.3"

Elevation: -2.5
Filename: C-2b.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-2	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-2**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

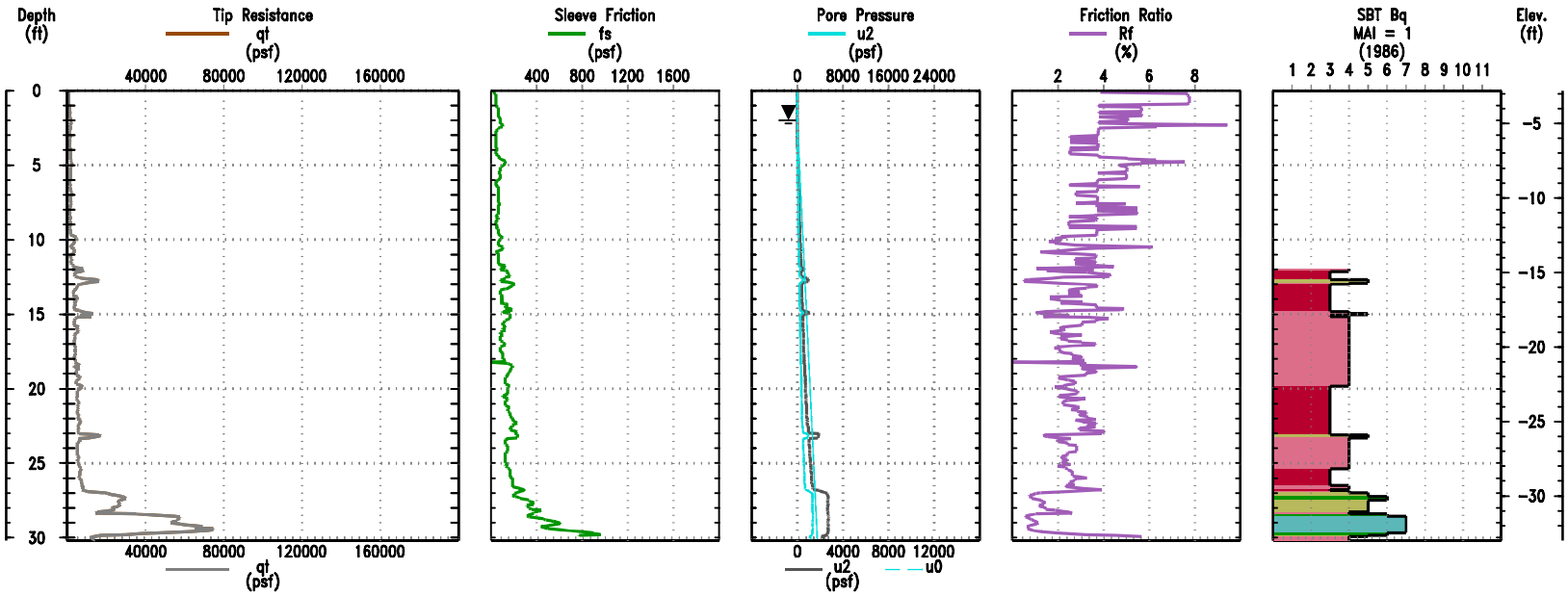
Cone Penetration Test

C-3

Project #: 16715-040-00
Date: Mar. 2, 2015

Latitude: N29°24'15.6"
Longitude: W90°27'13.0"

Elevation: -2.8
Filename: C-3.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-3	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-3

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

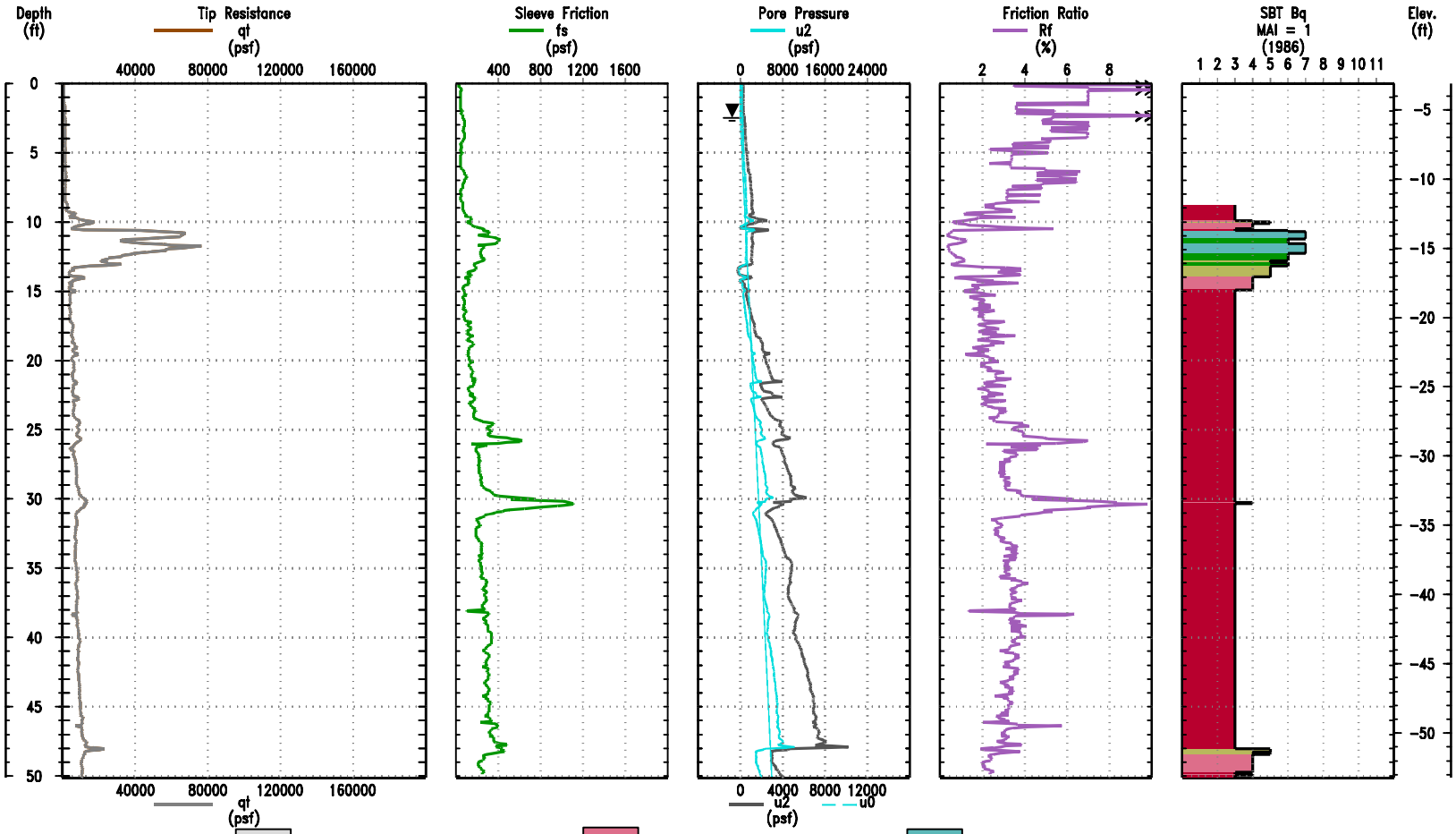
Cone Penetration Test

C-4

Project #: 16715-040-00
Date: Mar. 3, 2015

Latitude: N29°24'30.6"
Longitude: W90°27'39.3"

Elevation: -3.1
Filename: C-4b.cpt



LOG OF CPT SOUNDING C-4	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-4

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

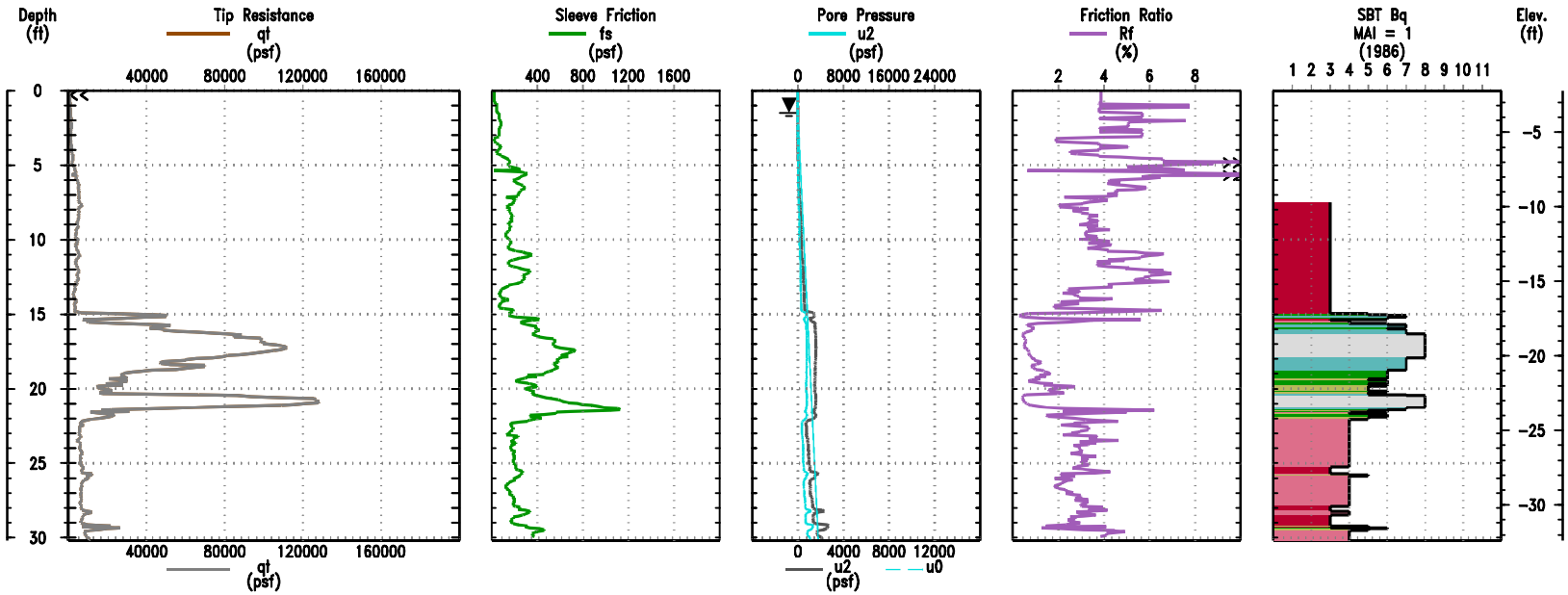
Cone Penetration Test

C-5

Project #: 16715-040-00
Date: Mar. 2, 2015

Latitude: N29°24'11.5"
Longitude: W90°27'38.7"

Elevation: -2.2
Filename: C-5b.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-5	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-5

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

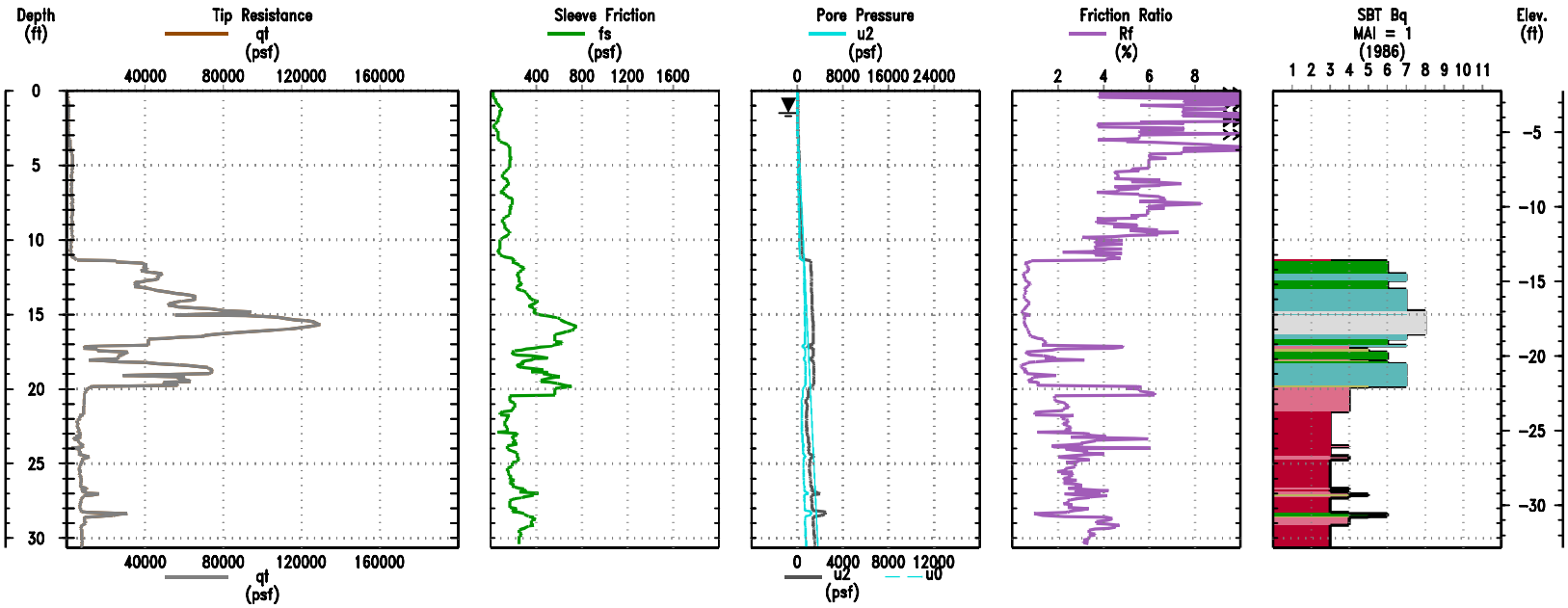
Cone Penetration Test

C-6

Project #: 16715-040-00
Date: Mar. 2, 2015

Latitude: N29°24'17.8"
Longitude: W90°28'01.6"

Elevation: -2.2
Filename: C-6.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-6	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-6

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

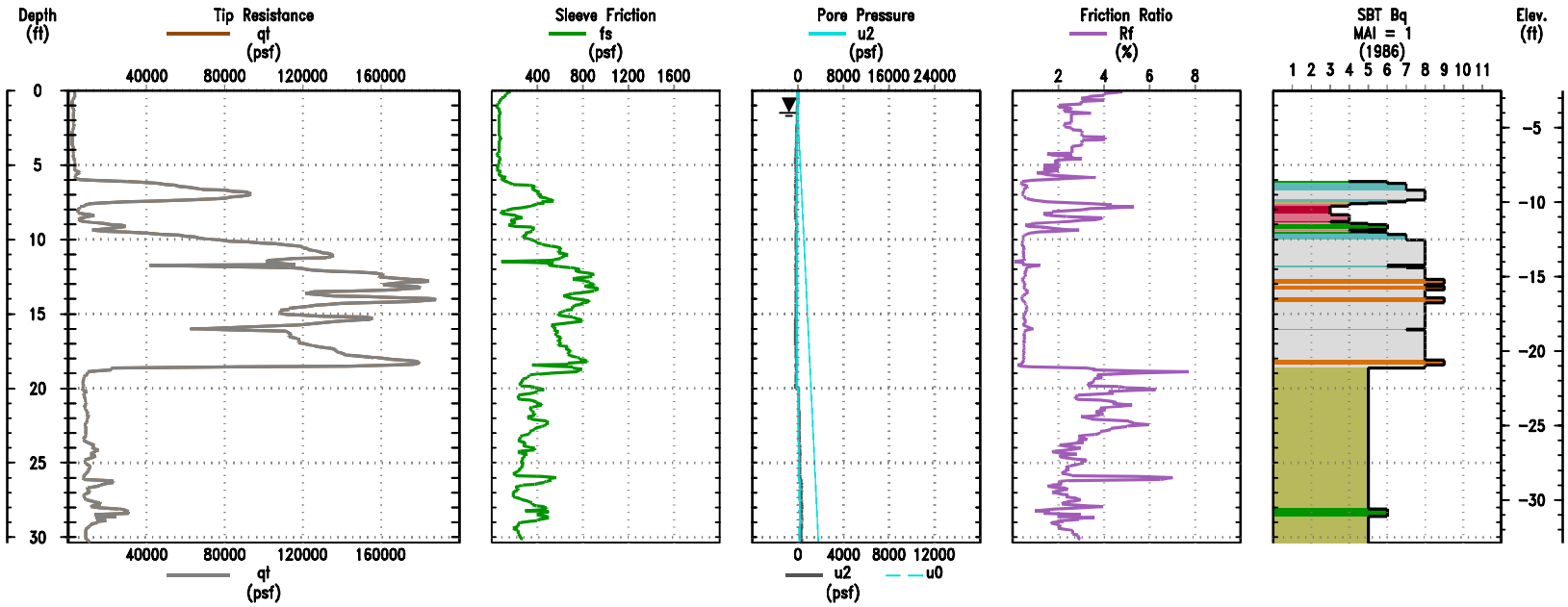
Cone Penetration Test

C-7

Project #: 16715-040-00
Date: Feb. 27, 2015

Latitude: N29°24'21.3"
Longitude: W90°28'28.5"

Elevation: -2.5
Filename: C-7b.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-7	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-7**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

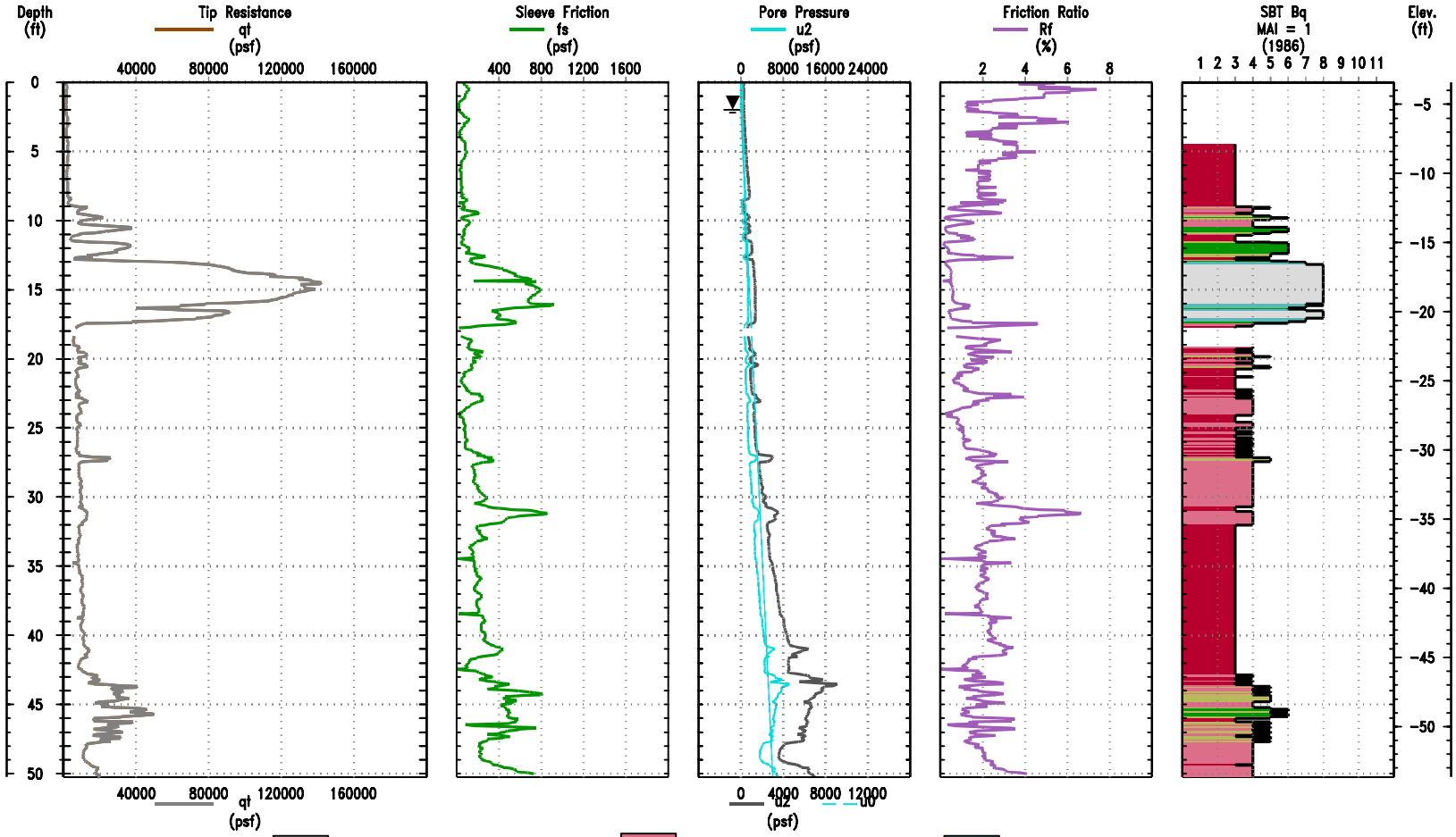
Cone Penetration Test

C-8

Project #: 16715-040-00
Date: Mar. 2, 2015

Latitude: N29°24'27.8"
Longitude: W90°28'56.4"

Elevation: -3.4
Filename: C-8.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-8	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-8

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

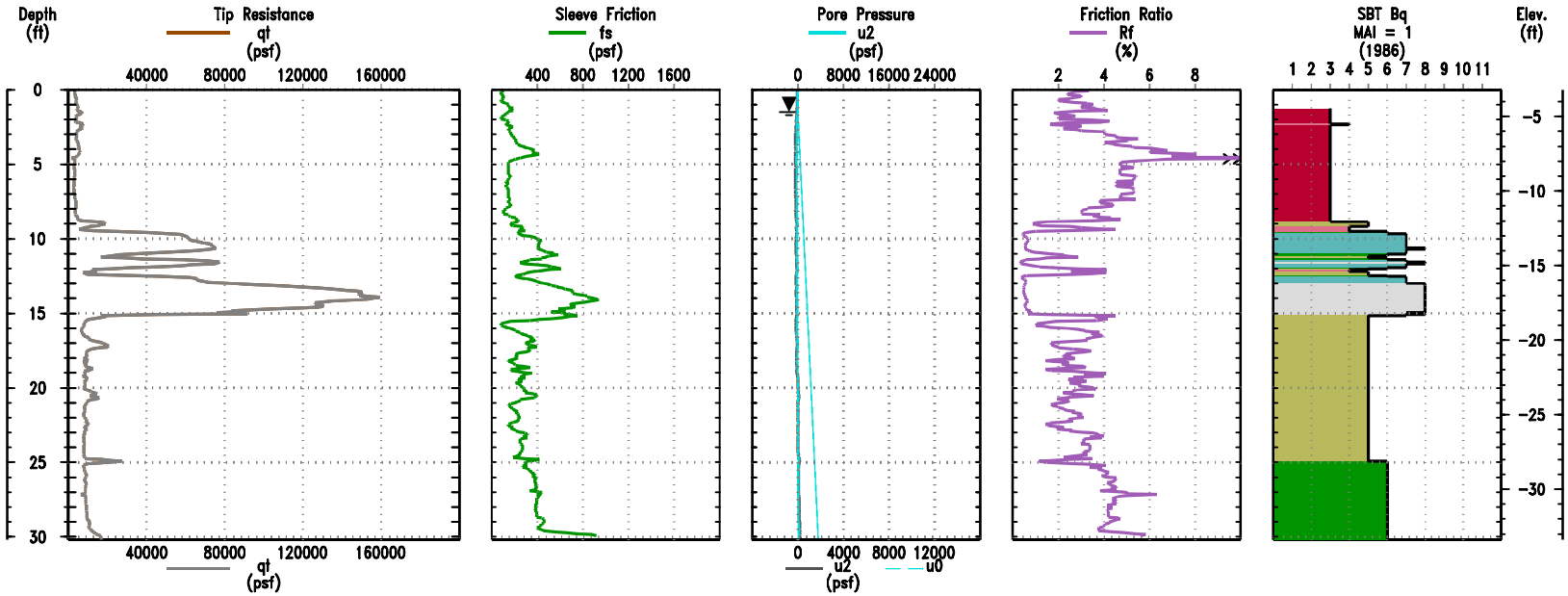
Cone Penetration Test

C-9

Project #: 16715-040-00
Date: Feb. 27, 2015

Latitude: N29°24'36.3"
Longitude: W90°29'01.2"

Elevation: -3.2
Filename: C-9d.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-9	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-9

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

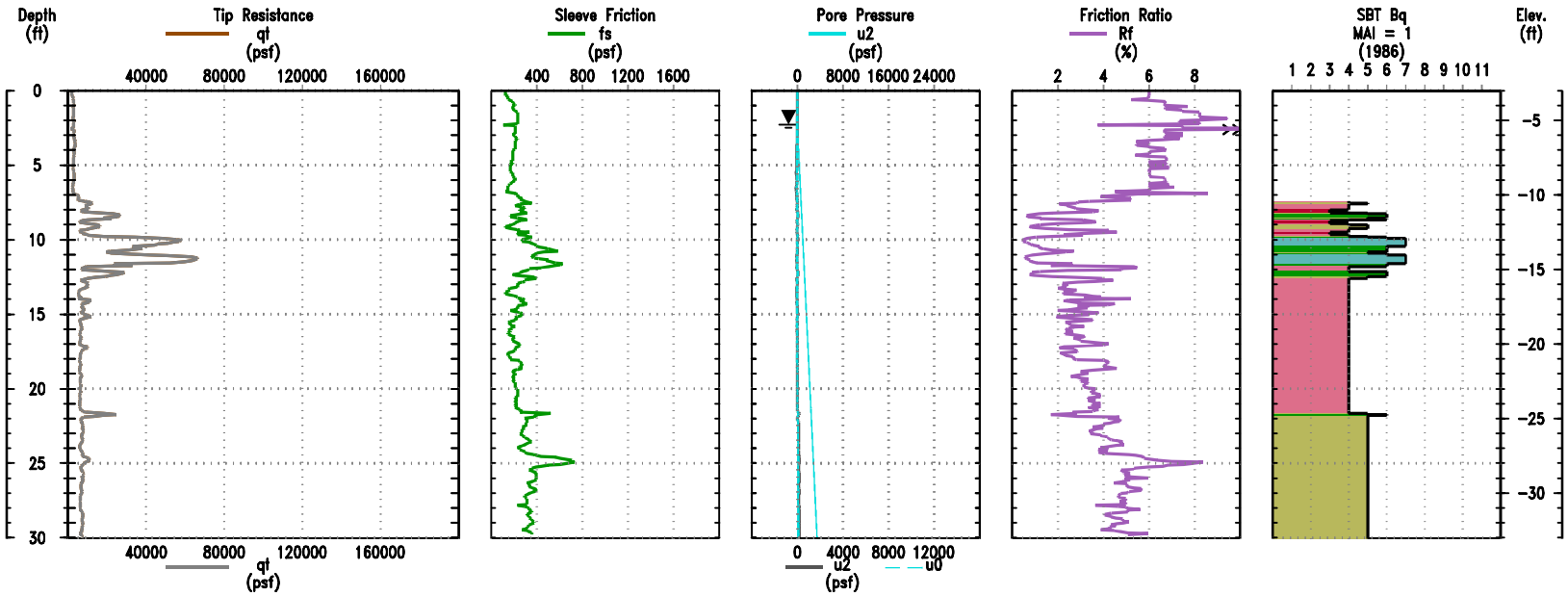
Cone Penetration Test

C-10

Project #: 16715-040-00
Date: Feb. 27, 2015

Latitude: N29°24'25.1"
Longitude: W90°29'18.4"

Elevation: -3
Filename: C-10j.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-10	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-10**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

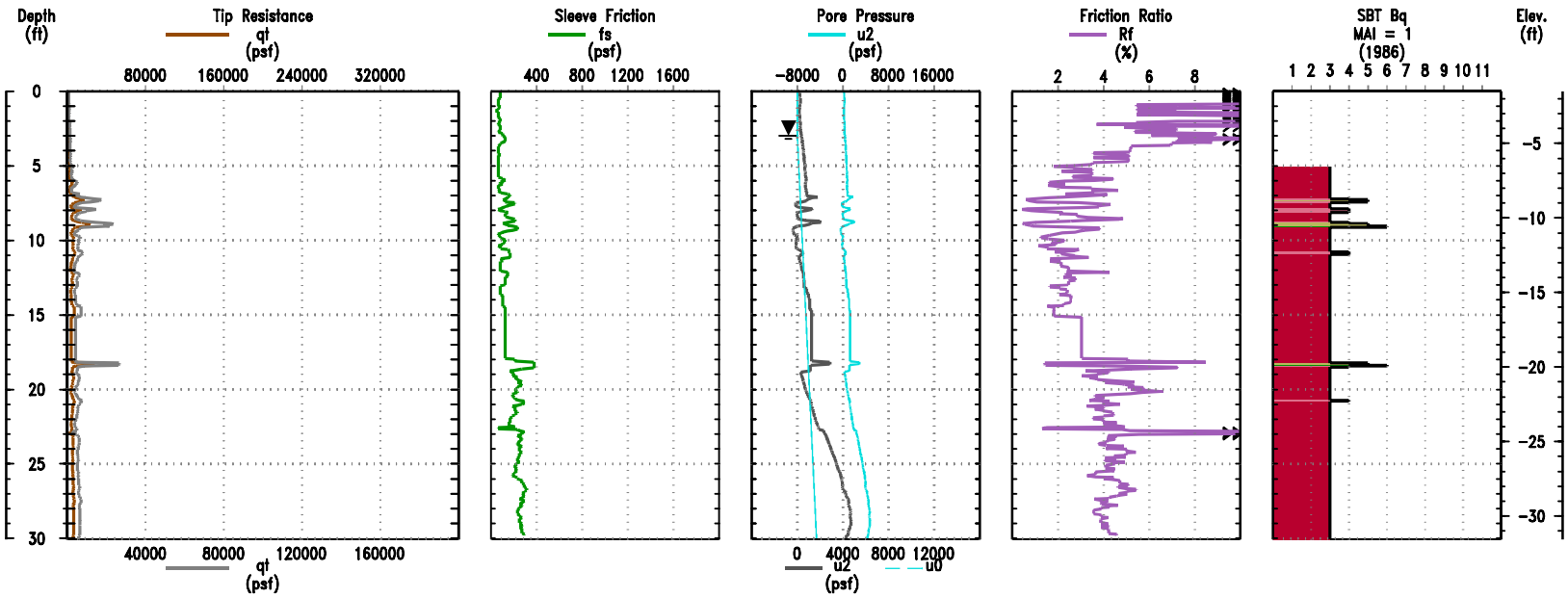
Cone Penetration Test

C-11

Project #: 16715-040-00
Date: Mar. 3, 2015

Latitude: N29°24'07.8"
Longitude: W90°29'07.5"

Elevation: -1.5
Filename: C-11.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-11	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-11

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

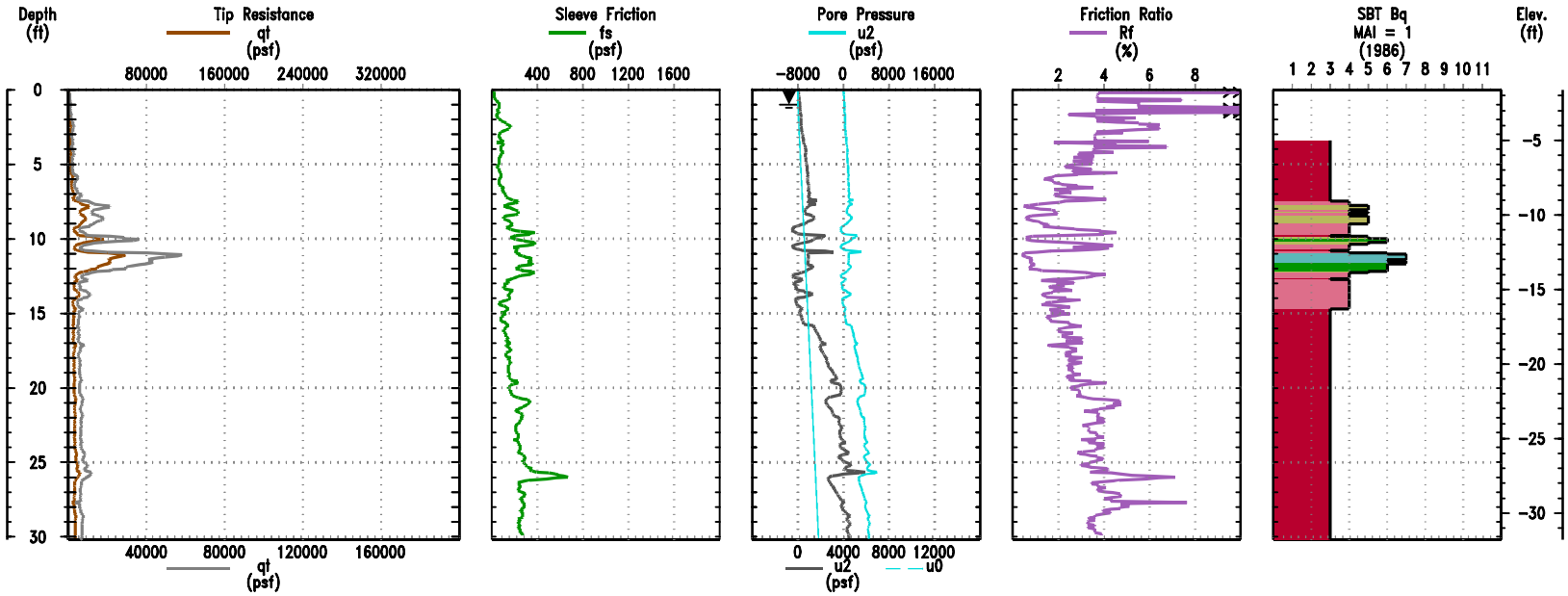
Cone Penetration Test

C-12

Project #: 16715-040-00
Date: Mar. 3, 2015

Latitude: N29°24'04.1"
Longitude: W90°28'35.5"

Elevation: -1.6
Filename: C-12b.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-12	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-12**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

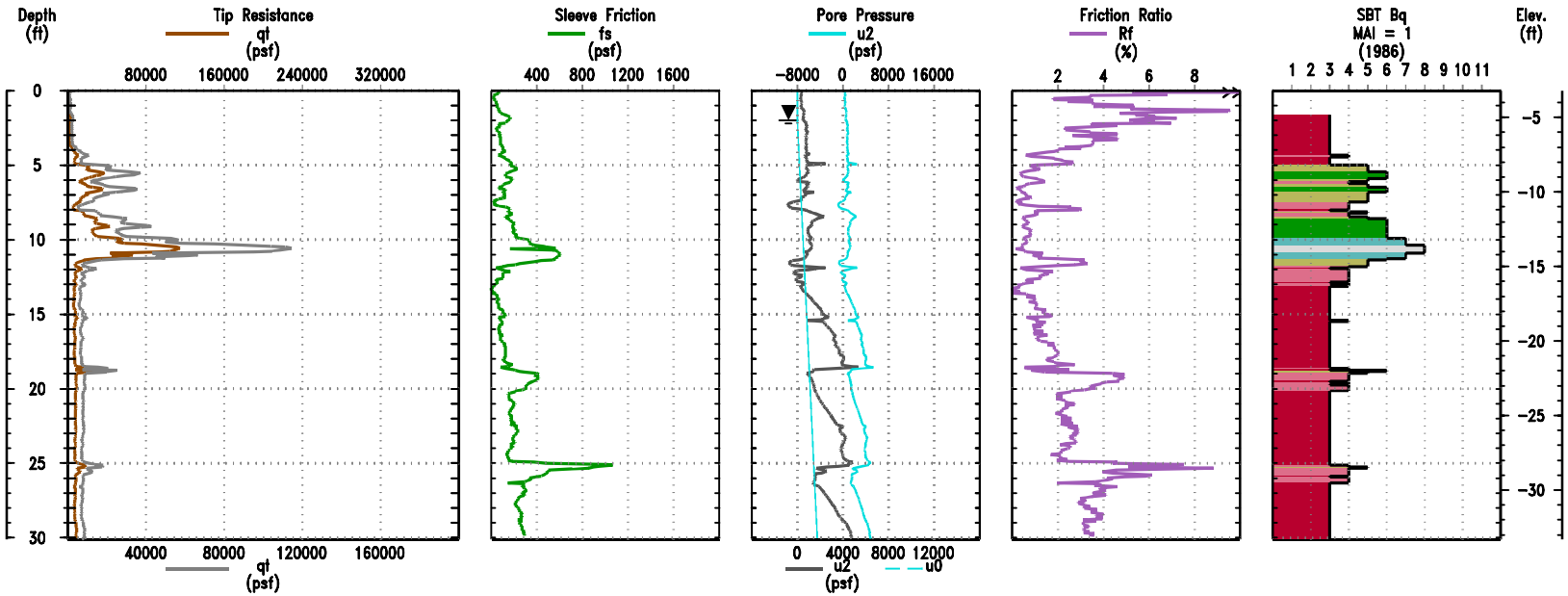
Cone Penetration Test

C-13

Project #: 16715-040-00
Date: Mar. 3, 2015

Latitude: N29°23'57.0"
Longitude: W90°28'06.0"

Elevation: -3.2
Filename: C-13.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-13	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-13

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

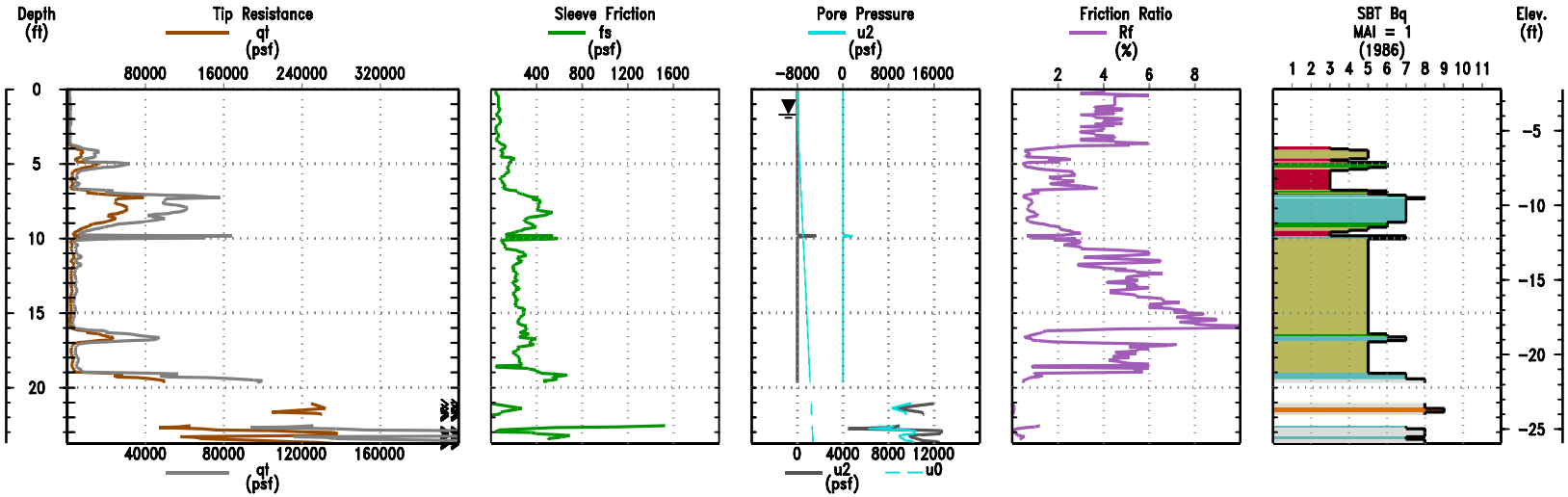
Cone Penetration Test

C-14

Project #: 16715-040-00
Date: Feb. 28, 2015

Latitude: N29°23'26.3"
Longitude: W90°28'53.6"

Elevation: -2.2
Filename: C-14e.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-14	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-14**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

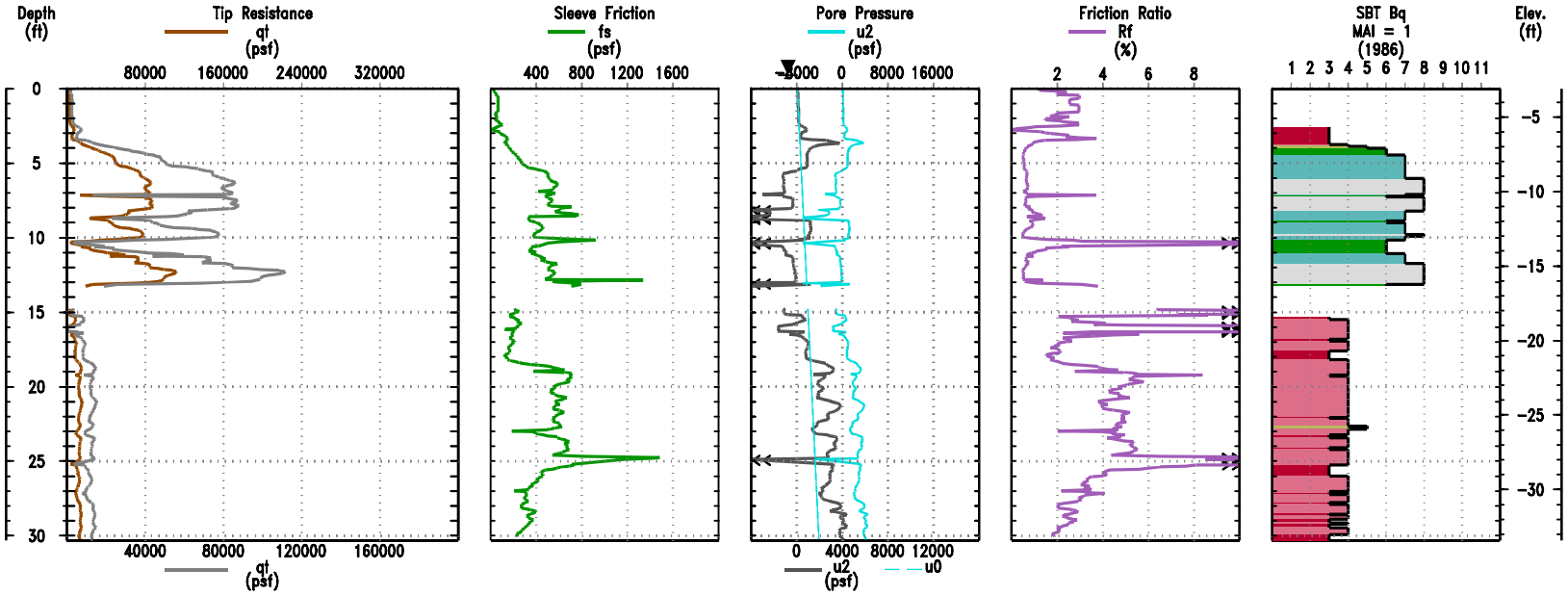
Cone Penetration Test

C-15

Project #: 16715-040-00
Date: Feb. 28, 2015

Latitude: N29°23'08.6"
Longitude: W90°28'43.5"

Elevation: -3.1
Filename: C-15.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-15	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	**Figure A-15**

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

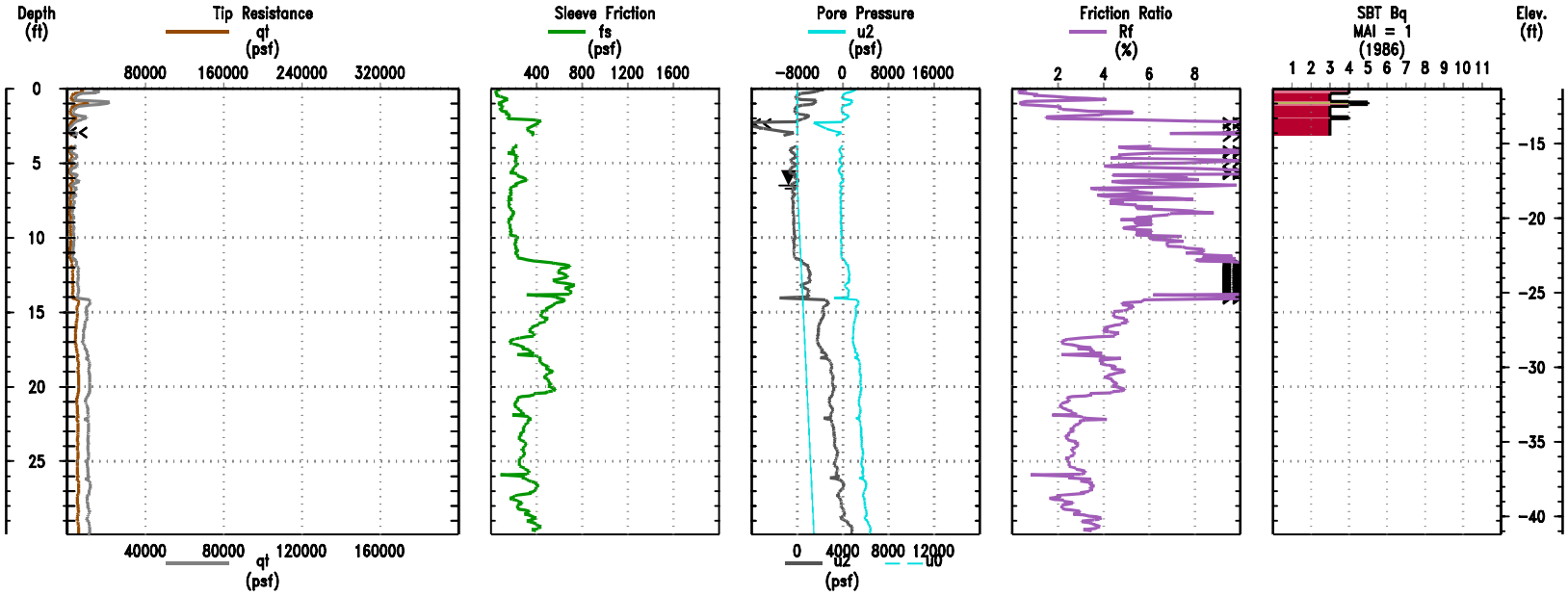
Cone Penetration Test

C-16

Project #: 16715-040-00
Date: Feb. 28, 2015

Latitude: N29°22'40.5"
Longitude: W90°28'11.2"

Elevation: -6.5
Filename: C-16.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-16	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-16

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

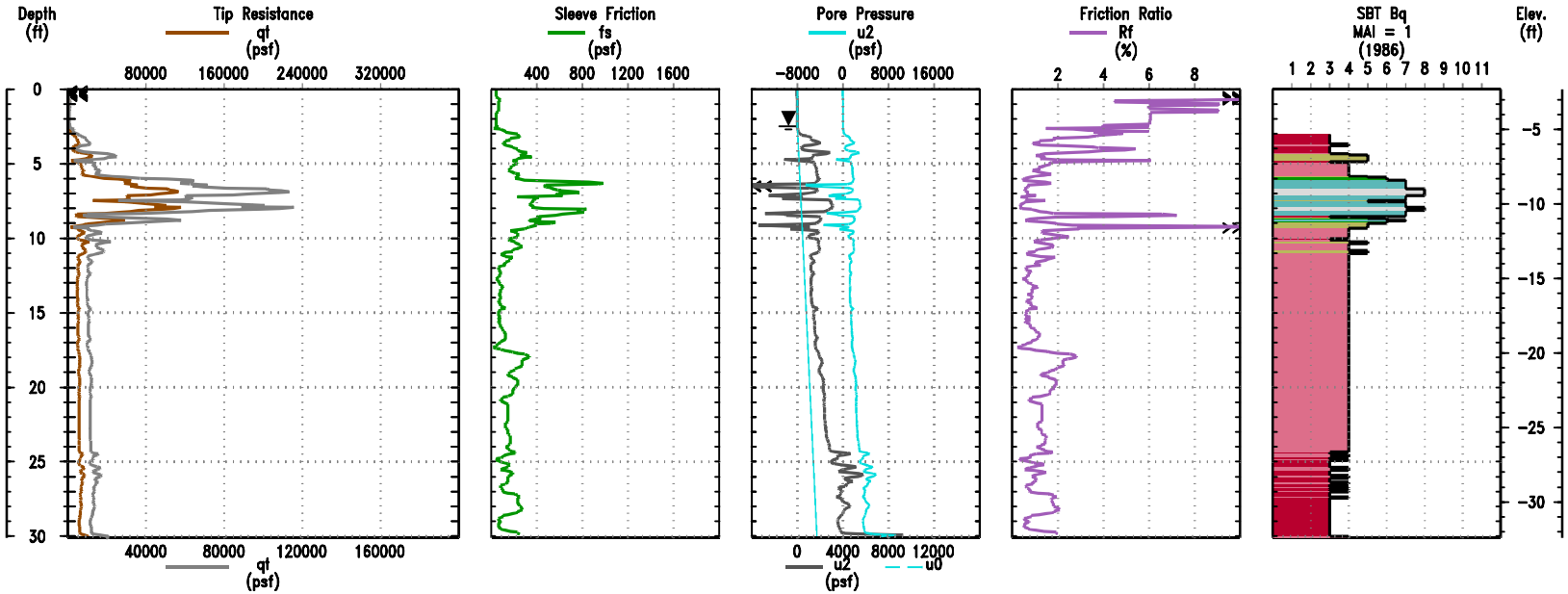
Cone Penetration Test

C-17

Project #: 16715-040-00
Date: Feb. 28, 2015

Latitude: N29°23'00.4"
Longitude: W90°27'40.6"

Elevation: -2.3
Filename: C-17.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-17	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-17

Island Roads Marsh Creation Project (TE-117)
Terrebonne Parish, Louisiana (Montegut,Louisiana)

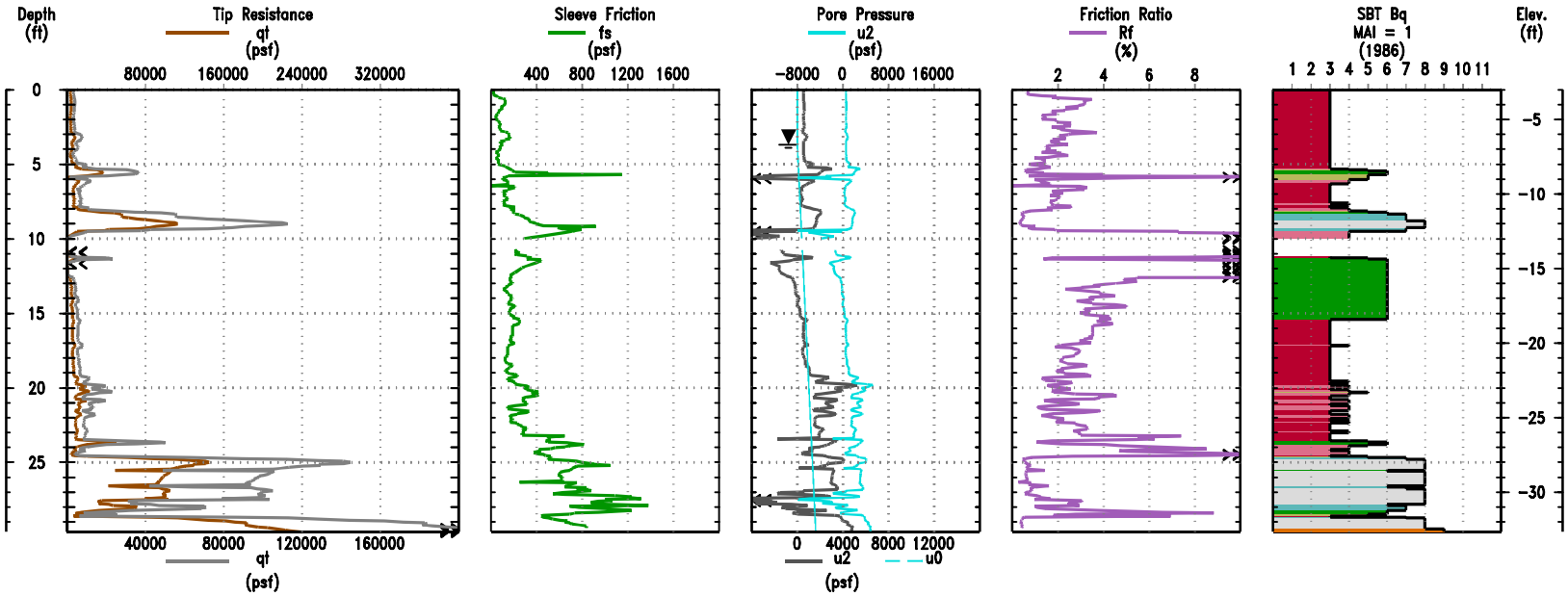
Cone Penetration Test

C-18

Project #: 16715-040-00
Date: Feb. 28, 2015

Latitude: N29°22'50.7"
Longitude: W90°27'01.7"

Elevation: -3
Filename: C-18.cpt



1 - Sensitive, Fine Grained Soils
2 - Organic Soils, Peats
3 - Clay
4 - Clays & Silty Clays
5 - Clayey Silt & Silty Clays
6 - Sandy Silts & Clayey Silts
7 - Silty Sands & Sandy Silts
8 - Sands & Silty Sands
9 - Sands

LOG OF CPT SOUNDING C-18	Island Road Marsh Creation and Nourishment (TE-117) Terrebonne Parish, Louisiana	GEOENGINEERS	Figure A-18

APPENDIX B
Logs of Soil Borings

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS MORE THAN 50% RETAINED ON NO. 200 SIEVE	GRAVEL AND GRAVELLY SOILS MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
		GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
	SAND AND SANDY SOILS MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
		SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS MORE THAN 50% PASSING NO. 200 SIEVE	SILTS AND CLAYS	LIQUID LIMIT LESS THAN 50		ML	INORGANIC SILTS, ROCK FLOUR, CLAYEY SILTS WITH SLIGHT PLASTICITY
				CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
				OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
	SILTS AND CLAYS	LIQUID LIMIT GREATER THAN 50		MH	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS SILTY SOILS
				CH	INORGANIC CLAYS OF HIGH PLASTICITY
				OH	ORGANIC CLAYS AND SILTS OF MEDIUM TO HIGH PLASTICITY
HIGHLY ORGANIC SOILS				PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: Multiple symbols are used to indicate borderline or dual soil classifications

ADDITIONAL MATERIAL SYMBOLS

SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
	CC	Cement Concrete
	AC	Asphalt Concrete
	CR	Crushed Rock/ Quarry Spalls
	TS	Topsoil/ Forest Duff/Sod

Measured groundwater level in exploration, well, or piezometer

Groundwater observed at time of exploration

Perched water observed at time of exploration

Graphic Log Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Material Description Contact

Distinct contact between soil strata or geologic units

Approximate location of soil strata change within a geologic soil unit

Sampler Symbol Descriptions

Standard Penetration Test (SPT)

Shelby tube

Piston

Direct-Push

Bulk or grab

Blowcount is recorded for driven samplers as the number of blows required to advance sampler 12 inches (or distance noted). See exploration log for hammer weight and drop.

A "P" indicates sampler pushed using the weight of the drill rig.

Laboratory / Field Tests

%F	Percent fines
AL	Atterberg limits
CA	Chemical analysis
CP	Laboratory compaction test
CS	Consolidation test
DS	Direct shear
HA	Hydrometer analysis
MC	Moisture content
MD	Moisture content and dry density
OC	Organic content
PM	Permeability or hydraulic conductivity
PP	Pocket penetrometer
SA	Sieve analysis
TX	Triaxial compression
UC	Unconfined compression
VS	Vane shear

NOTE: The reader must refer to the discussion in the report text and the logs of explorations for a proper understanding of subsurface conditions. Descriptions on the logs apply only at the specific exploration locations and at the time the explorations were made; they are not warranted to be representative of subsurface conditions at other locations or times.

KEY TO EXPLORATION LOGS

GEOENGINEERS

FIGURE B-1

Drilled	Start 3/18/2015	End 3/18/2015	Total Depth (ft)	32.3	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	-0.2		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 24' 22.8" / W90° 27' 03.3"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.2 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.5 feet									
										Mudline at EL. -2.5 feet									
						1			PT	Very soft black peat with shell fragments (organic content = 41.6%, fiber content = 9.4%)	829	6.4	0.1		9			0.12	
-5	5					2			OH	Very soft brown and gray organic clay with silt pockets and roots	211	28.8	0.12	0.01	12	293	227	0.12	
						3				Very soft gray organic clay with silt pockets and roots (organic content = 6.1%)	201	28	0.08	0.04	5	201	137	0.10	
						4				No sample recovered									
-10	10					5			CL	Very soft dark gray clay with silt and organic matter	65	62.1	0.14	0.12	5			0.26	
						6				Very soft gray clay with silt	43	79.8	0.2	0.16	15	42	19	0.19	
-15	15					7			ML	Gray sandy silt	30								74
						8			CL	Very soft gray silty clay with 3 inch sand layer and 9 inch organic material layer at bottom	26	84.4	0.17	0.24	15			0.19	
						9				Gray very sandy clay	41								
-20	20					10			SM	(11 inch sand layer from sample above) Gray silty sand with clay seams	30								48
									CL	Soft gray silty clay (based on adjacent cone penetration test profile)									
-25	25					11			SM	Gray silty sand with clay seams									
-30	30					12			CL	Soft gray silty clay	47	75.7	0.29		15				

*Remolded sample used for strength testing.

Log of Boring B-1

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Location: Terrebonne Parish, Louisiana
Project Number: 16715-040-00

Figure B-2
Sheet 1 of 1

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Drilled	Start 3/18/2015	End 3/18/2015	Total Depth (ft)	52.6	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	-0.5		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 24' 30.6" / W90° 27' 39.3"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.5 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.8 feet									
										Mudline at EL. -3.1 feet									
						1			PT	Very soft brown peat	1633	3.5	0.05		5				
										Very soft brown peat	378	13.9	0.07		15				
-5	5					2				Very soft dark brown peat with silt pockets, shell fragments, and roots (organic content = 56.4%, fiber content = 11.7%)	814	6.8	0.06	0.01	15			0.18	
						3				Very soft brown peat with 7 inch organic clay layer at bottom (organic content = 37.3%)	679							0.20	
-10	10					4				Very soft brown peat with 5 inch organic clay layer at bottom (organic content = 29.7%, fiber content = 1.1%)	597	9.9	0.07	0.07	5			0.17	
						5			ML	Dark gray sandy silt with clay	22	93.9	0.2	0.12	15	28	5		75
						6			SC-SM	Dark gray silty clayey sand	34								45
-15	15					7				Gray silty clayey sand with 4 inch sandy clay layer at bottom									
						8			SM	Gray silty sand	30								34
-20	20					9			SC-SM	Dark gray silty clayey sand with shell fragments	27								48
						10			SM	Gray silty sand with shell fragments	28								31
									CL										
-25	25					11				Very soft dark gray very silty clay with sand pockets, silt lenses, and shell fragments	66	64.3	0.16	0.52	12			0.25	
-30	30					12			CH	Very soft gray clay with organic matter and shell fragments	111	47.2	0.21		6	82	56	0.26	
-35	35																		

*Remolded sample used for strength testing.

Log of Boring B-2

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Location: Terrebonne Parish, Louisiana
Project Number: 16715-040-00

Figure B-3
Sheet 1 of 2

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35					13			OH	Soft dark gray organic clay	180	26.5	0.25		7			0.25	
40	40					14				Soft dark gray organic clay with silt	97							0.40	
45	45					15			CL	Soft gray silty clay with silt pockets	64							0.26	
50	50					16			CH	Soft dark gray clay with organic matter, silt lenses, and silt pockets	86	52.9	0.33		5	73	40	0.29	

*Remolded sample used for strength testing.

Log of Boring B-2 (continued)

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)

Project Location: Terrebonne Parish, Louisiana

Project Number: 16715-040-00

Figure B-3

Sheet 2 of 2

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Drilled	Start 3/20/2015	End 3/20/2015	Total Depth (ft)	33.6	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	0.2		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 24' 27.8" / W90° 28' 56.4"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0									EL. +0.2 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.1 feet									
										Mudline at EL. -3.4 feet									
						1			PT	Very soft brown peat									
5	5					2			OH	Very soft gray and dark gray organic clay (organic content = 18.6%)	210	24.7	0.08		14			0.10	
						3				Very soft gray organic clay with silt	186	27.8	0.12	0.01	8	116	78	0.07	
						4				Very soft gray organic clay with silt and 1 inch peat layer	498	13.5	0.08	0.04	6			0.14	
10	10					5				Very soft gray organic clay	141	38.6	0.11	0.09	5	116	68	0.11	
						6			CL	Very soft gray very silty clay with sand and organic matter	43	77.6	0.11	0.12	11			0.03	
						7			ML	Gray sandy silt with clay	35								76
15	15					8				Gray silt with clay						26	4		
						9				Gray silt with clay and sand pockets	45	80	0.5	0.22	15	30	6		
						10			CH	Very soft gray clay	51					63	36	0.15	
20	20					11			SM	(4 inch sand layer from sample above) Gray silty sand									
						12				Gray silty sand	25								13
									CH										
25	25																		
						13				Very soft gray clay with silt lenses, silt seams, and shell fragments	71	59.8	0.21		7	67	39	0.15	
30	30																		
						14			OH	Soft dark gray organic clay with silt lenses and organic matter	202	29.7	0.34		6			0.29	

*Remolded sample used for strength testing.

Log of Boring B-3

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Location: Terrebonne Parish, Louisiana
Project Number: 16715-040-00

Figure B-4
Sheet 1 of 1

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEI8_GEOTECH_LAB

Drilled	Start 3/19/2015	End 3/19/2015	Total Depth (ft)	32.6	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	-0.6		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 23' 57.0" / W90° 28' 06.0"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.6 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.9 feet									
										Mudline at EL. -3.2 feet									
						1			PT	Very soft brown peat with 3 inch organic clay layer and roots	318	18.6	0.16		9	365	278	0.18	
-5	5					2			CH	Very soft gray clay with 2 inch sand layer at bottom and organic matter	61	64.1	0.08	0.01	9			0.20	
						3			SP	Gray sand	33								
-10	10					4			SM	Gray silty sand	29								31
						5			SP	Gray sand	33								
-15	15					6			SM	Gray silty sand	33								34
						7			SP-SM	Gray sand with silt	36								
-20	20					8			SP	Gray sand	28								3
						9			CH	(9 inch clay layer from sample above) Very soft gray clay with silt lenses	92	61.6	0.3		14	81	46	0.14	
-25	25					10			CL	Very soft gray silty clay with silt lenses and sand pockets	54							0.16	
-30	30					11			CH	Very soft gray clay with silt lenses and sand pockets	71	59.4	0.26		11	83	52	0.09	

*Remolded sample used for strength testing.

Log of Boring B-4

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Location: Terrebonne Parish, Louisiana
Project Number: 16715-040-00

Figure B-5
Sheet 1 of 1

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Drilled	Start 3/20/2015	End 3/20/2015	Total Depth (ft)	31.7	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	-0.1		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 23' 26.3" / W90° 28' 53.6"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols. Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.1 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.4 feet									
										Mudline at EL. -2.2 feet									
						1			PT	Very soft brown peat with 3 inch gray organic clay layer	226	25.3	0.18		7			0.10	
-5	5					2				Very soft brown peat with 9 inch organic clay layer and roots (organic content = 14.4%, fiber content = 4.0%)	262	21	0.08	0.01	12			0.09	
						3			CH	Very soft gray clay with 2 inch sand layer at bottom	69	70.7	0.54	0.04	15	54	30	0.07	
						4			SM	Gray silty sand	26								13
-10	10					5			SP	Gray sand	27								
						6			SP-SM	Gray sand with silt	24								7
-15	15					7			SP	Gray sand	23								3
						8			SM	Gray silty sand with shell fragments	20								17
						9			CH	Very soft gray clay with sand lenses and shell fragments	96	50.1	0.26		4	63	33	0.11	
-20	20					10			CL	Very soft gray silty clay with silt lenses and shell fragments	50	70.1	0.19		9			0.10	
									SM										
-25	25			50/2"		11				Very dense gray silty sand									
-30	30			50/1"		12				Very dense gray silty sand									

*Remolded sample used for strength testing.

Log of Boring B-5

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)

Project Location: Terrebonne Parish, Louisiana

Project Number: 16715-040-00

Figure B-6

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\16715040.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Drilled	Start 3/20/2015	End 3/20/2015	Total Depth (ft)	32.3	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) Vertical Datum	-0.5		Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig				
Latitude / Longitude	N29° 22' 50.7" / W90° 27' 01.7"		System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)		

Notes: See Figure A-1 for explanation of symbols. Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.5 feet (0 feet depth) at top of deck									
										Top of water at EL. -0.8 feet									
										Mudline at EL. -2.8 feet									
						1			PT	Very soft brown peat	286					298	203	0.09	
-5	5					2			CL	Very soft dark gray silty clay with silt lenses	70	65.1	0.12	0.01	7			0.11	
						3				Medium gray very sandy clay with silt	29	103.8	0.58	0.03	15	33	15		
										Very soft gray silty clay	61	71.9	0.1	0.04	15				95
						4				Stiff gray sandy clay with silt and organic matter	47	82.6	1.49	0.06	15				
-10						5				Very soft gray sandy silty clay	48	77.9	0.17	0.09	15				58
	10					6				Very soft gray silty clay with organic lenses	44	75	0.2	0.12	13	38	22	0.12	
						7			SM	Gray silty sand with clay pockets	29								24
-15	15					8				Gray silty sand with clay pockets	19								17
						9			SP-SM	Gray sand with silt	26								7
						10			CL	Very soft gray very sandy clay with silt	49	77.9	0.11	0.3	11			0.09	
-20						11				Gray silty clay	65								
	20					12			CH	Very soft gray clay	66					100	62	0.15	
						13				Very soft gray clay with silty sand pockets and shell fragments	77	55.7	0.2	0.39	9				
-25	25					14			CL	Very soft gray silty clay with silt lenses and silt seams	40	79.2	0.21		7			0.09	
-30	30					15				Very soft gray clay with silt	29					42	22	0.08	

*Remolded sample used for strength testing.

Log of Boring B-6

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)

Project Location: Terrebonne Parish, Louisiana

Project Number: 16715-040-00

Figure B-7

Sheet 1 of 1

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

Drilled	Start 3/20/2015	End 3/20/2015	Total Depth (ft)	22.3	Logged By / Checked By	ECK / VT	Driller	Specialized Environmental Resources, LLC	Drilling Method	Wet Rotary
Deck Elevation (ft) / Vertical Datum	-0.9				Hammer Data	Safety Hammer/Cathead 140 (lbs) / 30 (in) Drop	Drilling Equipment	Airboat Mounted Drill Rig		
Latitude / Longitude	N29° 24' 38.3" / W90° 26' 58.1"				System Datum	Geographic NAD83 (feet)/NAVD88 Geoid 12A	Groundwater	Date Measured	Depth to Water (ft)	Elevation (ft)

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfilled full depth.

Elevation (feet)	Depth (feet)	Interval	Recovered (in)	Blows/foot or Pocket Pen (TSF)	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	Minivane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0									EL. -0.9 feet (0 feet depth) at top of deck									
										Top of water at EL. -1.2 feet									
										Mudline at EL. -3.2 feet									
						1			PT	Very soft brown peat with organic clay layer (organic content = 57.7%, fiber content = 7.3%)	1000	5.9	0.16		13			0.09	
-5																			
	5					2			OH	Very soft brown and gray organic clay	151	32.9	0.06	0.01	5	164	98	0.07	
						3				Very soft gray organic clay	302	20.1	0.09	0.04	4	184	127	0.13	
-10						4				Very soft gray organic clay	185	29.4	0.16	0.09	5			0.08	
	10					5			CH	Very soft gray clay with silt pockets and organic matter	112							0.08	
						6				Very soft gray clay with organic matter	138	36	0.14	0.16	8	136	94	0.08	
-15																			
	15					7			CL	Very soft gray silty clay with organic matter	65							0.08	
						8				Very soft gray clay with silt and organic matter	79	57.3	0.12	0.27	13	47	21	0.08	
-20						9				Very soft gray very silty clay with 1 inch silty sand layer	34	85	0.27		6	34	13	0.08	
	20					10				Very soft gray silty clay with silt lenses and silt seams	78	57	0.17		8			0.08	

*Remolded sample used for strength testing.

Log of Boring B-7

GEOENGINEERS

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Location: Terrebonne Parish, Louisiana
Project Number: 16715-040-00

Figure B-8
Sheet 1 of 1

Baton Rouge: Date:7/15/15 Path:P:\16\16715040\GINT\1671504000.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT\GEI8_GEOTECH_LAB

APPENDIX C
Laboratory Testing Results

GeoEngineers
Earth Science + Technology

Laboratory Test Results

Project Name: LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

Project ID: 16715-040-00

Technical Responsibility: Cathy J. Perk

Title: LAB MANAGER

Date: 07/14/15

BORING NUMBER	DEPTH (FT) FROM - TO	SOIL DESCRIPTION	MOISTURE %	UNIT WEIGHT (PCF) WET	UNIT WEIGHT (PCF) DRY	ATTERBERG LIMITS LL	ATTERBERG LIMITS PL	ATTERBERG LIMITS PI	COMPRESSION TEST TSF	COMPRESSION TEST STRAIN %	COMPRESSION TEST CONFINING PRESSURE (KSF)	COMPRESSION TEST TYPE FAILURE	TEST TYPE	COMMENTS
B-1	0.0 - 2.0	Very soft black peat with shell fragments (PT)	829	59.2	6.4				0.10	9	0.01	Multiple Shear	UU	41.6% Organic Content / 9.4% Fiber Content
B-1	2.0 - 4.0	Very soft brown and gray organic clay with silt pockets and roots (OH)	211	89.5	28.8	293	66	227	0.12	12	0.01	Multiple Shear	UU,AL	
B-1	4.0 - 6.0	Very soft gray organic clay with silt pockets and roots (OH)	201	84.4	28.0	201	64	137	0.08	5	0.04	Slump	UU,AL	6.1% Organic Content
B-1	8.0 - 10.0	Very soft dark gray clay with silt and organic matter (CL)	65	102.1	62.1				0.14	5	0.12	Multiple Shear	UU	
B-1	11.0 - 12.0	Very soft gray clay with silt (CL)	43	114.0	79.8	42	23	19	0.20	15	0.16	Yield	UU,AL	
B-1	12.0 - 14.0	Gray sandy silt (ML)	30										MC,M200	26.5% sand / 73.5% fines
B-1	14.0 - 16.0	Very soft gray silty clay (CL)	26	106.7	84.4				0.17	15	0.24	Yield	UU	
B-1	16.0 - 18.0	Gray very sandy clay (CL)	41										MC	
B-1	18.0 - 20.0	Gray silty sand (SM)	30										MC,M200	52.3% sand / 47.7% fines
B-1	28.0 - 30.0	Soft gray silty clay (CL)	47	111.5	75.7				0.29	15		Yield	UC	
B-2	0.0 - 1.0	Very soft brown peat (PT)	1633	61.2	3.5				0.05	5		Slump	UU	
B-2	1.0 - 2.0	Very soft brown peat (PT)	378	66.6	13.9				0.07	15		Yield	UC	
B-2	2.0 - 4.0	Very soft dark brown peat with silt pockets, shell fragments and roots (PT)	814	62.4	6.8				0.06	15	0.01	Yield	UU	56.4% Organic Content / 11.7% Fiber Content
B-2	4.0 - 6.0	Brown peat (PT)	679										MC	37.3% Organic Content
B-2	6.0 - 8.0	Very soft brown peat (PT)	597	68.6	9.9				0.07	5	0.07	Slump	UU	29.7% Organic Content / 1.1% Fiber Content
B-2	8.0 - 10.0	Dark gray sandy silt with clay (ML)	22	114.1	93.9	28	23	5	0.20	15	0.12	Yield	UU,AL,M200	25.5% sand / 74.5% fines
B-2	10.0 - 12.0	Dark gray silty clayey sand (SC-SM)	34										MC,M200	54.9% sand / 45.1% fines
B-2	14.0 - 16.0	Gray silty sand (SM)	30										MC,M200	65.9% sand / 34.1% fines
B-2	16.0 - 18.0	Dark gray silty clayey sand with shell fragments (SC-SM)	27										MC,Dry Sieve	52.4% sand / 47.6% fines
B-2	18.0 - 20.0	Gray silty sand with shell fragments (SM)	28										MC,M200	69.1% sand / 30.9% fines
B-2	23.0 - 25.0	Very soft dark gray very silty clay with sand pockets, silt lenses, and shell fragments (CL)	66	106.9	64.3				0.16	12	0.52	Bulge	UU	

GeoEngineers, Inc.
11955 Lakeland Park Blvd. Suite 100 Baton Rouge, LA 70809

Disclaimer: The results presented relate only to those samples tested.

Soil Description: ASTM(D2487) AASHTO(M145) **Moisture Content:** ASTM(D2166) AASHTO(T265)
Unit Weight: ASTM(D2166) AASHTO(T310) **Atterberg Limit:** ASTM(D4318) AASHTO(T89,T90)
Compression: ASTM(D2166,D2850) AASHTO(T208,T296)

GEOENGINEERS
Earth Science + Technology

Laboratory Test Results

Project Name: LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

Project ID: 16715-040-00

Technical Responsibility: Cathy L Perc

Title: LAB MANAGER

Date: 07/14/15

BORING NUMBER	DEPTH (FT) FROM - TO	SOIL DESCRIPTION	MOISTURE %	UNIT WEIGHT (PCF) WET	UNIT WEIGHT (PCF) DRY	ATTERBERG LIMITS LL	ATTERBERG LIMITS PL	ATTERBERG LIMITS PI	COMPRESSION TEST TSF	COMPRESSION TEST STRAIN %	COMPRESSION TEST CONFINING PRESSURE (KSF)	COMPRESSION TEST TYPE FAILURE	TEST TYPE	COMMENTS
B-2	28.0 - 30.0	Very soft gray clay with organic matter and shell fragments (CH)	111	99.6	47.2	82	26	56	0.21	6		Multiple Shear	UC,AL	
B-2	33.0 - 35.0	Soft dark gray organic clay (OH)	180	74.3	26.5				0.25	7		Multiple Shear	UC	
B-2	38.0 - 40.0	Dark gray organic clay with silt (OH)	97										MC	
B-2	43.0 - 45.0	Gray silty clay with silt pockets (CL)	64										MC	
B-2	48.0 - 50.0	Soft dark gray clay with organic matter, silt lenses and silt pockets (CH)	86	98.5	52.9	73	33	40	0.33	5		Multiple Shear	UC,AL	
B-3	1.0 - 2.0	Very soft gray and dark gray organic clay (OH)	210	76.5	24.7				0.08	14		Bulge	UU	18.6% Organic Content
B-3	3.0 - 4.0	Very soft gray organic clay with silt (OH)	186	79.6	27.8	116	38	78	0.12	8	0.01	Bulge	UU,AL	
B-3	5.0 - 6.0	Very soft gray organic clay with silt and 1" peat layers (OH)	498	80.8	13.5				0.08	6	0.04	Bulge	UU	
B-3	7.0 - 8.0	Very soft gray organic clay (OH)	141	93.1	38.6	116	48	68	0.11	5	0.09	Bulge	UU,AL	
B-3	9.0 - 10.0	Very soft gray very silty clay with sand and organics (CL)	43	110.6	77.6				0.11	11	0.12	Bulge	UU	
B-3	10.0 - 12.0	Gray sandy silt with clay (ML)	35										MC,M200	23.7% sand / 76.3% fines
B-3	12.0 - 13.0	Gray silt with clay (ML)				26	22	4					AL	
B-3	13.0 - 14.0	Gray silt with clay and sand pockets (ML)	45	116.3	80.0	30	24	6	0.50	15	0.22	Yield	UU,AL	
B-3	14.0 - 16.0	Gray clay (CH)	51			63	27	36					MC,AL	
B-3	18.0 - 20.0	Gray silty sand (SM)	25										MC,Dry Sieve	87.4% sand / 12.6% fines
B-3	23.0 - 25.0	Very soft gray clay with silt lenses, silt seams and shell fragments (CH)	71	102.5	59.8	67	28	39	0.21	7		Multiple Shear	MC,UC,AL	
B-3	28.0 - 30.0	Soft dark gray organic clay with silt lenses, and organic matter (OH)	202	89.8	29.7				0.34	6		Multiple Shear	UC	
B-4	0.0 - 2.0	Very soft brown peat with 3" organic clay layer and roots (PT)	318	77.6	18.6	365	87	278	0.16	9		Multiple Shear	UU,AL	
B-4	2.0 - 4.0	Very soft gray clay with 2" sand layer at bottom and organic matter (CH)	61	103.2	64.1				0.08	9	0.01	Multiple Shear	UU	
B-4	4.0 - 6.0	Gray sand (SP)	33										MC	

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Soil Description: ASTM(D2487) AASHTO(M145) **Moisture Content:** ASTM(D2166) AASHTO(T265)
Unit Weight: ASTM(D2166) AASHTO(T310) **Atterberg Limit:** ASTM(D4318) AASHTO(T89,T90)
Compression: ASTM(D2166,D2850) AASHTO(T208,T296)

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Laboratory Test Results

Project Name: LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

Project ID: 16715-040-00

Technical Responsibility: Cathy L Perkins

Title: LAB MANAGER

Date: 07/14/15

BORING NUMBER	DEPTH (FT) FROM - TO	SOIL DESCRIPTION	MOISTURE %	UNIT WEIGHT (PCF) WET	UNIT WEIGHT (PCF) DRY	ATTERBERG LIMITS LL	ATTERBERG LIMITS PL	ATTERBERG LIMITS PI	COMPRESSION TEST TSF	COMPRESSION TEST STRAIN %	COMPRESSION TEST CONFINING PRESSURE (KSF)	COMPRESSION TEST TYPE FAILURE	TEST TYPE	COMMENTS
B-4	6.0 - 8.0	Gray silty sand (SM)	29										MC,Dry Sieve	69.0% sand / 31.0% fines
B-4	8.0 - 10.0	Gray sand (SP)	33										MC	
B-4	10.0 - 12.0	Gray silty sand (SM)	33										MC,M200	66% sand / 34% fines
B-4	12.0 - 14.0	Gray sand with silt (SP-SM)	36										MC	
B-4	14.0 - 16.0	Gray sand (SP)	28										MC,M200	97.4% sand / 2.6% fines
B-4	18.0 - 20.0	Soft gray clay with silt lenses (CH)	92	118.0	61.6	81	35	46	0.30	14		Multiple Shear	UC,AL	
B-4	23.0 - 25.0	Gray silty clay with sand pockets and silt lenses (CL)	54										MC	
B-4	28.0 - 30.0	Soft gray clay with silt lenses and sand pockets (CH)	71	101.4	59.4	83	31	52	0.26	11		Multiple Shear	UC,AL	
B-5	0.0 - 2.0	Very soft brown peat with 3" gray organic clay layer (PT)	226	82.3	25.3				0.18	7		Multiple Shear	UU	
B-5	2.0 - 4.0	Very soft brown peat with 3" organic clay layer (PT)	262	75.9	21.0				0.08	12	0.01	Multiple Shear	UU	14.4% Organic Content / 4.0% Fiber Content
B-5	4.0 - 6.0	Medium gray clay with 2" sand layer (CH)	69	119.3	70.7	54	24	30	0.54	15	0.04	Yield	UU,AL	
B-5	6.0 - 8.0	Gray silty sand (SM)	26										MC,M200	86.7% sand / 13.3% fines
B-5	8.0 - 10.0	Gray sand (SP)	27										MC	
B-5	10.0 - 12.0	Gray sand with silt (SP-SM)	24										MC,M200	93.3% sand / 6.7% fines
B-5	12.0 - 14.0	Gray sand (SP)	23										MC,M200	96.7% sand / 3.3% fines
B-5	14.0 - 16.0	Gray silty sand with shell fragments (SM)	20										MC,M200	83.4% sand / 16.6% fines
B-5	16.0 - 18.0	Soft gray clay with sand lenses and shell fragments (CH)	96	98.0	50.1	63	30	33	0.26	4		Multiple Shear	UC,AL	
B-5	18.0 - 20.0	Very soft gray silty clay with silt lenses and shell fragments (CL)	50	105.4	70.1				0.19	9		Multiple Shear	UC	
B-6	0.0 - 2.0	Brown peat (PT)	286			298	95	203					MC,AL	
B-6	2.0 - 4.0	Very soft dark gray silty clay with silt lenses (CL)	70	110.9	65.1				0.12	7	0.01	Bulge	UU	
B-6	4.0 - 5.0	Medium gray very sandy clay with silt (CL)	29	133.5	103.8	33	18	15	0.58	15	0.03	Yield	UU,AL	
B-6	5.0 - 6.0	Very soft gray silty clay (CL)	61	115.5	71.9				0.10	15	0.04	Yield	UU,M200	4.9% sand / 95.1% fines
B-6	6.0 - 7.0	Stiff gray sandy clay with silt and organic matter (CL)	47	121.3	82.6				1.49	15	0.06	Yield	UU	

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Soil Description: ASTM(D2487) AASHTO(M145) **Moisture Content:** ASTM(D2166) AASHTO(T265)
Unit Weight: ASTM(D2166) AASHTO(T310) **Atterberg Limit:** ASTM(D4318) AASHTO(T89,T90)
Compression: ASTM(D2166,D2850) AASHTO(T208,T296)

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Laboratory Test Results

Project Name: LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

Project ID: 16715-040-00

Technical Responsibility: Cathy L. Pen

Title: LAB MANAGER

Date: 07/14/15

BORING NUMBER	DEPTH (FT) FROM - TO	SOIL DESCRIPTION	MOISTURE %	UNIT WEIGHT (PCF) WET	UNIT WEIGHT (PCF) DRY	ATTERBERG LIMITS LL	ATTERBERG LIMITS PL	ATTERBERG LIMITS PI	COMPRESSION TEST TSF	COMPRESSION TEST STRAIN %	COMPRESSION TEST CONFINING PRESSURE (KSF)	COMPRESSION TEST TYPE FAILURE	TEST TYPE	COMMENTS
B-6	7.0 - 8.0	Very soft gray sandy silty clay (CL)	48	114.9	77.9				0.17	15	0.09	Yield	UU,M200	42.1% sand / 57.9% fines
B-6	8.0 - 10.0	Very soft gray silty clay with organic lens (CL)	44	107.9	75.0	38	16	22	0.20	13	0.12	Bulge	UU,AL	
B-6	10.0 - 12.0	Gray silty sand (SM)	29										MC,M200	76.4% sand / 23.6% fines
B-6	12.0 - 14.0	Gray silty sand (SM)	19										MC,M200	83.2% sand / 16.8% fines
B-6	14.0 - 16.0	Gray sand with silt (SP-SM)	26										MC,M200	93.1% sand / 6.9% fines
B-6	16.0 - 17.0	Very soft gray very sandy clay with silt (CL)	49	116.2	77.9				0.11	11	0.30	Bulge	UU	
B-6	17.0 - 18.0	Gray silty clay (CL)	65										MC	
B-6	18.0 - 19.0	Gray clay (CH)	66			100	38	62					MC,AL	
B-6	19.0 - 20.0	Very soft gray clay with silty sand pockets and shell fragments (CH)	77	98.5	55.7				0.20	9	0.39	Bulge	UU	
B-6	23.0 - 25.0	Very soft gray silty clay with silt lenses and silt seams (CL)	40	111.1	79.2				0.21	7		Multiple Shear	UC	
B-6	28.0 - 30.0	Gray clay with silt (CL)	29			42	20	22					MC,AL	
B-7	0.0 - 2.0	Very soft brown peat with organic clay layer (PT)	1000	64.4	5.9				0.16	13		Slump	UU	57.7% Organic Content / 7.3% Fiber Content
B-7	2.0 - 4.0	Very soft brown and gray organic clay (OH)	151	82.7	32.9	164	66	98	0.06	5	0.01	Slump	UU,AL	
B-7	4.0 - 6.0	Very soft gray organic clay (OH)	302	80.7	20.1	184	57	127	0.09	4	0.04	Multiple Shear	UU,AL	
B-7	6.0 - 8.0	Very soft gray organic clay (OH)	185	83.8	29.4				0.16	5	0.09	Multiple Shear	UU	
B-7	8.0 - 10.0	Gray clay with silt pockets and organic matter (CH)	112										MC	
B-7	10.0 - 12.0	Very soft gray clay with organic matter (CH)	138	85.5	36.0	136	42	94	0.14	8	0.16	Multiple Shear	UU,AL	
B-7	12.0 - 14.0	Gray silty clay with organic matter (CL)	65										MC	
B-7	14.0 - 16.0	Very soft gray clay with silt and organic matter (CL)	79	102.5	57.3	47	26	21	0.12	13	0.27	Bulge	UU,AL	
B-7	16.0 - 18.0	Soft gray very silty clay with 1" silty sand layer (CL)	34	113.5	85.0	34	21	13	0.27	6		Multiple Shear	UC,AL	
B-7	18.0 - 20.0	Very soft gray silty clay with silt lenses and silt seams (CL)	78	101.2	57.0				0.17	8		Multiple Shear	UC	

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Soil Description: ASTM(D2487) AASHTO(M145) **Moisture Content:** ASTM(D2166) AASHTO(T265)
Unit Weight: ASTM(D2166) AASHTO(T310) **Atterberg Limit:** ASTM(D4318) AASHTO(T89,T90)
Compression: ASTM(D2166,D2850) AASHTO(T208,T296)

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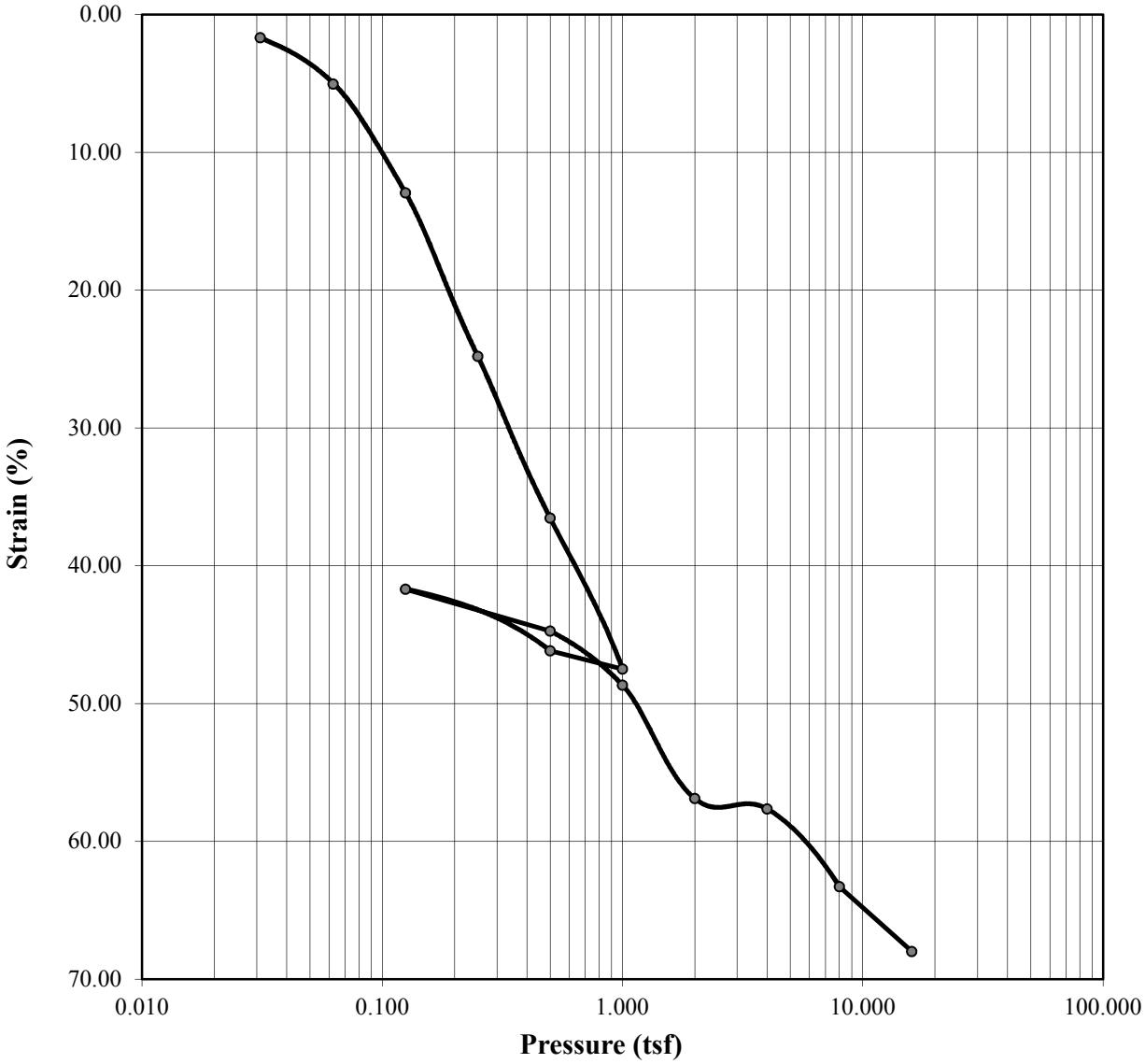
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	201	**Test Date:**	26 Mar 15
Moisture (%):	276.24	58.48	**Plastic Limits:**	64		
Dry Density (pcf):	19.84	59.42	**Plasticity Index (%):**	137		
Saturation (%):	100.76	90.68				
Void Ratio:	6.7636	1.4861	**Specific Gravity:**	2.465	Measured	

Sample Description: Organic Clay (OH)

Project Number: 16715-040-00 **Depth:** 4 - 6 feet

Sample Number: **Boring Number:** 1

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

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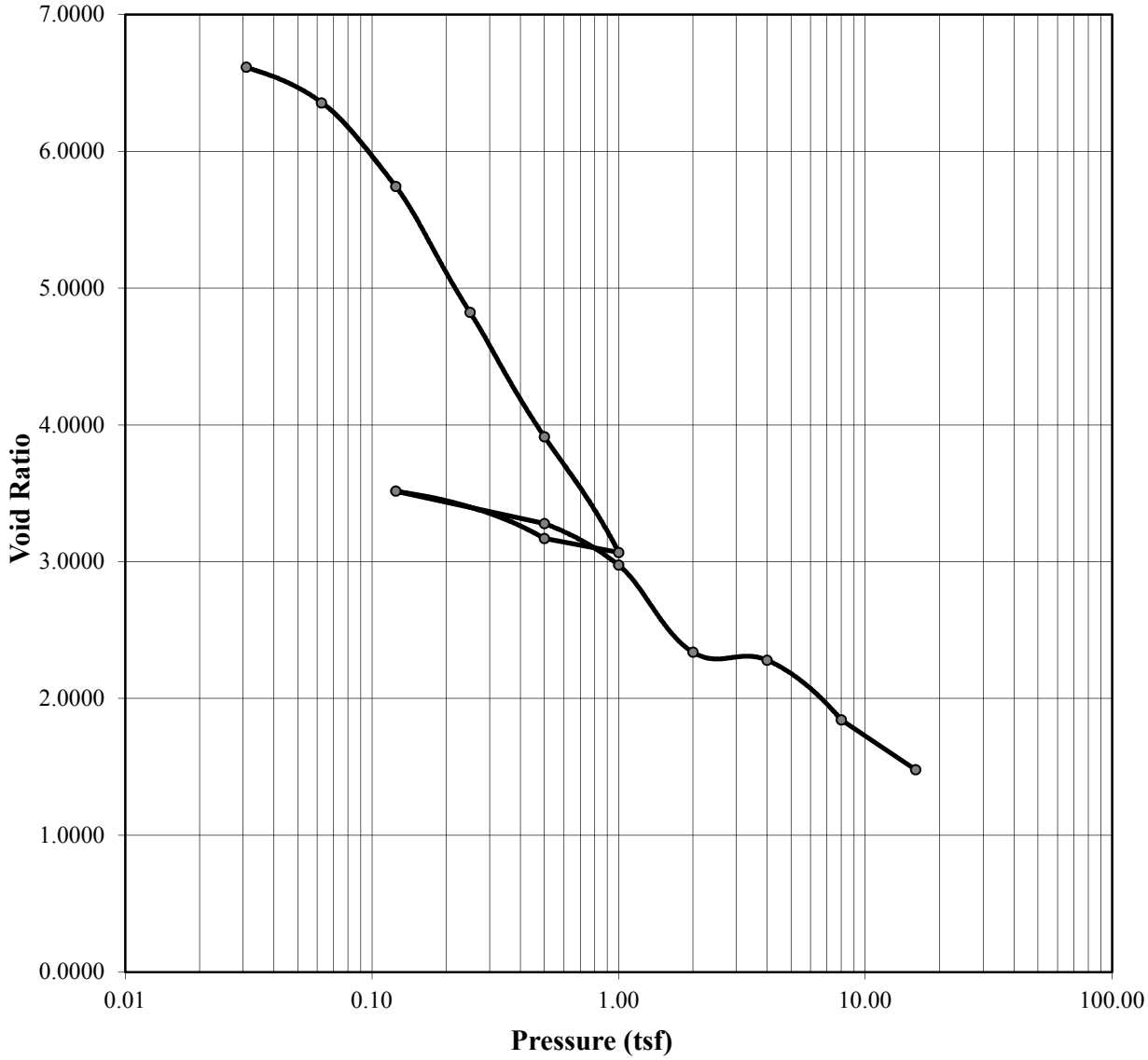
Consolidation Test
Test Results



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Remarks:

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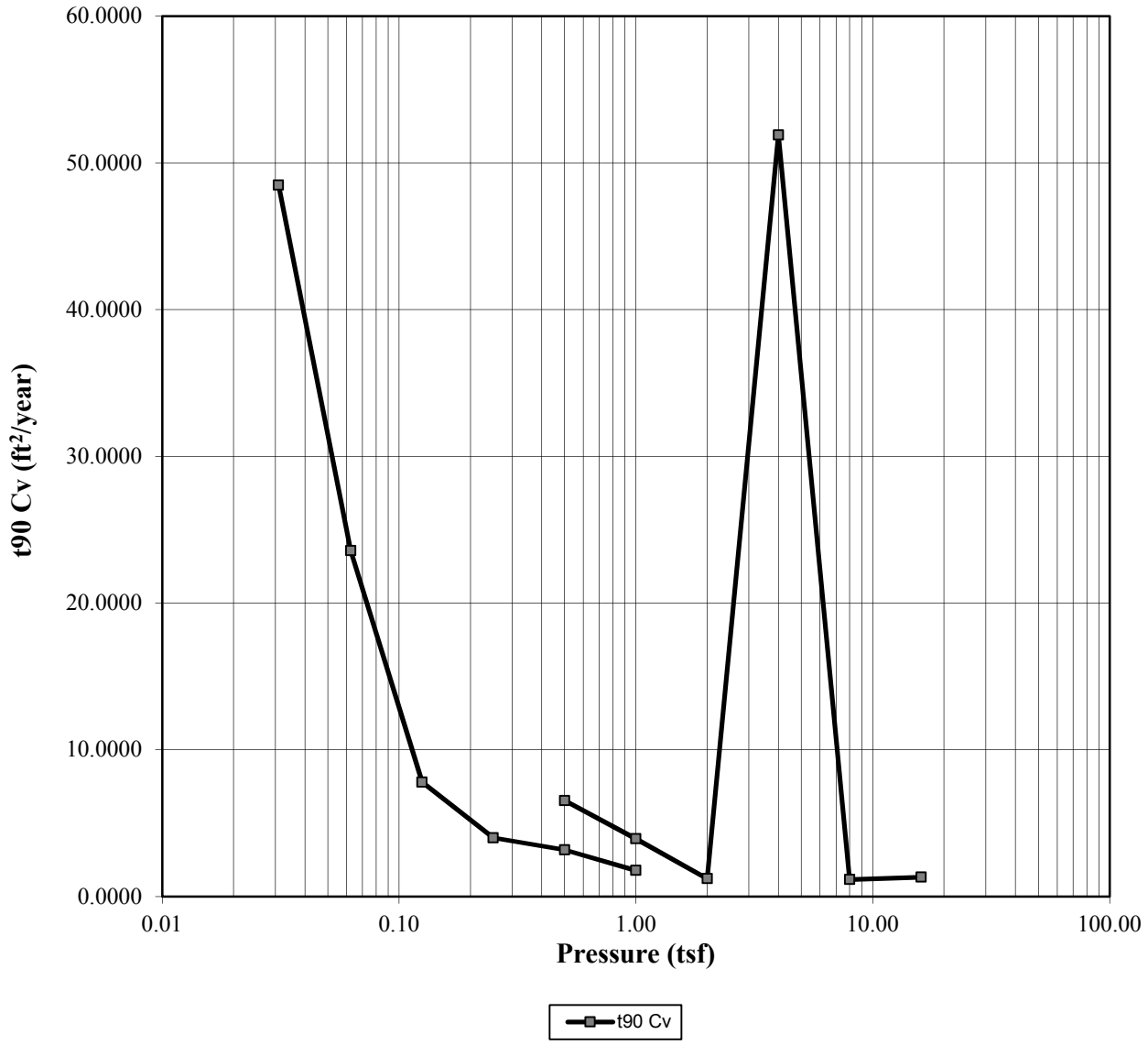
Consolidation Test
Test Results



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Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

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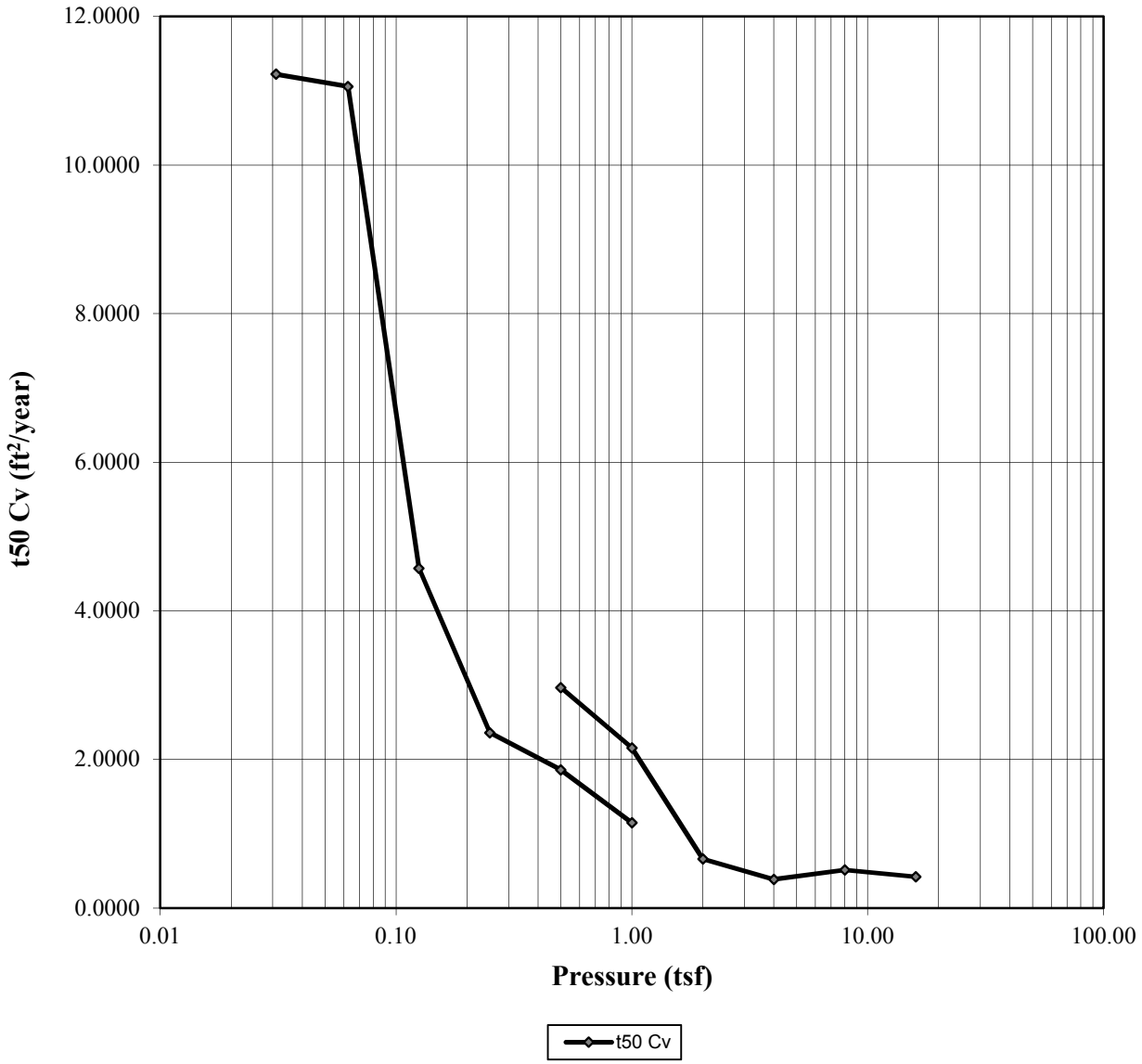
Consolidation Test
Test Results



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Project Number: 16715-040-00 **Depth:** 4 - 6 feet

Sample Number: **Boring Number:** 1

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

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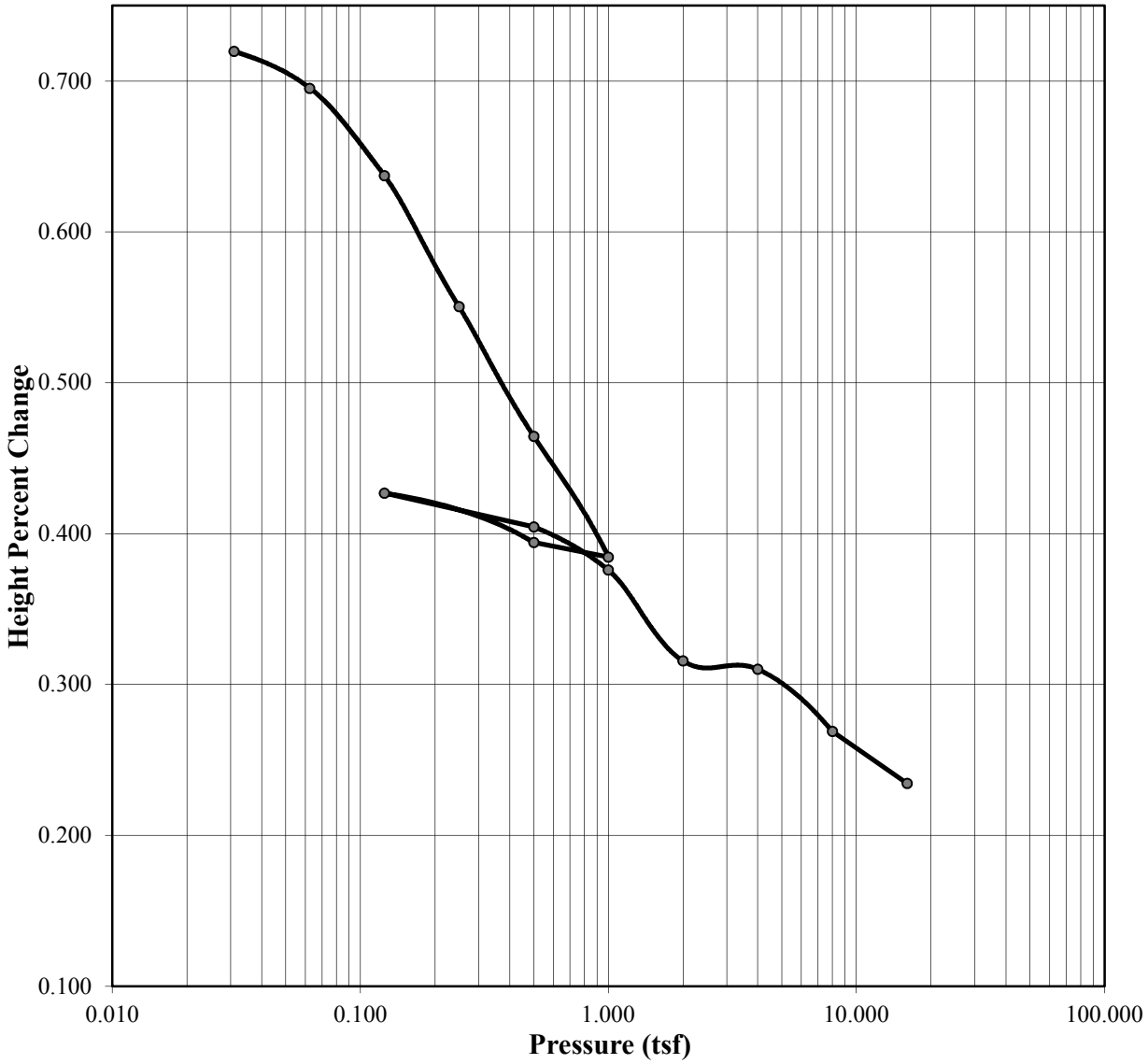
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	201	**Test Date:**	26 Mar 15
Moisture (%):	276.24	58.48	**Plastic Limits:**	64		
Dry Density (pcf):	19.84	59.42	**Plasticity Index (%):**	137		
Saturation (%):	100.76	90.68				
Void Ratio:	6.7636	1.4861	**Specific Gravity:**	2.465	Measured	

Soil Description: Organic Clay (OH)

Project Number: 16715-040-00 **Depth:** 4 - 6 feet

Sample Number: **Boring Number:** 1

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

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Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 6715-040-00

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

Sample Description: Organic Clay (OH)
Remarks:

Test Number:
Test Date: 26 Mar 15

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	0.7320	0.6375	0.00	6.7440	0.000	0.000	0.000	0.000
1	0.031	0.0123	0.7197	0.6252	1.68	6.6139	8.267	8.297	48.484	11.222
2	0.063	0.0370	0.6950	0.6005	5.05	6.3526	15.851	7.853	23.580	11.057
3	0.125	0.0947	0.6373	0.5428	12.94	5.7422	40.255	15.964	7.807	4.573
4	0.250	0.1816	0.5504	0.4559	24.81	4.8228	58.516	23.093	4.006	2.358
5	0.500	0.2675	0.4645	0.3700	36.54	3.9141	52.256	20.849	3.195	1.860
6	1.000	0.3476	0.3844	0.2899	47.49	3.0667	64.269	23.139	1.779	1.148
7	0.500	0.3379	0.3941	0.2996	46.16	3.1693	0.000	0.000	0.000	0.000
8	0.125	0.3052	0.4268	0.3323	41.69	3.5152	0.000	0.000	0.000	0.000
9	0.500	0.3275	0.4045	0.3100	44.74	3.2793	19.338	9.914	6.547	2.967
10	1.000	0.3562	0.3758	0.2813	48.66	2.9757	27.670	11.778	3.949	2.156
11	2.000	0.4164	0.3156	0.2211	56.89	2.3388	62.477	27.114	1.234	0.660
12	4.000	0.4219	0.3101	0.2156	57.64	2.2806	1.434	44.684	51.909	0.387
13	8.000	0.4632	0.2688	0.1743	63.28	1.8437	47.839	25.376	1.169	0.512
14	16.000	0.4976	0.2344	0.1399	67.98	1.4798	31.870	23.443	1.334	0.421

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 6715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 26 Mar 15

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

Sample Description: Organic Clay (OH)
Remarks:

Test Number:
Liquid Limit: 201.0000
Plastic Limit: 64.0000
Specific Gravity: 2.4650 Measured

Initial Void Ratio: 6.7636
Plasticity Index (%): 137.0000
Weight of Ring (g): 106.3000

Initial Height (in): 0.7320
Initial Diameter (in): 2.5030

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	108.94	47.39
Dry Soil + Container (g)	45.46	36.98
Weight of Container (g)	22.48	19.18
Moisture Content (%)	276.24	58.48
Void Ratio	6.7636	1.4861
Saturation (%)	100.76	90.68
Dry Density (pcf)	19.84	59.42

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

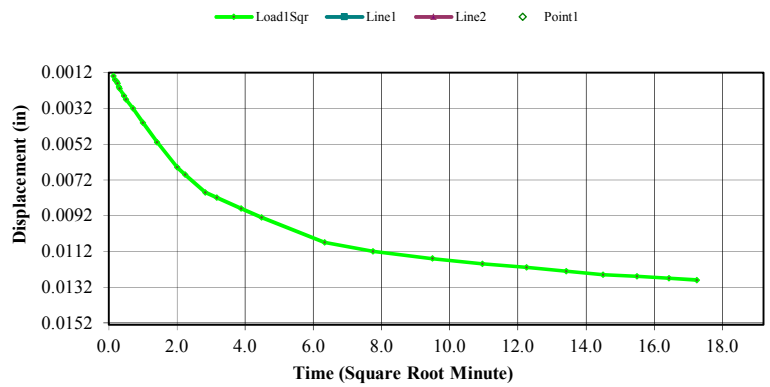
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

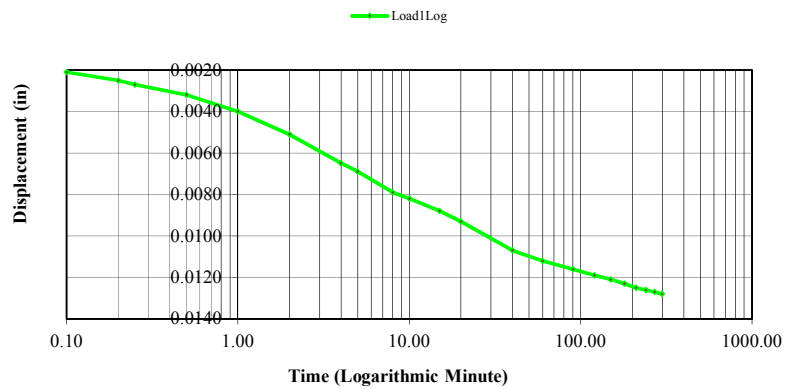
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0005	0.0000	0.0000	6.7636
1	00:00:01	0.0014	0.0009	0.1230	6.7541
2	00:00:02	0.0016	0.0011	0.1503	6.7519
3	00:00:03	0.0017	0.0012	0.1639	6.7509
4	00:00:04	0.0018	0.0013	0.1776	6.7498
5	00:00:05	0.0020	0.0015	0.2049	6.7477
6	00:00:06	0.0021	0.0016	0.2186	6.7466
7	00:00:12	0.0025	0.0020	0.2732	6.7424
8	00:00:15	0.0027	0.0022	0.3005	6.7403
9	00:00:30	0.0032	0.0027	0.3689	6.7350
10	00:01:00	0.0040	0.0035	0.4781	6.7265
11	00:02:00	0.0051	0.0046	0.6284	6.7148
12	00:04:00	0.0065	0.0060	0.8197	6.7000
13	00:05:00	0.0069	0.0064	0.8743	6.6957
14	00:08:01	0.0079	0.0074	1.0109	6.6851
15	00:10:01	0.0082	0.0077	1.0519	6.6819
16	00:15:02	0.0088	0.0083	1.1339	6.6756
17	00:20:02	0.0093	0.0088	1.2022	6.6703
18	00:40:03	0.0107	0.0102	1.3934	6.6554
19	01:00:03	0.0112	0.0107	1.4617	6.6501
20	01:30:02	0.0116	0.0111	1.5164	6.6459
21	02:00:02	0.0119	0.0114	1.5574	6.6427
22	02:30:02	0.0121	0.0116	1.5847	6.6406
23	03:00:01	0.0123	0.0118	1.6120	6.6385
24	03:30:02	0.0125	0.0120	1.6393	6.6363
25	04:00:01	0.0126	0.0121	1.6530	6.6353
26	04:30:00	0.0127	0.0122	1.6667	6.6342
27	04:57:27	0.0128	0.0123	1.6803	6.6332

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

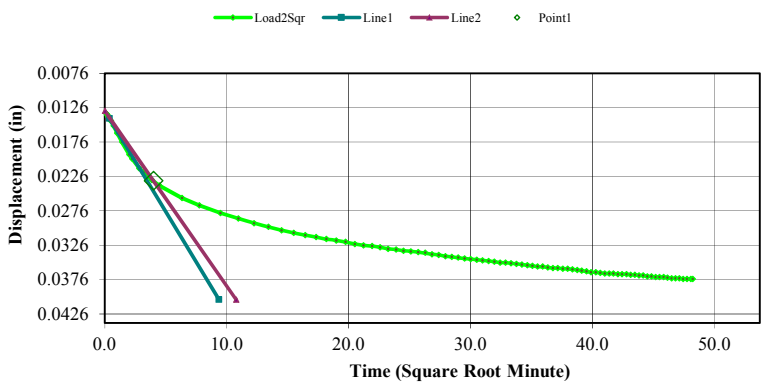
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

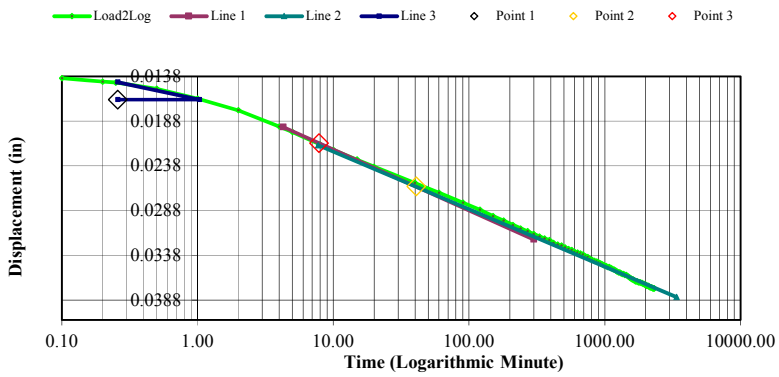
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3567	0.3562	48.6612	2.9857
1	00:00:01	0.0135	0.0130	1.7760	6.6257
2	00:00:02	0.0136	0.0131	1.7896	6.6247
3	00:00:03	0.0137	0.0132	1.8033	6.6236
4	00:00:04	0.0138	0.0133	1.8169	6.6226
5	00:00:05	0.0139	0.0134	1.8306	6.6215
6	00:00:06	0.0140	0.0135	1.8443	6.6204
7	00:00:12	0.0144	0.0139	1.8989	6.6162
8	00:00:15	0.0145	0.0140	1.9126	6.6151
9	00:00:30	0.0152	0.0147	2.0082	6.6077
10	00:01:00	0.0163	0.0158	2.1585	6.5960
11	00:02:00	0.0176	0.0171	2.3361	6.5823
12	00:04:00	0.0194	0.0189	2.5820	6.5632
13	00:04:59	0.0200	0.0195	2.6639	6.5568
14	00:07:59	0.0214	0.0209	2.8552	6.5419
15	00:09:59	0.0220	0.0215	2.9372	6.5356
16	00:14:59	0.0231	0.0226	3.0874	6.5239
17	00:19:59	0.0239	0.0234	3.1967	6.5154
18	00:39:58	0.0257	0.0252	3.4426	6.4963
19	00:59:58	0.0268	0.0263	3.5929	6.4847
20	01:29:59	0.0279	0.0274	3.7432	6.4730
21	01:59:58	0.0287	0.0282	3.8525	6.4645
22	02:29:57	0.0294	0.0289	3.9481	6.4571
23	02:59:57	0.0299	0.0294	4.0164	6.4518
24	03:29:58	0.0304	0.0299	4.0847	6.4465
25	03:59:57	0.0308	0.0303	4.1393	6.4423
26	04:29:56	0.0311	0.0306	4.1803	6.4391
27	04:59:56	0.0314	0.0309	4.2213	6.4359
28	05:29:56	0.0317	0.0312	4.2623	6.4327
29	05:59:55	0.0319	0.0314	4.2896	6.4306
30	06:29:55	0.0321	0.0316	4.3169	6.4285
31	06:59:55	0.0324	0.0319	4.3579	6.4253
32	07:29:55	0.0326	0.0321	4.3852	6.4232
33	07:59:54	0.0327	0.0322	4.3989	6.4221
34	08:29:54	0.0329	0.0324	4.4262	6.4200
35	08:59:54	0.0331	0.0326	4.4536	6.4179
36	09:29:53	0.0332	0.0327	4.4672	6.4168
37	09:59:52	0.0334	0.0329	4.4945	6.4147
38	10:29:53	0.0335	0.0330	4.5082	6.4136

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.0336	0.0331	4.5219	6.4126
40	11:29:52	0.0337	0.0332	4.5355	6.4115
41	11:59:52	0.0339	0.0334	4.5628	6.4094
42	12:29:52	0.0340	0.0335	4.5765	6.4083
43	12:59:52	0.0342	0.0337	4.6038	6.4062
44	13:29:51	0.0343	0.0338	4.6175	6.4051
45	13:59:51	0.0344	0.0339	4.6311	6.4041
46	14:29:51	0.0345	0.0340	4.6448	6.4030
47	14:59:50	0.0346	0.0341	4.6585	6.4019
48	15:29:50	0.0347	0.0342	4.6721	6.4009
49	15:59:50	0.0348	0.0343	4.6858	6.3998
50	16:29:49	0.0349	0.0344	4.6995	6.3988
51	16:59:48	0.0350	0.0345	4.7131	6.3977
52	17:29:49	0.0351	0.0346	4.7268	6.3966
53	17:59:48	0.0351	0.0346	4.7268	6.3966
54	18:29:48	0.0352	0.0347	4.7404	6.3956
55	18:59:48	0.0353	0.0348	4.7541	6.3945
56	19:29:48	0.0354	0.0349	4.7678	6.3935
57	19:59:47	0.0355	0.0350	4.7814	6.3924
58	20:29:46	0.0356	0.0351	4.7951	6.3913
59	20:59:47	0.0357	0.0352	4.8087	6.3903
60	21:29:47	0.0357	0.0352	4.8087	6.3903
61	21:59:46	0.0358	0.0353	4.8224	6.3892
62	22:29:46	0.0359	0.0354	4.8361	6.3882
63	22:59:46	0.0359	0.0354	4.8361	6.3882
64	23:29:46	0.0360	0.0355	4.8497	6.3871
65	23:59:45	0.0360	0.0355	4.8497	6.3871
66	24:29:45	0.0361	0.0356	4.8634	6.3860
67	24:59:45	0.0362	0.0357	4.8770	6.3850
68	25:29:44	0.0363	0.0358	4.8907	6.3839
69	25:59:43	0.0364	0.0359	4.9044	6.3829
70	26:29:44	0.0365	0.0360	4.9180	6.3818
71	26:59:44	0.0365	0.0360	4.9180	6.3818
72	27:29:43	0.0366	0.0361	4.9317	6.3807
73	27:59:43	0.0367	0.0362	4.9454	6.3797
74	28:29:43	0.0367	0.0362	4.9454	6.3797
75	28:59:43	0.0367	0.0362	4.9454	6.3797
76	29:29:42	0.0368	0.0363	4.9590	6.3786
77	29:59:41	0.0368	0.0363	4.9590	6.3786
78	30:29:42	0.0368	0.0363	4.9590	6.3786
79	30:59:41	0.0369	0.0364	4.9727	6.3776
80	31:29:40	0.0369	0.0364	4.9727	6.3776
81	31:59:41	0.0370	0.0365	4.9863	6.3765
82	32:29:41	0.0370	0.0365	4.9863	6.3765
83	32:59:40	0.0371	0.0366	5.0000	6.3754
84	33:29:39	0.0371	0.0366	5.0000	6.3754
85	33:59:40	0.0372	0.0367	5.0137	6.3744
86	34:29:40	0.0372	0.0367	5.0137	6.3744
87	34:59:39	0.0372	0.0367	5.0137	6.3744
88	35:29:39	0.0373	0.0368	5.0273	6.3733
89	35:59:39	0.0374	0.0369	5.0410	6.3723
90	36:29:39	0.0374	0.0369	5.0410	6.3723
91	36:59:38	0.0374	0.0369	5.0410	6.3723
92	37:29:38	0.0375	0.0370	5.0546	6.3712
93	37:59:38	0.0375	0.0370	5.0546	6.3712

94	38:29:37	0.0375	0.0370	5.0546	6.3712
95	38:43:02	0.0375	0.0370	5.0546	6.3712

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

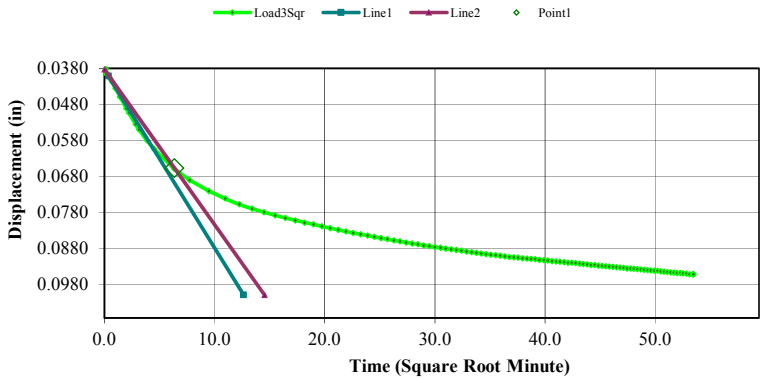
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

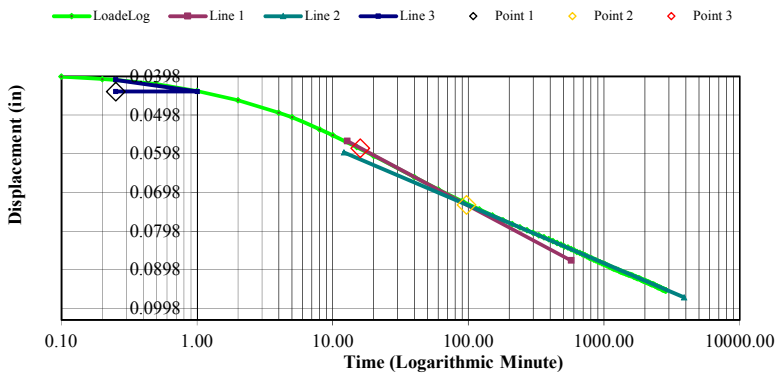
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0375	0.0370	5.0546	6.3712
1	00:00:01	0.0382	0.0377	5.1503	6.3638
2	00:00:02	0.0393	0.0388	5.3005	6.3521
3	00:00:03	0.0395	0.0390	5.3279	6.3500
4	00:00:04	0.0397	0.0392	5.3552	6.3479
5	00:00:05	0.0398	0.0393	5.3689	6.3468
6	00:00:06	0.0399	0.0394	5.3825	6.3457
7	00:00:12	0.0405	0.0400	5.4645	6.3394
8	00:00:15	0.0408	0.0403	5.5055	6.3362
9	00:00:30	0.0418	0.0413	5.6421	6.3256
10	00:01:00	0.0436	0.0431	5.8880	6.3065
11	00:02:00	0.0460	0.0455	6.2158	6.2810
12	00:04:00	0.0492	0.0487	6.6530	6.2471
13	00:05:00	0.0504	0.0499	6.8169	6.2344
14	00:08:00	0.0535	0.0530	7.2404	6.2015
15	00:10:00	0.0550	0.0545	7.4454	6.1856
16	00:15:00	0.0581	0.0576	7.8689	6.1527
17	00:20:00	0.0604	0.0599	8.1831	6.1283
18	00:40:00	0.0659	0.0654	8.9344	6.0700
19	01:00:00	0.0691	0.0686	9.3716	6.0360
20	01:29:59	0.0721	0.0716	9.7814	6.0042
21	01:59:59	0.0742	0.0737	10.0683	5.9819
22	02:29:59	0.0758	0.0753	10.2869	5.9650
23	02:59:58	0.0770	0.0765	10.4508	5.9523
24	03:29:58	0.0780	0.0775	10.5874	5.9416
25	03:59:58	0.0789	0.0784	10.7104	5.9321
26	04:29:57	0.0796	0.0791	10.8060	5.9247
27	04:59:57	0.0803	0.0798	10.9016	5.9173
28	05:29:57	0.0809	0.0804	10.9836	5.9109
29	05:59:57	0.0814	0.0809	11.0519	5.9056
30	06:29:56	0.0819	0.0814	11.1202	5.9003
31	06:59:57	0.0824	0.0819	11.1885	5.8950
32	07:29:57	0.0829	0.0824	11.2568	5.8897
33	07:59:56	0.0833	0.0828	11.3115	5.8854
34	08:29:55	0.0838	0.0833	11.3798	5.8801
35	08:59:56	0.0841	0.0836	11.4208	5.8770
36	09:29:55	0.0845	0.0840	11.4754	5.8727
37	09:59:54	0.0848	0.0843	11.5164	5.8695
38	10:29:54	0.0852	0.0847	11.5710	5.8653

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:54	0.0855	0.0850	11.6120	5.8621
40	11:29:53	0.0858	0.0853	11.6530	5.8589
41	11:59:52	0.0861	0.0856	11.6940	5.8557
42	12:29:53	0.0864	0.0859	11.7350	5.8526
43	12:59:53	0.0867	0.0862	11.7760	5.8494
44	13:29:53	0.0869	0.0864	11.8033	5.8473
45	13:59:52	0.0872	0.0867	11.8443	5.8441
46	14:29:51	0.0874	0.0869	11.8716	5.8420
47	14:59:52	0.0877	0.0872	11.9126	5.8388
48	15:29:51	0.0879	0.0874	11.9399	5.8366
49	15:59:50	0.0881	0.0876	11.9672	5.8345
50	16:29:50	0.0883	0.0878	11.9945	5.8324
51	16:59:51	0.0885	0.0880	12.0219	5.8303
52	17:29:50	0.0887	0.0882	12.0492	5.8282
53	17:59:49	0.0889	0.0884	12.0765	5.8260
54	18:29:49	0.0891	0.0886	12.1038	5.8239
55	18:59:50	0.0893	0.0888	12.1311	5.8218
56	19:29:49	0.0895	0.0890	12.1585	5.8197
57	19:59:48	0.0896	0.0891	12.1721	5.8186
58	20:29:48	0.0898	0.0893	12.1995	5.8165
59	20:59:48	0.0899	0.0894	12.2131	5.8154
60	21:29:48	0.0901	0.0896	12.2404	5.8133
61	21:59:47	0.0903	0.0898	12.2678	5.8112
62	22:29:47	0.0904	0.0899	12.2814	5.8101
63	22:59:47	0.0905	0.0900	12.2951	5.8091
64	23:29:47	0.0906	0.0901	12.3087	5.8080
65	23:59:46	0.0908	0.0903	12.3361	5.8059
66	24:29:46	0.0909	0.0904	12.3497	5.8048
67	24:59:46	0.0910	0.0905	12.3634	5.8038
68	25:29:45	0.0911	0.0906	12.3770	5.8027
69	25:59:45	0.0912	0.0907	12.3907	5.8016
70	26:29:46	0.0913	0.0908	12.4044	5.8006
71	26:59:45	0.0914	0.0909	12.4180	5.7995
72	27:29:44	0.0916	0.0911	12.4454	5.7974
73	27:59:45	0.0917	0.0912	12.4590	5.7963
74	28:29:45	0.0918	0.0913	12.4727	5.7953
75	28:59:44	0.0919	0.0914	12.4863	5.7942
76	29:29:43	0.0920	0.0915	12.5000	5.7932
77	29:59:44	0.0920	0.0915	12.5000	5.7932
78	30:29:44	0.0921	0.0916	12.5137	5.7921
79	30:59:43	0.0923	0.0918	12.5410	5.7900
80	31:29:42	0.0924	0.0919	12.5546	5.7889
81	31:59:43	0.0925	0.0920	12.5683	5.7879
82	32:29:43	0.0927	0.0922	12.5956	5.7857
83	32:59:42	0.0927	0.0922	12.5956	5.7857
84	33:29:41	0.0928	0.0923	12.6093	5.7847
85	33:59:41	0.0929	0.0924	12.6230	5.7836
86	34:29:41	0.0930	0.0925	12.6366	5.7826
87	34:59:40	0.0931	0.0926	12.6503	5.7815
88	35:29:39	0.0932	0.0927	12.6639	5.7804
89	35:59:41	0.0933	0.0928	12.6776	5.7794
90	36:29:40	0.0934	0.0929	12.6913	5.7783
91	36:59:39	0.0935	0.0930	12.7049	5.7773
92	37:29:38	0.0936	0.0931	12.7186	5.7762
93	37:59:39	0.0936	0.0931	12.7186	5.7762

94	38:29:39	0.0937	0.0932	12.7322	5.7751
95	38:59:38	0.0938	0.0933	12.7459	5.7741
96	39:29:38	0.0939	0.0934	12.7596	5.7730
97	39:59:38	0.0940	0.0935	12.7732	5.7720
98	40:29:38	0.0941	0.0936	12.7869	5.7709
99	40:59:37	0.0942	0.0937	12.8005	5.7698
100	41:29:36	0.0943	0.0938	12.8142	5.7688
101	41:59:36	0.0943	0.0938	12.8142	5.7688
102	42:29:36	0.0944	0.0939	12.8279	5.7677
103	42:59:36	0.0945	0.0940	12.8415	5.7666
104	43:29:35	0.0946	0.0941	12.8552	5.7656
105	43:59:34	0.0947	0.0942	12.8689	5.7645
106	44:29:35	0.0948	0.0943	12.8825	5.7635
107	44:59:34	0.0949	0.0944	12.8962	5.7624
108	45:29:33	0.0949	0.0944	12.8962	5.7624
109	45:59:32	0.0950	0.0945	12.9098	5.7613
110	46:29:33	0.0951	0.0946	12.9235	5.7603
111	46:59:32	0.0952	0.0947	12.9372	5.7592
112	47:29:32	0.0952	0.0947	12.9372	5.7592
113	47:37:02	0.0952	0.0947	12.9372	5.7592
114	47:37:04	0.0952	0.0947	12.9372	5.7592

Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

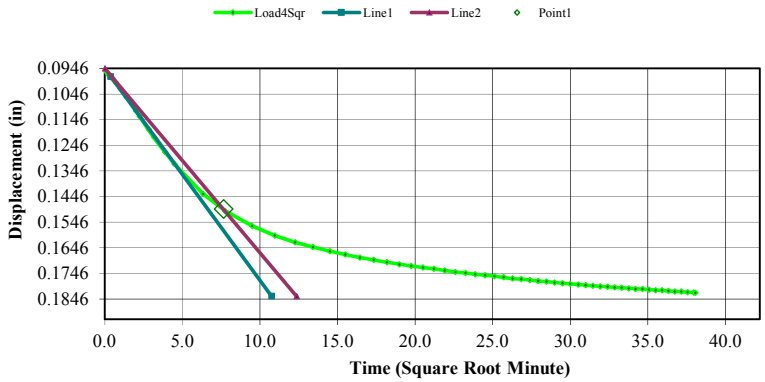
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

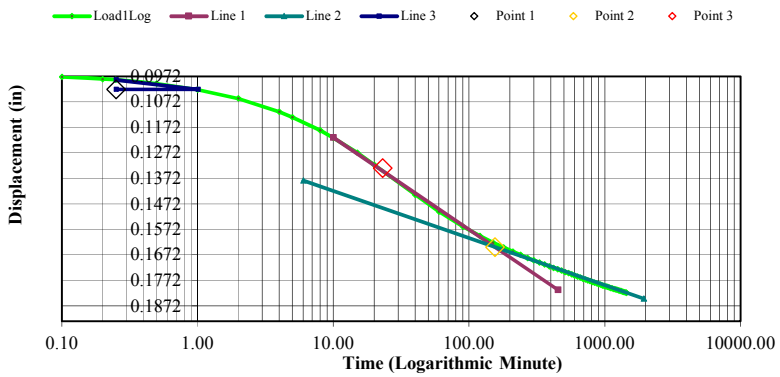
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0952	0.0947	12.9372	5.7592
1	00:00:01	0.0960	0.0955	13.0464	5.7507
2	00:00:02	0.0965	0.0960	13.1148	5.7454
3	00:00:03	0.0968	0.0963	13.1557	5.7423
4	00:00:04	0.0970	0.0965	13.1831	5.7401
5	00:00:05	0.0972	0.0967	13.2104	5.7380
6	00:00:06	0.0974	0.0969	13.2377	5.7359
7	00:00:12	0.0983	0.0978	13.3607	5.7263
8	00:00:15	0.0986	0.0981	13.4016	5.7232
9	00:00:30	0.1001	0.0996	13.6066	5.7073
10	00:01:00	0.1024	0.1019	13.9208	5.6829
11	00:02:00	0.1059	0.1054	14.3989	5.6457
12	00:04:00	0.1111	0.1106	15.1093	5.5906
13	00:05:00	0.1132	0.1127	15.3962	5.5683
14	00:08:00	0.1184	0.1179	16.1066	5.5132
15	00:10:00	0.1214	0.1209	16.5164	5.4813
16	00:15:00	0.1272	0.1267	17.3087	5.4198
17	00:20:00	0.1319	0.1314	17.9508	5.3700
18	00:40:00	0.1436	0.1431	19.5492	5.2459
19	01:00:00	0.1502	0.1497	20.4508	5.1759
20	01:30:00	0.1561	0.1556	21.2568	5.1133
21	01:59:59	0.1598	0.1593	21.7623	5.0741
22	02:29:58	0.1624	0.1619	22.1175	5.0465
23	02:59:59	0.1643	0.1638	22.3771	5.0263
24	03:29:59	0.1659	0.1654	22.5956	5.0094
25	03:59:59	0.1672	0.1667	22.7732	4.9956
26	04:29:58	0.1684	0.1679	22.9372	4.9829
27	04:59:58	0.1693	0.1688	23.0601	4.9733
28	05:29:58	0.1702	0.1697	23.1831	4.9638
29	05:59:57	0.1710	0.1705	23.2923	4.9553
30	06:29:57	0.1717	0.1712	23.3880	4.9479
31	06:59:56	0.1723	0.1718	23.4699	4.9415
32	07:29:56	0.1728	0.1723	23.5383	4.9362
33	07:59:56	0.1734	0.1729	23.6202	4.9298
34	08:29:55	0.1740	0.1735	23.7022	4.9235
35	08:59:54	0.1744	0.1739	23.7568	4.9192
36	09:29:55	0.1749	0.1744	23.8251	4.9139
37	09:59:55	0.1753	0.1748	23.8798	4.9097
38	10:29:55	0.1757	0.1752	23.9344	4.9054

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:54	0.1761	0.1756	23.9891	4.9012
40	11:29:53	0.1766	0.1761	24.0574	4.8959
41	11:59:53	0.1768	0.1763	24.0847	4.8938
42	12:29:53	0.1772	0.1767	24.1393	4.8895
43	12:59:53	0.1775	0.1770	24.1803	4.8863
44	13:29:52	0.1778	0.1773	24.2213	4.8832
45	13:59:51	0.1781	0.1776	24.2623	4.8800
46	14:29:51	0.1784	0.1779	24.3033	4.8768
47	14:59:52	0.1787	0.1782	24.3443	4.8736
48	15:29:51	0.1789	0.1784	24.3716	4.8715
49	15:59:50	0.1792	0.1787	24.4126	4.8683
50	16:29:49	0.1794	0.1789	24.4399	4.8662
51	16:59:50	0.1796	0.1791	24.4672	4.8641
52	17:29:50	0.1798	0.1793	24.4945	4.8620
53	17:59:49	0.1800	0.1795	24.5219	4.8598
54	18:29:48	0.1802	0.1797	24.5492	4.8577
55	18:59:48	0.1804	0.1799	24.5765	4.8556
56	19:29:49	0.1806	0.1801	24.6038	4.8535
57	19:59:48	0.1807	0.1802	24.6175	4.8524
58	20:29:47	0.1809	0.1804	24.6448	4.8503
59	20:59:47	0.1811	0.1806	24.6721	4.8482
60	21:29:47	0.1812	0.1807	24.6858	4.8471
61	21:59:47	0.1814	0.1809	24.7131	4.8450
62	22:29:46	0.1816	0.1811	24.7404	4.8429
63	22:59:46	0.1817	0.1812	24.7541	4.8418
64	23:29:46	0.1819	0.1814	24.7814	4.8397
65	23:59:46	0.1820	0.1815	24.7951	4.8386
66	24:07:55	0.1821	0.1816	24.8087	4.8376

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

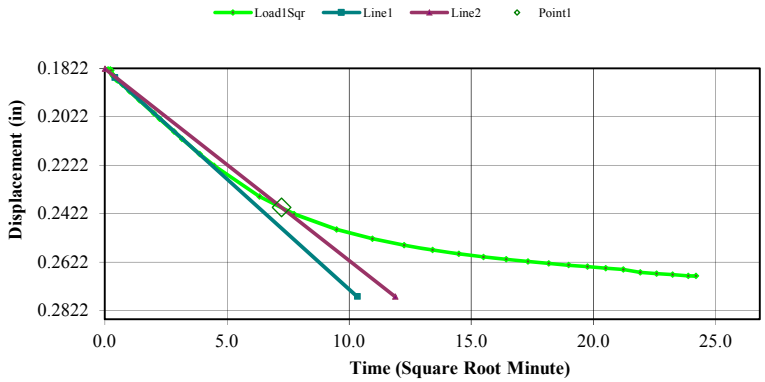
Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

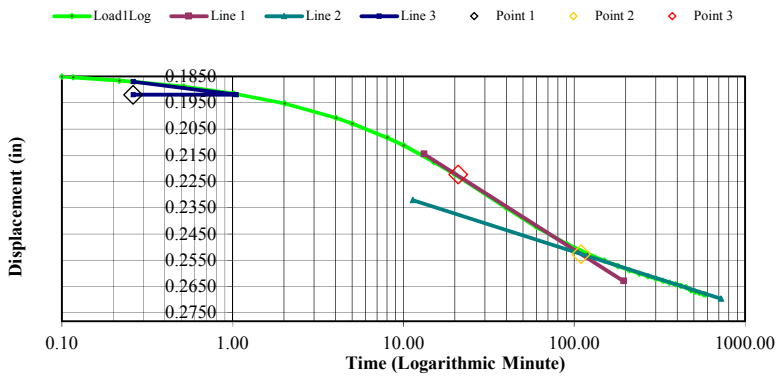
Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1821	0.1816	24.8087	4.8376
1	00:00:01	0.1827	0.1822	24.8907	4.8312
2	00:00:03	0.1827	0.1822	24.8907	4.8312
3	00:00:04	0.1830	0.1825	24.9317	4.8280
4	00:00:05	0.1845	0.1840	25.1366	4.8121
5	00:00:06	0.1851	0.1846	25.2186	4.8057
6	00:00:07	0.1854	0.1849	25.2596	4.8026
7	00:00:13	0.1867	0.1862	25.4372	4.7888
8	00:00:16	0.1871	0.1866	25.4918	4.7845
9	00:00:31	0.1889	0.1884	25.7377	4.7654
10	00:01:01	0.1916	0.1911	26.1066	4.7368
11	00:02:01	0.1953	0.1948	26.6120	4.6976
12	00:04:01	0.2008	0.2003	27.3634	4.6392
13	00:05:01	0.2030	0.2025	27.6639	4.6159
14	00:08:01	0.2083	0.2078	28.3880	4.5597
15	00:10:01	0.2113	0.2108	28.7978	4.5279
16	00:15:01	0.2176	0.2171	29.6585	4.4610
17	00:20:01	0.2224	0.2219	30.3142	4.4101
18	00:40:00	0.2352	0.2347	32.0628	4.2744
19	01:00:00	0.2424	0.2419	33.0464	4.1980
20	01:30:01	0.2488	0.2483	33.9208	4.1301
21	02:00:00	0.2526	0.2521	34.4399	4.0898
22	02:29:59	0.2552	0.2547	34.7951	4.0623
23	02:59:59	0.2572	0.2567	35.0683	4.0410
24	03:29:59	0.2588	0.2583	35.2869	4.0241
25	03:59:59	0.2601	0.2596	35.4645	4.0103
26	04:29:57	0.2611	0.2606	35.6011	3.9997
27	04:59:58	0.2620	0.2615	35.7240	3.9901
28	05:29:58	0.2628	0.2623	35.8333	3.9817
29	05:59:58	0.2635	0.2630	35.9290	3.9742
30	06:29:57	0.2641	0.2636	36.0109	3.9679
31	06:59:57	0.2648	0.2643	36.1066	3.9604
32	07:29:57	0.2653	0.2648	36.1749	3.9551
33	07:59:56	0.2665	0.2660	36.3388	3.9424
34	08:29:55	0.2670	0.2665	36.4071	3.9371
35	08:59:56	0.2674	0.2669	36.4618	3.9329
36	09:29:56	0.2679	0.2674	36.5301	3.9276
37	09:44:55	0.2680	0.2675	36.5437	3.9265

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

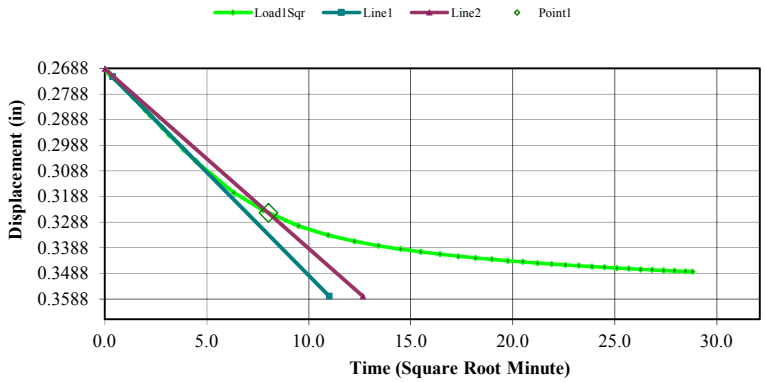
Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

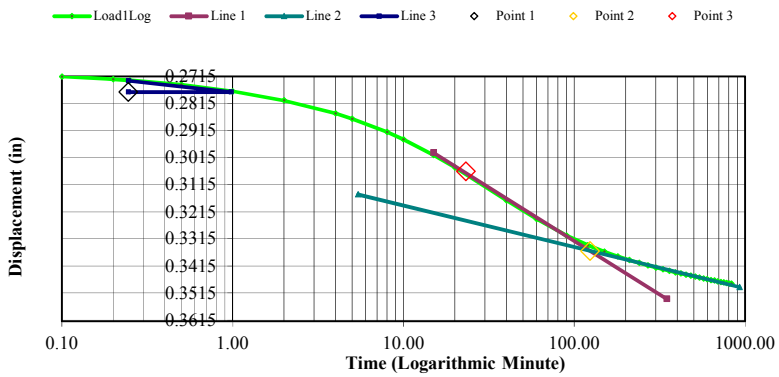
Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2680	0.2675	36.5437	3.9265
1	00:00:01	0.2700	0.2695	36.8169	3.9053
2	00:00:02	0.2705	0.2700	36.8852	3.9000
3	00:00:03	0.2708	0.2703	36.9262	3.8968
4	00:00:04	0.2711	0.2706	36.9672	3.8936
5	00:00:05	0.2713	0.2708	36.9945	3.8915
6	00:00:06	0.2716	0.2711	37.0355	3.8883
7	00:00:12	0.2726	0.2721	37.1721	3.8777
8	00:00:15	0.2730	0.2725	37.2268	3.8735
9	00:00:30	0.2746	0.2741	37.4454	3.8565
10	00:01:00	0.2770	0.2765	37.7732	3.8310
11	00:02:00	0.2804	0.2799	38.2377	3.7950
12	00:04:00	0.2852	0.2847	38.8934	3.7441
13	00:05:00	0.2872	0.2867	39.1667	3.7229
14	00:08:00	0.2920	0.2915	39.8224	3.6720
15	00:10:00	0.2948	0.2943	40.2049	3.6423
16	00:15:00	0.3006	0.3001	40.9973	3.5807
17	00:19:59	0.3051	0.3046	41.6120	3.5330
18	00:39:59	0.3173	0.3168	43.2787	3.4036
19	00:59:59	0.3242	0.3237	44.2213	3.3304
20	01:29:59	0.3303	0.3298	45.0546	3.2657
21	01:59:59	0.3339	0.3334	45.5465	3.2276
22	02:29:57	0.3362	0.3357	45.8607	3.2032
23	02:59:58	0.3380	0.3375	46.1066	3.1841
24	03:29:58	0.3393	0.3388	46.2841	3.1703
25	03:59:58	0.3404	0.3399	46.4344	3.1586
26	04:29:57	0.3413	0.3408	46.5574	3.1491
27	04:59:57	0.3421	0.3416	46.6667	3.1406
28	05:29:57	0.3427	0.3422	46.7486	3.1342
29	05:59:56	0.3433	0.3428	46.8306	3.1279
30	06:29:56	0.3439	0.3434	46.9126	3.1215
31	06:59:55	0.3443	0.3438	46.9672	3.1173
32	07:29:55	0.3447	0.3442	47.0219	3.1130
33	07:59:54	0.3451	0.3446	47.0765	3.1088
34	08:29:54	0.3455	0.3450	47.1311	3.1045
35	08:59:55	0.3458	0.3453	47.1721	3.1014
36	09:29:54	0.3461	0.3456	47.2131	3.0982
37	09:59:53	0.3464	0.3459	47.2541	3.0950
38	10:29:53	0.3467	0.3462	47.2951	3.0918

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.3469	0.3464	47.3224	3.0897
40	11:29:53	0.3472	0.3467	47.3634	3.0865
41	11:59:52	0.3474	0.3469	47.3907	3.0844
42	12:29:52	0.3476	0.3471	47.4180	3.0823
43	12:59:52	0.3478	0.3473	47.4454	3.0801
44	13:29:51	0.3480	0.3475	47.4727	3.0780
45	13:49:15	0.3481	0.3476	47.4863	3.0770

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

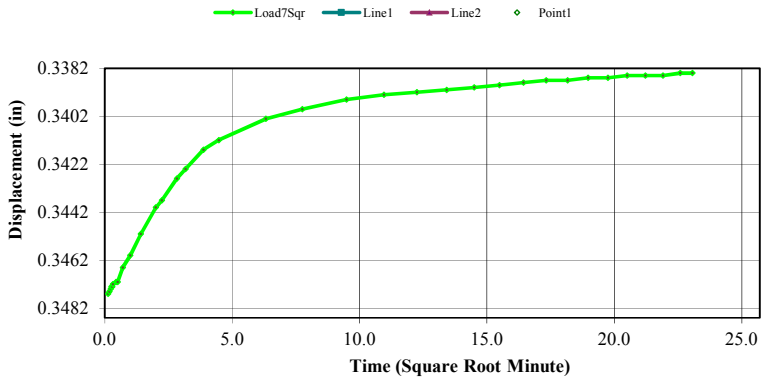
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

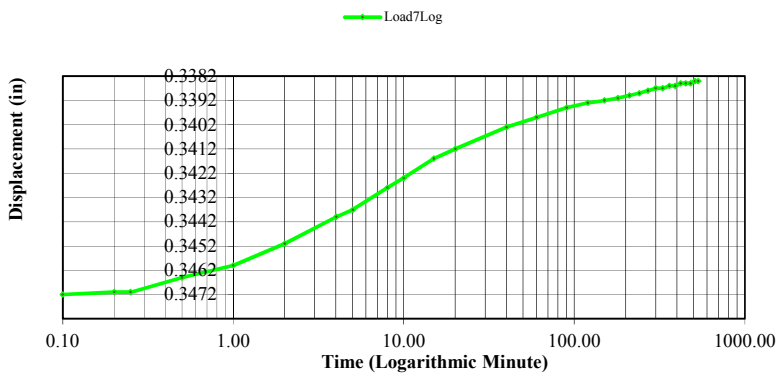
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3481	0.3476	47.4863	3.0770
1	00:00:01	0.3476	0.3471	47.4180	3.0823
2	00:00:02	0.3475	0.3470	47.4044	3.0833
3	00:00:03	0.3474	0.3469	47.3907	3.0844
4	00:00:04	0.3473	0.3468	47.3770	3.0854
5	00:00:05	0.3473	0.3468	47.3770	3.0854
6	00:00:06	0.3472	0.3467	47.3634	3.0865
7	00:00:12	0.3471	0.3466	47.3497	3.0876
8	00:00:15	0.3471	0.3466	47.3497	3.0876
9	00:00:30	0.3465	0.3460	47.2678	3.0939
10	00:01:00	0.3460	0.3455	47.1995	3.0992
11	00:02:00	0.3451	0.3446	47.0765	3.1088
12	00:04:01	0.3440	0.3435	46.9262	3.1204
13	00:05:01	0.3437	0.3432	46.8852	3.1236
14	00:08:01	0.3428	0.3423	46.7623	3.1332
15	00:10:00	0.3424	0.3419	46.7076	3.1374
16	00:15:00	0.3416	0.3411	46.5984	3.1459
17	00:20:00	0.3412	0.3407	46.5437	3.1501
18	00:40:00	0.3403	0.3398	46.4208	3.1597
19	01:00:00	0.3399	0.3394	46.3661	3.1639
20	01:30:00	0.3395	0.3390	46.3115	3.1682
21	01:59:59	0.3393	0.3388	46.2841	3.1703
22	02:29:59	0.3392	0.3387	46.2705	3.1714
23	02:59:59	0.3391	0.3386	46.2568	3.1724
24	03:29:58	0.3390	0.3385	46.2432	3.1735
25	03:59:58	0.3389	0.3384	46.2295	3.1745
26	04:29:58	0.3388	0.3383	46.2158	3.1756
27	04:59:58	0.3387	0.3382	46.2022	3.1767
28	05:29:57	0.3387	0.3382	46.2022	3.1767
29	05:59:56	0.3386	0.3381	46.1885	3.1777
30	06:29:57	0.3386	0.3381	46.1885	3.1777
31	06:59:56	0.3385	0.3380	46.1749	3.1788
32	07:29:55	0.3385	0.3380	46.1749	3.1788
33	07:59:55	0.3385	0.3380	46.1749	3.1788
34	08:29:55	0.3384	0.3379	46.1612	3.1798
35	08:51:55	0.3384	0.3379	46.1612	3.1798

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

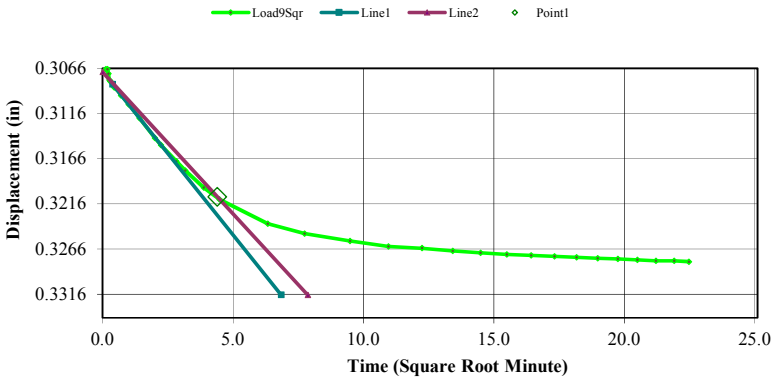
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

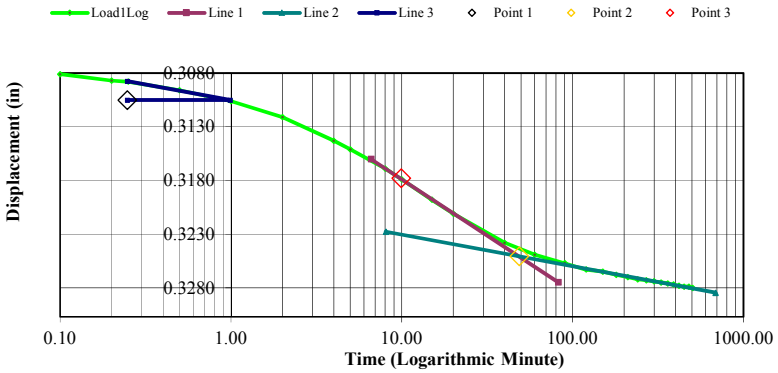
Soil Description:
Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3057	0.3052	41.6940	3.5267
1	00:00:01	0.3067	0.3062	41.8306	3.5160
2	00:00:02	0.3067	0.3062	41.8306	3.5160
3	00:00:03	0.3072	0.3067	41.8989	3.5107
4	00:00:04	0.3079	0.3074	41.9945	3.5033
5	00:00:05	0.3080	0.3075	42.0082	3.5023
6	00:00:06	0.3081	0.3076	42.0219	3.5012
7	00:00:12	0.3087	0.3082	42.1038	3.4948
8	00:00:15	0.3088	0.3083	42.1175	3.4938
9	00:00:30	0.3096	0.3091	42.2268	3.4853
10	00:01:00	0.3106	0.3101	42.3634	3.4747
11	00:02:00	0.3121	0.3116	42.5683	3.4588
12	00:04:00	0.3143	0.3138	42.8689	3.4354
13	00:05:00	0.3151	0.3146	42.9781	3.4270
14	00:08:00	0.3169	0.3164	43.2240	3.4079
15	00:10:00	0.3179	0.3174	43.3607	3.3973
16	00:15:01	0.3198	0.3193	43.6202	3.3771
17	00:20:01	0.3211	0.3206	43.7978	3.3633
18	00:40:01	0.3238	0.3233	44.1667	3.3347
19	01:00:01	0.3249	0.3244	44.3169	3.3230
20	01:30:00	0.3257	0.3252	44.4262	3.3145
21	01:59:59	0.3263	0.3258	44.5082	3.3082
22	02:29:59	0.3265	0.3260	44.5355	3.3060
23	02:59:59	0.3268	0.3263	44.5765	3.3029
24	03:29:59	0.3270	0.3265	44.6038	3.3007
25	03:59:57	0.3272	0.3267	44.6311	3.2986
26	04:29:58	0.3273	0.3268	44.6448	3.2976
27	04:59:58	0.3274	0.3269	44.6585	3.2965
28	05:29:57	0.3275	0.3270	44.6721	3.2954
29	05:59:56	0.3276	0.3271	44.6858	3.2944
30	06:29:56	0.3277	0.3272	44.6995	3.2933
31	06:59:56	0.3278	0.3273	44.7131	3.2923
32	07:29:56	0.3279	0.3274	44.7268	3.2912
33	07:59:55	0.3279	0.3274	44.7268	3.2912
34	08:24:50	0.3280	0.3275	44.7404	3.2901

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

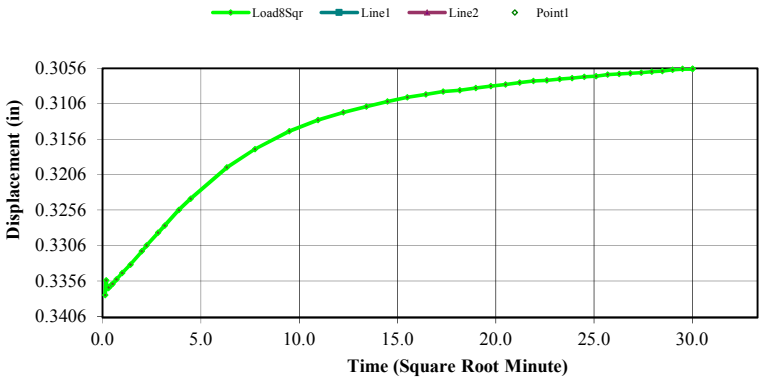
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

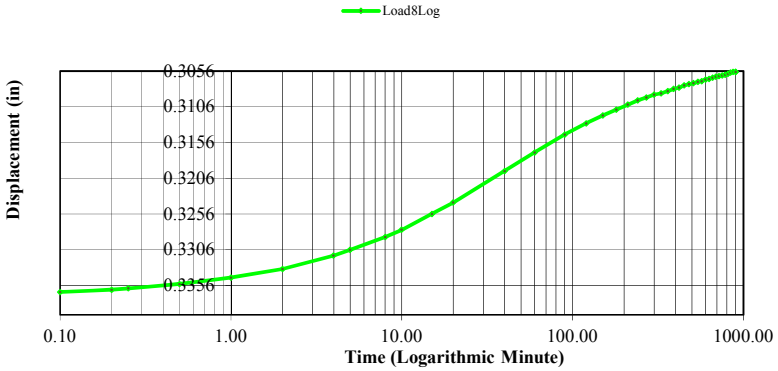
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3384	0.3379	46.1612	3.1798
1	00:00:01	0.3376	0.3371	46.0519	3.1883
2	00:00:02	0.3355	0.3350	45.7650	3.2106
3	00:00:03	0.3365	0.3360	45.9016	3.2000
4	00:00:04	0.3366	0.3361	45.9153	3.1989
5	00:00:05	0.3366	0.3361	45.9153	3.1989
6	00:00:06	0.3365	0.3360	45.9016	3.2000
7	00:00:12	0.3362	0.3357	45.8607	3.2032
8	00:00:15	0.3360	0.3355	45.8333	3.2053
9	00:00:30	0.3354	0.3349	45.7514	3.2117
10	00:01:00	0.3345	0.3340	45.6284	3.2212
11	00:02:00	0.3333	0.3328	45.4645	3.2339
12	00:03:59	0.3314	0.3309	45.2049	3.2541
13	00:04:59	0.3306	0.3301	45.0956	3.2626
14	00:07:59	0.3288	0.3283	44.8497	3.2817
15	00:09:59	0.3278	0.3273	44.7131	3.2923
16	00:14:59	0.3256	0.3251	44.4126	3.3156
17	00:19:59	0.3240	0.3235	44.1940	3.3326
18	00:39:58	0.3196	0.3191	43.5929	3.3792
19	00:59:58	0.3170	0.3165	43.2377	3.4068
20	01:29:59	0.3145	0.3140	42.8962	3.4333
21	01:59:59	0.3129	0.3124	42.6776	3.4503
22	02:29:58	0.3118	0.3113	42.5273	3.4620
23	02:59:57	0.3110	0.3105	42.4180	3.4704
24	03:29:57	0.3103	0.3098	42.3224	3.4779
25	03:59:58	0.3097	0.3092	42.2404	3.4842
26	04:29:57	0.3093	0.3088	42.1858	3.4885
27	04:59:56	0.3089	0.3084	42.1311	3.4927
28	05:29:57	0.3087	0.3082	42.1038	3.4948
29	05:59:57	0.3084	0.3079	42.0628	3.4980
30	06:29:56	0.3081	0.3076	42.0219	3.5012
31	06:59:55	0.3079	0.3074	41.9945	3.5033
32	07:29:55	0.3076	0.3071	41.9536	3.5065
33	07:59:55	0.3074	0.3069	41.9262	3.5086
34	08:29:55	0.3073	0.3068	41.9126	3.5097
35	08:59:54	0.3071	0.3066	41.8852	3.5118
36	09:29:54	0.3070	0.3065	41.8716	3.5129
37	09:59:54	0.3068	0.3063	41.8443	3.5150
38	10:29:53	0.3067	0.3062	41.8306	3.5160

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:52	0.3065	0.3060	41.8033	3.5182
40	11:29:53	0.3064	0.3059	41.7896	3.5192
41	11:59:53	0.3063	0.3058	41.7760	3.5203
42	12:29:52	0.3062	0.3057	41.7623	3.5214
43	12:59:51	0.3061	0.3056	41.7486	3.5224
44	13:29:52	0.3060	0.3055	41.7350	3.5235
45	13:59:51	0.3058	0.3053	41.7076	3.5256
46	14:29:51	0.3057	0.3052	41.6940	3.5267
47	14:59:50	0.3057	0.3052	41.6940	3.5267
48	15:00:11	0.3057	0.3052	41.6940	3.5267

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

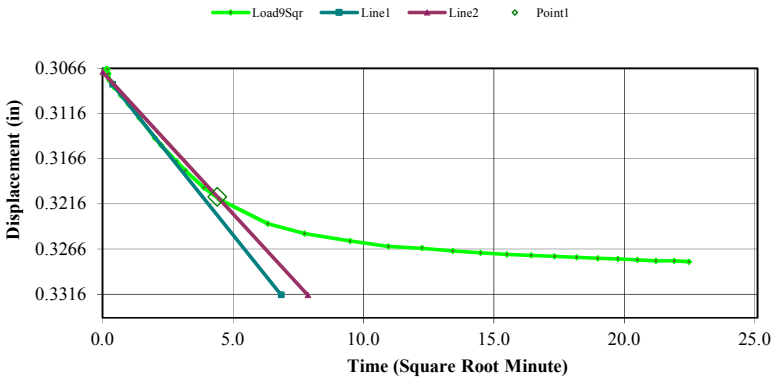
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

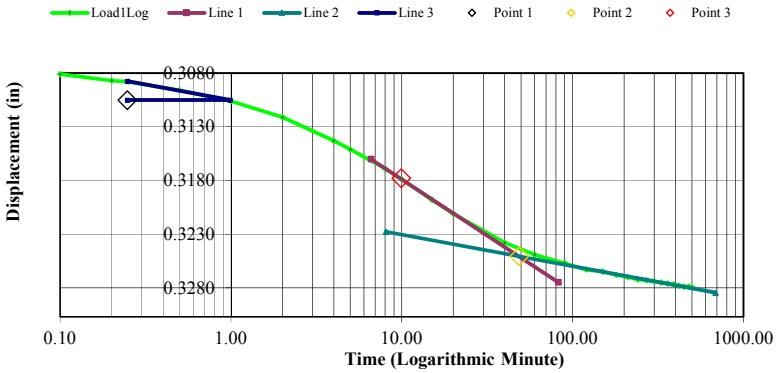
Soil Description:
Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3057	0.3052	41.6940	3.5267
1	00:00:01	0.3067	0.3062	41.8306	3.5160
2	00:00:02	0.3067	0.3062	41.8306	3.5160
3	00:00:03	0.3072	0.3067	41.8989	3.5107
4	00:00:04	0.3079	0.3074	41.9945	3.5033
5	00:00:05	0.3080	0.3075	42.0082	3.5023
6	00:00:06	0.3081	0.3076	42.0219	3.5012
7	00:00:12	0.3087	0.3082	42.1038	3.4948
8	00:00:15	0.3088	0.3083	42.1175	3.4938
9	00:00:30	0.3096	0.3091	42.2268	3.4853
10	00:01:00	0.3106	0.3101	42.3634	3.4747
11	00:02:00	0.3121	0.3116	42.5683	3.4588
12	00:04:00	0.3143	0.3138	42.8689	3.4354
13	00:05:00	0.3151	0.3146	42.9781	3.4270
14	00:08:00	0.3169	0.3164	43.2240	3.4079
15	00:10:00	0.3179	0.3174	43.3607	3.3973
16	00:15:01	0.3198	0.3193	43.6202	3.3771
17	00:20:01	0.3211	0.3206	43.7978	3.3633
18	00:40:01	0.3238	0.3233	44.1667	3.3347
19	01:00:01	0.3249	0.3244	44.3169	3.3230
20	01:30:00	0.3257	0.3252	44.4262	3.3145
21	01:59:59	0.3263	0.3258	44.5082	3.3082
22	02:29:59	0.3265	0.3260	44.5355	3.3060
23	02:59:59	0.3268	0.3263	44.5765	3.3029
24	03:29:59	0.3270	0.3265	44.6038	3.3007
25	03:59:57	0.3272	0.3267	44.6311	3.2986
26	04:29:58	0.3273	0.3268	44.6448	3.2976
27	04:59:58	0.3274	0.3269	44.6585	3.2965
28	05:29:57	0.3275	0.3270	44.6721	3.2954
29	05:59:56	0.3276	0.3271	44.6858	3.2944
30	06:29:56	0.3277	0.3272	44.6995	3.2933
31	06:59:56	0.3278	0.3273	44.7131	3.2923
32	07:29:56	0.3279	0.3274	44.7268	3.2912
33	07:59:55	0.3279	0.3274	44.7268	3.2912
34	08:24:50	0.3280	0.3275	44.7404	3.2901

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

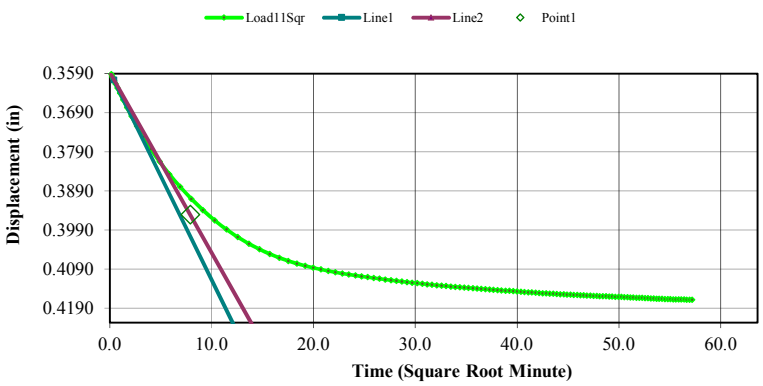
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

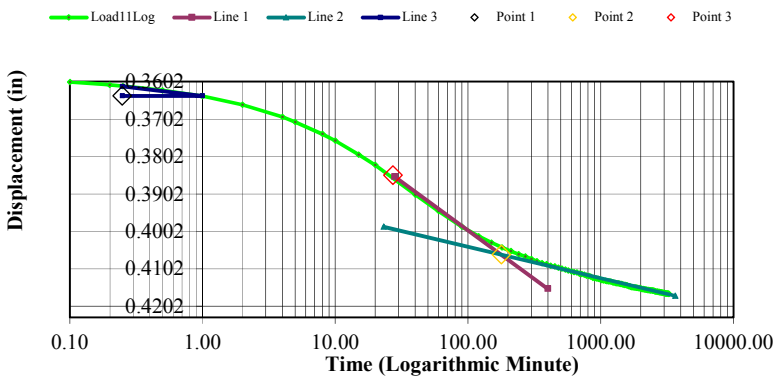
Soil Description:
Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3567	0.3562	48.6612	2.9857
1	00:00:01	0.3591	0.3586	48.9891	2.9603
2	00:00:02	0.3595	0.3590	49.0437	2.9560
3	00:00:03	0.3598	0.3593	49.0847	2.9529
4	00:00:04	0.3600	0.3595	49.1120	2.9507
5	00:00:05	0.3601	0.3596	49.1257	2.9497
6	00:00:06	0.3603	0.3598	49.1530	2.9476
7	00:00:12	0.3611	0.3606	49.2623	2.9391
8	00:00:15	0.3614	0.3609	49.3033	2.9359
9	00:00:30	0.3625	0.3620	49.4536	2.9242
10	00:01:00	0.3641	0.3636	49.6721	2.9073
11	00:02:00	0.3664	0.3659	49.9863	2.8829
12	00:04:00	0.3696	0.3691	50.4235	2.8489
13	00:05:00	0.3710	0.3705	50.6148	2.8341
14	00:08:00	0.3742	0.3737	51.0519	2.8001
15	00:10:00	0.3760	0.3755	51.2978	2.7811
16	00:15:00	0.3797	0.3792	51.8033	2.7418
17	00:20:00	0.3825	0.3820	52.1858	2.7121
18	00:40:00	0.3904	0.3899	53.2650	2.6283
19	01:00:00	0.3948	0.3943	53.8661	2.5817
20	01:29:59	0.3990	0.3985	54.4399	2.5371
21	01:59:59	0.4015	0.4010	54.7814	2.5106
22	02:29:59	0.4032	0.4027	55.0137	2.4926
23	02:59:58	0.4045	0.4040	55.1913	2.4788
24	03:29:58	0.4055	0.4050	55.3279	2.4682
25	03:59:58	0.4063	0.4058	55.4372	2.4597
26	04:29:58	0.4069	0.4064	55.5191	2.4533
27	04:59:57	0.4076	0.4071	55.6147	2.4459
28	05:29:58	0.4082	0.4077	55.6967	2.4395
29	05:59:57	0.4087	0.4082	55.7650	2.4342
30	06:29:57	0.4090	0.4085	55.8060	2.4311
31	06:59:56	0.4094	0.4089	55.8607	2.4268
32	07:29:56	0.4096	0.4091	55.8880	2.4247
33	07:59:56	0.4099	0.4094	55.9290	2.4215
34	08:29:55	0.4102	0.4097	55.9699	2.4183
35	08:59:55	0.4104	0.4099	55.9973	2.4162
36	09:29:55	0.4107	0.4102	56.0383	2.4130
37	09:59:54	0.4109	0.4104	56.0656	2.4109
38	10:29:53	0.4111	0.4106	56.0929	2.4088

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:54	0.4112	0.4107	56.1066	2.4077
40	11:29:54	0.4115	0.4110	56.1475	2.4045
41	11:59:53	0.4116	0.4111	56.1612	2.4035
42	12:29:53	0.4118	0.4113	56.1885	2.4014
43	12:59:53	0.4120	0.4115	56.2158	2.3992
44	13:29:53	0.4121	0.4116	56.2295	2.3982
45	13:59:52	0.4123	0.4118	56.2568	2.3961
46	14:29:52	0.4126	0.4121	56.2978	2.3929
47	14:59:52	0.4127	0.4122	56.3115	2.3918
48	15:29:51	0.4128	0.4123	56.3251	2.3907
49	15:59:50	0.4129	0.4124	56.3388	2.3897
50	16:29:50	0.4131	0.4126	56.3661	2.3876
51	16:59:51	0.4132	0.4127	56.3798	2.3865
52	17:29:50	0.4133	0.4128	56.3934	2.3854
53	17:59:49	0.4134	0.4129	56.4071	2.3844
54	18:29:50	0.4135	0.4130	56.4208	2.3833
55	18:59:49	0.4136	0.4131	56.4344	2.3823
56	19:29:48	0.4136	0.4131	56.4344	2.3823
57	19:59:48	0.4137	0.4132	56.4481	2.3812
58	20:29:48	0.4138	0.4133	56.4618	2.3801
59	20:59:48	0.4139	0.4134	56.4754	2.3791
60	21:29:47	0.4140	0.4135	56.4891	2.3780
61	21:59:47	0.4141	0.4136	56.5027	2.3770
62	22:29:47	0.4141	0.4136	56.5027	2.3770
63	22:59:46	0.4142	0.4137	56.5164	2.3759
64	23:29:45	0.4143	0.4138	56.5301	2.3748
65	23:59:46	0.4143	0.4138	56.5301	2.3748
66	24:29:46	0.4144	0.4139	56.5437	2.3738
67	24:59:45	0.4145	0.4140	56.5574	2.3727
68	25:29:45	0.4145	0.4140	56.5574	2.3727
69	25:59:45	0.4146	0.4141	56.5710	2.3717
70	26:29:45	0.4147	0.4142	56.5847	2.3706
71	26:59:44	0.4149	0.4144	56.6120	2.3685
72	27:29:43	0.4149	0.4144	56.6120	2.3685
73	27:59:44	0.4150	0.4145	56.6257	2.3674
74	28:29:43	0.4151	0.4146	56.6393	2.3664
75	28:59:42	0.4151	0.4146	56.6393	2.3664
76	29:29:42	0.4152	0.4147	56.6530	2.3653
77	29:59:42	0.4152	0.4147	56.6530	2.3653
78	30:29:42	0.4152	0.4147	56.6530	2.3653
79	30:59:41	0.4153	0.4148	56.6667	2.3642
80	31:29:41	0.4153	0.4148	56.6667	2.3642
81	31:59:41	0.4154	0.4149	56.6803	2.3632
82	32:29:40	0.4154	0.4149	56.6803	2.3632
83	32:59:40	0.4155	0.4150	56.6940	2.3621
84	33:29:40	0.4155	0.4150	56.6940	2.3621
85	33:59:39	0.4156	0.4151	56.7076	2.3611
86	34:29:39	0.4156	0.4151	56.7076	2.3611
87	34:59:39	0.4156	0.4151	56.7076	2.3611
88	35:29:39	0.4157	0.4152	56.7213	2.3600
89	35:59:38	0.4157	0.4152	56.7213	2.3600
90	36:29:38	0.4158	0.4153	56.7350	2.3589
91	36:59:38	0.4158	0.4153	56.7350	2.3589
92	37:29:37	0.4159	0.4154	56.7486	2.3579
93	37:59:37	0.4159	0.4154	56.7486	2.3579

94	38:29:37	0.4159	0.4154	56.7486	2.3579
95	38:59:36	0.4160	0.4155	56.7623	2.3568
96	39:29:36	0.4160	0.4155	56.7623	2.3568
97	39:59:36	0.4160	0.4155	56.7623	2.3568
98	40:29:35	0.4160	0.4155	56.7623	2.3568
99	40:59:34	0.4161	0.4156	56.7760	2.3557
100	41:29:35	0.4161	0.4156	56.7760	2.3557
101	41:59:35	0.4161	0.4156	56.7760	2.3557
102	42:29:34	0.4162	0.4157	56.7896	2.3547
103	42:59:34	0.4162	0.4157	56.7896	2.3547
104	43:29:34	0.4163	0.4158	56.8033	2.3536
105	43:59:33	0.4163	0.4158	56.8033	2.3536
106	44:29:33	0.4163	0.4158	56.8033	2.3536
107	44:59:33	0.4164	0.4159	56.8169	2.3526
108	45:29:32	0.4164	0.4159	56.8169	2.3526
109	45:59:31	0.4164	0.4159	56.8169	2.3526
110	46:29:32	0.4165	0.4160	56.8306	2.3515
111	46:59:32	0.4165	0.4160	56.8306	2.3515
112	47:29:31	0.4165	0.4160	56.8306	2.3515
113	47:59:30	0.4166	0.4161	56.8443	2.3504
114	48:29:31	0.4166	0.4161	56.8443	2.3504
115	48:59:31	0.4167	0.4162	56.8579	2.3494
116	49:29:30	0.4167	0.4162	56.8579	2.3494
117	49:59:30	0.4167	0.4162	56.8579	2.3494
118	50:29:30	0.4167	0.4162	56.8579	2.3494
119	50:59:29	0.4168	0.4163	56.8716	2.3483
120	51:29:29	0.4168	0.4163	56.8716	2.3483
121	51:59:29	0.4168	0.4163	56.8716	2.3483
122	52:29:29	0.4168	0.4163	56.8716	2.3483
123	52:59:28	0.4168	0.4163	56.8716	2.3483
124	53:29:28	0.4168	0.4163	56.8716	2.3483
125	53:59:27	0.4169	0.4164	56.8852	2.3473
126	54:29:26	0.4169	0.4164	56.8852	2.3473

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

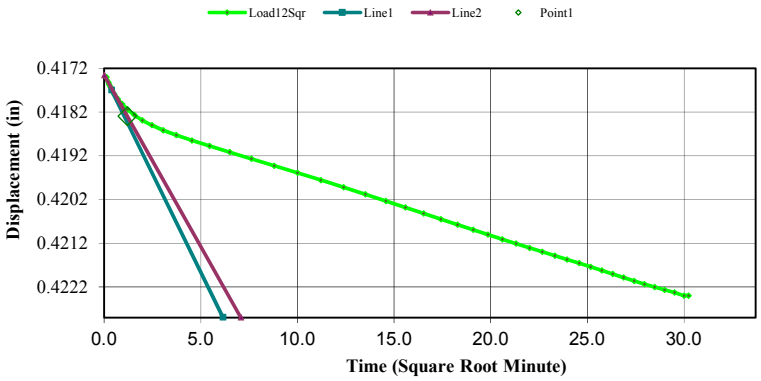
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

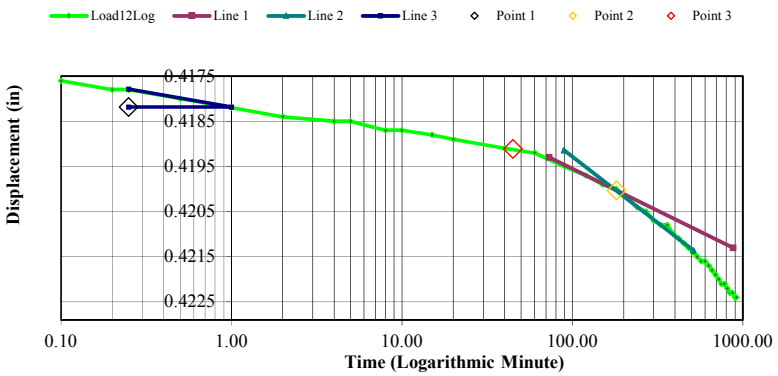
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4169	0.4164	56.8852	2.3473
1	00:00:01	0.4174	0.4169	56.9536	2.3420
2	00:00:02	0.4175	0.4170	56.9672	2.3409
3	00:00:03	0.4175	0.4170	56.9672	2.3409
4	00:00:04	0.4176	0.4171	56.9809	2.3398
5	00:00:05	0.4176	0.4171	56.9809	2.3398
6	00:00:06	0.4176	0.4171	56.9809	2.3398
7	00:00:12	0.4178	0.4173	57.0082	2.3377
8	00:00:15	0.4178	0.4173	57.0082	2.3377
9	00:00:30	0.4180	0.4175	57.0355	2.3356
10	00:01:00	0.4182	0.4177	57.0628	2.3335
11	00:02:00	0.4184	0.4179	57.0902	2.3314
12	00:04:00	0.4185	0.4180	57.1038	2.3303
13	00:05:00	0.4185	0.4180	57.1038	2.3303
14	00:08:00	0.4187	0.4182	57.1311	2.3282
15	00:10:00	0.4187	0.4182	57.1311	2.3282
16	00:15:00	0.4188	0.4183	57.1448	2.3271
17	00:20:00	0.4189	0.4184	57.1585	2.3261
18	00:40:00	0.4191	0.4186	57.1858	2.3239
19	01:00:00	0.4192	0.4187	57.1995	2.3229
20	01:30:00	0.4195	0.4190	57.2404	2.3197
21	01:59:59	0.4197	0.4192	57.2678	2.3176
22	02:29:58	0.4199	0.4194	57.2951	2.3154
23	02:59:59	0.4200	0.4195	57.3087	2.3144
24	03:29:58	0.4202	0.4197	57.3361	2.3123
25	03:59:57	0.4204	0.4199	57.3634	2.3101
26	04:29:58	0.4205	0.4200	57.3770	2.3091
27	04:59:57	0.4207	0.4202	57.4044	2.3070
28	05:29:57	0.4208	0.4203	57.4180	2.3059
29	05:59:56	0.4208	0.4203	57.4180	2.3059
30	06:29:57	0.4210	0.4205	57.4454	2.3038
31	06:59:57	0.4211	0.4206	57.4590	2.3027
32	07:29:55	0.4212	0.4207	57.4727	2.3017
33	07:59:56	0.4213	0.4208	57.4863	2.3006
34	08:29:56	0.4214	0.4209	57.5000	2.2995
35	08:59:55	0.4215	0.4210	57.5137	2.2985
36	09:29:54	0.4216	0.4211	57.5273	2.2974
37	09:59:55	0.4216	0.4211	57.5273	2.2974
38	10:29:54	0.4217	0.4212	57.5410	2.2964

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.4218	0.4213	57.5546	2.2953
40	11:29:53	0.4219	0.4214	57.5683	2.2942
41	11:59:53	0.4220	0.4215	57.5820	2.2932
42	12:29:53	0.4221	0.4216	57.5956	2.2921
43	12:59:52	0.4221	0.4216	57.5956	2.2921
44	13:29:53	0.4222	0.4217	57.6093	2.2911
45	13:59:52	0.4223	0.4218	57.6230	2.2900
46	14:29:51	0.4223	0.4218	57.6230	2.2900
47	14:59:51	0.4224	0.4219	57.6366	2.2889
48	15:14:14	0.4224	0.4219	57.6366	2.2889

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

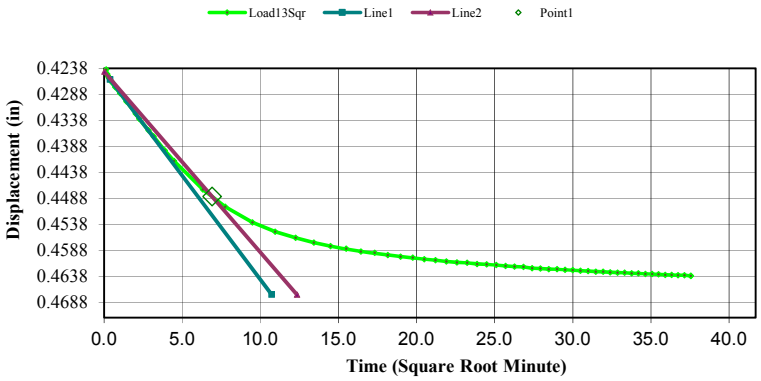
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

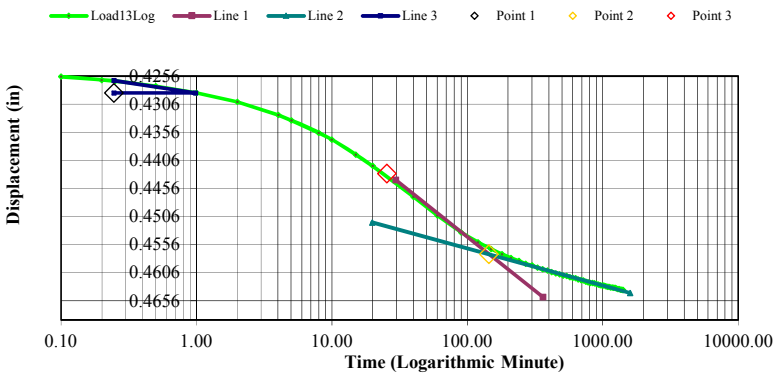
Soil Description:
Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3567	0.3562	48.6612	2.9857
1	00:00:01	0.4240	0.4235	57.8552	2.2720
2	00:00:02	0.4249	0.4244	57.9781	2.2624
3	00:00:03	0.4252	0.4247	58.0191	2.2592
4	00:00:04	0.4254	0.4249	58.0464	2.2571
5	00:00:05	0.4256	0.4251	58.0738	2.2550
6	00:00:06	0.4257	0.4252	58.0874	2.2539
7	00:00:12	0.4263	0.4258	58.1694	2.2476
8	00:00:15	0.4265	0.4260	58.1967	2.2454
9	00:00:30	0.4274	0.4269	58.3197	2.2359
10	00:01:00	0.4286	0.4281	58.4836	2.2232
11	00:02:00	0.4302	0.4297	58.7022	2.2062
12	00:04:01	0.4325	0.4320	59.0164	2.1818
13	00:05:01	0.4335	0.4330	59.1530	2.1712
14	00:08:00	0.4357	0.4352	59.4536	2.1479
15	00:10:00	0.4369	0.4364	59.6175	2.1351
16	00:15:00	0.4396	0.4391	59.9863	2.1065
17	00:20:00	0.4416	0.4411	60.2596	2.0853
18	00:40:00	0.4471	0.4466	61.0109	2.0270
19	00:59:59	0.4504	0.4499	61.4617	1.9920
20	01:29:58	0.4534	0.4529	61.8716	1.9601
21	01:59:59	0.4552	0.4547	62.1175	1.9411
22	02:29:58	0.4564	0.4559	62.2814	1.9283
23	02:59:57	0.4573	0.4568	62.4044	1.9188
24	03:29:58	0.4580	0.4575	62.5000	1.9114
25	03:59:57	0.4585	0.4580	62.5683	1.9061
26	04:29:56	0.4590	0.4585	62.6366	1.9007
27	04:59:56	0.4593	0.4588	62.6776	1.8976
28	05:29:56	0.4597	0.4592	62.7322	1.8933
29	05:59:56	0.4600	0.4595	62.7732	1.8901
30	06:29:55	0.4602	0.4597	62.8005	1.8880
31	06:59:54	0.4605	0.4600	62.8415	1.8848
32	07:29:55	0.4607	0.4602	62.8689	1.8827
33	07:59:55	0.4609	0.4604	62.8962	1.8806
34	08:29:55	0.4611	0.4606	62.9235	1.8785
35	08:59:53	0.4612	0.4607	62.9372	1.8774
36	09:29:53	0.4614	0.4609	62.9645	1.8753
37	09:59:54	0.4615	0.4610	62.9781	1.8742
38	10:29:53	0.4616	0.4611	62.9918	1.8732

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:52	0.4618	0.4613	63.0191	1.8711
40	11:29:52	0.4619	0.4614	63.0328	1.8700
41	11:59:52	0.4620	0.4615	63.0464	1.8689
42	12:29:52	0.4622	0.4617	63.0738	1.8668
43	12:59:52	0.4623	0.4618	63.0874	1.8657
44	13:29:50	0.4624	0.4619	63.1011	1.8647
45	13:59:51	0.4624	0.4619	63.1011	1.8647
46	14:29:51	0.4625	0.4620	63.1147	1.8636
47	14:59:51	0.4626	0.4621	63.1284	1.8626
48	15:29:50	0.4627	0.4622	63.1421	1.8615
49	15:59:49	0.4628	0.4623	63.1557	1.8604
50	16:29:49	0.4629	0.4624	63.1694	1.8594
51	16:59:49	0.4629	0.4624	63.1694	1.8594
52	17:29:48	0.4630	0.4625	63.1831	1.8583
53	17:59:47	0.4631	0.4626	63.1967	1.8573
54	18:29:48	0.4631	0.4626	63.1967	1.8573
55	18:59:48	0.4632	0.4627	63.2104	1.8562
56	19:29:47	0.4632	0.4627	63.2104	1.8562
57	19:59:46	0.4633	0.4628	63.2240	1.8551
58	20:29:47	0.4633	0.4628	63.2240	1.8551
59	20:59:47	0.4634	0.4629	63.2377	1.8541
60	21:29:47	0.4635	0.4630	63.2514	1.8530
61	21:59:46	0.4635	0.4630	63.2514	1.8530
62	22:29:46	0.4636	0.4631	63.2650	1.8520
63	22:59:47	0.4636	0.4631	63.2650	1.8520
64	23:29:46	0.4637	0.4632	63.2787	1.8509
65	23:30:16	0.4637	0.4632	63.2787	1.8509

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

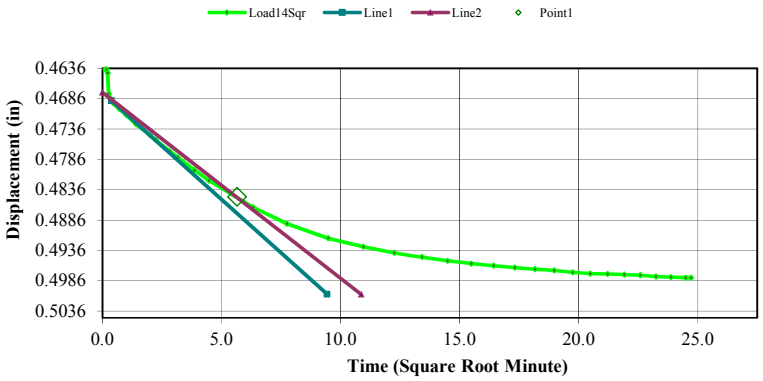
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 1
Depth: 4 - 6 feet
Sample Type: Undisturbed

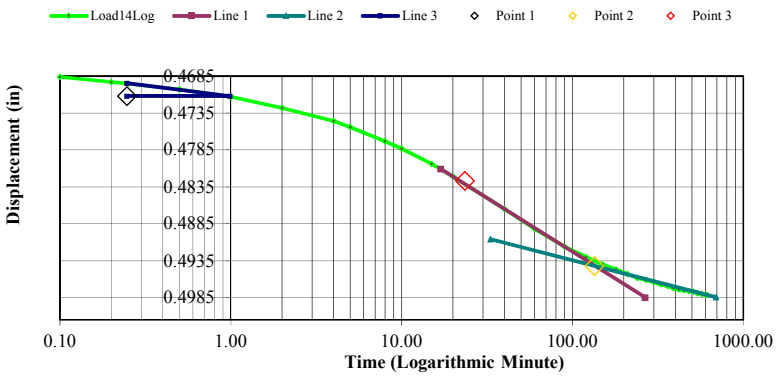
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4637	0.4632	63.2787	1.8509
1	00:00:01	0.4638	0.4633	63.2923	1.8498
2	00:00:02	0.4638	0.4633	63.2923	1.8498
3	00:00:03	0.4644	0.4639	63.3743	1.8435
4	00:00:04	0.4678	0.4673	63.8388	1.8074
5	00:00:05	0.4684	0.4679	63.9208	1.8011
6	00:00:06	0.4686	0.4681	63.9481	1.7989
7	00:00:12	0.4693	0.4688	64.0437	1.7915
8	00:00:15	0.4695	0.4690	64.0710	1.7894
9	00:00:30	0.4703	0.4698	64.1803	1.7809
10	00:01:00	0.4713	0.4708	64.3169	1.7703
11	00:02:00	0.4728	0.4723	64.5219	1.7544
12	00:04:00	0.4746	0.4741	64.7678	1.7353
13	00:05:00	0.4754	0.4749	64.8771	1.7268
14	00:07:59	0.4773	0.4768	65.1366	1.7067
15	00:09:59	0.4783	0.4778	65.2732	1.6961
16	00:14:59	0.4804	0.4799	65.5601	1.6738
17	00:19:59	0.4821	0.4816	65.7923	1.6558
18	00:39:58	0.4865	0.4860	66.3934	1.6091
19	00:59:58	0.4892	0.4887	66.7623	1.5804
20	01:29:59	0.4916	0.4911	67.0902	1.5550
21	01:59:59	0.4930	0.4925	67.2814	1.5401
22	02:29:58	0.4940	0.4935	67.4180	1.5295
23	02:59:57	0.4947	0.4942	67.5137	1.5221
24	03:29:57	0.4953	0.4948	67.5956	1.5158
25	03:59:57	0.4958	0.4953	67.6639	1.5104
26	04:29:57	0.4961	0.4956	67.7049	1.5073
27	04:59:56	0.4964	0.4959	67.7459	1.5041
28	05:29:55	0.4967	0.4962	67.7869	1.5009
29	05:59:56	0.4969	0.4964	67.8142	1.4988
30	06:29:56	0.4972	0.4967	67.8552	1.4956
31	06:59:55	0.4974	0.4969	67.8825	1.4935
32	07:29:54	0.4975	0.4970	67.8962	1.4924
33	07:59:54	0.4976	0.4971	67.9098	1.4914
34	08:29:54	0.4977	0.4972	67.9235	1.4903
35	08:59:54	0.4979	0.4974	67.9508	1.4882
36	09:29:53	0.4980	0.4975	67.9645	1.4871
37	09:59:53	0.4981	0.4976	67.9781	1.4861
38	10:10:51	0.4981	0.4976	67.9781	1.4861

Consolidation Graph (Squareroot Time)



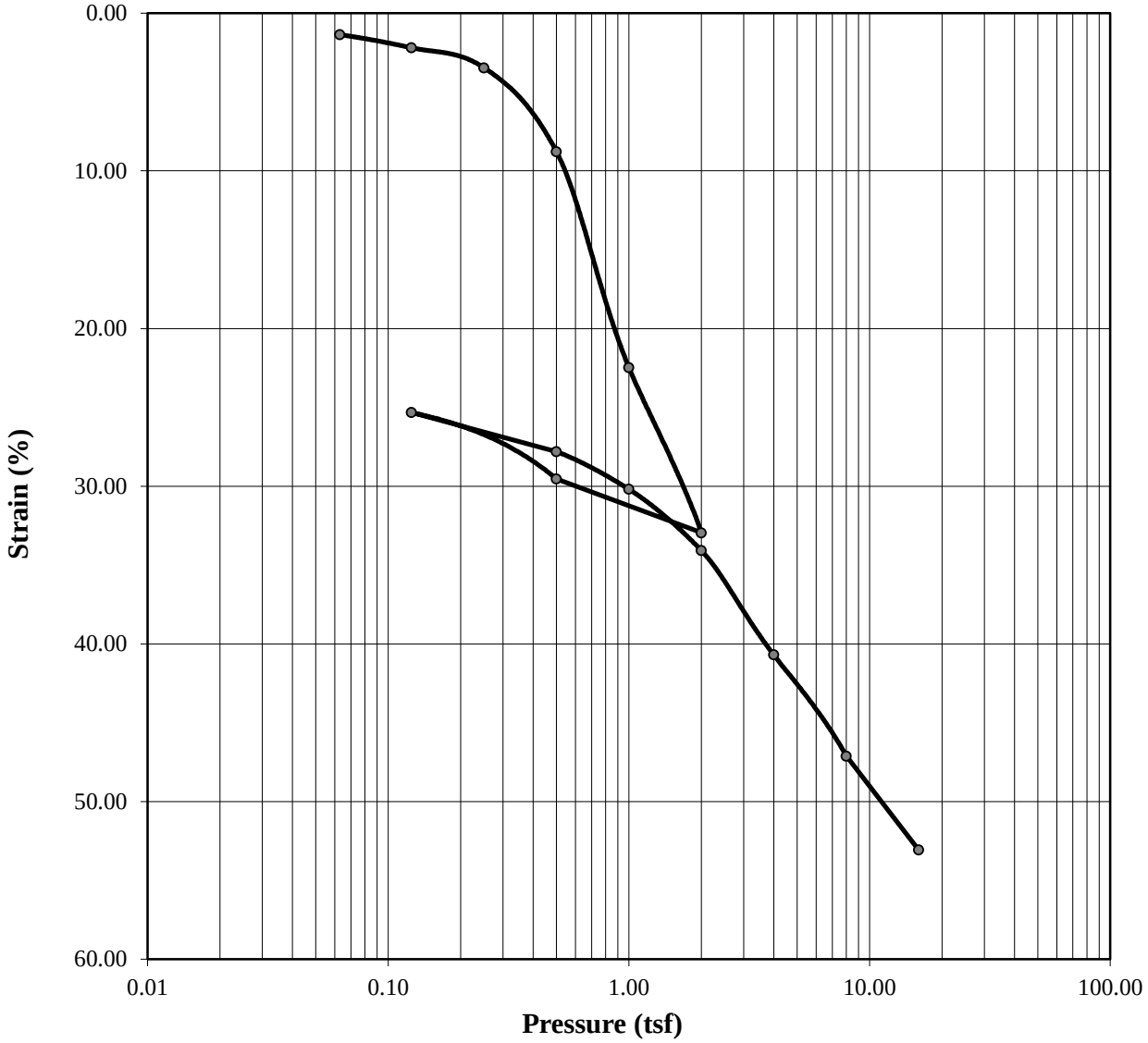
Consolidation Graph (Logarithmic Time)



GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	82	**Test Date:**	7 April 15
Moisture (%):	59.64	34.51	**Plastic Limits:**	26		
Dry Density (pcf):	58.86	101.46	**Plasticity Index (%):**	56		
Saturation (%):	86.70	142.28				
Void Ratio:	1.8393	0.3324	**Specific Gravity:**	2.683	Measured	

Sample Description: Clay (CH)

Project Number: 16715-040-00 **Depth:** 28 - 30 feet **Remarks:**

Sample Number: **Boring Number:** 2

Project: Island Road Marsh Creation and Nourishment (TE-117)

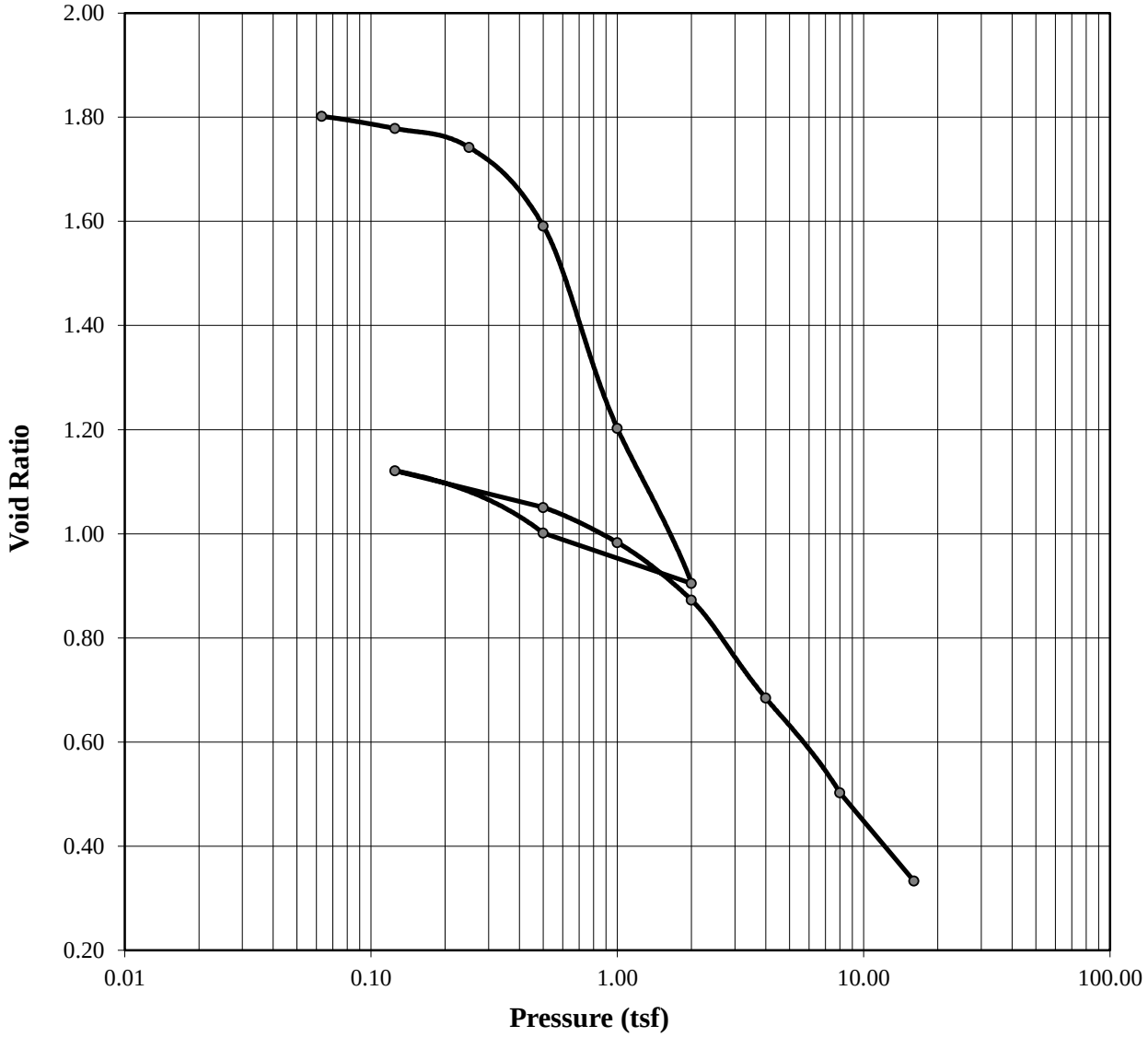
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	82	**Test Date:**	7 April 15
Moisture (%):	59.64	34.51	**Plastic Limits:**	26		
Dry Density (pcf):	58.86	101.46	**Plasticity Index (%):**	56		
Saturation (%):	86.70	142.28				
Void Ratio:	1.8393	0.3324	**Specific Gravity:**	2.683	Measured	

Soil Description: Clay (CH)

Project Number: 16715-040-00 **Depth:** 28 - 30 feet **Remarks:**

Sample Number: **Boring Number:** 2

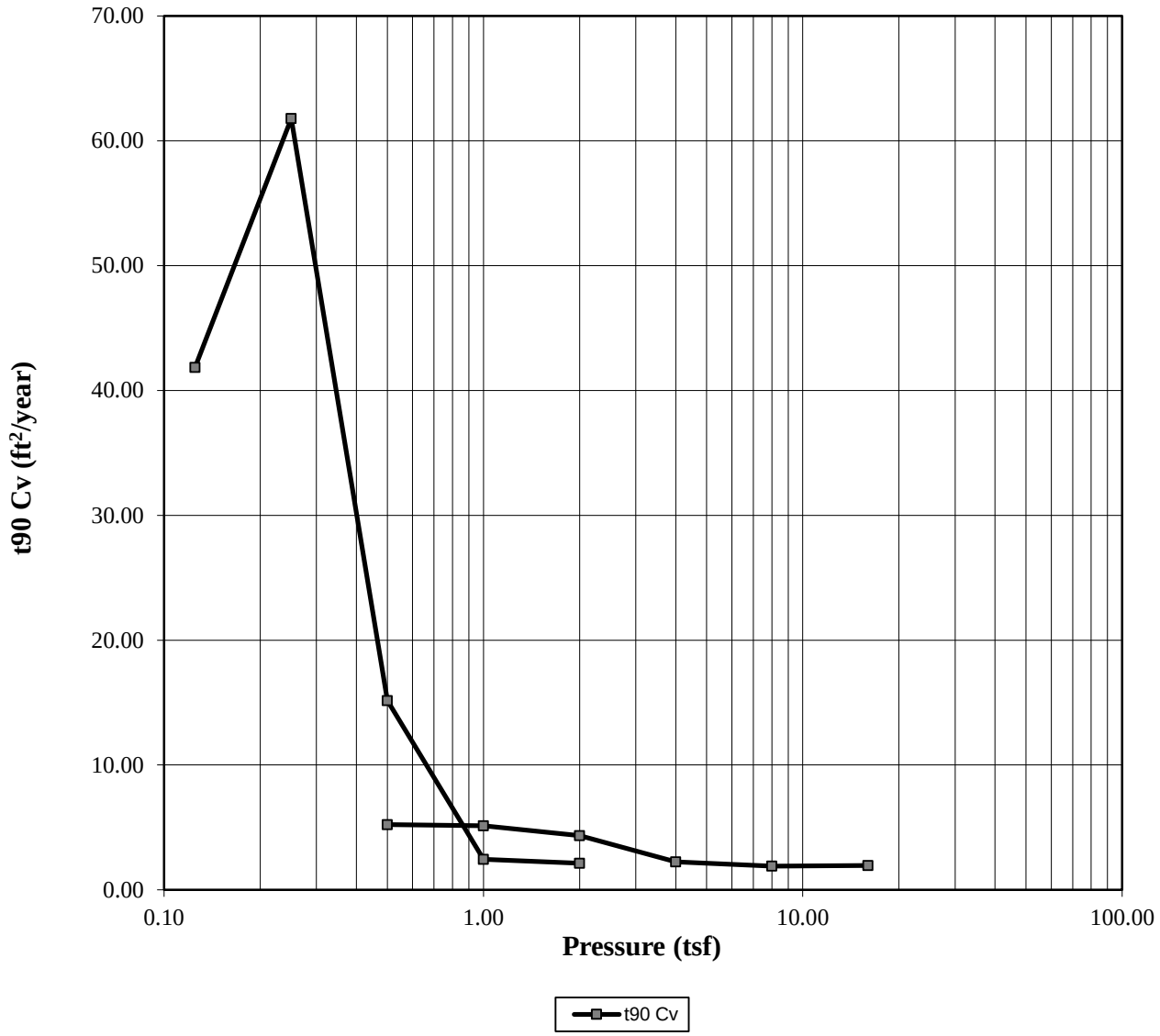
Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	82	**Test Date:**	7 April 15
Moisture (%):	59.64	34.51	**Plastic Limits:**	26		
Dry Density (pcf):	58.86	101.46	**Plasticity Index (%):**	56		
Saturation (%):	86.70	142.28				
Void Ratio:	1.8393	0.3324	**Specific Gravity:**	2.683	Measured	

Soil Description: Clay (CH)

Project Number: 16715-040-00 **Depth:** 28 - 30 feet **Remarks:**

Sample Number: **Boring Number:** 2

Project: Island Road Marsh Creation and Nourishment (TE-117)

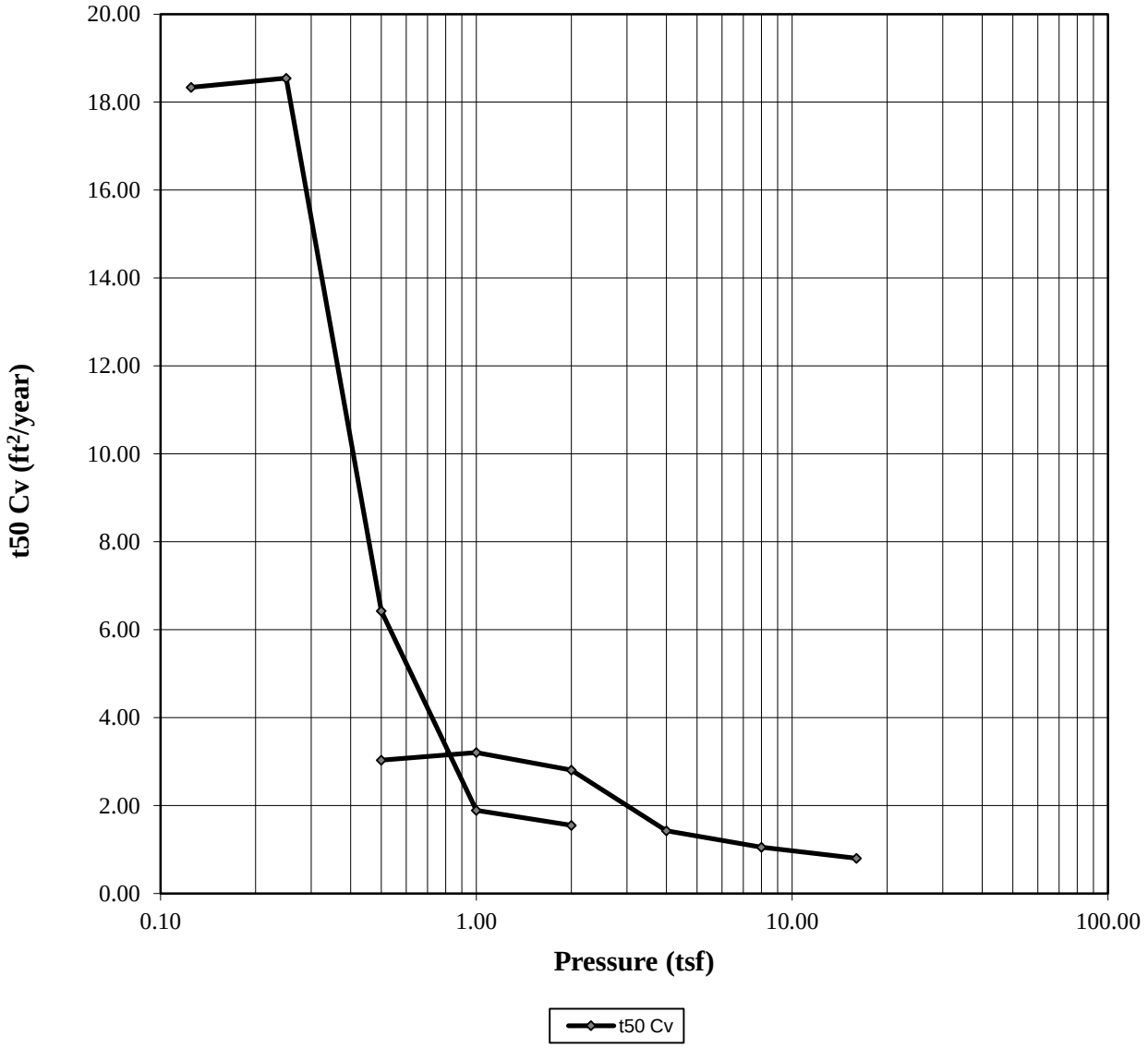
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	82	**Test Date:**	7 April 15
Moisture (%):	59.64	34.51	**Plastic Limits:**	26		
Dry Density (pcf):	58.86	101.46	**Plasticity Index (%):**	56		
Saturation (%):	86.70	142.28				
Void Ratio:	1.8393	0.3324	**Specific Gravity:**	2.683	Measured	

Soil Description: Clay (CH)

Project Number: 16715-040-00 **Depth:** 28 - 30 feet **Remarks:**

Sample Number: **Boring Number:** 2

Project: Island Road Marsh Creation and Nourishment (TE-117)

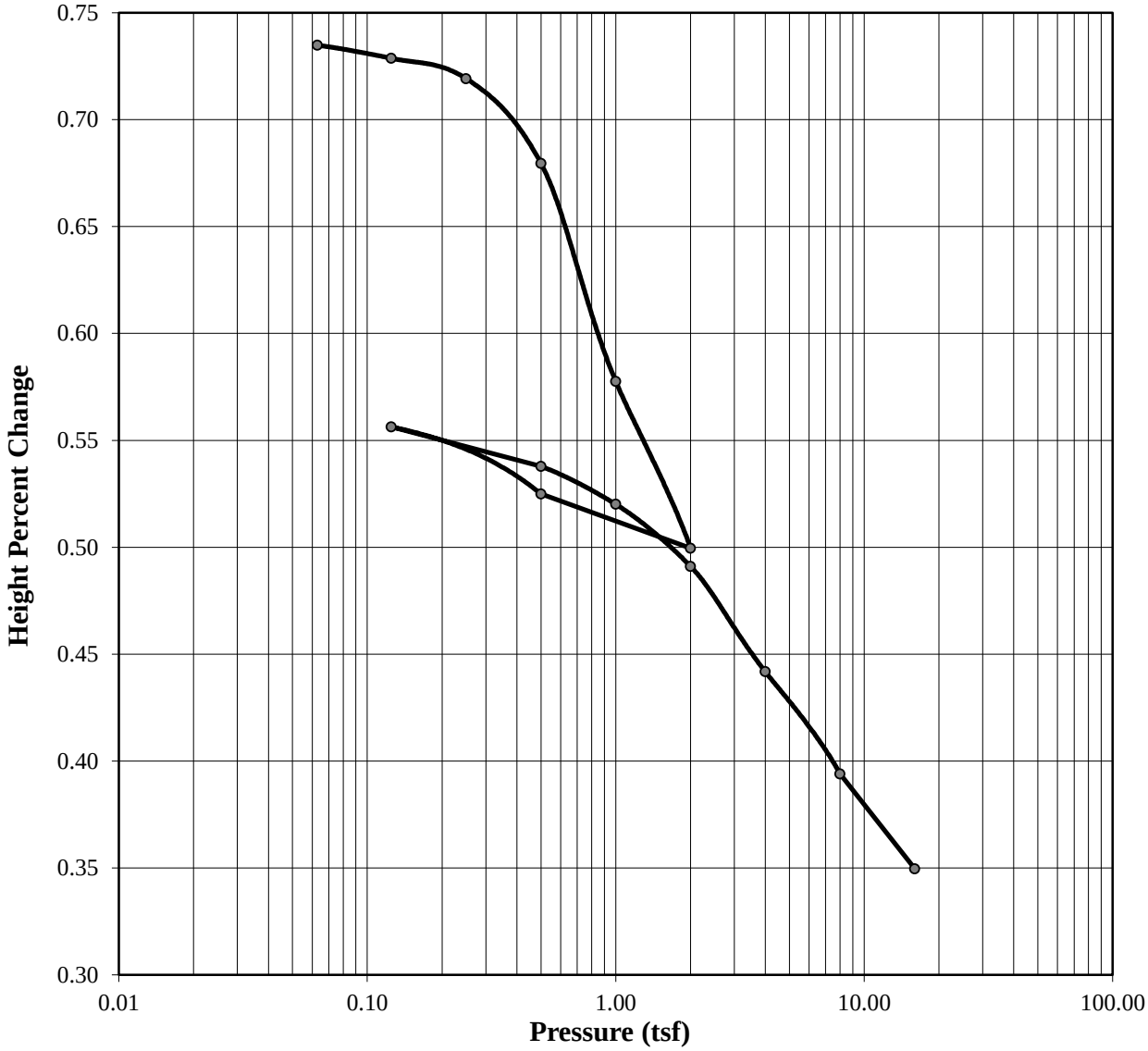
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	82	**Test Date:**	7 April 15
Moisture (%):	59.64	34.51	**Plastic Limits:**	26		
Dry Density (pcf):	58.86	101.46	**Plasticity Index (%):**	56		
Saturation (%):	86.70	142.28				
Void Ratio:	1.8393	0.3324	**Specific Gravity:**	2.683	Measured	

Soil Description: Clay (CH)

Project Number: 16715-040-00 **Depth:** 28 - 30 feet **Remarks:**

Sample Number: **Boring Number:** 2

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

Sample Description: Clay (CH)
Remarks:

Test Number:
Test Date: 7 April 15

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	0.7450	0.4827	0.00	1.8406	0.000	0.000	0.000	0.000
1	0.063	0.0102	0.7348	0.4725	1.37	1.8017	0.000	0.000	0.000	0.000
2	0.125	0.0163	0.7287	0.4664	2.19	1.7785	9.817	5.206	41.855	18.337
3	0.250	0.0258	0.7192	0.4569	3.46	1.7422	6.479	5.013	61.781	18.547
4	0.500	0.0654	0.6796	0.4173	8.78	1.5912	23.578	12.920	15.158	6.426
5	1.000	0.1674	0.5776	0.3153	22.47	1.2023	105.604	31.684	2.445	1.893
6	2.000	0.2455	0.4995	0.2372	32.95	0.9045	90.696	28.902	2.129	1.552
7	0.500	0.2201	0.5249	0.2626	29.54	1.0014	0.000	0.000	0.000	0.000
8	0.125	0.1887	0.5563	0.2940	25.33	1.1211	0.000	0.000	0.000	0.000
9	0.500	0.2072	0.5378	0.2755	27.81	1.0506	42.831	17.153	5.225	3.031
10	1.000	0.2249	0.5201	0.2578	30.19	0.9831	40.799	15.166	5.130	3.206
11	2.000	0.2539	0.4911	0.2288	34.08	0.8725	42.913	15.424	4.349	2.811
12	4.000	0.3032	0.4418	0.1795	40.70	0.6845	67.564	24.635	2.235	1.424
13	8.000	0.3510	0.3940	0.1317	47.11	0.5023	63.291	26.510	1.898	1.053
14	16.000	0.3954	0.3496	0.0873	53.07	0.3330	48.610	27.414	1.946	0.801

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 7 April 15

Sample Number: **Sample Description:**
Boring Number: 2 Clay (CH)
Depth: 28 - 30 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 82.0000 **Initial Void Ratio:** 1.8393 **Initial Height (in):** 0.7450
Plastic Limit: 26.0000 **Plasticity Index (%):** 56.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.6830 Measured **Weight of Ring (g):** 234.3600

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	134.50	82.15
Dry Soil + Container (g)	92.66	66.85
Weight of Container (g)	22.50	22.52
Moisture Content (%)	59.64	34.51
Void Ratio	1.8393	0.3324
Saturation (%)	86.70	142.28
Dry Density (pcf)	58.86	101.46

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

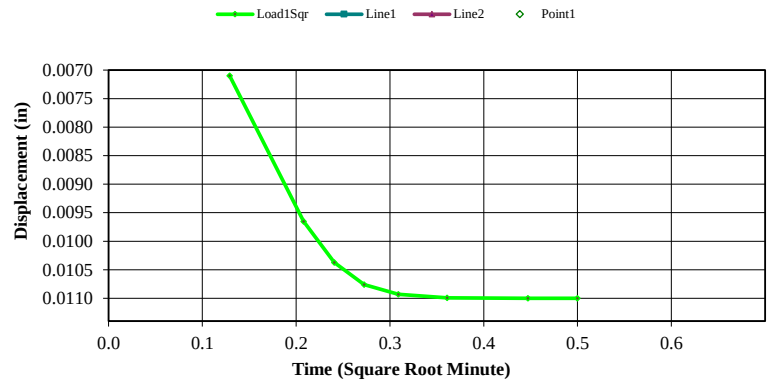
Project Number: 16715-040-00
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

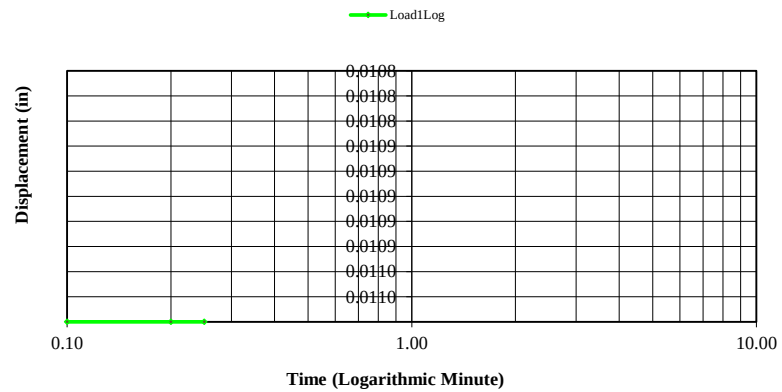
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0008	0.0000	0.0000	1.8393
1	00:00:01	0.0071	0.0063	0.8456	1.8153
2	00:00:02	0.0088	0.0080	1.0738	1.8088
3	00:00:03	0.0107	0.0099	1.3289	1.8016
4	00:00:04	0.0108	0.0100	1.3423	1.8012
5	00:00:05	0.0110	0.0102	1.3691	1.8005
6	00:00:06	0.0110	0.0102	1.3691	1.8005
7	00:00:12	0.0110	0.0102	1.3691	1.8005
8	00:00:15	0.0110	0.0102	1.3691	1.8005

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.125 tsf

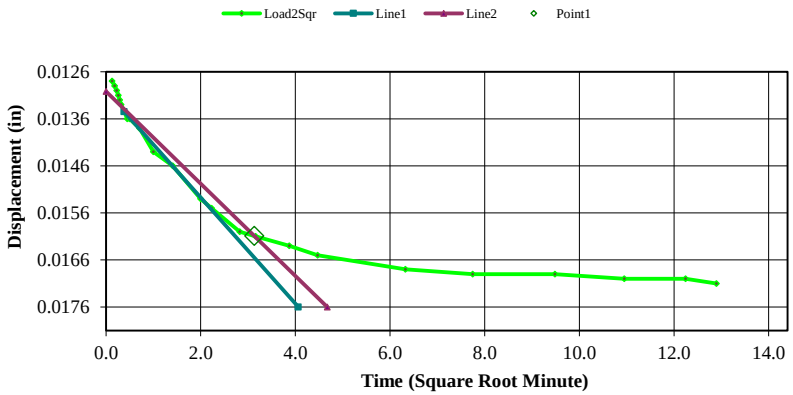
Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 7 April 15
Test Number:

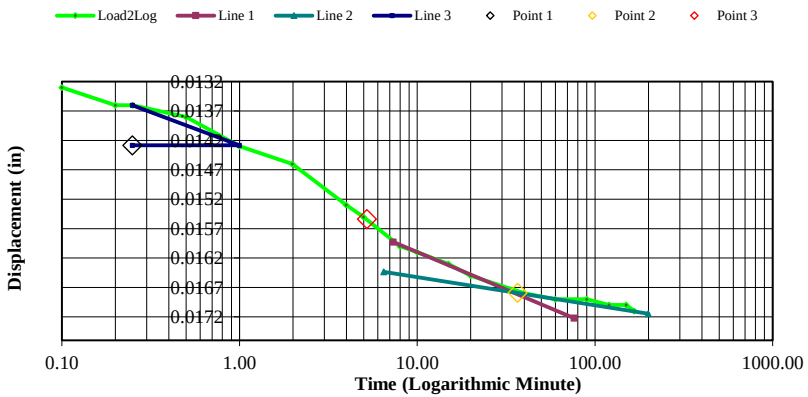
Sample Number:
Soil Description:
Boring Number: 2
Clay (CH)
Depth: 28 - 30 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0110	0.0102	1.3691	1.8005
1	00:00:01	0.0128	0.0120	1.6107	1.7936
2	00:00:02	0.0129	0.0121	1.6242	1.7932
3	00:00:03	0.0130	0.0122	1.6376	1.7928
4	00:00:04	0.0131	0.0123	1.6510	1.7925
5	00:00:05	0.0132	0.0124	1.6644	1.7921
6	00:00:06	0.0133	0.0125	1.6779	1.7917
7	00:00:12	0.0136	0.0128	1.7181	1.7905
8	00:00:15	0.0136	0.0128	1.7181	1.7905
9	00:00:30	0.0138	0.0130	1.7450	1.7898
10	00:01:00	0.0143	0.0135	1.8121	1.7879
11	00:01:59	0.0146	0.0138	1.8523	1.7867
12	00:03:59	0.0153	0.0145	1.9463	1.7841
13	00:04:59	0.0155	0.0147	1.9732	1.7833
14	00:07:59	0.0160	0.0152	2.0403	1.7814
15	00:09:59	0.0161	0.0153	2.0537	1.7810
16	00:15:00	0.0163	0.0155	2.0805	1.7803
17	00:19:59	0.0165	0.0157	2.1074	1.7795
18	00:40:00	0.0168	0.0160	2.1477	1.7784
19	01:00:00	0.0169	0.0161	2.1611	1.7780
20	01:29:59	0.0169	0.0161	2.1611	1.7780
21	01:59:58	0.0170	0.0162	2.1745	1.7776
22	02:29:58	0.0170	0.0162	2.1745	1.7776
23	02:46:21	0.0171	0.0163	2.1879	1.7772

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

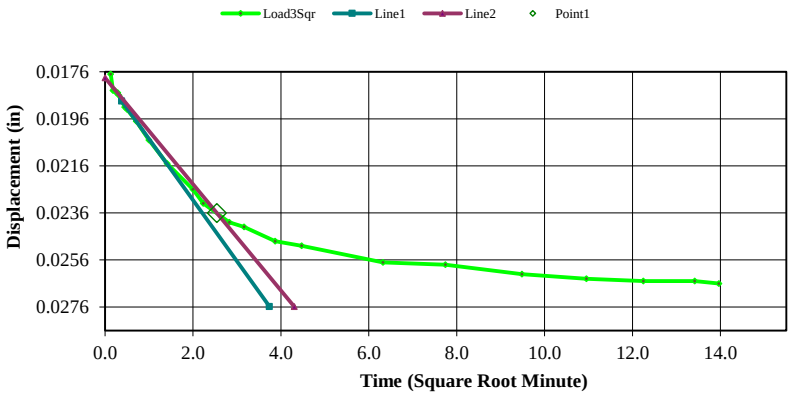
Project Number: 16715-040-00
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

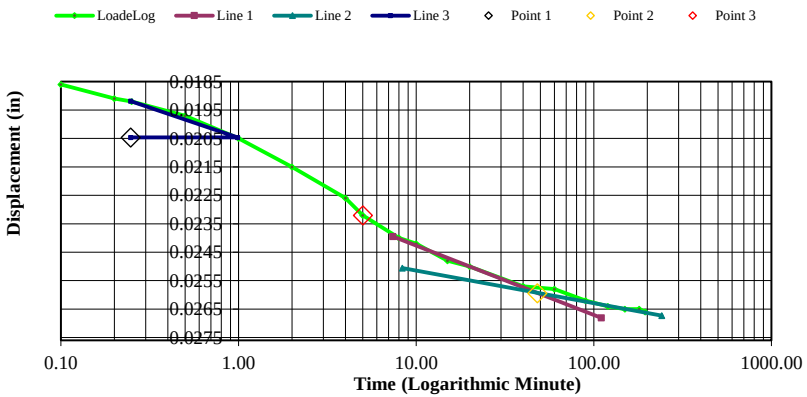
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0171	0.0163	2.1879	1.7772
1	00:00:01	0.0177	0.0169	2.2685	1.7749
2	00:00:02	0.0184	0.0176	2.3624	1.7723
3	00:00:03	0.0184	0.0176	2.3624	1.7723
4	00:00:04	0.0185	0.0177	2.3758	1.7719
5	00:00:05	0.0185	0.0177	2.3758	1.7719
6	00:00:06	0.0186	0.0178	2.3893	1.7715
7	00:00:12	0.0191	0.0183	2.4564	1.7696
8	00:00:15	0.0192	0.0184	2.4698	1.7692
9	00:00:30	0.0197	0.0189	2.5369	1.7673
10	00:01:00	0.0205	0.0197	2.6443	1.7643
11	00:02:00	0.0215	0.0207	2.7785	1.7604
12	00:04:00	0.0226	0.0218	2.9262	1.7562
13	00:05:00	0.0232	0.0224	3.0067	1.7540
14	00:08:00	0.0240	0.0232	3.1141	1.7509
15	00:10:00	0.0242	0.0234	3.1409	1.7502
16	00:15:00	0.0248	0.0240	3.2215	1.7479
17	00:20:00	0.0250	0.0242	3.2483	1.7471
18	00:40:00	0.0257	0.0249	3.3423	1.7444
19	00:59:59	0.0258	0.0250	3.3557	1.7441
20	01:29:58	0.0262	0.0254	3.4094	1.7425
21	01:59:58	0.0264	0.0256	3.4362	1.7418
22	02:29:58	0.0265	0.0257	3.4497	1.7414
23	02:59:58	0.0265	0.0257	3.4497	1.7414
24	03:15:00	0.0266	0.0258	3.4631	1.7410

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 4) Load 0.500 tsf

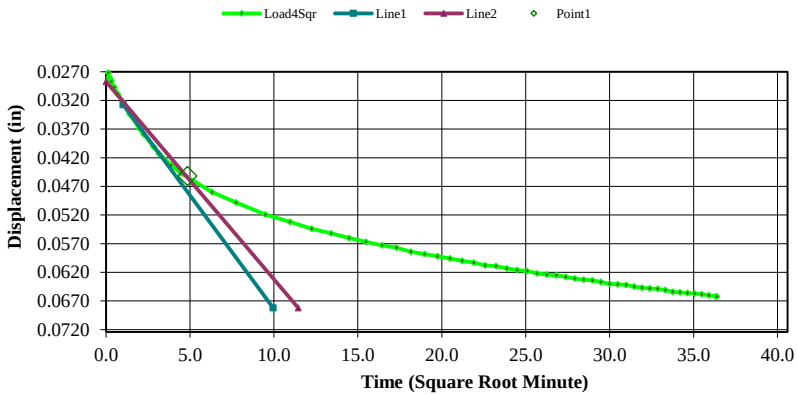
Consolidation Test Results
(Sequence 4) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 7 April 15
Test Number:

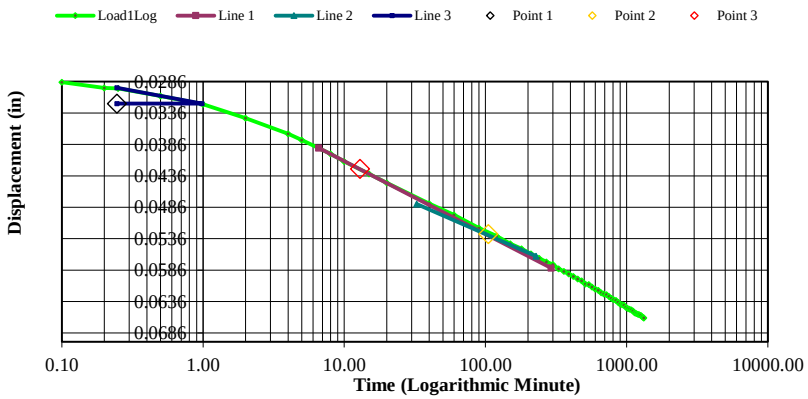
Sample Number:
Soil Description:
Boring Number: 2
Clay (CH)
Depth: 28 - 30 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0266	0.0258	3.4631	1.7410
1	00:00:01	0.0272	0.0264	3.5436	1.7387
2	00:00:02	0.0280	0.0272	3.6510	1.7357
3	00:00:03	0.0281	0.0273	3.6644	1.7353
4	00:00:04	0.0284	0.0276	3.7047	1.7341
5	00:00:05	0.0286	0.0278	3.7315	1.7334
6	00:00:06	0.0287	0.0279	3.7450	1.7330
7	00:00:12	0.0296	0.0288	3.8658	1.7296
8	00:00:15	0.0297	0.0289	3.8792	1.7292
9	00:00:30	0.0309	0.0301	4.0403	1.7246
10	00:01:00	0.0322	0.0314	4.2148	1.7197
11	00:02:00	0.0344	0.0336	4.5101	1.7113
12	00:04:00	0.0369	0.0361	4.8456	1.7017
13	00:05:00	0.0379	0.0371	4.9799	1.6979
14	00:07:59	0.0401	0.0393	5.2752	1.6896
15	00:09:59	0.0413	0.0405	5.4362	1.6850
16	00:14:59	0.0433	0.0425	5.7047	1.6774
17	00:19:59	0.0447	0.0439	5.8926	1.6720
18	00:39:58	0.0480	0.0472	6.3356	1.6594
19	00:59:58	0.0498	0.0490	6.5772	1.6526
20	01:29:59	0.0519	0.0511	6.8591	1.6446
21	01:59:59	0.0532	0.0524	7.0336	1.6396
22	02:29:58	0.0544	0.0536	7.1946	1.6351
23	02:59:57	0.0552	0.0544	7.3020	1.6320
24	03:29:58	0.0560	0.0552	7.4094	1.6290
25	03:59:58	0.0567	0.0559	7.5034	1.6263
26	04:29:57	0.0573	0.0565	7.5839	1.6240
27	04:59:56	0.0577	0.0569	7.6376	1.6225
28	05:29:56	0.0584	0.0576	7.7315	1.6198
29	05:59:56	0.0588	0.0580	7.7852	1.6183
30	06:29:56	0.0592	0.0584	7.8389	1.6168
31	06:59:55	0.0596	0.0588	7.8926	1.6152
32	07:29:54	0.0600	0.0592	7.9463	1.6137
33	07:59:55	0.0603	0.0595	7.9866	1.6126
34	08:29:55	0.0608	0.0600	8.0537	1.6107
35	08:59:54	0.0609	0.0601	8.0671	1.6103

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:53	0.0613	0.0605	8.1208	1.6088
37	09:59:54	0.0616	0.0608	8.1611	1.6076
38	10:29:54	0.0618	0.0610	8.1879	1.6069
39	10:59:54	0.0622	0.0614	8.2416	1.6053
40	11:29:52	0.0624	0.0616	8.2685	1.6046
41	11:59:53	0.0625	0.0617	8.2819	1.6042
42	12:29:53	0.0628	0.0620	8.3221	1.6030
43	12:59:53	0.0631	0.0623	8.3624	1.6019
44	13:29:52	0.0633	0.0625	8.3893	1.6011
45	13:59:52	0.0634	0.0626	8.4027	1.6008
46	14:29:52	0.0637	0.0629	8.4430	1.5996
47	14:59:52	0.0640	0.0632	8.4832	1.5985
48	15:29:51	0.0641	0.0633	8.4966	1.5981
49	15:59:50	0.0642	0.0634	8.5101	1.5977
50	16:29:51	0.0645	0.0637	8.5503	1.5966
51	16:59:51	0.0647	0.0639	8.5772	1.5958
52	17:29:50	0.0648	0.0640	8.5906	1.5954
53	17:59:49	0.0649	0.0641	8.6040	1.5950
54	18:29:49	0.0651	0.0643	8.6309	1.5943
55	18:59:49	0.0654	0.0646	8.6711	1.5931
56	19:29:49	0.0655	0.0647	8.6846	1.5927
57	19:59:48	0.0656	0.0648	8.6980	1.5924
58	20:29:47	0.0657	0.0649	8.7114	1.5920
59	20:59:48	0.0658	0.0650	8.7248	1.5916
60	21:29:48	0.0660	0.0652	8.7517	1.5908
61	21:59:47	0.0662	0.0654	8.7785	1.5901
62	22:04:40	0.0662	0.0654	8.7785	1.5901

Consolidation Test Results
(Sequence 5) Load 1.000 tsf

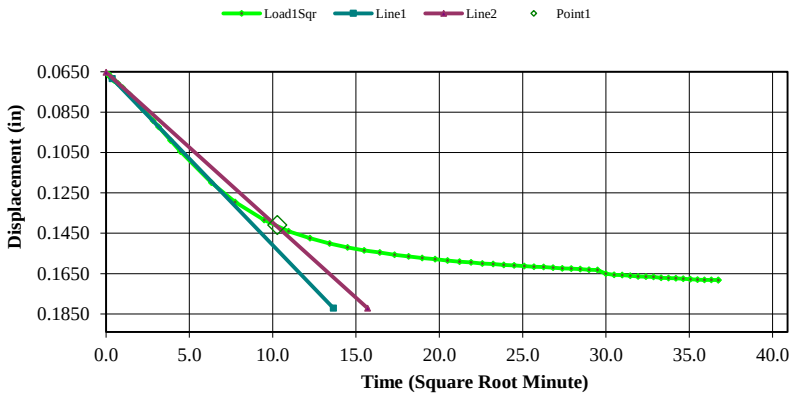
Consolidation Test Results
(Sequence 5) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 7 April 15
Test Number:

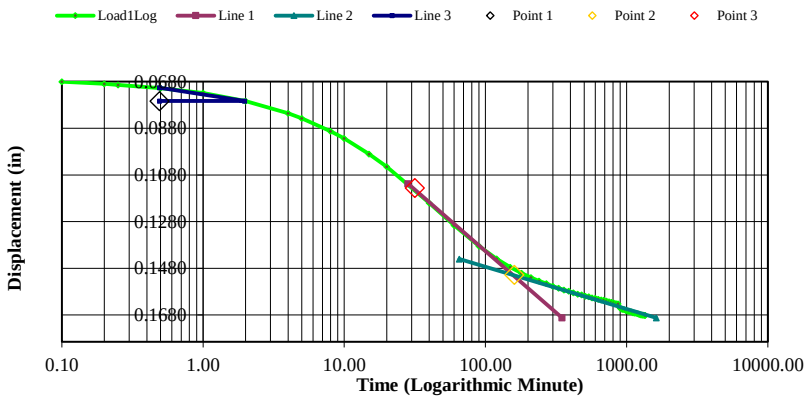
Sample Number:
Soil Description:
Boring Number: 2
Clay (CH)
Depth: 28 - 30 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0662	0.0654	8.7785	1.5901
1	00:00:01	0.0663	0.0655	8.7919	1.5897
2	00:00:02	0.0664	0.0656	8.8054	1.5893
3	00:00:03	0.0673	0.0665	8.9262	1.5859
4	00:00:04	0.0676	0.0668	8.9664	1.5847
5	00:00:05	0.0679	0.0671	9.0067	1.5836
6	00:00:06	0.0681	0.0673	9.0336	1.5828
7	00:00:12	0.0689	0.0681	9.1409	1.5798
8	00:00:15	0.0694	0.0686	9.2081	1.5779
9	00:00:30	0.0708	0.0700	9.3960	1.5725
10	00:01:00	0.0729	0.0721	9.6779	1.5645
11	00:02:00	0.0764	0.0756	10.1477	1.5512
12	00:04:00	0.0816	0.0808	10.8456	1.5314
13	00:05:00	0.0838	0.0830	11.1409	1.5230
14	00:08:00	0.0893	0.0885	11.8792	1.5020
15	00:10:00	0.0923	0.0915	12.2819	1.4906
16	00:15:00	0.0991	0.0983	13.1946	1.4647
17	00:20:00	0.1045	0.1037	13.9195	1.4441
18	00:40:00	0.1200	0.1192	16.0000	1.3850
19	01:00:00	0.1296	0.1288	17.2886	1.3485
20	01:30:00	0.1385	0.1377	18.4832	1.3145
21	01:59:59	0.1440	0.1432	19.2215	1.2936
22	02:29:59	0.1475	0.1467	19.6913	1.2802
23	02:59:59	0.1501	0.1493	20.0403	1.2703
24	03:29:59	0.1520	0.1512	20.2953	1.2631
25	03:59:58	0.1535	0.1527	20.4966	1.2574
26	04:29:58	0.1546	0.1538	20.6443	1.2532
27	04:59:58	0.1557	0.1549	20.7919	1.2490
28	05:29:57	0.1565	0.1557	20.8993	1.2459
29	05:59:56	0.1573	0.1565	21.0067	1.2429
30	06:29:56	0.1578	0.1570	21.0738	1.2410
31	06:59:57	0.1585	0.1577	21.1678	1.2383
32	07:29:56	0.1591	0.1583	21.2483	1.2360
33	07:59:55	0.1594	0.1586	21.2886	1.2349
34	08:29:56	0.1600	0.1592	21.3691	1.2326
35	08:59:56	0.1602	0.1594	21.3960	1.2318

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:55	0.1607	0.1599	21.4631	1.2299
37	09:59:54	0.1609	0.1601	21.4899	1.2292
38	10:29:54	0.1613	0.1605	21.5436	1.2276
39	10:59:54	0.1616	0.1608	21.5839	1.2265
40	11:29:53	0.1617	0.1609	21.5973	1.2261
41	11:59:53	0.1621	0.1613	21.6510	1.2246
42	12:29:53	0.1624	0.1616	21.6913	1.2234
43	12:59:53	0.1625	0.1617	21.7047	1.2231
44	13:29:52	0.1628	0.1620	21.7450	1.2219
45	13:59:53	0.1631	0.1623	21.7852	1.2208
46	14:29:52	0.1632	0.1624	21.7987	1.2204
47	14:59:52	0.1650	0.1642	22.0403	1.2135
48	15:29:51	0.1656	0.1648	22.1208	1.2112
49	15:59:51	0.1657	0.1649	22.1342	1.2109
50	16:29:51	0.1661	0.1653	22.1879	1.2093
51	16:59:50	0.1664	0.1656	22.2282	1.2082
52	17:29:50	0.1665	0.1657	22.2416	1.2078
53	17:59:50	0.1667	0.1659	22.2685	1.2071
54	18:29:50	0.1671	0.1663	22.3221	1.2055
55	18:59:49	0.1672	0.1664	22.3356	1.2052
56	19:29:50	0.1673	0.1665	22.3490	1.2048
57	19:59:50	0.1675	0.1667	22.3758	1.2040
58	20:29:49	0.1678	0.1670	22.4161	1.2029
59	20:59:48	0.1680	0.1672	22.4430	1.2021
60	21:29:48	0.1681	0.1673	22.4564	1.2017
61	21:59:48	0.1681	0.1673	22.4564	1.2017
62	22:29:48	0.1682	0.1674	22.4698	1.2013
63	22:30:18	0.1682	0.1674	22.4698	1.2013

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

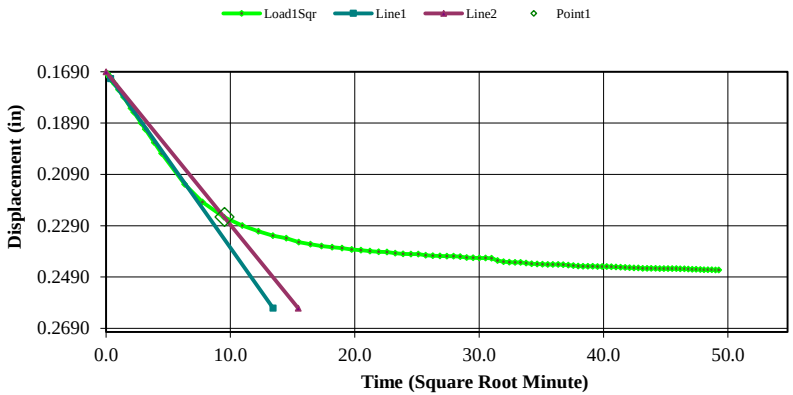
Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 7 April 15
Test Number:

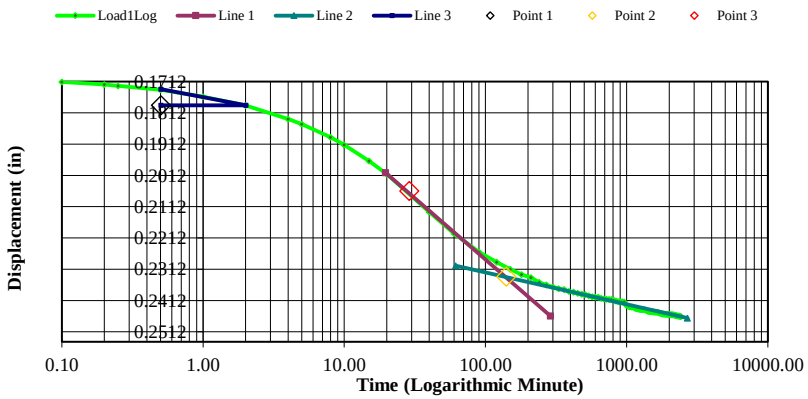
Sample Number:
Soil Description:
Boring Number: 2
Clay (CH)
Depth: 28 - 30 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1682	0.1674	22.4698	1.2013
1	00:00:01	0.1698	0.1690	22.6846	1.1952
2	00:00:02	0.1704	0.1696	22.7651	1.1930
3	00:00:03	0.1706	0.1698	22.7919	1.1922
4	00:00:04	0.1710	0.1702	22.8456	1.1907
5	00:00:05	0.1712	0.1704	22.8725	1.1899
6	00:00:06	0.1713	0.1705	22.8859	1.1895
7	00:00:12	0.1721	0.1713	22.9933	1.1865
8	00:00:15	0.1726	0.1718	23.0604	1.1846
9	00:00:30	0.1738	0.1730	23.2215	1.1800
10	00:01:00	0.1760	0.1752	23.5168	1.1716
11	00:02:00	0.1788	0.1780	23.8926	1.1609
12	00:04:00	0.1832	0.1824	24.4832	1.1442
13	00:05:00	0.1848	0.1840	24.6980	1.1381
14	00:08:00	0.1890	0.1882	25.2617	1.1221
15	00:10:00	0.1914	0.1906	25.5839	1.1129
16	00:14:59	0.1966	0.1958	26.2819	1.0931
17	00:19:59	0.2008	0.2000	26.8456	1.0771
18	00:39:59	0.2129	0.2121	28.4698	1.0310
19	01:00:01	0.2198	0.2190	29.3960	1.0047
20	01:30:03	0.2257	0.2249	30.1879	0.9822
21	02:00:05	0.2289	0.2281	30.6174	0.9700
22	02:30:08	0.2312	0.2304	30.9262	0.9612
23	03:00:10	0.2329	0.2321	31.1544	0.9548
24	03:30:12	0.2339	0.2331	31.2886	0.9509
25	04:00:14	0.2354	0.2346	31.4899	0.9452
26	04:30:17	0.2362	0.2354	31.5973	0.9422
27	05:00:19	0.2369	0.2361	31.6913	0.9395
28	05:30:21	0.2374	0.2366	31.7584	0.9376
29	06:00:24	0.2377	0.2369	31.7987	0.9365
30	06:30:26	0.2383	0.2375	31.8792	0.9342
31	07:00:28	0.2385	0.2377	31.9060	0.9334
32	07:30:30	0.2389	0.2381	31.9597	0.9319
33	08:00:32	0.2392	0.2384	32.0000	0.9307
34	08:30:35	0.2393	0.2385	32.0134	0.9304
35	09:00:37	0.2397	0.2389	32.0671	0.9288

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:39	0.2400	0.2392	32.1074	0.9277
37	10:00:42	0.2401	0.2393	32.1208	0.9273
38	10:30:44	0.2401	0.2393	32.1208	0.9273
39	11:00:46	0.2405	0.2397	32.1745	0.9258
40	11:30:48	0.2407	0.2399	32.2013	0.9250
41	12:00:50	0.2408	0.2400	32.2148	0.9246
42	12:30:53	0.2409	0.2401	32.2282	0.9243
43	13:00:55	0.2409	0.2401	32.2282	0.9243
44	13:30:57	0.2411	0.2403	32.2550	0.9235
45	14:01:00	0.2414	0.2406	32.2953	0.9224
46	14:31:02	0.2415	0.2407	32.3087	0.9220
47	15:01:04	0.2416	0.2408	32.3221	0.9216
48	15:31:06	0.2416	0.2408	32.3221	0.9216
49	16:01:09	0.2417	0.2409	32.3356	0.9212
50	16:31:11	0.2426	0.2418	32.4564	0.9178
51	17:01:13	0.2430	0.2422	32.5101	0.9163
52	17:31:16	0.2432	0.2424	32.5369	0.9155
53	18:01:18	0.2433	0.2425	32.5503	0.9151
54	18:31:20	0.2433	0.2425	32.5503	0.9151
55	19:01:22	0.2436	0.2428	32.5906	0.9140
56	19:31:25	0.2438	0.2430	32.6175	0.9132
57	20:01:27	0.2439	0.2431	32.6309	0.9128
58	20:31:29	0.2440	0.2432	32.6443	0.9125
59	21:01:31	0.2441	0.2433	32.6577	0.9121
60	21:31:34	0.2441	0.2433	32.6577	0.9121
61	22:01:36	0.2441	0.2433	32.6577	0.9121
62	22:31:38	0.2442	0.2434	32.6711	0.9117
63	23:01:40	0.2444	0.2436	32.6980	0.9109
64	23:31:43	0.2446	0.2438	32.7248	0.9102
65	24:01:45	0.2447	0.2439	32.7383	0.9098
66	24:31:47	0.2448	0.2440	32.7517	0.9094
67	25:01:49	0.2448	0.2440	32.7517	0.9094
68	25:31:52	0.2448	0.2440	32.7517	0.9094
69	26:01:54	0.2449	0.2441	32.7651	0.9090
70	26:31:56	0.2449	0.2441	32.7651	0.9090
71	27:01:59	0.2449	0.2441	32.7651	0.9090
72	27:32:01	0.2450	0.2442	32.7785	0.9086
73	28:02:03	0.2451	0.2443	32.7919	0.9083
74	28:32:05	0.2452	0.2444	32.8054	0.9079
75	29:02:08	0.2453	0.2445	32.8188	0.9075
76	29:32:10	0.2454	0.2446	32.8322	0.9071
77	30:02:12	0.2455	0.2447	32.8456	0.9067
78	30:32:14	0.2455	0.2447	32.8456	0.9067
79	31:02:17	0.2456	0.2448	32.8591	0.9064
80	31:32:19	0.2456	0.2448	32.8591	0.9064
81	32:02:21	0.2456	0.2448	32.8591	0.9064
82	32:32:23	0.2456	0.2448	32.8591	0.9064
83	33:02:26	0.2457	0.2449	32.8725	0.9060
84	33:32:28	0.2457	0.2449	32.8725	0.9060
85	34:02:30	0.2457	0.2449	32.8725	0.9060
86	34:32:32	0.2457	0.2449	32.8725	0.9060
87	35:02:35	0.2457	0.2449	32.8725	0.9060

88	35:32:37	0.2458	0.2450	32.8859	0.9056
89	36:02:39	0.2458	0.2450	32.8859	0.9056
90	36:32:41	0.2459	0.2451	32.8993	0.9052
91	37:02:43	0.2460	0.2452	32.9128	0.9048
92	37:32:46	0.2460	0.2452	32.9128	0.9048
93	38:02:48	0.2461	0.2453	32.9262	0.9044
94	38:32:50	0.2462	0.2454	32.9396	0.9041
95	39:02:53	0.2462	0.2454	32.9396	0.9041
96	39:32:55	0.2462	0.2454	32.9396	0.9041
97	40:02:57	0.2463	0.2455	32.9530	0.9037
98	40:28:13	0.2463	0.2455	32.9530	0.9037

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

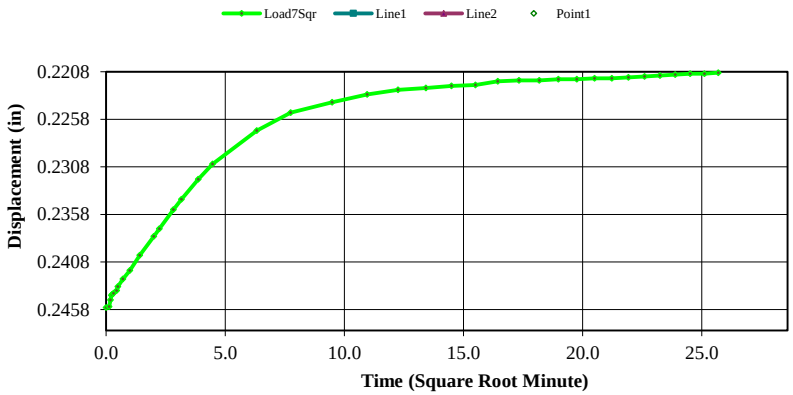
Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 7 April 15
Test Number:

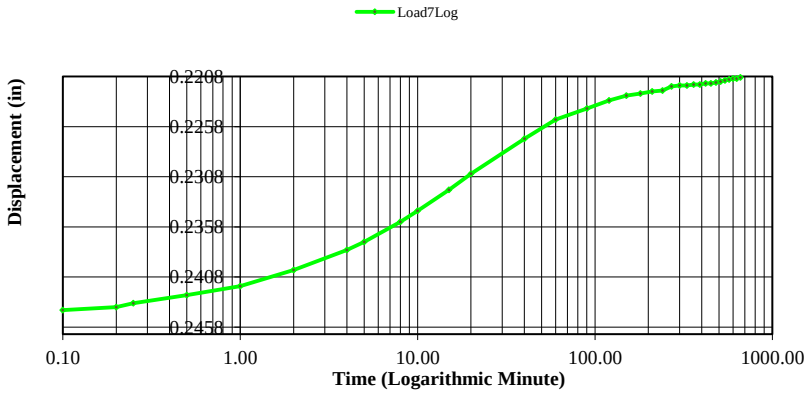
Sample Number:
Soil Description:
Boring Number: 2
Clay (CH)
Depth: 28 - 30 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2463	0.2455	32.9530	0.9037
1	00:00:00	0.2456	0.2448	32.8591	0.9064
2	00:00:01	0.2455	0.2447	32.8456	0.9067
3	00:00:02	0.2448	0.2440	32.7517	0.9094
4	00:00:03	0.2443	0.2435	32.6846	0.9113
5	00:00:04	0.2442	0.2434	32.6711	0.9117
6	00:00:06	0.2441	0.2433	32.6577	0.9121
7	00:00:12	0.2438	0.2430	32.6175	0.9132
8	00:00:15	0.2434	0.2426	32.5638	0.9147
9	00:00:30	0.2426	0.2418	32.4564	0.9178
10	00:01:00	0.2417	0.2409	32.3356	0.9212
11	00:02:00	0.2401	0.2393	32.1208	0.9273
12	00:04:00	0.2381	0.2373	31.8523	0.9349
13	00:05:00	0.2373	0.2365	31.7450	0.9380
14	00:08:00	0.2353	0.2345	31.4765	0.9456
15	00:10:00	0.2342	0.2334	31.3289	0.9498
16	00:15:01	0.2321	0.2313	31.0470	0.9578
17	00:20:01	0.2305	0.2297	30.8322	0.9639
18	00:40:03	0.2270	0.2262	30.3624	0.9772
19	01:00:04	0.2251	0.2243	30.1074	0.9845
20	01:30:06	0.2240	0.2232	29.9597	0.9887
21	02:00:09	0.2232	0.2224	29.8523	0.9917
22	02:30:11	0.2227	0.2219	29.7852	0.9936
23	03:00:13	0.2225	0.2217	29.7584	0.9944
24	03:30:15	0.2223	0.2215	29.7315	0.9952
25	04:00:18	0.2222	0.2214	29.7181	0.9955
26	04:30:20	0.2218	0.2210	29.6644	0.9971
27	05:00:22	0.2217	0.2209	29.6510	0.9974
28	05:30:25	0.2217	0.2209	29.6510	0.9974
29	06:00:27	0.2216	0.2208	29.6376	0.9978
30	06:30:29	0.2216	0.2208	29.6376	0.9978
31	07:00:31	0.2215	0.2207	29.6242	0.9982
32	07:30:34	0.2215	0.2207	29.6242	0.9982
33	08:00:36	0.2214	0.2206	29.6107	0.9986
34	08:30:38	0.2213	0.2205	29.5973	0.9990
35	09:00:40	0.2212	0.2204	29.5839	0.9993

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.2211	0.2203	29.5705	0.9997
37	10:00:45	0.2210	0.2202	29.5570	1.0001
38	10:30:47	0.2210	0.2202	29.5570	1.0001
39	11:00:16	0.2209	0.2201	29.5436	1.0005

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

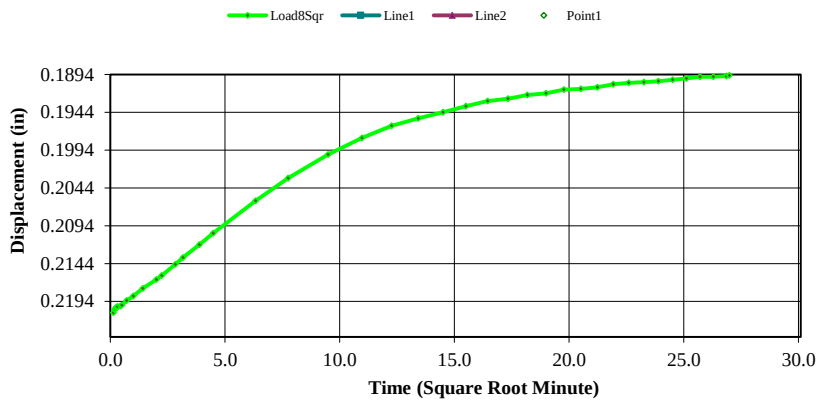
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

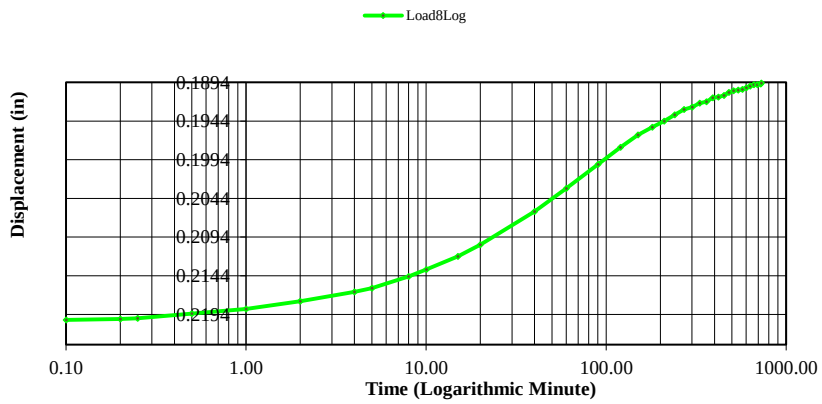
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2209	0.2201	29.5436	1.0005
1	00:00:01	0.2209	0.2201	29.5436	1.0005
2	00:00:02	0.2205	0.2197	29.4899	1.0020
3	00:00:03	0.2203	0.2195	29.4631	1.0028
4	00:00:04	0.2202	0.2194	29.4497	1.0032
5	00:00:05	0.2202	0.2194	29.4497	1.0032
6	00:00:06	0.2201	0.2193	29.4362	1.0035
7	00:00:12	0.2200	0.2192	29.4228	1.0039
8	00:00:15	0.2199	0.2191	29.4094	1.0043
9	00:00:30	0.2193	0.2185	29.3289	1.0066
10	00:01:00	0.2187	0.2179	29.2483	1.0089
11	00:02:00	0.2177	0.2169	29.1141	1.0127
12	00:04:00	0.2165	0.2157	28.9530	1.0173
13	00:05:00	0.2160	0.2152	28.8859	1.0192
14	00:08:00	0.2145	0.2137	28.6846	1.0249
15	00:10:01	0.2136	0.2128	28.5638	1.0283
16	00:15:01	0.2119	0.2111	28.3356	1.0348
17	00:20:01	0.2104	0.2096	28.1342	1.0405
18	00:40:03	0.2061	0.2053	27.5570	1.0569
19	01:00:04	0.2031	0.2023	27.1544	1.0683
20	01:30:07	0.2000	0.1992	26.7383	1.0801
21	02:00:09	0.1978	0.1970	26.4430	1.0885
22	02:30:11	0.1962	0.1954	26.2282	1.0946
23	03:00:13	0.1952	0.1944	26.0940	1.0984
24	03:30:16	0.1944	0.1936	25.9866	1.1015
25	04:00:18	0.1936	0.1928	25.8792	1.1045
26	04:30:20	0.1929	0.1921	25.7852	1.1072
27	05:00:23	0.1926	0.1918	25.7450	1.1083
28	05:30:25	0.1921	0.1913	25.6779	1.1103
29	06:00:27	0.1919	0.1911	25.6510	1.1110
30	06:30:29	0.1914	0.1906	25.5839	1.1129
31	07:00:32	0.1913	0.1905	25.5705	1.1133
32	07:30:34	0.1911	0.1903	25.5436	1.1141
33	08:00:36	0.1907	0.1899	25.4899	1.1156
34	08:30:38	0.1905	0.1897	25.4631	1.1164
35	09:00:41	0.1904	0.1896	25.4497	1.1167

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.1903	0.1895	25.4362	1.1171
37	10:00:45	0.1901	0.1893	25.4094	1.1179
38	10:30:47	0.1899	0.1891	25.3825	1.1186
39	11:00:50	0.1897	0.1889	25.3557	1.1194
40	11:30:52	0.1897	0.1889	25.3557	1.1194
41	12:00:54	0.1896	0.1888	25.3423	1.1198
42	12:08:07	0.1895	0.1887	25.3289	1.1202

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

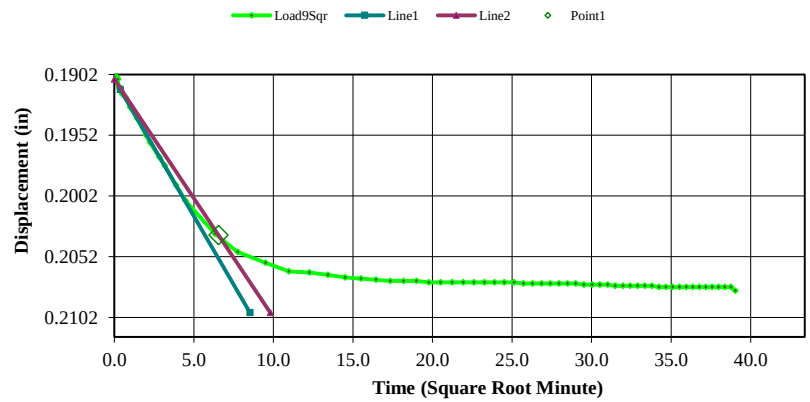
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

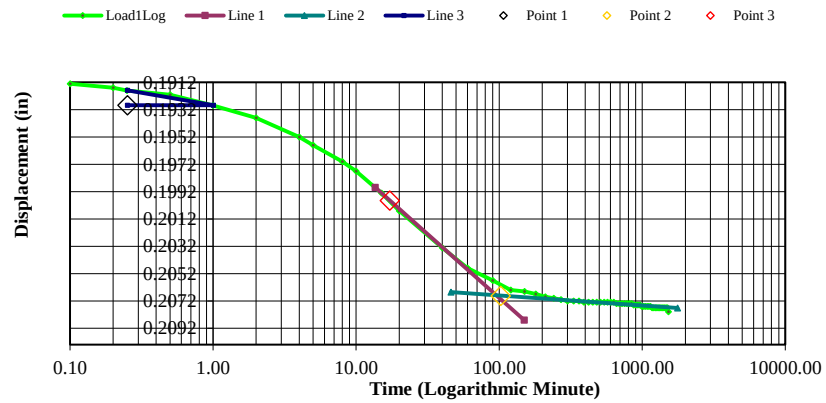
Soil Description:
Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1895	0.1887	25.3289	1.1202
1	00:00:01	0.1904	0.1896	25.4497	1.1167
2	00:00:02	0.1905	0.1897	25.4631	1.1164
3	00:00:03	0.1906	0.1898	25.4765	1.1160
4	00:00:04	0.1912	0.1904	25.5570	1.1137
5	00:00:05	0.1912	0.1904	25.5570	1.1137
6	00:00:06	0.1913	0.1905	25.5705	1.1133
7	00:00:12	0.1916	0.1908	25.6107	1.1122
8	00:00:15	0.1918	0.1910	25.6376	1.1114
9	00:00:30	0.1921	0.1913	25.6779	1.1103
10	00:01:00	0.1929	0.1921	25.7852	1.1072
11	00:02:00	0.1938	0.1930	25.9060	1.1038
12	00:04:00	0.1952	0.1944	26.0940	1.0984
13	00:05:00	0.1958	0.1950	26.1745	1.0962
14	00:08:00	0.1970	0.1962	26.3356	1.0916
15	00:10:00	0.1977	0.1969	26.4295	1.0889
16	00:15:01	0.1993	0.1985	26.6443	1.0828
17	00:20:01	0.2006	0.1998	26.8188	1.0779
18	00:40:02	0.2033	0.2025	27.1812	1.0676
19	01:00:04	0.2048	0.2040	27.3825	1.0619
20	01:30:06	0.2057	0.2049	27.5034	1.0584
21	02:00:08	0.2064	0.2056	27.5973	1.0558
22	02:30:11	0.2065	0.2057	27.6107	1.0554
23	03:00:13	0.2067	0.2059	27.6376	1.0546
24	03:30:15	0.2069	0.2061	27.6644	1.0538
25	04:00:18	0.2070	0.2062	27.6779	1.0535
26	04:30:20	0.2071	0.2063	27.6913	1.0531
27	05:00:22	0.2072	0.2064	27.7047	1.0527
28	05:30:24	0.2072	0.2064	27.7047	1.0527
29	06:00:27	0.2072	0.2064	27.7047	1.0527
30	06:30:29	0.2073	0.2065	27.7181	1.0523
31	07:00:31	0.2073	0.2065	27.7181	1.0523
32	07:30:33	0.2073	0.2065	27.7181	1.0523
33	08:00:36	0.2073	0.2065	27.7181	1.0523
34	08:30:38	0.2073	0.2065	27.7181	1.0523
35	09:00:40	0.2073	0.2065	27.7181	1.0523

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:42	0.2073	0.2065	27.7181	1.0523
37	10:00:45	0.2073	0.2065	27.7181	1.0523
38	10:30:47	0.2073	0.2065	27.7181	1.0523
39	11:00:49	0.2074	0.2066	27.7315	1.0519
40	11:30:52	0.2074	0.2066	27.7315	1.0519
41	12:00:54	0.2074	0.2066	27.7315	1.0519
42	12:30:56	0.2074	0.2066	27.7315	1.0519
43	13:00:58	0.2074	0.2066	27.7315	1.0519
44	13:31:01	0.2074	0.2066	27.7315	1.0519
45	14:01:03	0.2074	0.2066	27.7315	1.0519
46	14:31:05	0.2075	0.2067	27.7450	1.0516
47	15:01:07	0.2075	0.2067	27.7450	1.0516
48	15:31:10	0.2075	0.2067	27.7450	1.0516
49	16:01:12	0.2075	0.2067	27.7450	1.0516
50	16:31:14	0.2076	0.2068	27.7584	1.0512
51	17:01:16	0.2076	0.2068	27.7584	1.0512
52	17:31:19	0.2076	0.2068	27.7584	1.0512
53	18:01:21	0.2076	0.2068	27.7584	1.0512
54	18:31:23	0.2076	0.2068	27.7584	1.0512
55	19:01:26	0.2076	0.2068	27.7584	1.0512
56	19:31:28	0.2077	0.2069	27.7718	1.0508
57	20:01:30	0.2077	0.2069	27.7718	1.0508
58	20:31:32	0.2077	0.2069	27.7718	1.0508
59	21:01:35	0.2077	0.2069	27.7718	1.0508
60	21:31:37	0.2077	0.2069	27.7718	1.0508
61	22:01:39	0.2077	0.2069	27.7718	1.0508
62	22:31:41	0.2077	0.2069	27.7718	1.0508
63	23:01:43	0.2077	0.2069	27.7718	1.0508
64	23:31:46	0.2077	0.2069	27.7718	1.0508
65	24:01:48	0.2077	0.2069	27.7718	1.0508
66	24:31:50	0.2077	0.2069	27.7718	1.0508
67	25:01:53	0.2077	0.2069	27.7718	1.0508
68	25:22:54	0.2080	0.2072	27.8121	1.0497

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

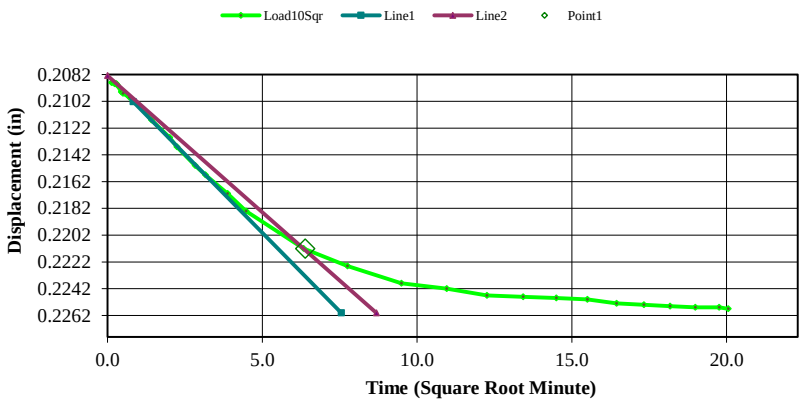
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

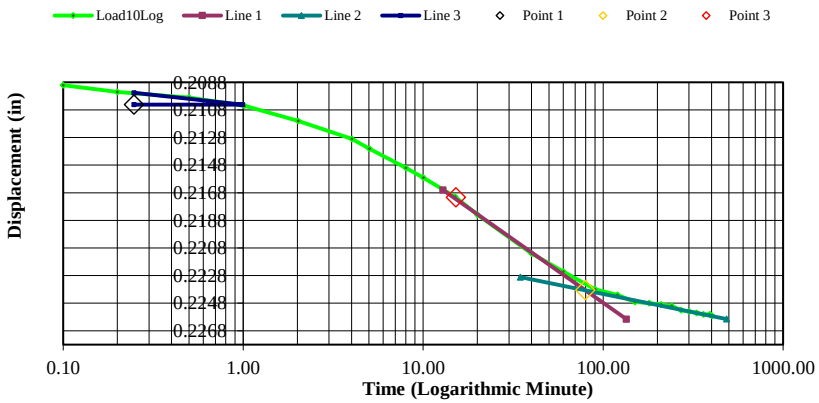
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2080	0.2072	27.8121	1.0497
1	00:00:01	0.2088	0.2080	27.9195	1.0466
2	00:00:02	0.2088	0.2080	27.9195	1.0466
3	00:00:03	0.2089	0.2081	27.9329	1.0462
4	00:00:04	0.2089	0.2081	27.9329	1.0462
5	00:00:05	0.2089	0.2081	27.9329	1.0462
6	00:00:06	0.2090	0.2082	27.9463	1.0458
7	00:00:12	0.2095	0.2087	28.0134	1.0439
8	00:00:15	0.2096	0.2088	28.0268	1.0436
9	00:00:30	0.2099	0.2091	28.0671	1.0424
10	00:01:01	0.2105	0.2097	28.1477	1.0401
11	00:02:01	0.2116	0.2108	28.2953	1.0359
12	00:04:01	0.2129	0.2121	28.4698	1.0310
13	00:05:01	0.2136	0.2128	28.5638	1.0283
14	00:08:01	0.2150	0.2142	28.7517	1.0230
15	00:10:01	0.2157	0.2149	28.8456	1.0203
16	00:15:02	0.2171	0.2163	29.0336	1.0150
17	00:20:02	0.2184	0.2176	29.2081	1.0100
18	00:40:03	0.2212	0.2204	29.5839	0.9993
19	01:00:05	0.2225	0.2217	29.7584	0.9944
20	01:30:07	0.2238	0.2230	29.9329	0.9894
21	02:00:10	0.2242	0.2234	29.9866	0.9879
22	02:30:12	0.2247	0.2239	30.0537	0.9860
23	03:00:14	0.2248	0.2240	30.0671	0.9856
24	03:30:16	0.2249	0.2241	30.0805	0.9852
25	04:00:19	0.2250	0.2242	30.0940	0.9849
26	04:30:21	0.2253	0.2245	30.1342	0.9837
27	05:00:23	0.2254	0.2246	30.1477	0.9833
28	05:30:25	0.2255	0.2247	30.1611	0.9830
29	06:00:28	0.2256	0.2248	30.1745	0.9826
30	06:30:30	0.2256	0.2248	30.1745	0.9826
31	06:42:05	0.2257	0.2249	30.1879	0.9822

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

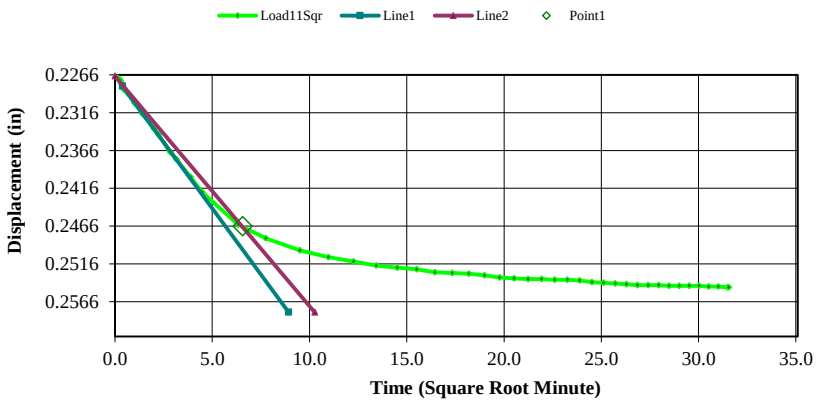
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

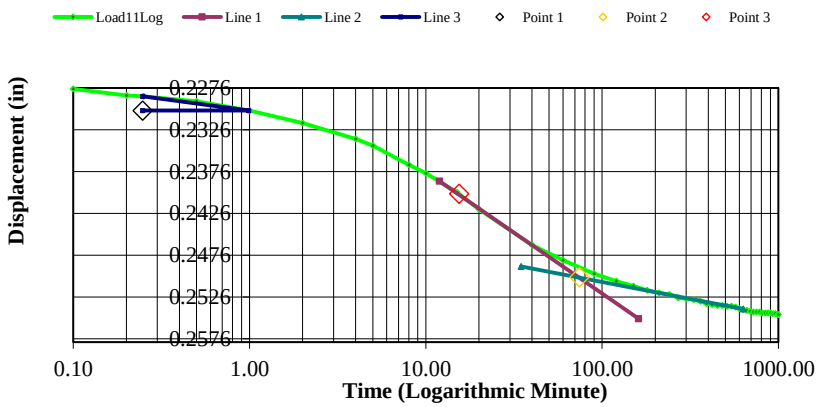
Soil Description:
Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2257	0.2249	30.1879	0.9822
1	00:00:01	0.2270	0.2262	30.3624	0.9772
2	00:00:02	0.2272	0.2264	30.3893	0.9765
3	00:00:03	0.2272	0.2264	30.3893	0.9765
4	00:00:04	0.2273	0.2265	30.4027	0.9761
5	00:00:05	0.2274	0.2266	30.4161	0.9757
6	00:00:06	0.2277	0.2269	30.4564	0.9746
7	00:00:12	0.2285	0.2277	30.5638	0.9715
8	00:00:15	0.2286	0.2278	30.5772	0.9711
9	00:00:30	0.2292	0.2284	30.6577	0.9689
10	00:01:00	0.2303	0.2295	30.8054	0.9647
11	00:02:00	0.2318	0.2310	31.0067	0.9589
12	00:04:00	0.2337	0.2329	31.2617	0.9517
13	00:05:00	0.2345	0.2337	31.3691	0.9487
14	00:08:00	0.2368	0.2360	31.6779	0.9399
15	00:10:00	0.2378	0.2370	31.8121	0.9361
16	00:15:01	0.2401	0.2393	32.1208	0.9273
17	00:20:01	0.2421	0.2413	32.3893	0.9197
18	00:40:03	0.2464	0.2456	32.9664	0.9033
19	01:00:04	0.2482	0.2474	33.2081	0.8964
20	01:30:07	0.2498	0.2490	33.4228	0.8903
21	02:00:09	0.2507	0.2499	33.5436	0.8869
22	02:30:11	0.2513	0.2505	33.6242	0.8846
23	03:00:13	0.2518	0.2510	33.6913	0.8827
24	03:30:15	0.2521	0.2513	33.7315	0.8816
25	04:00:18	0.2523	0.2515	33.7584	0.8808
26	04:30:20	0.2527	0.2519	33.8121	0.8793
27	05:00:22	0.2528	0.2520	33.8255	0.8789
28	05:30:24	0.2529	0.2521	33.8389	0.8785
29	06:00:27	0.2531	0.2523	33.8658	0.8778
30	06:30:29	0.2534	0.2526	33.9060	0.8766
31	07:00:31	0.2535	0.2527	33.9195	0.8762
32	07:30:34	0.2536	0.2528	33.9329	0.8759
33	08:00:36	0.2536	0.2528	33.9329	0.8759
34	08:30:38	0.2537	0.2529	33.9463	0.8755
35	09:00:40	0.2537	0.2529	33.9463	0.8755

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.2538	0.2530	33.9597	0.8751
37	10:00:45	0.2540	0.2532	33.9866	0.8743
38	10:30:47	0.2541	0.2533	34.0000	0.8740
39	11:00:49	0.2542	0.2534	34.0134	0.8736
40	11:30:52	0.2543	0.2535	34.0268	0.8732
41	12:00:54	0.2544	0.2536	34.0403	0.8728
42	12:30:56	0.2544	0.2536	34.0403	0.8728
43	13:00:58	0.2544	0.2536	34.0403	0.8728
44	13:31:01	0.2545	0.2537	34.0537	0.8724
45	14:01:03	0.2545	0.2537	34.0537	0.8724
46	14:31:05	0.2545	0.2537	34.0537	0.8724
47	15:01:08	0.2545	0.2537	34.0537	0.8724
48	15:31:10	0.2546	0.2538	34.0671	0.8721
49	16:01:12	0.2546	0.2538	34.0671	0.8721
50	16:31:14	0.2547	0.2539	34.0805	0.8717
51	16:35:23	0.2547	0.2539	34.0805	0.8717

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

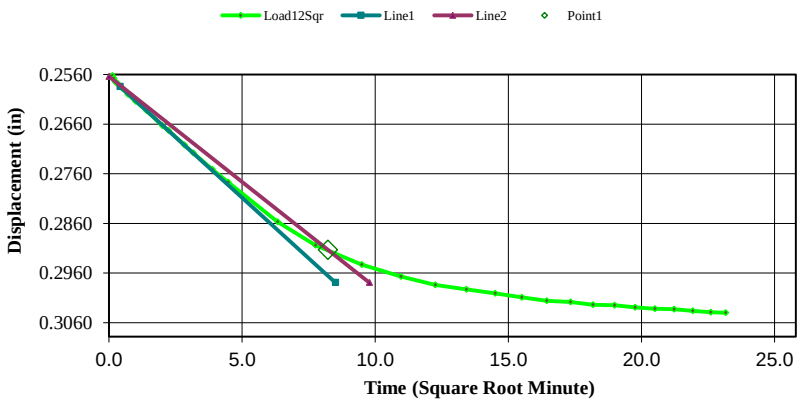
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

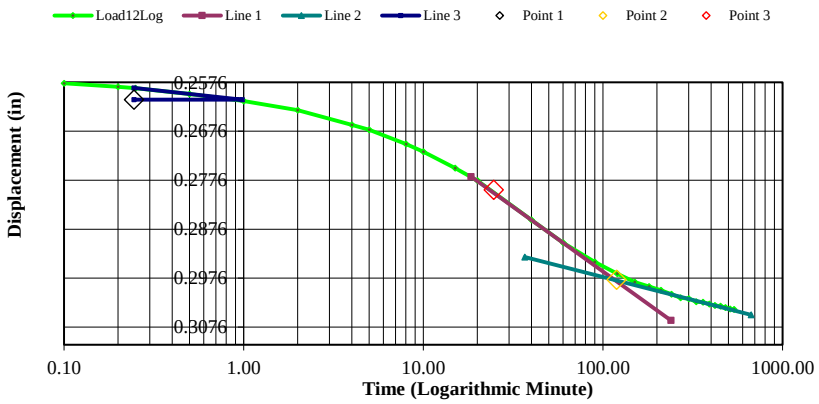
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2547	0.2539	34.0805	0.8717
1	00:00:01	0.2562	0.2554	34.2819	0.8660
2	00:00:02	0.2568	0.2560	34.3624	0.8637
3	00:00:03	0.2574	0.2566	34.4430	0.8614
4	00:00:04	0.2576	0.2568	34.4698	0.8606
5	00:00:05	0.2577	0.2569	34.4832	0.8602
6	00:00:06	0.2578	0.2570	34.4966	0.8599
7	00:00:12	0.2585	0.2577	34.5906	0.8572
8	00:00:15	0.2588	0.2580	34.6309	0.8560
9	00:00:30	0.2600	0.2592	34.7919	0.8515
10	00:01:00	0.2614	0.2606	34.9799	0.8461
11	00:02:00	0.2633	0.2625	35.2349	0.8389
12	00:04:00	0.2663	0.2655	35.6376	0.8275
13	00:05:00	0.2673	0.2665	35.7718	0.8237
14	00:08:01	0.2702	0.2694	36.1611	0.8126
15	00:10:01	0.2718	0.2710	36.3758	0.8065
16	00:15:01	0.2751	0.2743	36.8188	0.7939
17	00:20:02	0.2777	0.2769	37.1678	0.7840
18	00:40:03	0.2857	0.2849	38.2416	0.7535
19	01:00:05	0.2904	0.2896	38.8725	0.7356
20	01:30:07	0.2943	0.2935	39.3960	0.7207
21	02:00:09	0.2967	0.2959	39.7181	0.7116
22	02:30:11	0.2984	0.2976	39.9463	0.7051
23	03:00:14	0.2993	0.2985	40.0671	0.7017
24	03:30:16	0.3001	0.2993	40.1745	0.6986
25	04:00:18	0.3009	0.3001	40.2819	0.6956
26	04:30:20	0.3016	0.3008	40.3758	0.6929
27	05:00:23	0.3018	0.3010	40.4027	0.6922
28	05:30:25	0.3024	0.3016	40.4832	0.6899
29	06:00:27	0.3025	0.3017	40.4966	0.6895
30	06:30:29	0.3029	0.3021	40.5503	0.6880
31	07:00:32	0.3032	0.3024	40.5906	0.6868
32	07:30:34	0.3033	0.3025	40.6040	0.6864
33	08:00:36	0.3036	0.3028	40.6443	0.6853
34	08:30:38	0.3039	0.3031	40.6846	0.6842
35	08:56:25	0.3040	0.3032	40.6980	0.6838

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

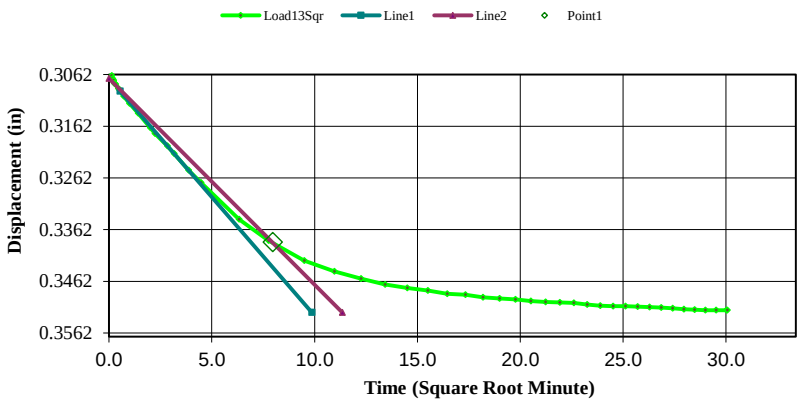
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

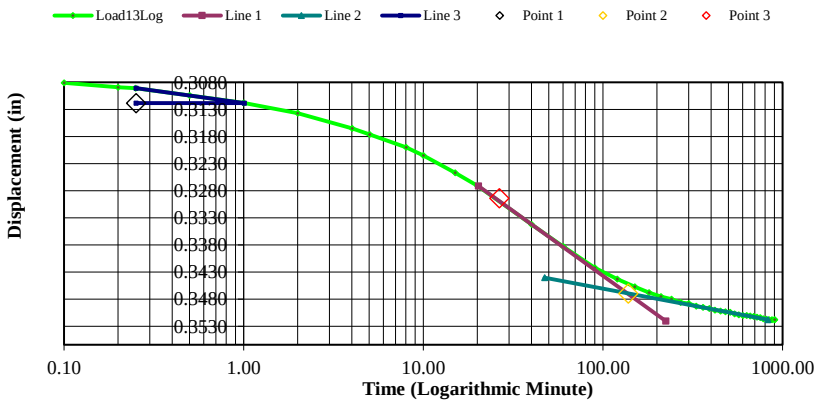
Soil Description: Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3040	0.3032	40.6980	0.6838
1	00:00:01	0.3064	0.3056	41.0201	0.6746
2	00:00:02	0.3070	0.3062	41.1007	0.6723
3	00:00:03	0.3073	0.3065	41.1409	0.6712
4	00:00:04	0.3079	0.3071	41.2215	0.6689
5	00:00:05	0.3080	0.3072	41.2349	0.6685
6	00:00:06	0.3081	0.3073	41.2483	0.6682
7	00:00:12	0.3089	0.3081	41.3557	0.6651
8	00:00:15	0.3091	0.3083	41.3825	0.6643
9	00:00:30	0.3104	0.3096	41.5570	0.6594
10	00:01:00	0.3118	0.3110	41.7450	0.6541
11	00:02:00	0.3137	0.3129	42.0000	0.6468
12	00:04:01	0.3165	0.3157	42.3758	0.6361
13	00:05:01	0.3176	0.3168	42.5235	0.6319
14	00:08:01	0.3200	0.3192	42.8456	0.6228
15	00:10:01	0.3215	0.3207	43.0470	0.6171
16	00:15:01	0.3247	0.3239	43.4765	0.6049
17	00:20:02	0.3271	0.3263	43.7987	0.5957
18	00:40:03	0.3342	0.3334	44.7517	0.5687
19	01:00:05	0.3383	0.3375	45.3020	0.5531
20	01:30:07	0.3422	0.3414	45.8255	0.5382
21	02:00:09	0.3443	0.3435	46.1074	0.5302
22	02:30:12	0.3457	0.3449	46.2953	0.5249
23	03:00:14	0.3468	0.3460	46.4430	0.5207
24	03:30:16	0.3475	0.3467	46.5369	0.5180
25	04:00:18	0.3480	0.3472	46.6040	0.5161
26	04:30:21	0.3486	0.3478	46.6846	0.5138
27	05:00:23	0.3488	0.3480	46.7114	0.5130
28	05:30:25	0.3493	0.3485	46.7785	0.5111
29	06:00:27	0.3495	0.3487	46.8054	0.5104
30	06:30:30	0.3497	0.3489	46.8322	0.5096
31	07:00:32	0.3500	0.3492	46.8725	0.5085
32	07:30:34	0.3502	0.3494	46.8993	0.5077
33	08:00:37	0.3503	0.3495	46.9127	0.5073
34	08:30:39	0.3504	0.3496	46.9262	0.5069
35	09:00:41	0.3507	0.3499	46.9664	0.5058

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.3509	0.3501	46.9933	0.5050
37	10:00:46	0.3510	0.3502	47.0067	0.5047
38	10:30:48	0.3510	0.3502	47.0067	0.5047
39	11:00:50	0.3511	0.3503	47.0201	0.5043
40	11:30:52	0.3512	0.3504	47.0336	0.5039
41	12:00:55	0.3513	0.3505	47.0470	0.5035
42	12:30:57	0.3514	0.3506	47.0604	0.5031
43	13:00:59	0.3516	0.3508	47.0872	0.5024
44	13:31:01	0.3517	0.3509	47.1007	0.5020
45	14:01:04	0.3518	0.3510	47.1141	0.5016
46	14:31:06	0.3518	0.3510	47.1141	0.5016
47	15:01:08	0.3518	0.3510	47.1141	0.5016
48	15:04:03	0.3518	0.3510	47.1141	0.5016

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

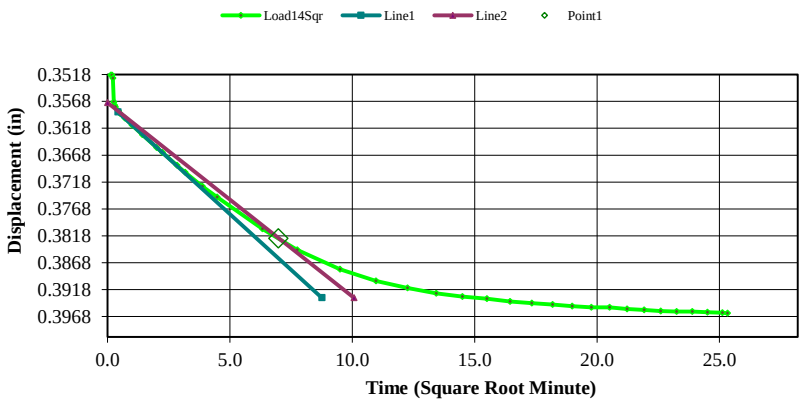
Test Date: 7 April 15
Test Number:

Sample Number:
Boring Number: 2
Depth: 28 - 30 feet
Sample Type: Undisturbed

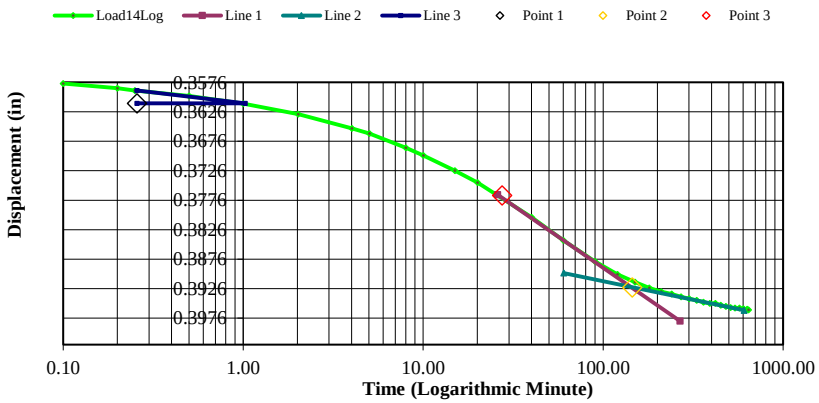
Soil Description:
Clay (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3518	0.3510	47.1141	0.5016
1	00:00:01	0.3519	0.3511	47.1275	0.5012
2	00:00:02	0.3519	0.3511	47.1275	0.5012
3	00:00:03	0.3525	0.3517	47.2080	0.4989
4	00:00:04	0.3569	0.3561	47.7987	0.4822
5	00:00:05	0.3575	0.3567	47.8792	0.4799
6	00:00:06	0.3578	0.3570	47.9195	0.4787
7	00:00:12	0.3586	0.3578	48.0268	0.4757
8	00:00:15	0.3590	0.3582	48.0805	0.4742
9	00:00:30	0.3599	0.3591	48.2013	0.4707
10	00:01:00	0.3612	0.3604	48.3758	0.4658
11	00:02:01	0.3630	0.3622	48.6175	0.4589
12	00:04:01	0.3654	0.3646	48.9396	0.4498
13	00:05:01	0.3663	0.3655	49.0604	0.4463
14	00:08:01	0.3687	0.3679	49.3825	0.4372
15	00:10:01	0.3700	0.3692	49.5570	0.4322
16	00:15:01	0.3726	0.3718	49.9060	0.4223
17	00:20:02	0.3746	0.3738	50.1745	0.4147
18	00:40:03	0.3805	0.3797	50.9664	0.3922
19	01:00:05	0.3844	0.3836	51.4899	0.3774
20	01:30:07	0.3880	0.3872	51.9732	0.3636
21	02:00:09	0.3902	0.3894	52.2685	0.3553
22	02:30:12	0.3915	0.3907	52.4430	0.3503
23	03:00:14	0.3925	0.3917	52.5772	0.3465
24	03:30:16	0.3931	0.3923	52.6577	0.3442
25	04:00:18	0.3935	0.3927	52.7114	0.3427
26	04:30:20	0.3940	0.3932	52.7785	0.3408
27	05:00:23	0.3943	0.3935	52.8188	0.3396
28	05:30:25	0.3946	0.3938	52.8591	0.3385
29	06:00:27	0.3949	0.3941	52.8993	0.3373
30	06:30:30	0.3951	0.3943	52.9262	0.3366
31	07:00:32	0.3951	0.3943	52.9262	0.3366
32	07:30:34	0.3954	0.3946	52.9664	0.3354
33	08:00:36	0.3956	0.3948	52.9933	0.3347
34	08:30:39	0.3958	0.3950	53.0201	0.3339
35	09:00:41	0.3959	0.3951	53.0336	0.3335

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)

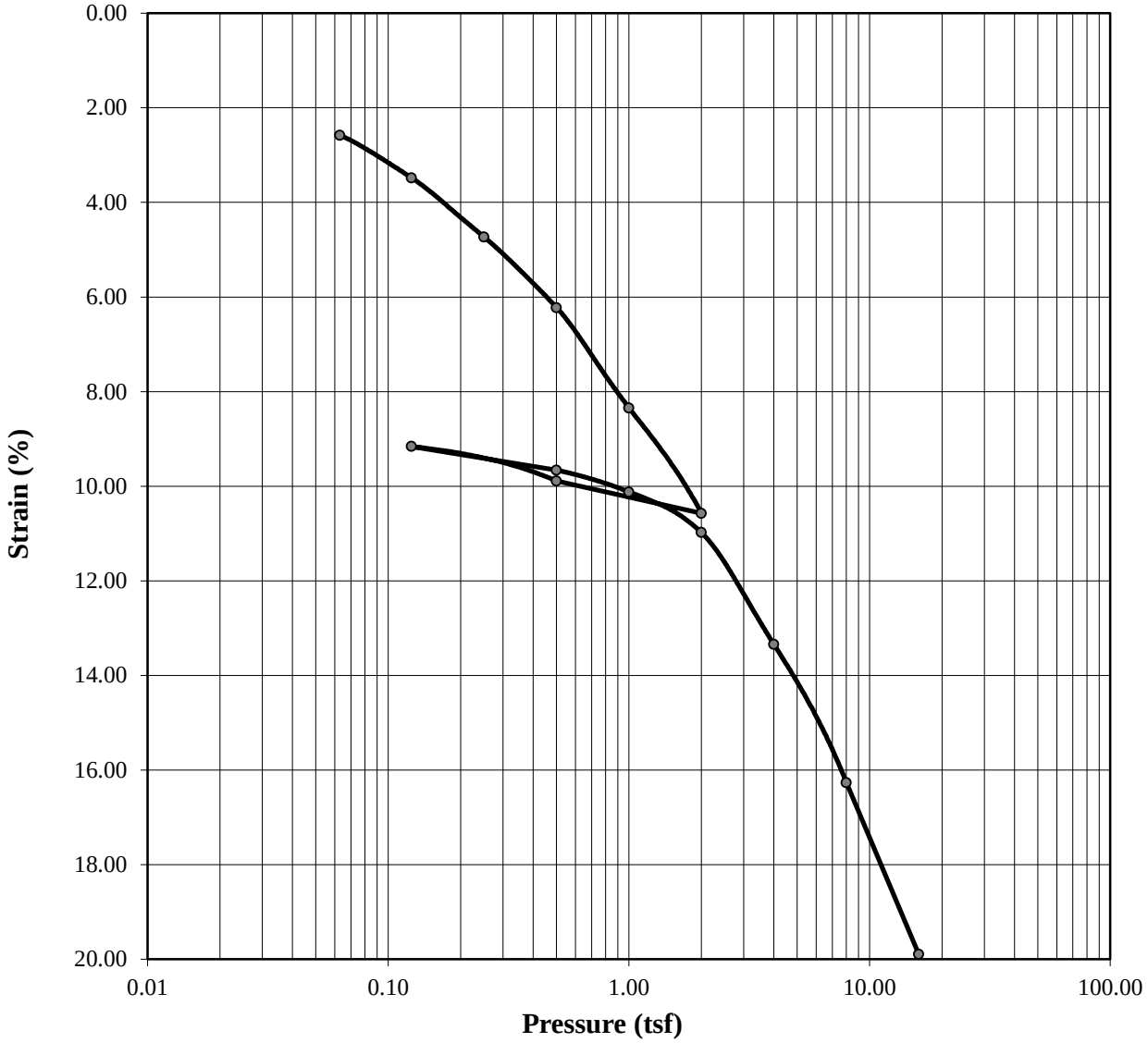


36	09:30:43	0.3959	0.3951	53.0336	0.3335
37	10:00:45	0.3960	0.3952	53.0470	0.3332
38	10:30:48	0.3961	0.3953	53.0604	0.3328
39	10:41:22	0.3962	0.3954	53.0738	0.3324

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	30	**Test Date:**	26 Mar 15
Moisture (%):	42.40	30.15	**Plastic Limits:**	24		
Dry Density (pcf):	81.72	103.90	**Plasticity Index (%):**	6		
Saturation (%):	110.21	136.05				
Void Ratio:	1.0137	0.6132	**Specific Gravity:**	2.637	Measured	

Sample Description: Clayey Silt (CL-ML)

Project Number: 16715-040-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 3

Project: Island Road Marsh Creation and Nourishment (TE-117)

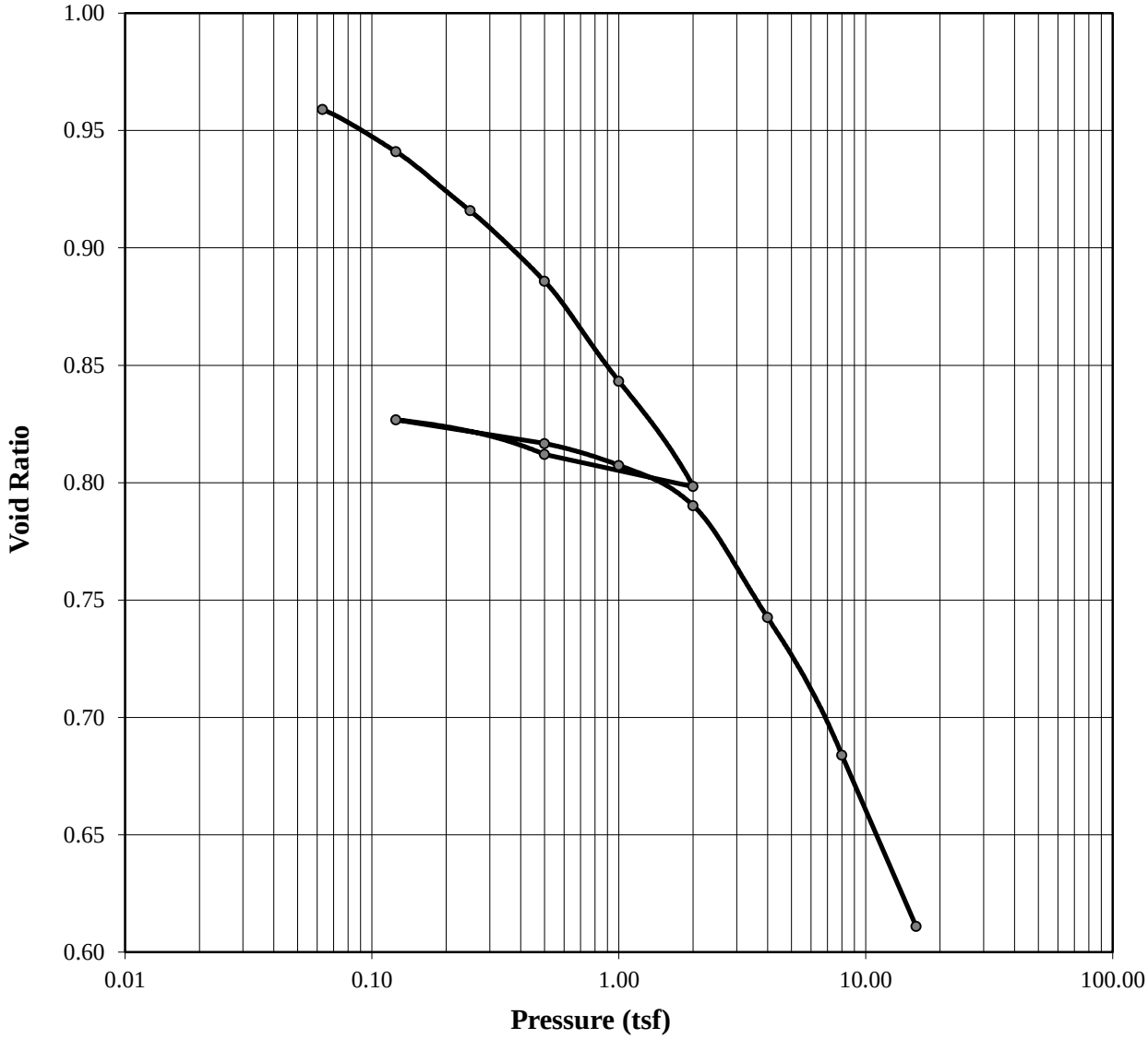
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	30	**Test Date:**	26 Mar 15
Moisture (%):	42.40	30.15	**Plastic Limits:**	24		
Dry Density (pcf):	81.72	103.90	**Plasticity Index (%):**	6		
Saturation (%):	110.21	136.05				
Void Ratio:	1.0137	0.6132	**Specific Gravity:**	2.637	Measured	

Soil Description: Clayey Silt (CL-ML)

Project Number: 16715-040-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 3

Project: Island Road Marsh Creation and Nourishment (TE-117)

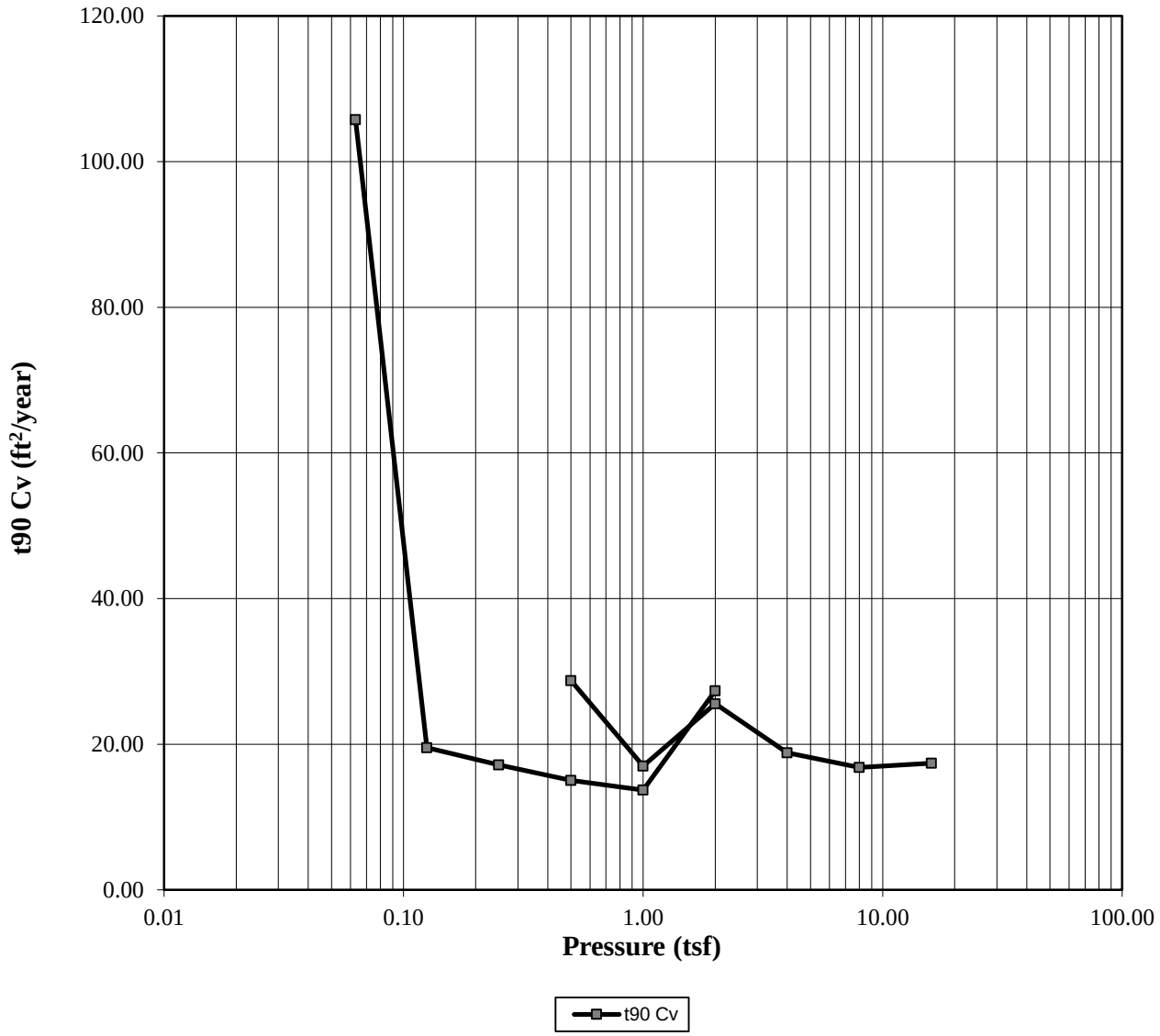
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	30	**Test Date:**	26 Mar 15
Moisture (%):	42.40	30.15	**Plastic Limits:**	24		
Dry Density (pcf):	81.72	103.90	**Plasticity Index (%):**	6		
Saturation (%):	110.21	136.05				
Void Ratio:	1.0137	0.6132	**Specific Gravity:**	2.637	Measured	

Soil Description: Clayey Silt (CL-ML)

Project Number: 16715-040-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 3

Project: Island Road Marsh Creation and Nourishment (TE-117)

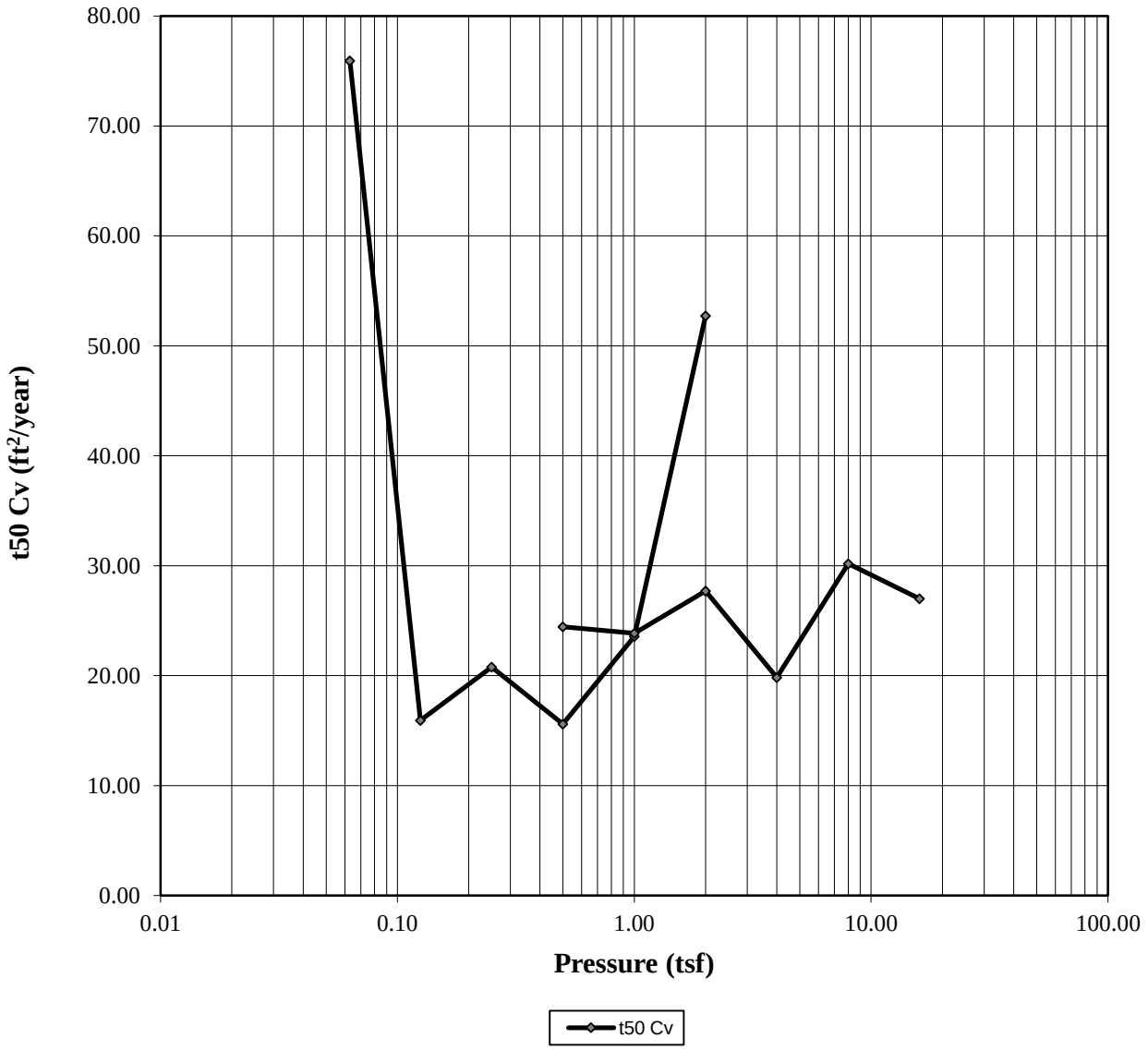
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	30	**Test Date:**	26 Mar 15
Moisture (%):	42.40	30.15	**Plastic Limits:**	24		
Dry Density (pcf):	81.72	103.90	**Plasticity Index (%):**	6		
Saturation (%):	110.21	136.05				
Void Ratio:	1.0137	0.6132	**Specific Gravity:**	2.637	Measured	

Soil Description: Clayey Silt (CL-ML)

Project Number: 16715-040-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 3

Project: Island Road Marsh Creation and Nourishment (TE-117)

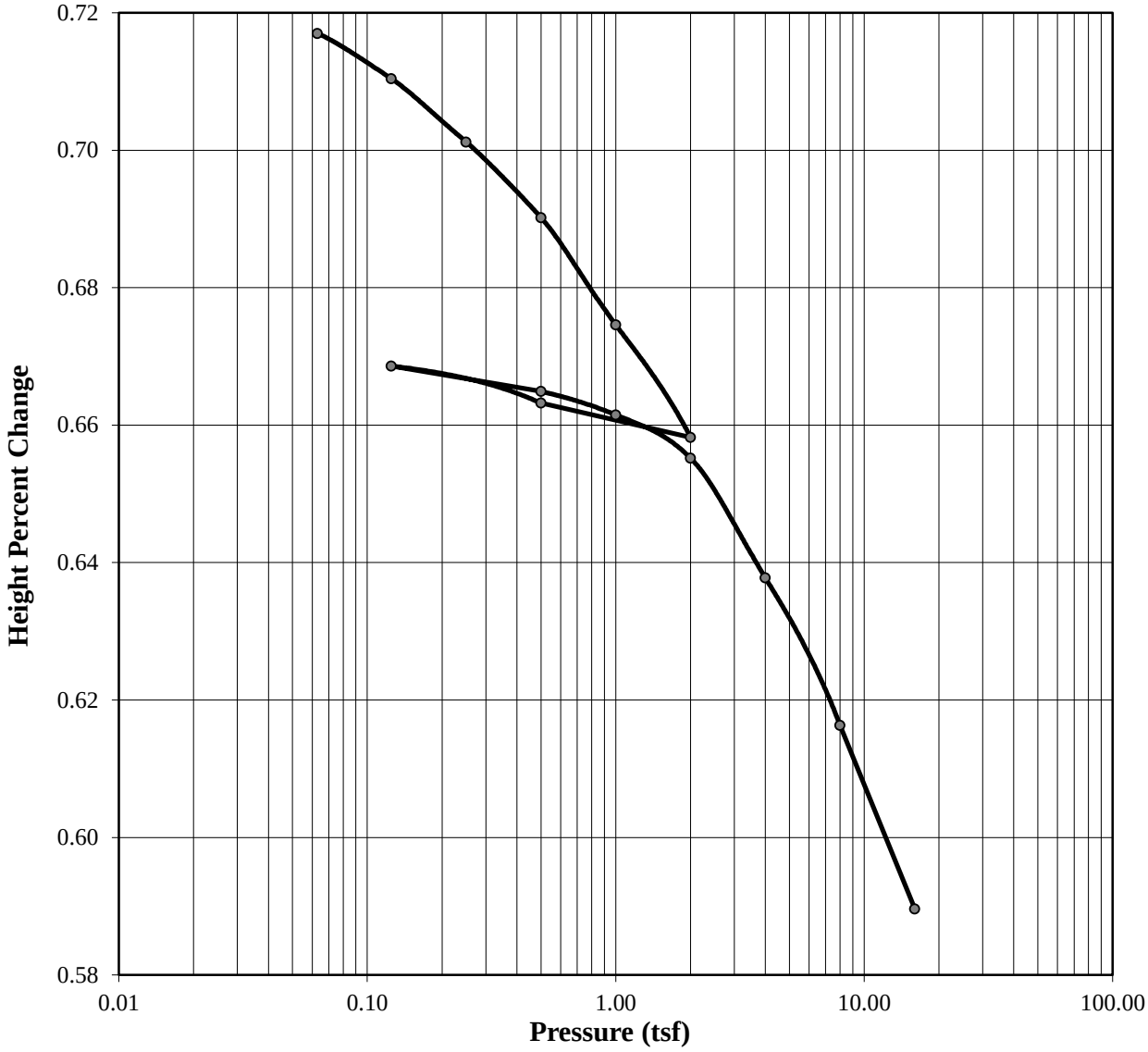
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	30	**Test Date:**	26 Mar 15
Moisture (%):	42.40	30.15	**Plastic Limits:**	24		
Dry Density (pcf):	81.72	103.90	**Plasticity Index (%):**	6		
Saturation (%):	110.21	136.05				
Void Ratio:	1.0137	0.6132	**Specific Gravity:**	2.637	Measured	

Soil Description: Clayey Silt (CL-ML)

Project Number: 16715-040-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 3

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

Sample Description:
Clayey Silt (CL-ML)
Remarks:

Test Number:
Test Date: 26 Mar 15

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	0.7360	0.3700	0.00	1.0109	0.000	0.000	0.000	0.000
1	0.063	0.0190	0.7170	0.3510	2.58	0.9590	3.761	1.217	105.783	75.939
2	0.125	0.0256	0.7104	0.3444	3.48	0.9410	20.017	5.698	19.509	15.923
3	0.250	0.0348	0.7012	0.3352	4.73	0.9158	22.183	4.255	17.151	20.772
4	0.500	0.0458	0.6902	0.3242	6.22	0.8858	24.503	5.490	15.044	15.598
5	1.000	0.0614	0.6746	0.3086	8.34	0.8432	25.712	3.471	13.696	23.566
6	2.000	0.0778	0.6582	0.2922	10.57	0.7983	12.264	1.477	27.334	52.729
7	0.500	0.0728	0.6632	0.2972	9.89	0.8120	0.000	0.000	0.000	0.000
8	0.125	0.0674	0.6686	0.3026	9.16	0.8268	0.000	0.000	0.000	0.000
9	0.500	0.0711	0.6649	0.2989	9.66	0.8167	11.903	3.251	28.740	24.445
10	1.000	0.0745	0.6615	0.2955	10.12	0.8074	19.899	3.299	17.016	23.843
11	2.000	0.0808	0.6552	0.2892	10.98	0.7902	12.989	2.786	25.574	27.700
12	4.000	0.0982	0.6378	0.2718	13.34	0.7426	16.709	3.688	18.839	19.831
13	8.000	0.1197	0.6163	0.2503	16.26	0.6839	17.489	2.262	16.806	30.187
14	16.000	0.1464	0.5896	0.2236	19.89	0.6109	15.477	2.315	17.380	26.998

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 26 Mar 15

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

Sample Description: Clayey Silt (CL-ML)
Remarks:

Test Number:
Liquid Limit: 30.0000
Plastic Limit: 24.0000
Specific Gravity: 2.6370 Measured

Initial Void Ratio: 1.0137
Plasticity Index (%): 6.0000
Weight of Ring (g): 219.4000

Initial Height (in): 0.7360
Initial Diameter (in): 2.4980

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	142.00	128.40
Dry Soil + Container (g)	106.43	104.98
Weight of Container (g)	22.53	27.29
Moisture Content (%)	42.40	30.15
Void Ratio	1.0137	0.6132
Saturation (%)	110.21	136.05
Dry Density (pcf)	81.72	103.90

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

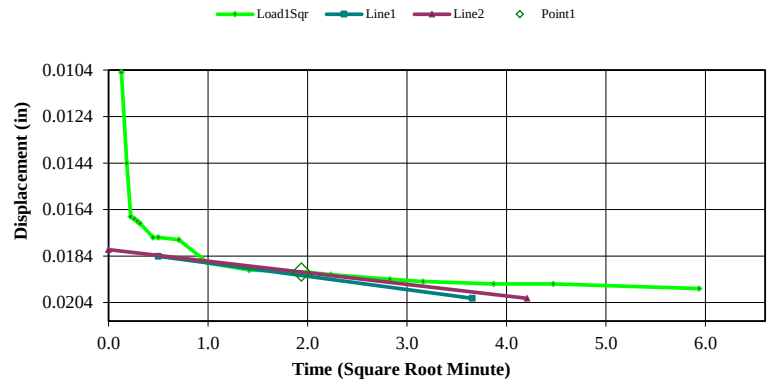
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

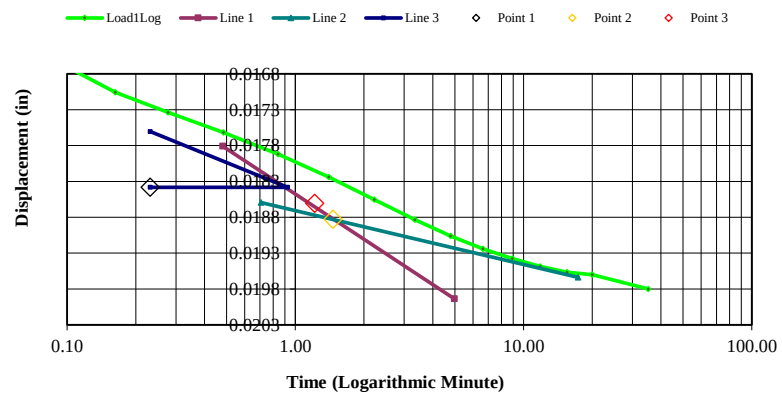
Soil Description: Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0008	0.0000	0.0000	1.0137
1	00:00:01	0.0105	0.0097	1.3179	0.9872
2	00:00:02	0.0144	0.0136	1.8478	0.9765
3	00:00:03	0.0167	0.0159	2.1603	0.9702
4	00:00:04	0.0168	0.0160	2.1739	0.9699
5	00:00:05	0.0169	0.0161	2.1875	0.9697
6	00:00:06	0.0170	0.0162	2.2011	0.9694
7	00:00:12	0.0176	0.0168	2.2826	0.9677
8	00:00:15	0.0176	0.0168	2.2826	0.9677
9	00:00:30	0.0177	0.0169	2.2962	0.9675
10	00:01:00	0.0187	0.0179	2.4321	0.9647
11	00:02:00	0.0190	0.0182	2.4728	0.9639
12	00:04:00	0.0191	0.0183	2.4864	0.9636
13	00:05:00	0.0192	0.0184	2.5000	0.9634
14	00:08:00	0.0194	0.0186	2.5272	0.9628
15	00:10:00	0.0195	0.0187	2.5408	0.9625
16	00:15:00	0.0196	0.0188	2.5543	0.9623
17	00:20:00	0.0196	0.0188	2.5543	0.9623
18	00:35:14	0.0198	0.0190	2.5815	0.9617

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Consolidation Test Results
(Sequence 2) Load 0.125 tsf

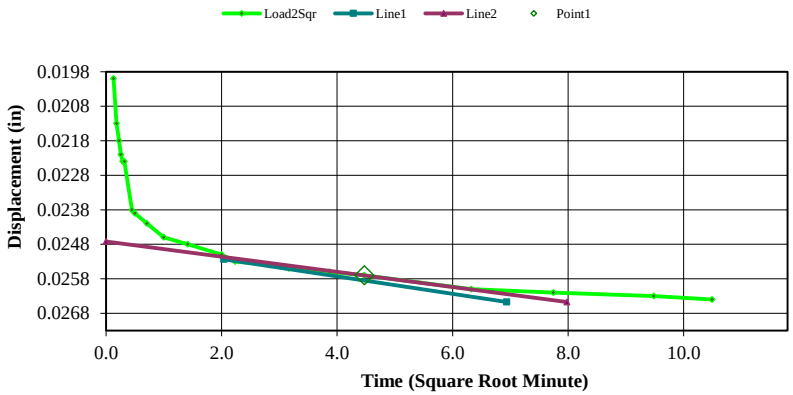
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

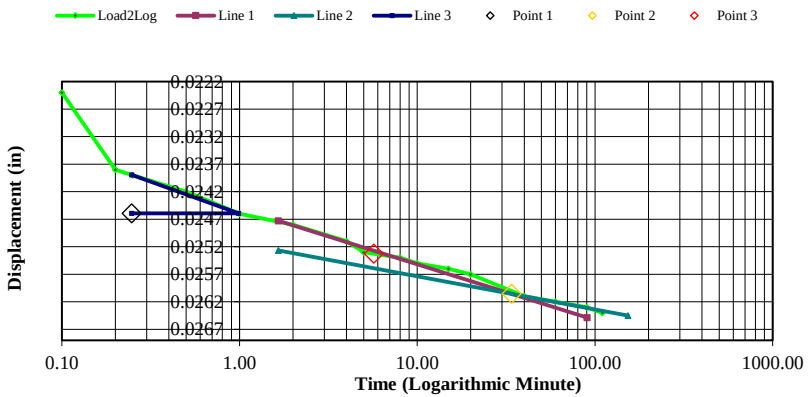
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0198	0.0190	2.5815	0.9617
1	00:00:01	0.0200	0.0192	2.6087	0.9612
2	00:00:02	0.0213	0.0205	2.7853	0.9576
3	00:00:03	0.0218	0.0210	2.8533	0.9563
4	00:00:04	0.0222	0.0214	2.9076	0.9552
5	00:00:05	0.0224	0.0216	2.9348	0.9546
6	00:00:06	0.0224	0.0216	2.9348	0.9546
7	00:00:12	0.0238	0.0230	3.1250	0.9508
8	00:00:15	0.0239	0.0231	3.1386	0.9505
9	00:00:30	0.0242	0.0234	3.1793	0.9497
10	00:01:00	0.0246	0.0238	3.2337	0.9486
11	00:02:00	0.0248	0.0240	3.2609	0.9480
12	00:04:00	0.0251	0.0243	3.3016	0.9472
13	00:05:00	0.0253	0.0245	3.3288	0.9467
14	00:08:00	0.0254	0.0246	3.3424	0.9464
15	00:09:59	0.0255	0.0247	3.3560	0.9461
16	00:14:59	0.0256	0.0248	3.3696	0.9459
17	00:19:59	0.0257	0.0249	3.3832	0.9456
18	00:39:59	0.0261	0.0253	3.4375	0.9445
19	00:59:59	0.0262	0.0254	3.4511	0.9442
20	01:29:58	0.0263	0.0255	3.4647	0.9439
21	01:50:05	0.0264	0.0256	3.4783	0.9437

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Consolidation Test Results
(Sequence 3) Load 0.250 tsf

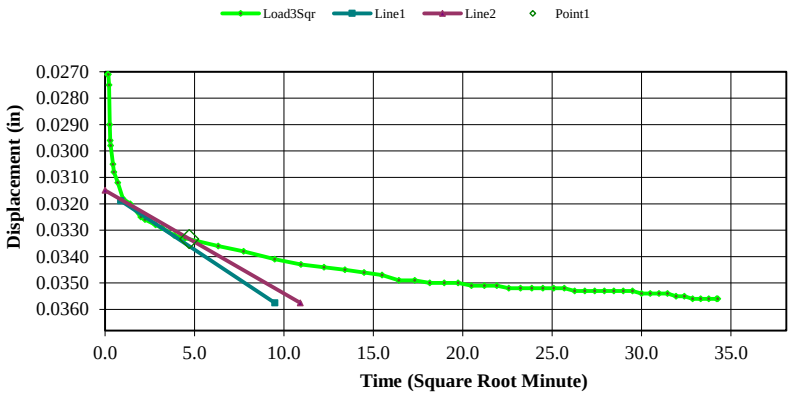
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

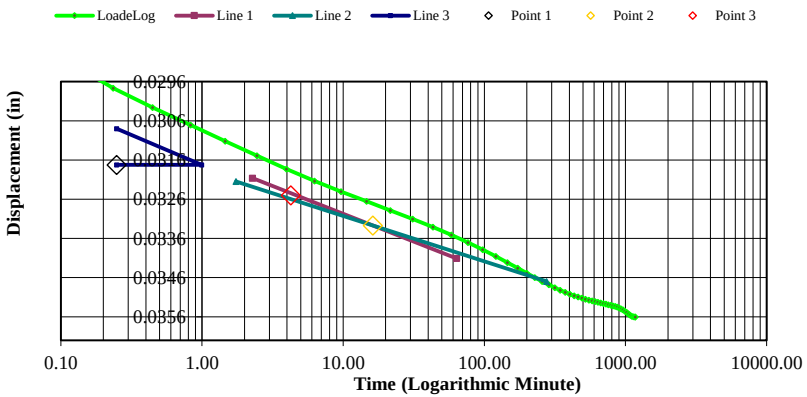
Soil Description: Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0264	0.0256	3.4783	0.9437
1	00:00:01	0.0271	0.0263	3.5734	0.9418
2	00:00:02	0.0271	0.0263	3.5734	0.9418
3	00:00:03	0.0275	0.0267	3.6277	0.9407
4	00:00:04	0.0290	0.0282	3.8315	0.9366
5	00:00:05	0.0296	0.0288	3.9130	0.9349
6	00:00:06	0.0298	0.0290	3.9402	0.9344
7	00:00:12	0.0305	0.0297	4.0353	0.9325
8	00:00:15	0.0308	0.0300	4.0761	0.9316
9	00:00:30	0.0312	0.0304	4.1304	0.9305
10	00:01:00	0.0318	0.0310	4.2120	0.9289
11	00:02:00	0.0320	0.0312	4.2391	0.9283
12	00:04:01	0.0325	0.0317	4.3071	0.9270
13	00:05:01	0.0326	0.0318	4.3207	0.9267
14	00:08:01	0.0328	0.0320	4.3478	0.9262
15	00:10:01	0.0329	0.0321	4.3614	0.9259
16	00:15:01	0.0332	0.0324	4.4022	0.9251
17	00:20:01	0.0333	0.0325	4.4158	0.9248
18	00:40:01	0.0336	0.0328	4.4565	0.9240
19	01:00:00	0.0338	0.0330	4.4837	0.9234
20	01:29:59	0.0341	0.0333	4.5245	0.9226
21	02:00:00	0.0343	0.0335	4.5516	0.9221
22	02:29:59	0.0344	0.0336	4.5652	0.9218
23	02:59:58	0.0345	0.0337	4.5788	0.9215
24	03:29:59	0.0346	0.0338	4.5924	0.9212
25	03:59:59	0.0347	0.0339	4.6060	0.9210
26	04:29:57	0.0349	0.0341	4.6332	0.9204
27	04:59:58	0.0349	0.0341	4.6332	0.9204
28	05:29:58	0.0350	0.0342	4.6467	0.9201
29	05:59:57	0.0350	0.0342	4.6467	0.9201
30	06:29:56	0.0350	0.0342	4.6467	0.9201
31	06:59:56	0.0351	0.0343	4.6603	0.9199
32	07:29:56	0.0351	0.0343	4.6603	0.9199
33	07:59:55	0.0351	0.0343	4.6603	0.9199
34	08:29:55	0.0352	0.0344	4.6739	0.9196
35	08:59:55	0.0352	0.0344	4.6739	0.9196

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:55	0.0352	0.0344	4.6739	0.9196
37	09:59:54	0.0352	0.0344	4.6739	0.9196
38	10:29:54	0.0352	0.0344	4.6739	0.9196
39	10:59:54	0.0352	0.0344	4.6739	0.9196
40	11:29:53	0.0353	0.0345	4.6875	0.9193
41	11:59:52	0.0353	0.0345	4.6875	0.9193
42	12:29:53	0.0353	0.0345	4.6875	0.9193
43	12:59:53	0.0353	0.0345	4.6875	0.9193
44	13:29:52	0.0353	0.0345	4.6875	0.9193
45	13:59:52	0.0353	0.0345	4.6875	0.9193
46	14:29:52	0.0353	0.0345	4.6875	0.9193
47	14:59:52	0.0354	0.0346	4.7011	0.9190
48	15:29:51	0.0354	0.0346	4.7011	0.9190
49	15:59:51	0.0354	0.0346	4.7011	0.9190
50	16:29:51	0.0354	0.0346	4.7011	0.9190
51	16:59:50	0.0355	0.0347	4.7147	0.9188
52	17:29:49	0.0355	0.0347	4.7147	0.9188
53	17:59:50	0.0356	0.0348	4.7283	0.9185
54	18:29:49	0.0356	0.0348	4.7283	0.9185
55	18:59:48	0.0356	0.0348	4.7283	0.9185
56	19:29:49	0.0356	0.0348	4.7283	0.9185
57	19:33:51	0.0356	0.0348	4.7283	0.9185

Consolidation Test Results
(Sequence 4) Load 0.500 tsf

Consolidation Test Results
(Sequence 4) Load 0.500 tsf

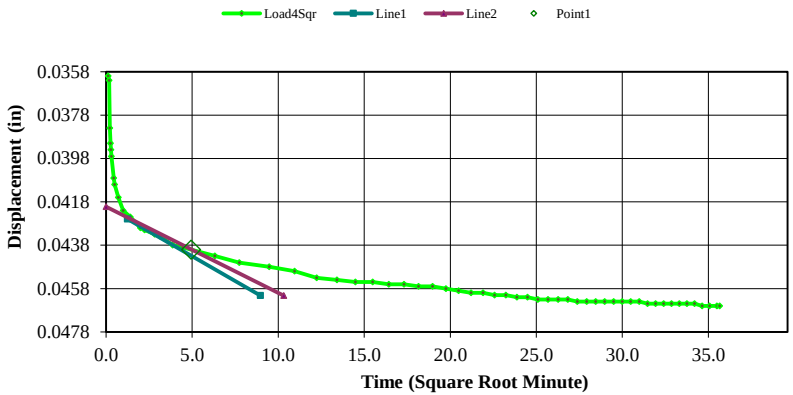
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

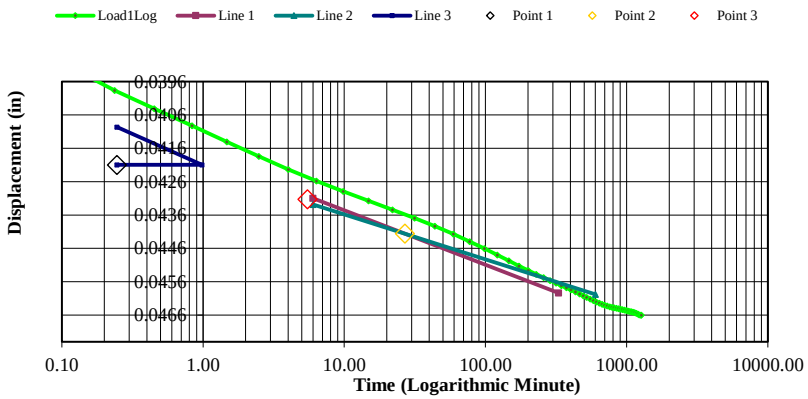
Soil Description: Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0356	0.0348	4.7283	0.9185
1	00:00:01	0.0360	0.0352	4.7826	0.9174
2	00:00:02	0.0362	0.0354	4.8098	0.9169
3	00:00:03	0.0384	0.0376	5.1087	0.9108
4	00:00:04	0.0391	0.0383	5.2038	0.9089
5	00:00:05	0.0394	0.0386	5.2446	0.9081
6	00:00:06	0.0397	0.0389	5.2853	0.9073
7	00:00:12	0.0407	0.0399	5.4212	0.9045
8	00:00:15	0.0410	0.0402	5.4620	0.9037
9	00:00:30	0.0416	0.0408	5.5435	0.9021
10	00:01:00	0.0422	0.0414	5.6250	0.9004
11	00:02:00	0.0425	0.0417	5.6658	0.8996
12	00:04:00	0.0430	0.0422	5.7337	0.8983
13	00:05:00	0.0431	0.0423	5.7473	0.8980
14	00:08:00	0.0433	0.0425	5.7745	0.8974
15	00:10:00	0.0434	0.0426	5.7880	0.8972
16	00:15:00	0.0438	0.0430	5.8424	0.8961
17	00:19:59	0.0439	0.0431	5.8560	0.8958
18	00:39:59	0.0443	0.0435	5.9103	0.8947
19	00:59:58	0.0446	0.0438	5.9511	0.8939
20	01:29:59	0.0448	0.0440	5.9783	0.8933
21	01:59:59	0.0450	0.0442	6.0054	0.8928
22	02:29:58	0.0453	0.0445	6.0462	0.8920
23	02:59:57	0.0454	0.0446	6.0598	0.8917
24	03:29:58	0.0455	0.0447	6.0734	0.8914
25	03:59:58	0.0455	0.0447	6.0734	0.8914
26	04:29:56	0.0456	0.0448	6.0870	0.8911
27	04:59:57	0.0456	0.0448	6.0870	0.8911
28	05:29:57	0.0457	0.0449	6.1005	0.8909
29	05:59:56	0.0457	0.0449	6.1005	0.8909
30	06:29:55	0.0458	0.0450	6.1141	0.8906
31	06:59:56	0.0459	0.0451	6.1277	0.8903
32	07:29:56	0.0460	0.0452	6.1413	0.8900
33	07:59:55	0.0460	0.0452	6.1413	0.8900
34	08:29:55	0.0461	0.0453	6.1549	0.8898
35	08:59:55	0.0461	0.0453	6.1549	0.8898

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:55	0.0462	0.0454	6.1685	0.8895
37	09:59:54	0.0462	0.0454	6.1685	0.8895
38	10:29:54	0.0463	0.0455	6.1821	0.8892
39	10:59:54	0.0463	0.0455	6.1821	0.8892
40	11:29:53	0.0463	0.0455	6.1821	0.8892
41	11:59:52	0.0463	0.0455	6.1821	0.8892
42	12:29:52	0.0464	0.0456	6.1957	0.8889
43	12:59:52	0.0464	0.0456	6.1957	0.8889
44	13:29:52	0.0464	0.0456	6.1957	0.8889
45	13:59:51	0.0464	0.0456	6.1957	0.8889
46	14:29:51	0.0464	0.0456	6.1957	0.8889
47	14:59:52	0.0464	0.0456	6.1957	0.8889
48	15:29:51	0.0464	0.0456	6.1957	0.8889
49	15:59:50	0.0464	0.0456	6.1957	0.8889
50	16:29:51	0.0465	0.0457	6.2092	0.8887
51	16:59:50	0.0465	0.0457	6.2092	0.8887
52	17:29:50	0.0465	0.0457	6.2092	0.8887
53	17:59:50	0.0465	0.0457	6.2092	0.8887
54	18:29:50	0.0465	0.0457	6.2092	0.8887
55	18:59:49	0.0465	0.0457	6.2092	0.8887
56	19:29:48	0.0465	0.0457	6.2092	0.8887
57	19:59:49	0.0466	0.0458	6.2228	0.8884
58	20:29:49	0.0466	0.0458	6.2228	0.8884
59	20:59:47	0.0466	0.0458	6.2228	0.8884
60	21:11:18	0.0466	0.0458	6.2228	0.8884

Consolidation Test Results
(Sequence 5) Load 1.000 tsf

Consolidation Test Results
(Sequence 5) Load 1.000 tsf

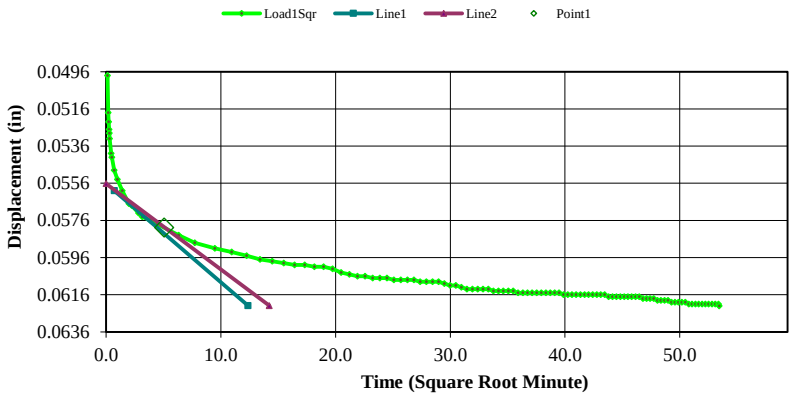
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

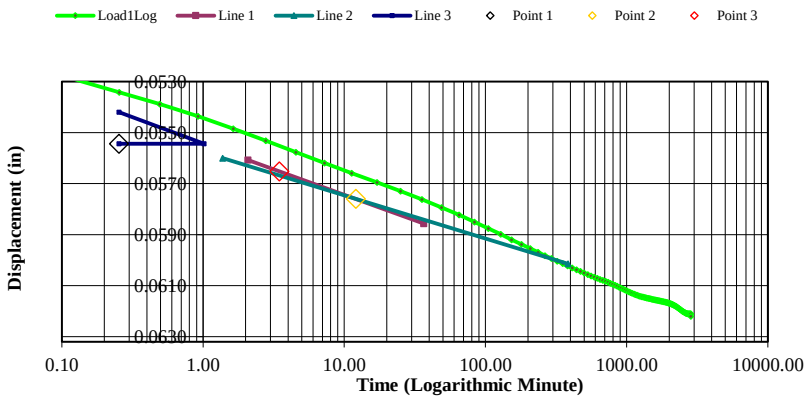
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0466	0.0458	6.2228	0.8884
1	00:00:01	0.0498	0.0490	6.6576	0.8796
2	00:00:02	0.0518	0.0510	6.9293	0.8742
3	00:00:03	0.0523	0.0515	6.9973	0.8728
4	00:00:04	0.0527	0.0519	7.0516	0.8717
5	00:00:05	0.0529	0.0521	7.0788	0.8712
6	00:00:06	0.0532	0.0524	7.1196	0.8703
7	00:00:12	0.0540	0.0532	7.2283	0.8682
8	00:00:15	0.0542	0.0534	7.2554	0.8676
9	00:00:30	0.0549	0.0541	7.3505	0.8657
10	00:01:00	0.0554	0.0546	7.4185	0.8643
11	00:02:00	0.0560	0.0552	7.5000	0.8627
12	00:04:00	0.0567	0.0559	7.5951	0.8608
13	00:05:00	0.0568	0.0560	7.6087	0.8605
14	00:08:00	0.0572	0.0564	7.6630	0.8594
15	00:10:00	0.0574	0.0566	7.6902	0.8589
16	00:15:00	0.0576	0.0568	7.7174	0.8583
17	00:20:00	0.0578	0.0570	7.7446	0.8578
18	00:40:00	0.0584	0.0576	7.8261	0.8561
19	00:59:59	0.0588	0.0580	7.8804	0.8550
20	01:29:58	0.0591	0.0583	7.9212	0.8542
21	01:59:59	0.0593	0.0585	7.9484	0.8537
22	02:29:59	0.0595	0.0587	7.9755	0.8531
23	02:59:58	0.0597	0.0589	8.0027	0.8526
24	03:29:58	0.0598	0.0590	8.0163	0.8523
25	03:59:58	0.0599	0.0591	8.0299	0.8520
26	04:29:57	0.0600	0.0592	8.0435	0.8517
27	04:59:57	0.0600	0.0592	8.0435	0.8517
28	05:29:57	0.0601	0.0593	8.0571	0.8515
29	05:59:57	0.0601	0.0593	8.0571	0.8515
30	06:29:56	0.0602	0.0594	8.0707	0.8512
31	06:59:56	0.0604	0.0596	8.0978	0.8506
32	07:29:56	0.0605	0.0597	8.1114	0.8504
33	07:59:56	0.0606	0.0598	8.1250	0.8501
34	08:29:55	0.0606	0.0598	8.1250	0.8501
35	08:59:55	0.0607	0.0599	8.1386	0.8498

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:55	0.0607	0.0599	8.1386	0.8498
37	09:59:54	0.0607	0.0599	8.1386	0.8498
38	10:29:53	0.0608	0.0600	8.1522	0.8496
39	10:59:54	0.0608	0.0600	8.1522	0.8496
40	11:29:53	0.0608	0.0600	8.1522	0.8496
41	11:59:52	0.0608	0.0600	8.1522	0.8496
42	12:29:52	0.0609	0.0601	8.1658	0.8493
43	12:59:53	0.0609	0.0601	8.1658	0.8493
44	13:29:52	0.0609	0.0601	8.1658	0.8493
45	13:59:51	0.0609	0.0601	8.1658	0.8493
46	14:29:51	0.0610	0.0602	8.1793	0.8490
47	14:59:52	0.0611	0.0603	8.1929	0.8487
48	15:29:51	0.0611	0.0603	8.1929	0.8487
49	15:59:50	0.0612	0.0604	8.2065	0.8485
50	16:29:50	0.0613	0.0605	8.2201	0.8482
51	16:59:50	0.0613	0.0605	8.2201	0.8482
52	17:29:50	0.0613	0.0605	8.2201	0.8482
53	17:59:49	0.0613	0.0605	8.2201	0.8482
54	18:29:49	0.0613	0.0605	8.2201	0.8482
55	18:59:49	0.0614	0.0606	8.2337	0.8479
56	19:29:49	0.0614	0.0606	8.2337	0.8479
57	19:59:48	0.0614	0.0606	8.2337	0.8479
58	20:29:47	0.0614	0.0606	8.2337	0.8479
59	20:59:48	0.0614	0.0606	8.2337	0.8479
60	21:29:47	0.0615	0.0607	8.2473	0.8476
61	21:59:46	0.0615	0.0607	8.2473	0.8476
62	22:29:47	0.0615	0.0607	8.2473	0.8476
63	22:59:47	0.0615	0.0607	8.2473	0.8476
64	23:29:46	0.0615	0.0607	8.2473	0.8476
65	23:59:45	0.0615	0.0607	8.2473	0.8476
66	24:29:46	0.0615	0.0607	8.2473	0.8476
67	24:59:46	0.0615	0.0607	8.2473	0.8476
68	25:29:45	0.0615	0.0607	8.2473	0.8476
69	25:59:45	0.0615	0.0607	8.2473	0.8476
70	26:29:45	0.0616	0.0608	8.2609	0.8474
71	26:59:45	0.0616	0.0608	8.2609	0.8474
72	27:29:44	0.0616	0.0608	8.2609	0.8474
73	27:59:44	0.0616	0.0608	8.2609	0.8474
74	28:29:45	0.0616	0.0608	8.2609	0.8474
75	28:59:44	0.0616	0.0608	8.2609	0.8474
76	29:29:43	0.0616	0.0608	8.2609	0.8474
77	29:59:44	0.0616	0.0608	8.2609	0.8474
78	30:29:44	0.0616	0.0608	8.2609	0.8474
79	30:59:43	0.0616	0.0608	8.2609	0.8474
80	31:29:42	0.0616	0.0608	8.2609	0.8474
81	31:59:43	0.0617	0.0609	8.2745	0.8471
82	32:29:42	0.0617	0.0609	8.2745	0.8471
83	32:59:41	0.0617	0.0609	8.2745	0.8471
84	33:29:41	0.0617	0.0609	8.2745	0.8471
85	33:59:41	0.0617	0.0609	8.2745	0.8471
86	34:29:41	0.0617	0.0609	8.2745	0.8471
87	34:59:40	0.0617	0.0609	8.2745	0.8471

88	35:29:39	0.0617	0.0609	8.2745	0.8471
89	35:59:40	0.0617	0.0609	8.2745	0.8471
90	36:29:40	0.0618	0.0610	8.2880	0.8468
91	36:59:39	0.0618	0.0610	8.2880	0.8468
92	37:29:38	0.0618	0.0610	8.2880	0.8468
93	37:59:39	0.0618	0.0610	8.2880	0.8468
94	38:29:39	0.0619	0.0611	8.3016	0.8465
95	38:59:38	0.0619	0.0611	8.3016	0.8465
96	39:29:37	0.0619	0.0611	8.3016	0.8465
97	39:59:38	0.0619	0.0611	8.3016	0.8465
98	40:29:38	0.0620	0.0612	8.3152	0.8463
99	40:59:37	0.0620	0.0612	8.3152	0.8463
100	41:29:36	0.0620	0.0612	8.3152	0.8463
101	41:59:36	0.0620	0.0612	8.3152	0.8463
102	42:29:36	0.0620	0.0612	8.3152	0.8463
103	42:59:35	0.0621	0.0613	8.3288	0.8460
104	43:29:34	0.0621	0.0613	8.3288	0.8460
105	43:59:34	0.0621	0.0613	8.3288	0.8460
106	44:29:34	0.0621	0.0613	8.3288	0.8460
107	44:59:34	0.0621	0.0613	8.3288	0.8460
108	45:29:33	0.0621	0.0613	8.3288	0.8460
109	45:59:32	0.0621	0.0613	8.3288	0.8460
110	46:29:33	0.0621	0.0613	8.3288	0.8460
111	46:59:32	0.0621	0.0613	8.3288	0.8460
112	47:29:31	0.0621	0.0613	8.3288	0.8460
113	47:36:34	0.0622	0.0614	8.3424	0.8457

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

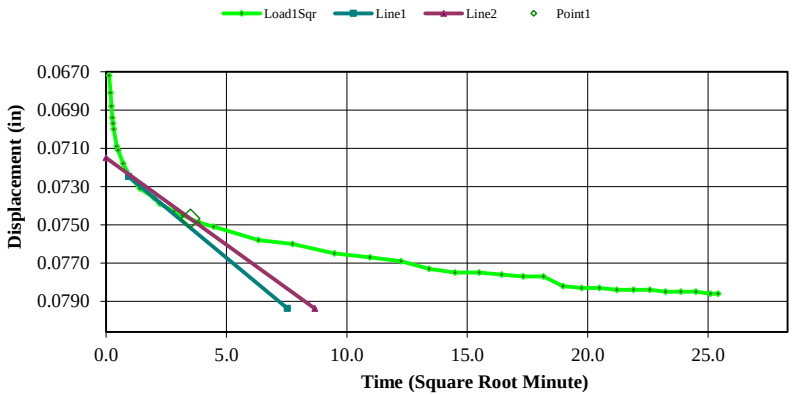
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

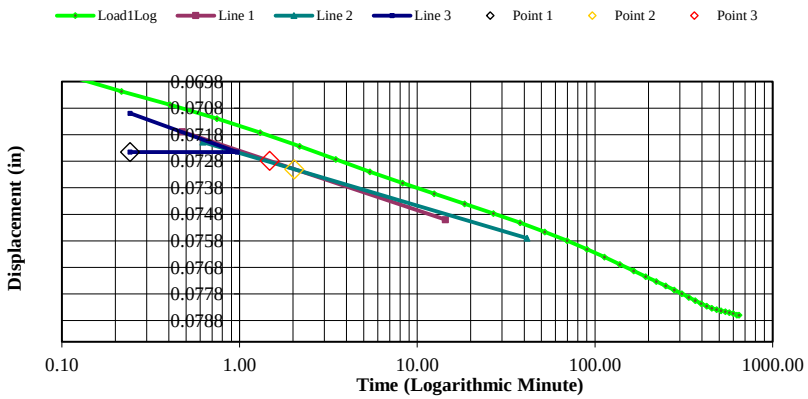
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0622	0.0614	8.3424	0.8457
1	00:00:01	0.0672	0.0664	9.0217	0.8320
2	00:00:02	0.0681	0.0673	9.1440	0.8296
3	00:00:03	0.0688	0.0680	9.2391	0.8277
4	00:00:04	0.0694	0.0686	9.3207	0.8260
5	00:00:05	0.0697	0.0689	9.3614	0.8252
6	00:00:06	0.0700	0.0692	9.4022	0.8244
7	00:00:12	0.0709	0.0701	9.5245	0.8219
8	00:00:15	0.0711	0.0703	9.5516	0.8214
9	00:00:30	0.0718	0.0710	9.6467	0.8195
10	00:01:00	0.0725	0.0717	9.7418	0.8175
11	00:02:00	0.0731	0.0723	9.8234	0.8159
12	00:04:00	0.0736	0.0728	9.8913	0.8145
13	00:05:00	0.0739	0.0731	9.9321	0.8137
14	00:08:00	0.0743	0.0735	9.9864	0.8126
15	00:09:59	0.0745	0.0737	10.0136	0.8121
16	00:15:00	0.0749	0.0741	10.0679	0.8110
17	00:20:00	0.0751	0.0743	10.0951	0.8104
18	00:40:00	0.0758	0.0750	10.1902	0.8085
19	01:00:00	0.0760	0.0752	10.2174	0.8080
20	01:30:00	0.0765	0.0757	10.2853	0.8066
21	01:59:59	0.0767	0.0759	10.3125	0.8060
22	02:29:58	0.0769	0.0761	10.3397	0.8055
23	02:59:59	0.0773	0.0765	10.3940	0.8044
24	03:29:59	0.0775	0.0767	10.4212	0.8039
25	03:59:58	0.0775	0.0767	10.4212	0.8039
26	04:29:57	0.0776	0.0768	10.4348	0.8036
27	04:59:58	0.0777	0.0769	10.4484	0.8033
28	05:29:58	0.0777	0.0769	10.4484	0.8033
29	05:59:57	0.0782	0.0774	10.5163	0.8019
30	06:29:56	0.0783	0.0775	10.5299	0.8017
31	06:59:56	0.0783	0.0775	10.5299	0.8017
32	07:29:56	0.0784	0.0776	10.5435	0.8014
33	07:59:56	0.0784	0.0776	10.5435	0.8014
34	08:29:55	0.0784	0.0776	10.5435	0.8014
35	08:59:54	0.0785	0.0777	10.5571	0.8011

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:55	0.0785	0.0777	10.5571	0.8011
37	09:59:55	0.0785	0.0777	10.5571	0.8011
38	10:29:54	0.0786	0.0778	10.5707	0.8008
39	10:46:10	0.0786	0.0778	10.5707	0.8008

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

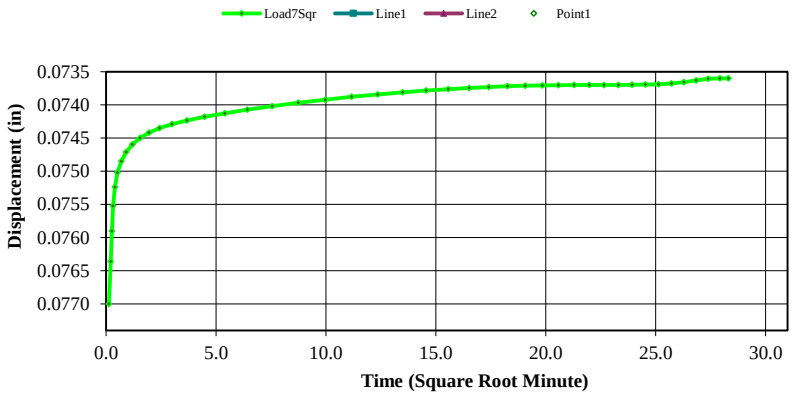
Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 26 Mar 15
Test Number:

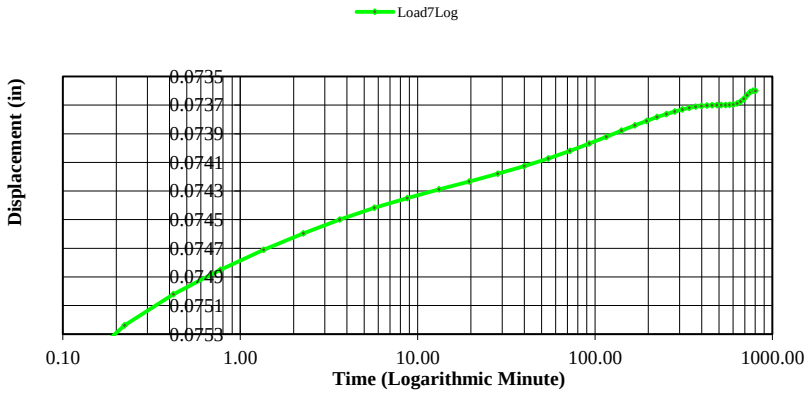
Sample Number:
Soil Description:
Boring Number: 3
Clayey Silt (CL-ML)
Depth: 12 - 14 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0786	0.0778	10.5707	0.8008
1	00:00:01	0.0770	0.0762	10.3533	0.8052
2	00:00:02	0.0769	0.0761	10.3397	0.8055
3	00:00:03	0.0767	0.0759	10.3125	0.8060
4	00:00:04	0.0754	0.0746	10.1359	0.8096
5	00:00:05	0.0752	0.0744	10.1087	0.8102
6	00:00:06	0.0751	0.0743	10.0951	0.8104
7	00:00:12	0.0749	0.0741	10.0679	0.8110
8	00:00:15	0.0748	0.0740	10.0543	0.8112
9	00:00:30	0.0746	0.0738	10.0272	0.8118
10	00:01:00	0.0745	0.0737	10.0136	0.8121
11	00:02:00	0.0744	0.0736	10.0000	0.8123
12	00:04:00	0.0743	0.0735	9.9864	0.8126
13	00:04:59	0.0743	0.0735	9.9864	0.8126
14	00:07:59	0.0743	0.0735	9.9864	0.8126
15	00:09:59	0.0742	0.0734	9.9728	0.8129
16	00:14:59	0.0742	0.0734	9.9728	0.8129
17	00:19:59	0.0741	0.0733	9.9592	0.8132
18	00:39:59	0.0741	0.0733	9.9592	0.8132
19	00:59:58	0.0740	0.0732	9.9457	0.8134
20	01:29:59	0.0739	0.0731	9.9321	0.8137
21	01:59:59	0.0738	0.0730	9.9185	0.8140
22	02:29:58	0.0738	0.0730	9.9185	0.8140
23	02:59:56	0.0738	0.0730	9.9185	0.8140
24	03:29:57	0.0738	0.0730	9.9185	0.8140
25	03:59:57	0.0738	0.0730	9.9185	0.8140
26	04:29:57	0.0737	0.0729	9.9049	0.8143
27	04:59:56	0.0737	0.0729	9.9049	0.8143
28	05:29:55	0.0737	0.0729	9.9049	0.8143
29	05:59:55	0.0737	0.0729	9.9049	0.8143
30	06:29:55	0.0737	0.0729	9.9049	0.8143
31	06:59:55	0.0737	0.0729	9.9049	0.8143
32	07:29:54	0.0737	0.0729	9.9049	0.8143
33	07:59:53	0.0737	0.0729	9.9049	0.8143
34	08:29:54	0.0737	0.0729	9.9049	0.8143
35	08:59:54	0.0737	0.0729	9.9049	0.8143

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:53	0.0737	0.0729	9.9049	0.8143
37	09:59:52	0.0737	0.0729	9.9049	0.8143
38	10:29:53	0.0737	0.0729	9.9049	0.8143
39	10:59:53	0.0737	0.0729	9.9049	0.8143
40	11:29:52	0.0737	0.0729	9.9049	0.8143
41	11:59:51	0.0736	0.0728	9.8913	0.8145
42	12:29:51	0.0736	0.0728	9.8913	0.8145
43	12:59:51	0.0736	0.0728	9.8913	0.8145
44	13:21:21	0.0736	0.0728	9.8913	0.8145

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

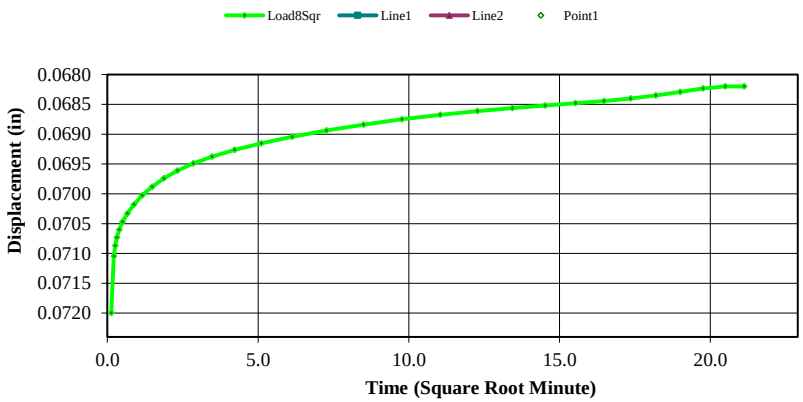
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

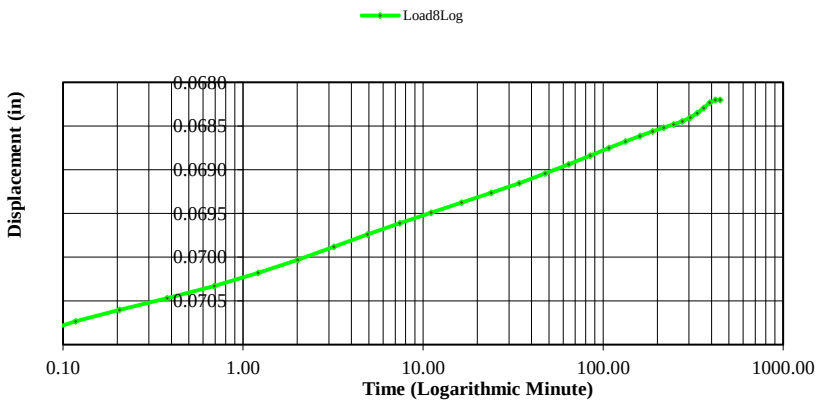
Soil Description: Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0736	0.0728	9.8913	0.8145
1	00:00:01	0.0720	0.0712	9.6739	0.8189
2	00:00:02	0.0710	0.0702	9.5380	0.8216
3	00:00:03	0.0709	0.0701	9.5245	0.8219
4	00:00:04	0.0709	0.0701	9.5245	0.8219
5	00:00:05	0.0707	0.0699	9.4973	0.8225
6	00:00:06	0.0706	0.0698	9.4837	0.8227
7	00:00:12	0.0704	0.0696	9.4565	0.8233
8	00:00:15	0.0704	0.0696	9.4565	0.8233
9	00:00:30	0.0702	0.0694	9.4293	0.8238
10	00:01:00	0.0700	0.0692	9.4022	0.8244
11	00:02:00	0.0697	0.0689	9.3614	0.8252
12	00:04:00	0.0696	0.0688	9.3478	0.8255
13	00:05:00	0.0695	0.0687	9.3342	0.8257
14	00:08:00	0.0694	0.0686	9.3207	0.8260
15	00:10:00	0.0694	0.0686	9.3207	0.8260
16	00:15:00	0.0693	0.0685	9.3071	0.8263
17	00:20:00	0.0691	0.0683	9.2799	0.8268
18	00:39:59	0.0689	0.0681	9.2527	0.8274
19	00:59:59	0.0688	0.0680	9.2391	0.8277
20	01:30:00	0.0687	0.0679	9.2255	0.8279
21	01:59:59	0.0687	0.0679	9.2255	0.8279
22	02:29:58	0.0686	0.0678	9.2120	0.8282
23	02:59:58	0.0685	0.0677	9.1984	0.8285
24	03:29:58	0.0685	0.0677	9.1984	0.8285
25	03:59:58	0.0685	0.0677	9.1984	0.8285
26	04:29:57	0.0685	0.0677	9.1984	0.8285
27	04:59:58	0.0684	0.0676	9.1848	0.8288
28	05:29:58	0.0684	0.0676	9.1848	0.8288
29	05:59:57	0.0683	0.0675	9.1712	0.8290
30	06:29:56	0.0682	0.0674	9.1576	0.8293
31	06:59:56	0.0682	0.0674	9.1576	0.8293
32	07:26:00	0.0682	0.0674	9.1576	0.8293

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

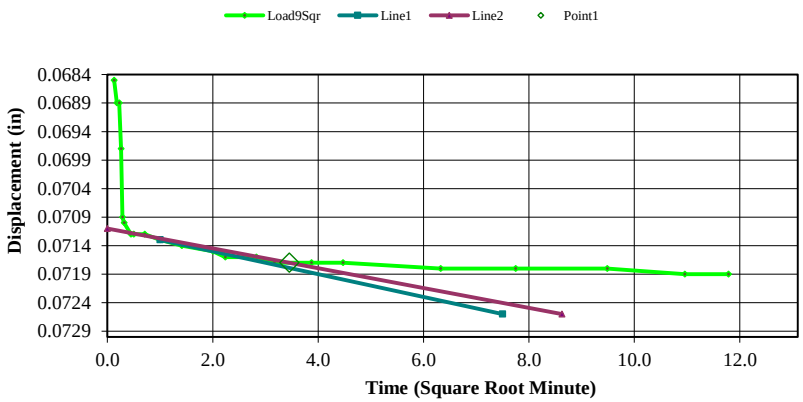
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

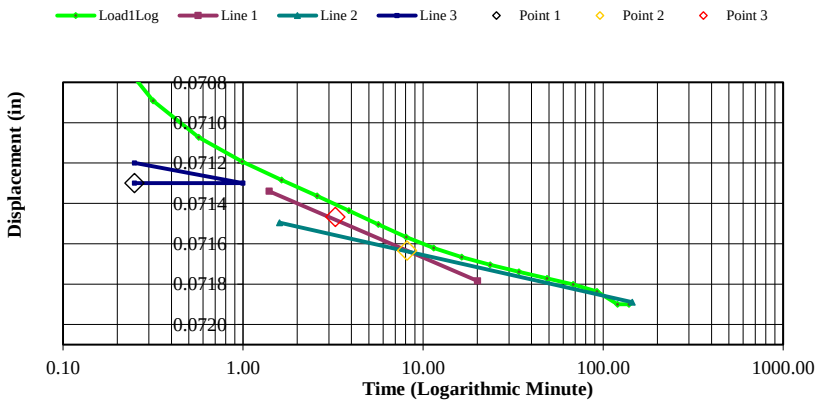
Soil Description: Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0682	0.0674	9.1576	0.8293
1	00:00:01	0.0685	0.0677	9.1984	0.8285
2	00:00:02	0.0689	0.0681	9.2527	0.8274
3	00:00:03	0.0689	0.0681	9.2527	0.8274
4	00:00:04	0.0697	0.0689	9.3614	0.8252
5	00:00:05	0.0709	0.0701	9.5245	0.8219
6	00:00:06	0.0710	0.0702	9.5380	0.8216
7	00:00:12	0.0712	0.0704	9.5652	0.8211
8	00:00:15	0.0712	0.0704	9.5652	0.8211
9	00:00:30	0.0712	0.0704	9.5652	0.8211
10	00:01:00	0.0713	0.0705	9.5788	0.8208
11	00:02:00	0.0714	0.0706	9.5924	0.8205
12	00:04:00	0.0715	0.0707	9.6060	0.8203
13	00:05:00	0.0716	0.0708	9.6196	0.8200
14	00:08:00	0.0716	0.0708	9.6196	0.8200
15	00:10:00	0.0717	0.0709	9.6332	0.8197
16	00:15:00	0.0717	0.0709	9.6332	0.8197
17	00:20:00	0.0717	0.0709	9.6332	0.8197
18	00:39:59	0.0718	0.0710	9.6467	0.8195
19	00:59:59	0.0718	0.0710	9.6467	0.8195
20	01:29:59	0.0718	0.0710	9.6467	0.8195
21	01:59:59	0.0719	0.0711	9.6603	0.8192
22	02:18:51	0.0719	0.0711	9.6603	0.8192

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

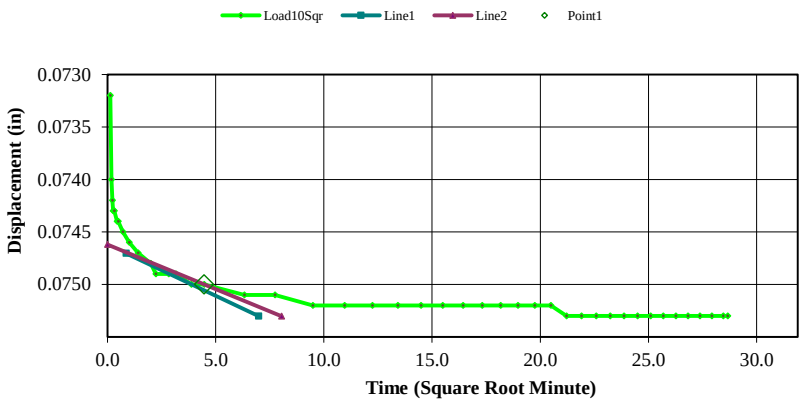
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

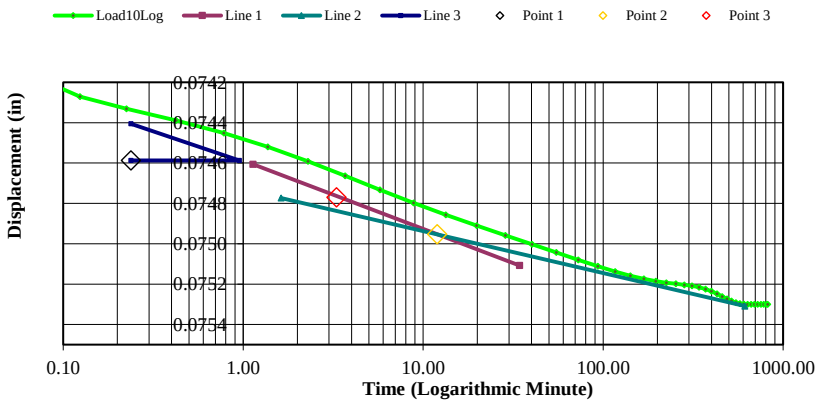
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0719	0.0711	9.6603	0.8192
1	00:00:01	0.0732	0.0724	9.8370	0.8156
2	00:00:02	0.0740	0.0732	9.9457	0.8134
3	00:00:03	0.0742	0.0734	9.9728	0.8129
4	00:00:04	0.0743	0.0735	9.9864	0.8126
5	00:00:05	0.0743	0.0735	9.9864	0.8126
6	00:00:06	0.0743	0.0735	9.9864	0.8126
7	00:00:12	0.0744	0.0736	10.0000	0.8123
8	00:00:15	0.0744	0.0736	10.0000	0.8123
9	00:00:30	0.0745	0.0737	10.0136	0.8121
10	00:01:00	0.0746	0.0738	10.0272	0.8118
11	00:02:00	0.0747	0.0739	10.0408	0.8115
12	00:04:00	0.0748	0.0740	10.0543	0.8112
13	00:05:00	0.0749	0.0741	10.0679	0.8110
14	00:07:59	0.0749	0.0741	10.0679	0.8110
15	00:09:59	0.0749	0.0741	10.0679	0.8110
16	00:14:59	0.0750	0.0742	10.0815	0.8107
17	00:19:59	0.0750	0.0742	10.0815	0.8107
18	00:39:58	0.0751	0.0743	10.0951	0.8104
19	00:59:58	0.0751	0.0743	10.0951	0.8104
20	01:29:59	0.0752	0.0744	10.1087	0.8102
21	01:59:58	0.0752	0.0744	10.1087	0.8102
22	02:29:57	0.0752	0.0744	10.1087	0.8102
23	02:59:58	0.0752	0.0744	10.1087	0.8102
24	03:29:58	0.0752	0.0744	10.1087	0.8102
25	03:59:57	0.0752	0.0744	10.1087	0.8102
26	04:29:56	0.0752	0.0744	10.1087	0.8102
27	04:59:57	0.0752	0.0744	10.1087	0.8102
28	05:29:57	0.0752	0.0744	10.1087	0.8102
29	05:59:56	0.0752	0.0744	10.1087	0.8102
30	06:29:55	0.0752	0.0744	10.1087	0.8102
31	06:59:55	0.0752	0.0744	10.1087	0.8102
32	07:29:55	0.0753	0.0745	10.1223	0.8099
33	07:59:54	0.0753	0.0745	10.1223	0.8099
34	08:29:54	0.0753	0.0745	10.1223	0.8099
35	08:59:54	0.0753	0.0745	10.1223	0.8099

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:54	0.0753	0.0745	10.1223	0.8099
37	09:59:53	0.0753	0.0745	10.1223	0.8099
38	10:29:53	0.0753	0.0745	10.1223	0.8099
39	10:59:53	0.0753	0.0745	10.1223	0.8099
40	11:29:52	0.0753	0.0745	10.1223	0.8099
41	11:59:51	0.0753	0.0745	10.1223	0.8099
42	12:29:52	0.0753	0.0745	10.1223	0.8099
43	12:59:51	0.0753	0.0745	10.1223	0.8099
44	13:29:51	0.0753	0.0745	10.1223	0.8099
45	13:41:21	0.0753	0.0745	10.1223	0.8099

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

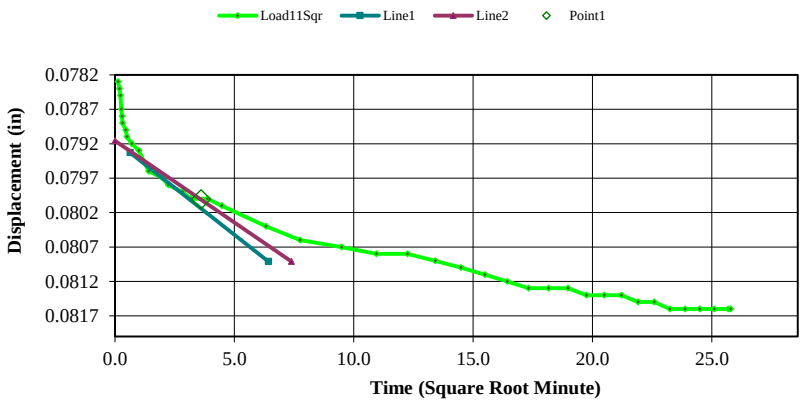
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

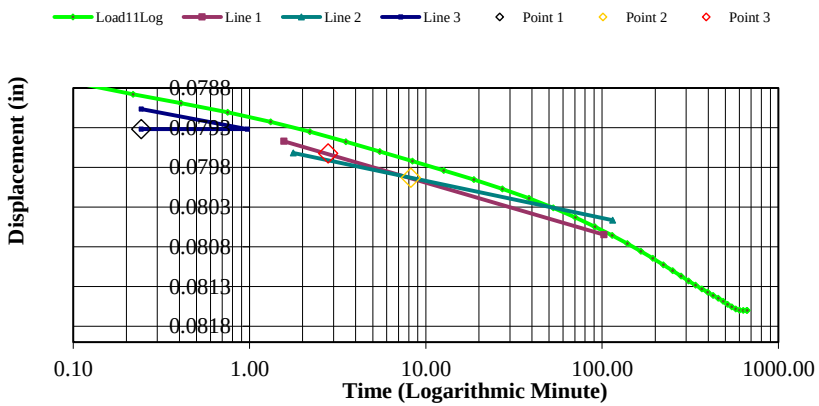
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0753	0.0745	10.1223	0.8099
1	00:00:01	0.0783	0.0775	10.5299	0.8017
2	00:00:02	0.0784	0.0776	10.5435	0.8014
3	00:00:03	0.0785	0.0777	10.5571	0.8011
4	00:00:04	0.0787	0.0779	10.5842	0.8006
5	00:00:05	0.0788	0.0780	10.5978	0.8003
6	00:00:06	0.0789	0.0781	10.6114	0.8000
7	00:00:12	0.0790	0.0782	10.6250	0.7998
8	00:00:15	0.0791	0.0783	10.6386	0.7995
9	00:00:30	0.0792	0.0784	10.6522	0.7992
10	00:01:00	0.0793	0.0785	10.6658	0.7989
11	00:01:59	0.0796	0.0788	10.7065	0.7981
12	00:03:59	0.0797	0.0789	10.7201	0.7978
13	00:04:59	0.0798	0.0790	10.7337	0.7976
14	00:08:00	0.0799	0.0791	10.7473	0.7973
15	00:10:00	0.0800	0.0792	10.7609	0.7970
16	00:15:00	0.0800	0.0792	10.7609	0.7970
17	00:19:59	0.0801	0.0793	10.7745	0.7967
18	00:40:00	0.0804	0.0796	10.8152	0.7959
19	01:00:00	0.0806	0.0798	10.8424	0.7954
20	01:29:59	0.0807	0.0799	10.8560	0.7951
21	01:59:58	0.0808	0.0800	10.8696	0.7948
22	02:29:58	0.0808	0.0800	10.8696	0.7948
23	02:59:59	0.0809	0.0801	10.8832	0.7946
24	03:29:58	0.0810	0.0802	10.8967	0.7943
25	03:59:57	0.0811	0.0803	10.9103	0.7940
26	04:29:58	0.0812	0.0804	10.9239	0.7937
27	04:59:57	0.0813	0.0805	10.9375	0.7935
28	05:29:56	0.0813	0.0805	10.9375	0.7935
29	05:59:55	0.0813	0.0805	10.9375	0.7935
30	06:29:56	0.0814	0.0806	10.9511	0.7932
31	06:59:55	0.0814	0.0806	10.9511	0.7932
32	07:29:54	0.0814	0.0806	10.9511	0.7932
33	07:59:54	0.0815	0.0807	10.9647	0.7929
34	08:29:54	0.0815	0.0807	10.9647	0.7929
35	08:59:54	0.0816	0.0808	10.9783	0.7926

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:53	0.0816	0.0808	10.9783	0.7926
37	09:59:53	0.0816	0.0808	10.9783	0.7926
38	10:29:54	0.0816	0.0808	10.9783	0.7926
39	10:59:54	0.0816	0.0808	10.9783	0.7926
40	11:04:58	0.0816	0.0808	10.9783	0.7926

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

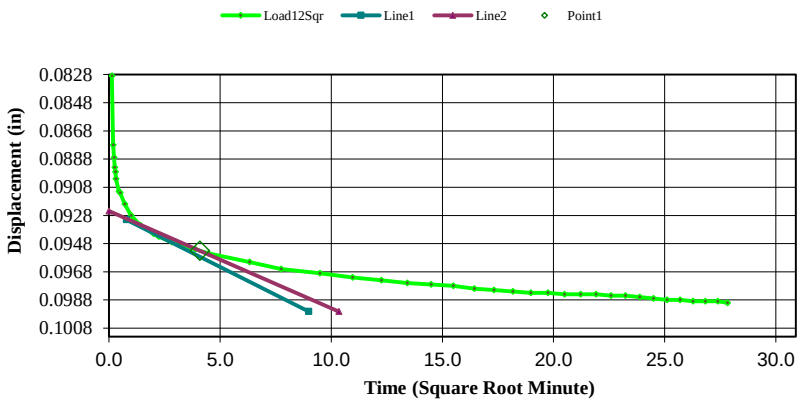
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

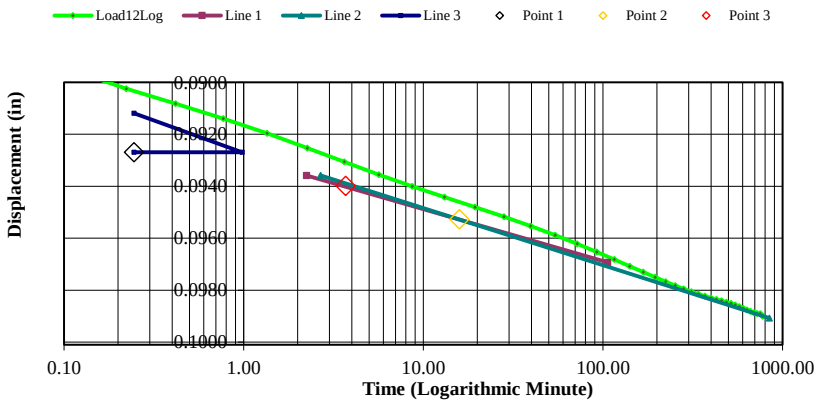
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0816	0.0808	10.9783	0.7926
1	00:00:01	0.0829	0.0821	11.1549	0.7891
2	00:00:02	0.0878	0.0870	11.8207	0.7757
3	00:00:03	0.0887	0.0879	11.9429	0.7732
4	00:00:04	0.0894	0.0886	12.0380	0.7713
5	00:00:05	0.0897	0.0889	12.0788	0.7705
6	00:00:06	0.0902	0.0894	12.1467	0.7691
7	00:00:12	0.0911	0.0903	12.2690	0.7666
8	00:00:15	0.0912	0.0904	12.2826	0.7664
9	00:00:30	0.0920	0.0912	12.3913	0.7642
10	00:01:00	0.0928	0.0920	12.5000	0.7620
11	00:02:00	0.0935	0.0927	12.5951	0.7601
12	00:04:00	0.0941	0.0933	12.6766	0.7584
13	00:05:00	0.0943	0.0935	12.7038	0.7579
14	00:08:00	0.0947	0.0939	12.7582	0.7568
15	00:10:00	0.0949	0.0941	12.7853	0.7563
16	00:15:00	0.0952	0.0944	12.8261	0.7554
17	00:19:59	0.0955	0.0947	12.8668	0.7546
18	00:39:58	0.0961	0.0953	12.9484	0.7530
19	00:59:58	0.0966	0.0958	13.0163	0.7516
20	01:29:59	0.0969	0.0961	13.0571	0.7508
21	01:59:59	0.0972	0.0964	13.0978	0.7500
22	02:29:58	0.0974	0.0966	13.1250	0.7494
23	02:59:57	0.0976	0.0968	13.1522	0.7489
24	03:29:58	0.0977	0.0969	13.1658	0.7486
25	03:59:58	0.0978	0.0970	13.1793	0.7483
26	04:29:57	0.0980	0.0972	13.2065	0.7478
27	04:59:57	0.0981	0.0973	13.2201	0.7475
28	05:29:56	0.0982	0.0974	13.2337	0.7472
29	05:59:56	0.0983	0.0975	13.2473	0.7469
30	06:29:56	0.0983	0.0975	13.2473	0.7469
31	06:59:55	0.0984	0.0976	13.2609	0.7467
32	07:29:55	0.0984	0.0976	13.2609	0.7467
33	07:59:55	0.0984	0.0976	13.2609	0.7467
34	08:29:54	0.0985	0.0977	13.2745	0.7464
35	08:59:53	0.0985	0.0977	13.2745	0.7464

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:54	0.0986	0.0978	13.2880	0.7461
37	09:59:54	0.0987	0.0979	13.3016	0.7459
38	10:29:53	0.0988	0.0980	13.3152	0.7456
39	10:59:53	0.0988	0.0980	13.3152	0.7456
40	11:29:53	0.0989	0.0981	13.3288	0.7453
41	11:59:53	0.0989	0.0981	13.3288	0.7453
42	12:29:52	0.0989	0.0981	13.3288	0.7453
43	12:54:12	0.0990	0.0982	13.3424	0.7450

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

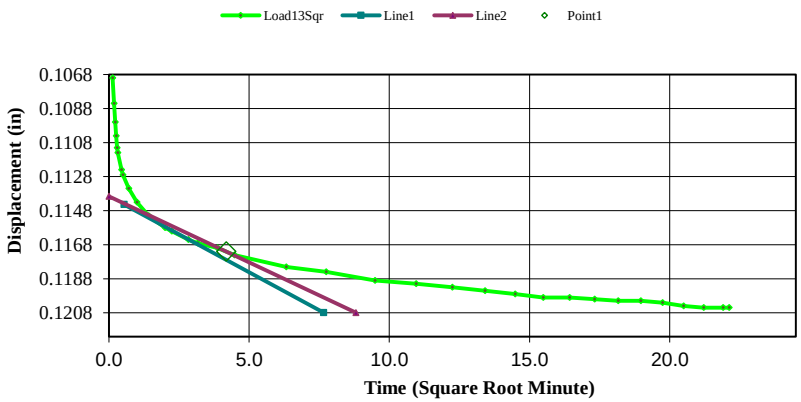
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

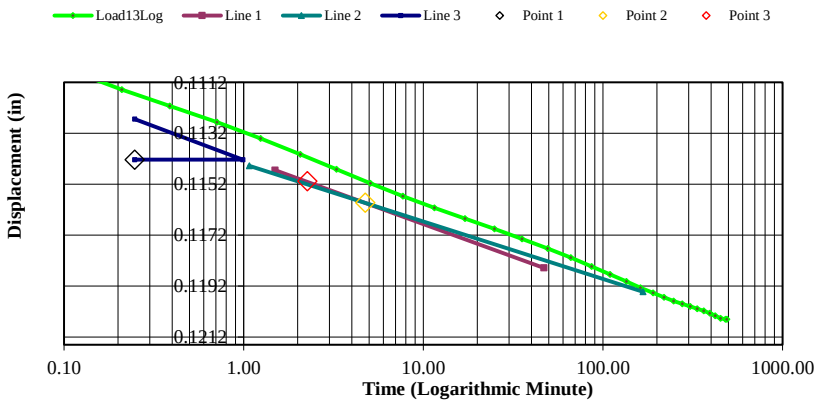
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0990	0.0982	13.3424	0.7450
1	00:00:01	0.1070	0.1062	14.4293	0.7231
2	00:00:02	0.1085	0.1077	14.6332	0.7190
3	00:00:03	0.1096	0.1088	14.7826	0.7160
4	00:00:04	0.1104	0.1096	14.8913	0.7138
5	00:00:05	0.1111	0.1103	14.9864	0.7119
6	00:00:06	0.1114	0.1106	15.0272	0.7111
7	00:00:12	0.1124	0.1116	15.1630	0.7084
8	00:00:15	0.1127	0.1119	15.2038	0.7076
9	00:00:30	0.1135	0.1127	15.3125	0.7054
10	00:01:00	0.1143	0.1135	15.4212	0.7032
11	00:02:00	0.1151	0.1143	15.5299	0.7010
12	00:04:00	0.1158	0.1150	15.6250	0.6991
13	00:05:00	0.1160	0.1152	15.6522	0.6985
14	00:08:00	0.1165	0.1157	15.7201	0.6972
15	00:10:01	0.1167	0.1159	15.7473	0.6966
16	00:15:01	0.1170	0.1162	15.7880	0.6958
17	00:20:01	0.1174	0.1166	15.8424	0.6947
18	00:40:01	0.1181	0.1173	15.9375	0.6928
19	01:00:01	0.1184	0.1176	15.9783	0.6920
20	01:30:00	0.1189	0.1181	16.0462	0.6906
21	01:59:59	0.1191	0.1183	16.0734	0.6900
22	02:29:59	0.1193	0.1185	16.1005	0.6895
23	02:59:59	0.1195	0.1187	16.1277	0.6889
24	03:29:58	0.1197	0.1189	16.1549	0.6884
25	03:59:58	0.1199	0.1191	16.1821	0.6879
26	04:29:58	0.1199	0.1191	16.1821	0.6879
27	04:59:58	0.1200	0.1192	16.1957	0.6876
28	05:29:57	0.1201	0.1193	16.2092	0.6873
29	05:59:56	0.1201	0.1193	16.2092	0.6873
30	06:29:56	0.1202	0.1194	16.2228	0.6870
31	06:59:56	0.1204	0.1196	16.2500	0.6865
32	07:29:55	0.1205	0.1197	16.2636	0.6862
33	07:59:54	0.1205	0.1197	16.2636	0.6862
34	08:09:16	0.1205	0.1197	16.2636	0.6862

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

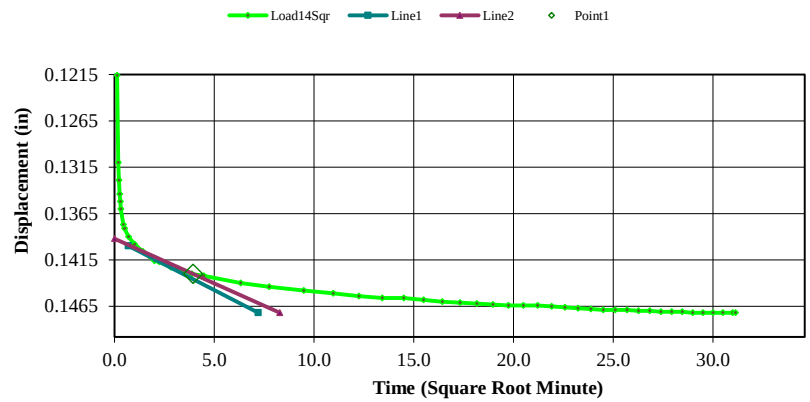
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 3
Depth: 12 - 14 feet
Sample Type: Undisturbed

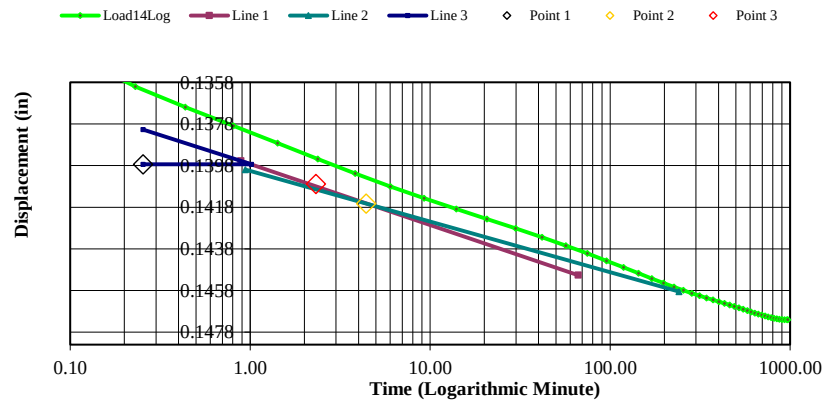
Soil Description:
Clayey Silt (CL-ML)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1205	0.1197	16.2636	0.6862
1	00:00:01	0.1216	0.1208	16.4130	0.6832
2	00:00:02	0.1310	0.1302	17.6902	0.6575
3	00:00:03	0.1329	0.1321	17.9484	0.6523
4	00:00:04	0.1344	0.1336	18.1522	0.6482
5	00:00:05	0.1352	0.1344	18.2609	0.6460
6	00:00:06	0.1360	0.1352	18.3696	0.6438
7	00:00:12	0.1377	0.1369	18.6005	0.6392
8	00:00:15	0.1381	0.1373	18.6549	0.6381
9	00:00:30	0.1390	0.1382	18.7772	0.6356
10	00:01:01	0.1398	0.1390	18.8859	0.6334
11	00:02:01	0.1406	0.1398	18.9946	0.6312
12	00:04:01	0.1416	0.1408	19.1304	0.6285
13	00:05:01	0.1417	0.1409	19.1440	0.6282
14	00:08:01	0.1423	0.1415	19.2255	0.6266
15	00:10:01	0.1424	0.1416	19.2391	0.6263
16	00:15:01	0.1430	0.1422	19.3207	0.6246
17	00:20:01	0.1432	0.1424	19.3478	0.6241
18	00:40:01	0.1440	0.1432	19.4565	0.6219
19	01:00:01	0.1444	0.1436	19.5109	0.6208
20	01:30:00	0.1448	0.1440	19.5652	0.6197
21	02:00:01	0.1451	0.1443	19.6060	0.6189
22	02:30:00	0.1454	0.1446	19.6467	0.6181
23	02:59:59	0.1456	0.1448	19.6739	0.6175
24	03:29:59	0.1456	0.1448	19.6739	0.6175
25	03:59:59	0.1458	0.1450	19.7011	0.6170
26	04:29:58	0.1460	0.1452	19.7283	0.6164
27	04:59:58	0.1461	0.1453	19.7418	0.6162
28	05:29:58	0.1462	0.1454	19.7554	0.6159
29	05:59:57	0.1463	0.1455	19.7690	0.6156
30	06:29:56	0.1464	0.1456	19.7826	0.6153
31	06:59:57	0.1464	0.1456	19.7826	0.6153
32	07:29:56	0.1464	0.1456	19.7826	0.6153
33	07:59:55	0.1465	0.1457	19.7962	0.6151
34	08:29:56	0.1466	0.1458	19.8098	0.6148
35	08:59:56	0.1467	0.1459	19.8234	0.6145

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)

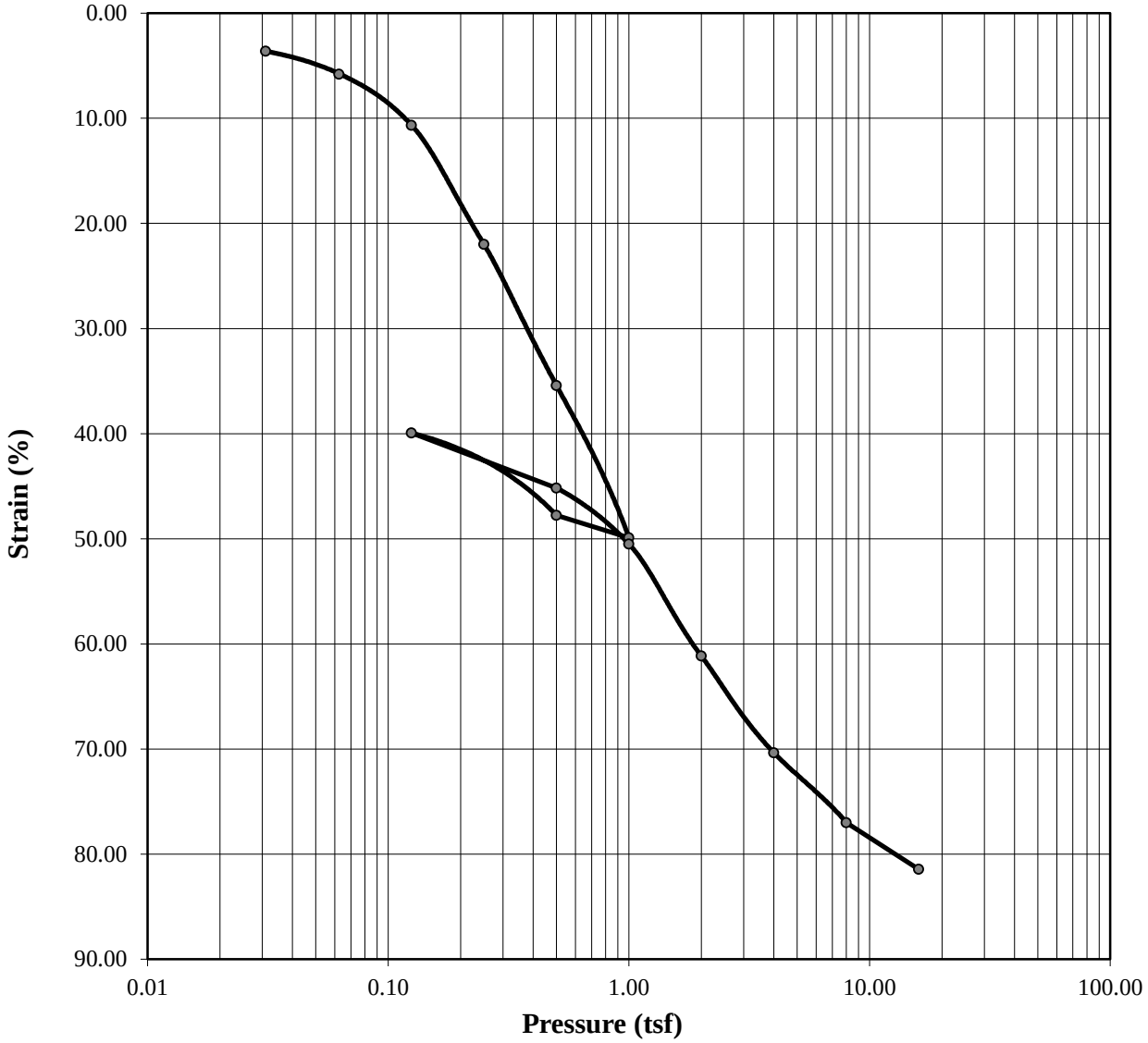


36	09:29:55	0.1468	0.1460	19.8370	0.6143
37	09:59:55	0.1469	0.1461	19.8505	0.6140
38	10:29:55	0.1469	0.1461	19.8505	0.6140
39	10:59:54	0.1469	0.1461	19.8505	0.6140
40	11:29:53	0.1470	0.1462	19.8641	0.6137
41	11:59:54	0.1470	0.1462	19.8641	0.6137
42	12:29:53	0.1471	0.1463	19.8777	0.6134
43	12:59:52	0.1471	0.1463	19.8777	0.6134
44	13:29:53	0.1471	0.1463	19.8777	0.6134
45	13:59:52	0.1472	0.1464	19.8913	0.6132
46	14:29:51	0.1472	0.1464	19.8913	0.6132
47	14:59:52	0.1472	0.1464	19.8913	0.6132
48	15:29:52	0.1472	0.1464	19.8913	0.6132
49	15:59:51	0.1472	0.1464	19.8913	0.6132
50	16:08:38	0.1472	0.1464	19.8913	0.6132

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	365	**Test Date:**	6 Apr 15
Moisture (%):	431.16	97.57	**Plastic Limits:**	87		
Dry Density (pcf):	12.81	61.58	**Plasticity Index (%):**	278		
Saturation (%):	98.97	195.91				
Void Ratio:	8.4386	0.7518	**Specific Gravity:**	1.939	Measured	

Sample Description: Peat (PT)

Project Number: 16715-040-00 **Depth:** 0 - 2 feet **Remarks:**

Sample Number: **Boring Number:** 4

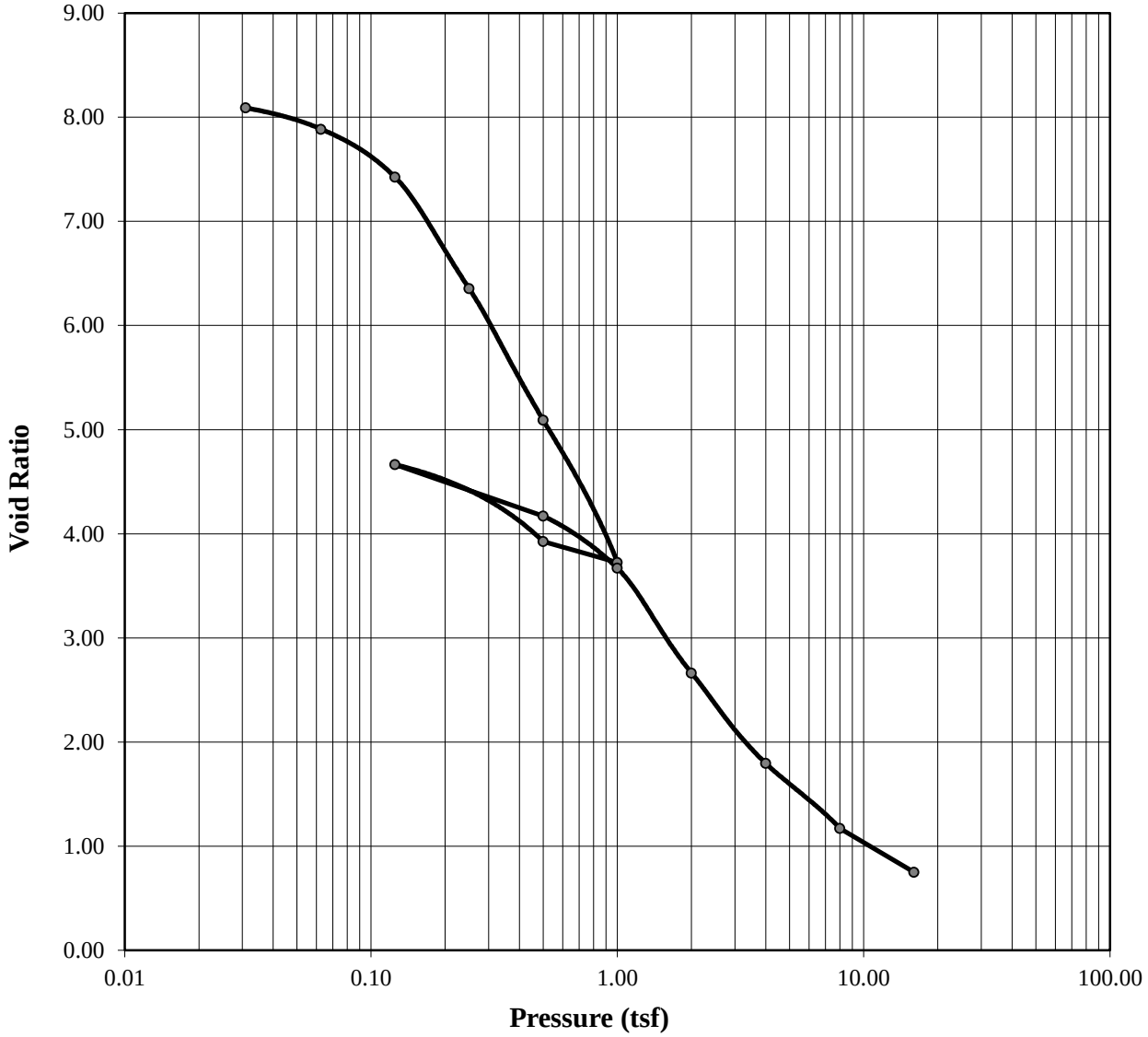
Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	365	**Test Date:**	6 Apr 15
Moisture (%):	431.16	97.57	**Plastic Limits:**	87		
Dry Density (pcf):	12.81	61.58	**Plasticity Index (%):**	278		
Saturation (%):	98.97	195.91				
Void Ratio:	8.4386	0.7518	**Specific Gravity:**	1.939	Measured	

Soil Description: Peat (PT)

Project Number: 16715-040-00 **Depth:** 0 - 2 feet

Sample Number: **Boring Number:** 4

Project: Island Road Marsh Creation and Nourishment (TE-117)

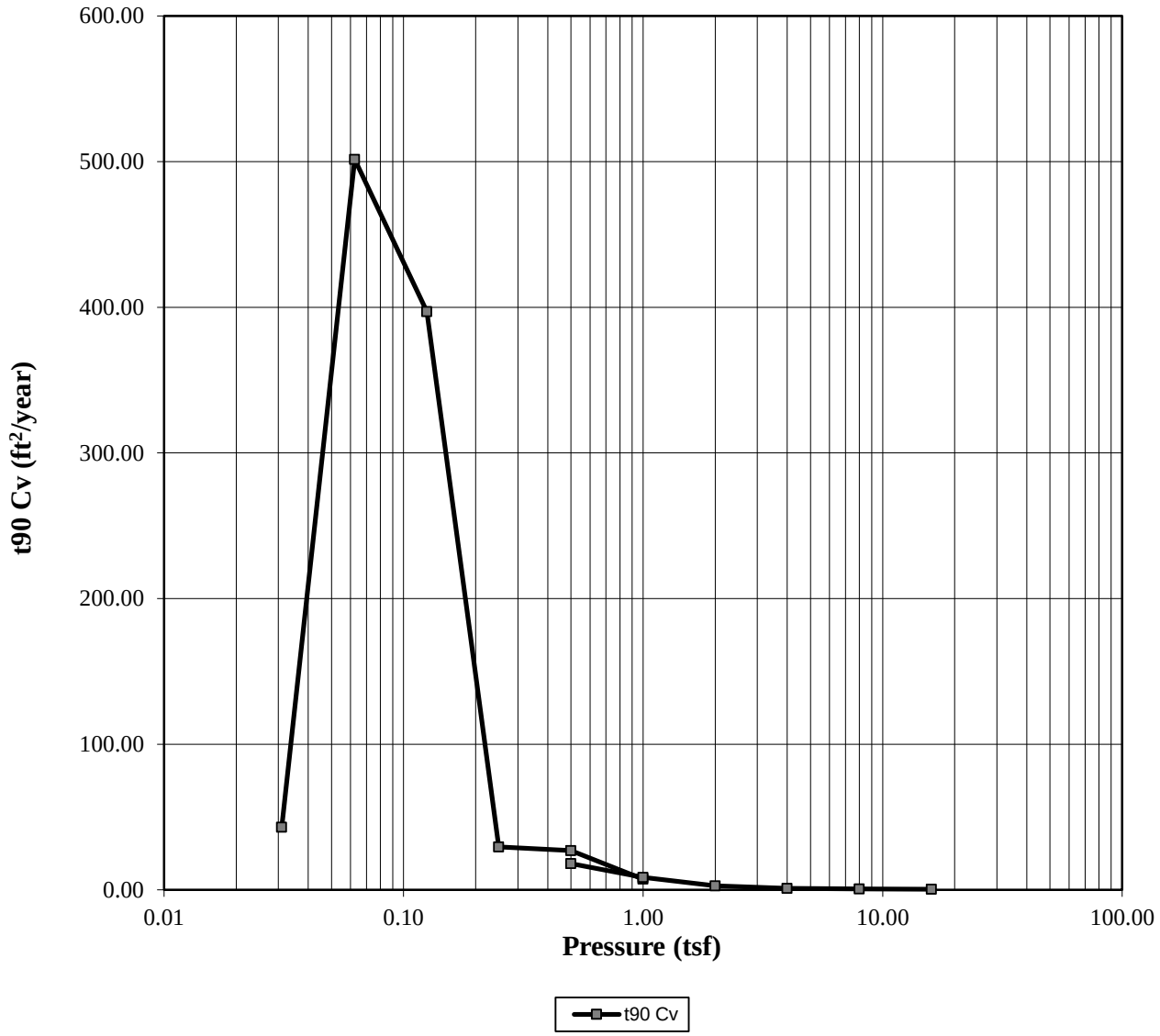
Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	365	**Test Date:**	6 Apr 15
Moisture (%):	431.16	97.57	**Plastic Limits:**	87		
Dry Density (pcf):	12.81	61.58	**Plasticity Index (%):**	278		
Saturation (%):	98.97	195.91				
Void Ratio:	8.4386	0.7518	**Specific Gravity:**	1.939	Measured	

Soil Description: Peat (PT)

Project Number: 16715-040-00 **Depth:** 0 - 2 feet **Remarks:**

Sample Number: **Boring Number:** 4

Project: Island Road Marsh Creation and Nourishment (TE-117)

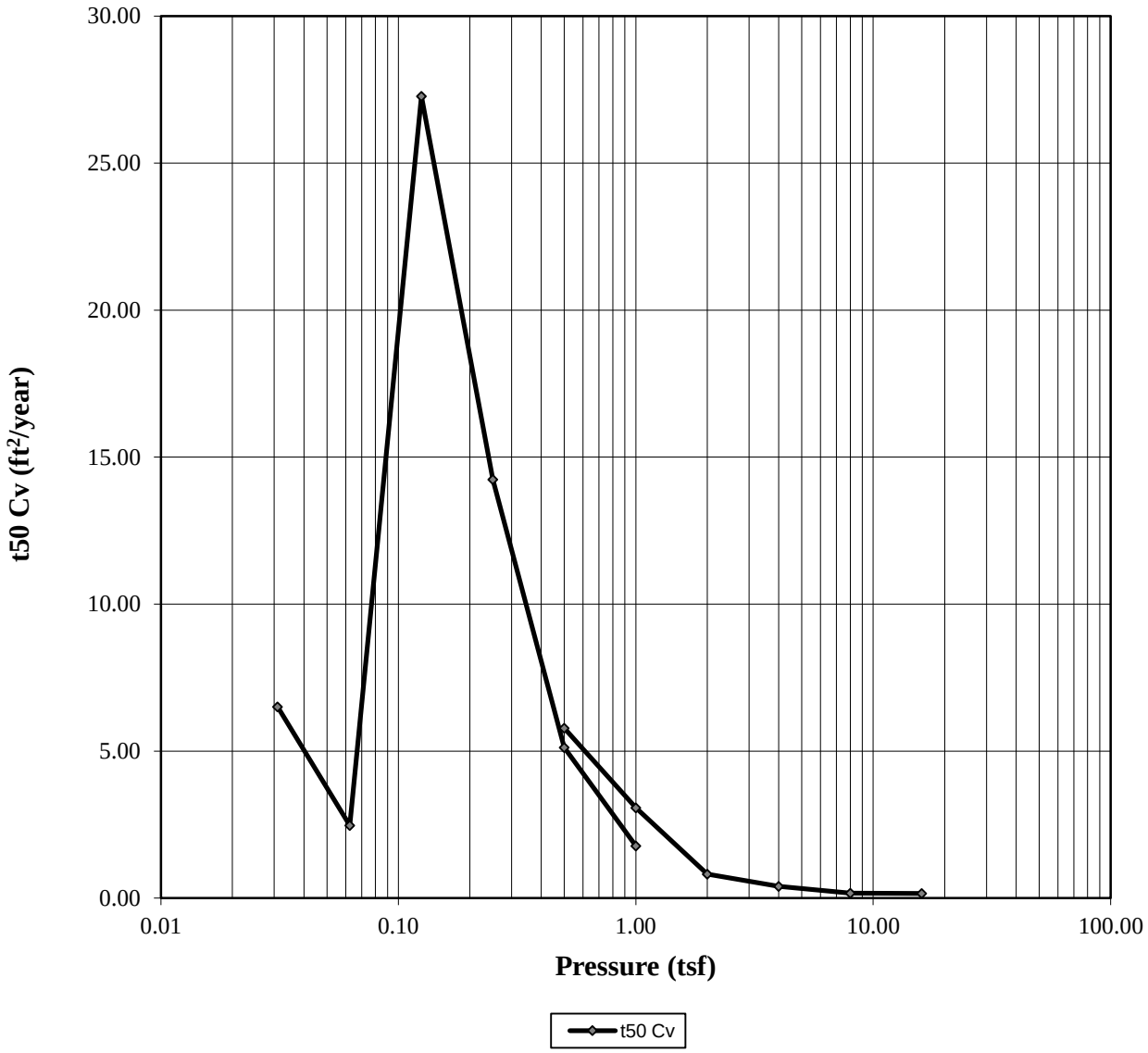
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	365	**Test Date:**	6 Apr 15
Moisture (%):	431.16	97.57	**Plastic Limits:**	87		
Dry Density (pcf):	12.81	61.58	**Plasticity Index (%):**	278		
Saturation (%):	98.97	195.91				
Void Ratio:	8.4386	0.7518	**Specific Gravity:**	1.939	Measured	

Soil Description: Peat (PT)

Project Number: 16715-040-00 **Depth:** 0 - 2 feet **Remarks:**

Sample Number: **Boring Number:** 4

Project: Island Road Marsh Creation and Nourishment (TE-117)

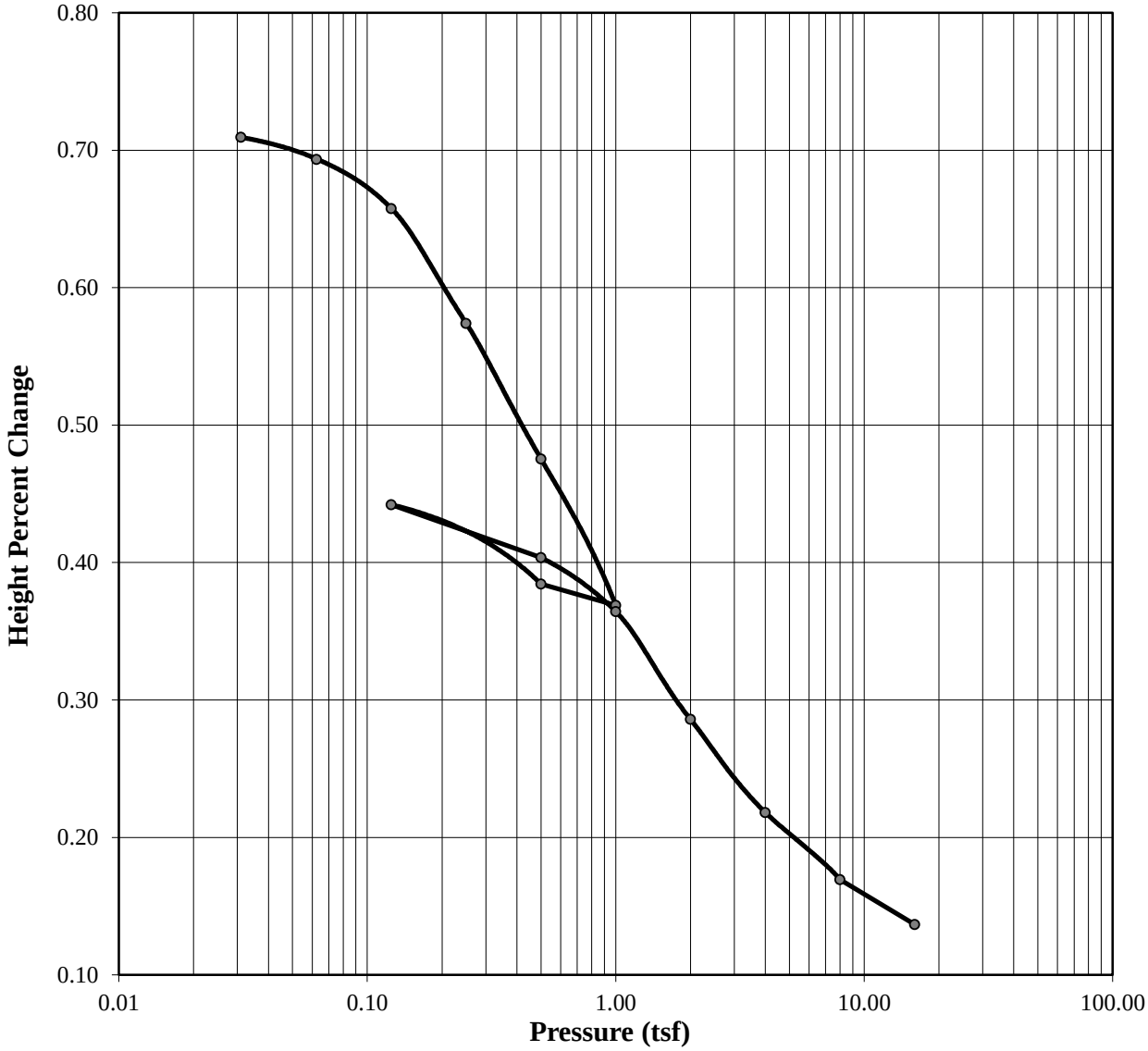
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	365	**Test Date:**	6 Apr 15
Moisture (%):	431.16	97.57	**Plastic Limits:**	87		
Dry Density (pcf):	12.81	61.58	**Plasticity Index (%):**	278		
Saturation (%):	98.97	195.91				
Void Ratio:	8.4386	0.7518	**Specific Gravity:**	1.939	Measured	

Soil Description: Peat (PT)

Project Number: 16715-040-00 **Depth:** 0 - 2 feet

Sample Number: **Boring Number:** 4

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** l6715-040-00
Location: Terrebonne Parish, LA
Job Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

Sample Description:
Peat (PT)
Remarks:

Test Number:
Test Date: 6 Apr 15

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	0.7360	0.6580	0.00	8.4303	0.000	0.000	0.000	0.000
1	0.031	0.0265	0.7095	0.6315	3.60	8.0907	9.044	13.909	43.068	6.506
2	0.063	0.0426	0.6934	0.6154	5.79	7.8844	0.742	34.982	501.563	2.471
3	0.125	0.0784	0.6576	0.5796	10.65	7.4257	0.843	2.850	397.101	27.277
4	0.250	0.1619	0.5741	0.4961	22.00	6.3559	8.679	4.161	29.387	14.238
5	0.500	0.2606	0.4754	0.3974	35.41	5.0912	6.500	7.939	26.904	5.118
6	1.000	0.3672	0.3688	0.2908	49.89	3.7254	14.388	13.752	7.315	1.778
7	0.500	0.3516	0.3844	0.3064	47.77	3.9253	0.000	0.000	0.000	0.000
8	0.125	0.2939	0.4421	0.3641	39.93	4.6646	0.000	0.000	0.000	0.000
9	0.500	0.3324	0.4036	0.3256	45.16	4.1713	7.008	5.069	17.986	5.777
10	1.000	0.3716	0.3644	0.2864	50.49	3.6690	12.089	7.765	8.500	3.074
11	2.000	0.4501	0.2859	0.2079	61.15	2.6632	22.519	18.104	2.809	0.812
12	4.000	0.5178	0.2182	0.1402	70.35	1.7958	34.130	21.630	1.079	0.396
13	8.000	0.5667	0.1693	0.0913	77.00	1.1692	31.570	31.147	0.703	0.165
14	16.000	0.5994	0.1366	0.0586	81.44	0.7502	36.713	21.481	0.393	0.156

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 6 Apr 15

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

Sample Description:
Peat (PT)
Remarks:

Test Number:
Liquid Limit: 365.0000
Plastic Limit: 87.0000
Specific Gravity: 1.9390 Measured

Initial Void Ratio: 8.4386
Plasticity Index (%): 278.0000
Weight of Ring (g): 219.3200

Initial Height (in): 0.7360
Initial Diameter (in): 2.4980

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	92.62	43.77
Dry Soil + Container (g)	35.75	33.33
Weight of Container (g)	22.56	22.63
Moisture Content (%)	431.16	97.57
Void Ratio	8.4386	0.7518
Saturation (%)	98.97	195.91
Dry Density (pcf)	12.81	61.58

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

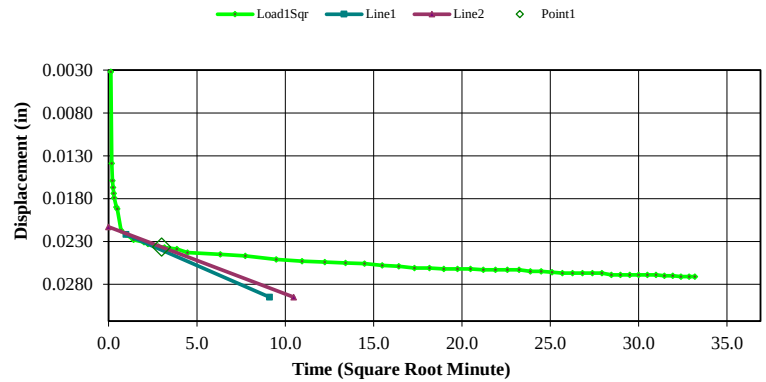
Project Number: 16715-040-00
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

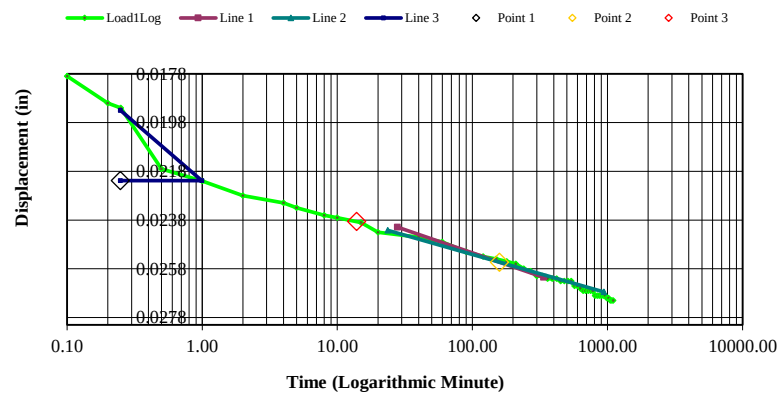
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0006	0.0000	0.0000	8.4386
1	00:00:01	0.0032	0.0026	0.3533	8.4052
2	00:00:02	0.0139	0.0133	1.8071	8.2680
3	00:00:03	0.0159	0.0153	2.0788	8.2424
4	00:00:04	0.0167	0.0161	2.1875	8.2321
5	00:00:05	0.0174	0.0168	2.2826	8.2231
6	00:00:06	0.0179	0.0173	2.3505	8.2167
7	00:00:12	0.0190	0.0184	2.5000	8.2026
8	00:00:15	0.0192	0.0186	2.5272	8.2001
9	00:00:30	0.0217	0.0211	2.8668	8.1680
10	00:01:00	0.0222	0.0216	2.9348	8.1616
11	00:02:00	0.0228	0.0222	3.0163	8.1539
12	00:04:00	0.0231	0.0225	3.0571	8.1500
13	00:05:00	0.0233	0.0227	3.0842	8.1475
14	00:08:00	0.0236	0.0230	3.1250	8.1436
15	00:10:00	0.0237	0.0231	3.1386	8.1423
16	00:15:00	0.0239	0.0233	3.1658	8.1398
17	00:20:00	0.0243	0.0237	3.2201	8.1347
18	00:40:00	0.0245	0.0239	3.2473	8.1321
19	01:00:00	0.0247	0.0241	3.2745	8.1295
20	01:29:59	0.0251	0.0245	3.3288	8.1244
21	01:59:58	0.0253	0.0247	3.3560	8.1218
22	02:29:59	0.0254	0.0248	3.3696	8.1205
23	02:59:59	0.0255	0.0249	3.3832	8.1193
24	03:29:57	0.0256	0.0250	3.3967	8.1180
25	03:59:57	0.0258	0.0252	3.4239	8.1154
26	04:29:57	0.0259	0.0253	3.4375	8.1141
27	04:59:57	0.0261	0.0255	3.4647	8.1116
28	05:29:56	0.0261	0.0255	3.4647	8.1116
29	05:59:56	0.0262	0.0256	3.4783	8.1103
30	06:29:56	0.0262	0.0256	3.4783	8.1103
31	06:59:55	0.0262	0.0256	3.4783	8.1103
32	07:29:55	0.0263	0.0257	3.4918	8.1090
33	07:59:56	0.0263	0.0257	3.4918	8.1090
34	08:29:55	0.0263	0.0257	3.4918	8.1090
35	08:59:54	0.0263	0.0257	3.4918	8.1090
36	09:29:54	0.0265	0.0259	3.5190	8.1064
37	09:59:54	0.0265	0.0259	3.5190	8.1064
38	10:29:54	0.0266	0.0260	3.5326	8.1052

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.0267	0.0261	3.5462	8.1039
40	11:29:54	0.0267	0.0261	3.5462	8.1039
41	11:59:53	0.0267	0.0261	3.5462	8.1039
42	12:29:52	0.0267	0.0261	3.5462	8.1039
43	12:59:53	0.0267	0.0261	3.5462	8.1039
44	13:29:52	0.0269	0.0263	3.5734	8.1013
45	13:59:52	0.0269	0.0263	3.5734	8.1013
46	14:29:51	0.0269	0.0263	3.5734	8.1013
47	14:59:51	0.0269	0.0263	3.5734	8.1013
48	15:29:51	0.0269	0.0263	3.5734	8.1013
49	15:59:50	0.0269	0.0263	3.5734	8.1013
50	16:29:50	0.0270	0.0264	3.5870	8.1000
51	16:59:50	0.0270	0.0264	3.5870	8.1000
52	17:29:49	0.0271	0.0265	3.6005	8.0987
53	17:59:49	0.0271	0.0265	3.6005	8.0987
54	18:21:12	0.0271	0.0265	3.6005	8.0987

Consolidation Test Results
(Sequence 2) Load 0.063 tsf

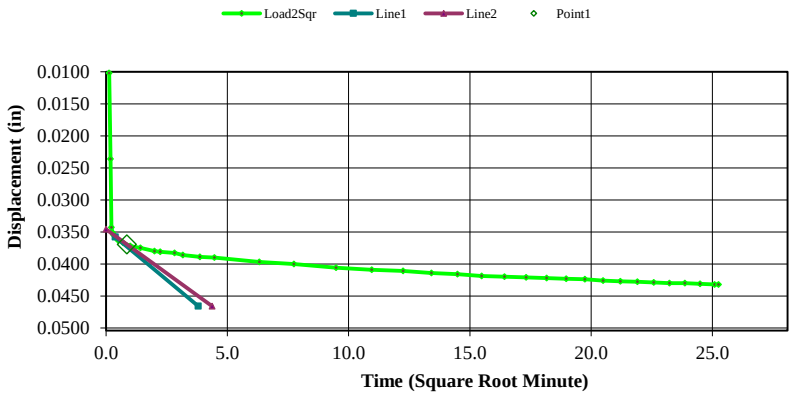
Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

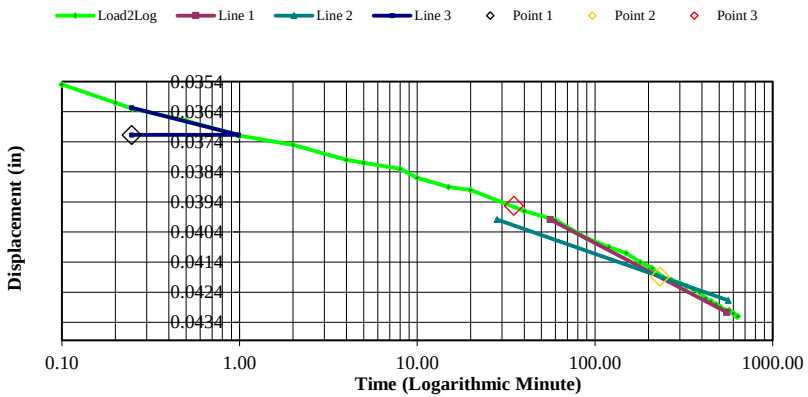
Sample Number:
Soil Description:
Boring Number: 4
Peat (PT)
Depth: 0 - 2 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0271	0.0265	3.6005	8.0987
1	00:00:01	0.0102	0.0096	1.3043	8.3155
2	00:00:02	0.0236	0.0230	3.1250	8.1436
3	00:00:03	0.0343	0.0337	4.5788	8.0064
4	00:00:04	0.0351	0.0345	4.6875	7.9962
5	00:00:05	0.0353	0.0347	4.7147	7.9936
6	00:00:06	0.0355	0.0349	4.7418	7.9910
7	00:00:12	0.0361	0.0355	4.8234	7.9833
8	00:00:15	0.0363	0.0357	4.8505	7.9808
9	00:00:30	0.0367	0.0361	4.9049	7.9756
10	00:01:00	0.0372	0.0366	4.9728	7.9692
11	00:02:00	0.0375	0.0369	5.0136	7.9654
12	00:04:00	0.0380	0.0374	5.0815	7.9590
13	00:05:00	0.0381	0.0375	5.0951	7.9577
14	00:08:00	0.0383	0.0377	5.1223	7.9551
15	00:10:00	0.0386	0.0380	5.1630	7.9513
16	00:15:00	0.0389	0.0383	5.2038	7.9474
17	00:20:00	0.0390	0.0384	5.2174	7.9461
18	00:40:00	0.0397	0.0391	5.3125	7.9372
19	00:59:59	0.0400	0.0394	5.3533	7.9333
20	01:29:58	0.0406	0.0400	5.4348	7.9256
21	01:59:59	0.0409	0.0403	5.4755	7.9218
22	02:29:58	0.0411	0.0405	5.5027	7.9192
23	02:59:57	0.0414	0.0408	5.5435	7.9154
24	03:29:57	0.0416	0.0410	5.5707	7.9128
25	03:59:57	0.0419	0.0413	5.6114	7.9089
26	04:29:56	0.0420	0.0414	5.6250	7.9077
27	04:59:56	0.0421	0.0415	5.6386	7.9064
28	05:29:56	0.0422	0.0416	5.6522	7.9051
29	05:59:56	0.0423	0.0417	5.6658	7.9038
30	06:29:55	0.0424	0.0418	5.6793	7.9025
31	06:59:54	0.0426	0.0420	5.7065	7.9000
32	07:29:55	0.0427	0.0421	5.7201	7.8987
33	07:59:55	0.0428	0.0422	5.7337	7.8974
34	08:29:54	0.0429	0.0423	5.7473	7.8961
35	08:59:53	0.0430	0.0424	5.7609	7.8948

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:53	0.0430	0.0424	5.7609	7.8948
37	09:59:53	0.0431	0.0425	5.7745	7.8936
38	10:29:53	0.0432	0.0426	5.7880	7.8923
39	10:37:48	0.0432	0.0426	5.7880	7.8923

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

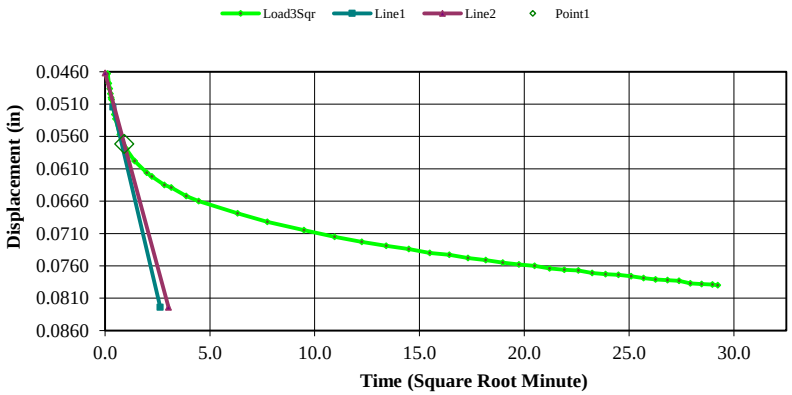
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

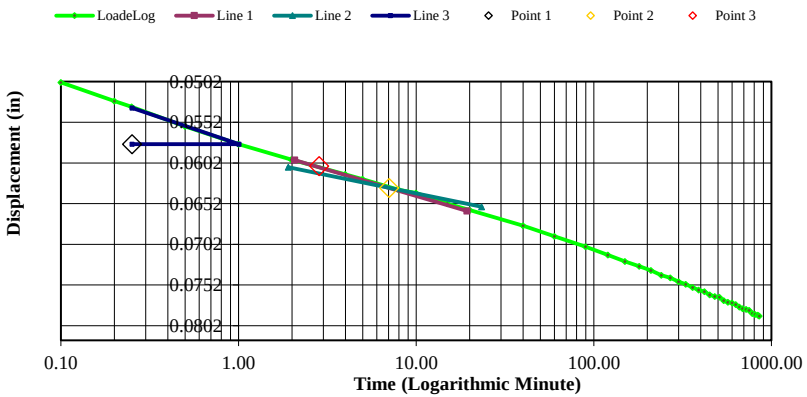
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0432	0.0426	5.7880	7.8923
1	00:00:01	0.0463	0.0457	6.2092	7.8525
2	00:00:02	0.0478	0.0472	6.4130	7.8333
3	00:00:03	0.0486	0.0480	6.5217	7.8230
4	00:00:04	0.0494	0.0488	6.6304	7.8128
5	00:00:05	0.0500	0.0494	6.7120	7.8051
6	00:00:06	0.0503	0.0497	6.7527	7.8012
7	00:00:12	0.0526	0.0520	7.0652	7.7717
8	00:00:15	0.0533	0.0527	7.1603	7.7628
9	00:00:30	0.0557	0.0551	7.4864	7.7320
10	00:01:00	0.0579	0.0573	7.7853	7.7038
11	00:01:59	0.0598	0.0592	8.0435	7.6794
12	00:03:59	0.0616	0.0610	8.2880	7.6563
13	00:04:59	0.0622	0.0616	8.3696	7.6486
14	00:07:59	0.0635	0.0629	8.5462	7.6319
15	00:09:59	0.0639	0.0633	8.6005	7.6268
16	00:14:59	0.0652	0.0646	8.7772	7.6101
17	00:19:59	0.0660	0.0654	8.8859	7.5999
18	00:39:58	0.0679	0.0673	9.1440	7.5755
19	00:59:58	0.0692	0.0686	9.3207	7.5588
20	01:29:59	0.0705	0.0699	9.4973	7.5422
21	01:59:58	0.0715	0.0709	9.6332	7.5294
22	02:29:58	0.0723	0.0717	9.7418	7.5191
23	02:59:57	0.0729	0.0723	9.8234	7.5114
24	03:29:57	0.0734	0.0728	9.8913	7.5050
25	03:59:57	0.0740	0.0734	9.9728	7.4973
26	04:29:57	0.0743	0.0737	10.0136	7.4934
27	04:59:56	0.0748	0.0742	10.0815	7.4870
28	05:29:55	0.0751	0.0745	10.1223	7.4832
29	05:59:56	0.0755	0.0749	10.1766	7.4781
30	06:29:55	0.0758	0.0752	10.2174	7.4742
31	06:59:54	0.0760	0.0754	10.2446	7.4716
32	07:29:54	0.0764	0.0758	10.2989	7.4665
33	07:59:54	0.0766	0.0760	10.3261	7.4639
34	08:29:54	0.0767	0.0761	10.3397	7.4627
35	08:59:54	0.0771	0.0765	10.3940	7.4575

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:53	0.0773	0.0767	10.4212	7.4550
37	09:59:54	0.0774	0.0768	10.4348	7.4537
38	10:29:54	0.0776	0.0770	10.4620	7.4511
39	10:59:53	0.0779	0.0773	10.5027	7.4473
40	11:29:52	0.0781	0.0775	10.5299	7.4447
41	11:59:53	0.0782	0.0776	10.5435	7.4434
42	12:29:53	0.0783	0.0777	10.5571	7.4421
43	12:59:52	0.0787	0.0781	10.6114	7.4370
44	13:29:51	0.0788	0.0782	10.6250	7.4357
45	13:59:51	0.0789	0.0783	10.6386	7.4345
46	14:14:19	0.0790	0.0784	10.6522	7.4332

Consolidation Test Results
(Sequence 4) Load 0.250 tsf

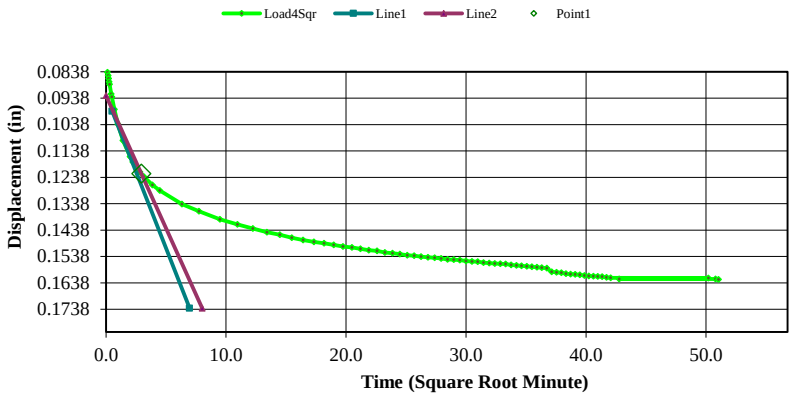
Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

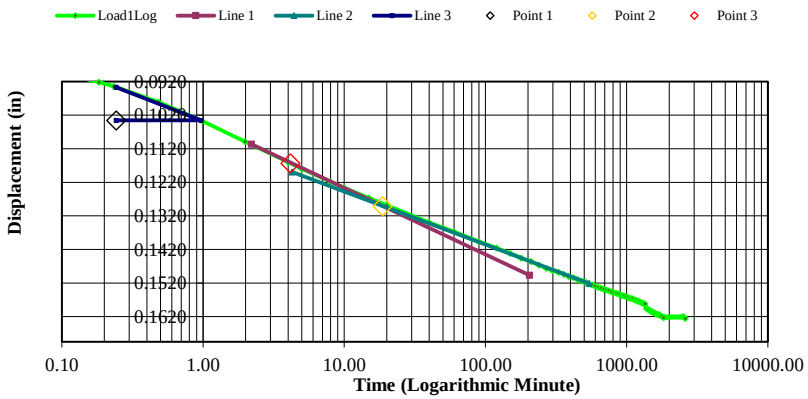
Sample Number:
Soil Description:
Boring Number: 4
Peat (PT)
Depth: 0 - 2 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0790	0.0784	10.6522	7.4332
1	00:00:00	0.0823	0.0817	11.1005	7.3909
2	00:00:01	0.0840	0.0834	11.3315	7.3691
3	00:00:02	0.0852	0.0846	11.4946	7.3537
4	00:00:03	0.0864	0.0858	11.6576	7.3383
5	00:00:04	0.0876	0.0870	11.8207	7.3229
6	00:00:05	0.0886	0.0880	11.9565	7.3101
7	00:00:11	0.0922	0.0916	12.4457	7.2639
8	00:00:14	0.0934	0.0928	12.6087	7.2485
9	00:00:29	0.0981	0.0975	13.2473	7.1882
10	00:00:59	0.1037	0.1031	14.0082	7.1164
11	00:01:59	0.1099	0.1093	14.8505	7.0369
12	00:04:00	0.1160	0.1154	15.6793	6.9587
13	00:05:00	0.1180	0.1174	15.9511	6.9330
14	00:08:00	0.1218	0.1212	16.4674	6.8843
15	00:10:00	0.1236	0.1230	16.7120	6.8612
16	00:15:00	0.1267	0.1261	17.1332	6.8215
17	00:20:00	0.1288	0.1282	17.4185	6.7945
18	00:40:00	0.1340	0.1334	18.1250	6.7278
19	00:59:59	0.1367	0.1361	18.4918	6.6932
20	01:29:58	0.1397	0.1391	18.8995	6.6547
21	01:59:58	0.1416	0.1410	19.1576	6.6304
22	02:29:58	0.1432	0.1426	19.3750	6.6099
23	02:59:58	0.1446	0.1440	19.5652	6.5919
24	03:29:57	0.1456	0.1450	19.7011	6.5791
25	03:59:56	0.1467	0.1461	19.8505	6.5650
26	04:29:56	0.1476	0.1470	19.9728	6.5534
27	04:59:57	0.1483	0.1477	20.0679	6.5445
28	05:29:56	0.1488	0.1482	20.1359	6.5380
29	05:59:55	0.1494	0.1488	20.2174	6.5303
30	06:29:55	0.1500	0.1494	20.2989	6.5227
31	06:59:55	0.1504	0.1498	20.3533	6.5175
32	07:29:55	0.1509	0.1503	20.4212	6.5111
33	07:59:54	0.1514	0.1508	20.4891	6.5047
34	08:29:54	0.1517	0.1511	20.5299	6.5009
35	08:59:54	0.1523	0.1517	20.6114	6.4932

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:29:54	0.1526	0.1520	20.6522	6.4893
37	09:59:52	0.1529	0.1523	20.6929	6.4855
38	10:29:53	0.1533	0.1527	20.7473	6.4803
39	10:59:53	0.1535	0.1529	20.7745	6.4778
40	11:29:52	0.1539	0.1533	20.8288	6.4726
41	11:59:51	0.1541	0.1535	20.8560	6.4701
42	12:29:51	0.1543	0.1537	20.8832	6.4675
43	12:59:52	0.1546	0.1540	20.9239	6.4637
44	13:29:51	0.1549	0.1543	20.9647	6.4598
45	13:59:50	0.1550	0.1544	20.9783	6.4585
46	14:29:50	0.1552	0.1546	21.0054	6.4560
47	14:59:50	0.1555	0.1549	21.0462	6.4521
48	15:29:50	0.1557	0.1551	21.0734	6.4496
49	15:59:49	0.1558	0.1552	21.0870	6.4483
50	16:29:50	0.1561	0.1555	21.1277	6.4444
51	16:59:49	0.1563	0.1557	21.1549	6.4419
52	17:29:48	0.1565	0.1559	21.1821	6.4393
53	17:59:48	0.1566	0.1560	21.1957	6.4380
54	18:29:48	0.1567	0.1561	21.2092	6.4367
55	18:59:48	0.1570	0.1564	21.2500	6.4329
56	19:29:47	0.1572	0.1566	21.2772	6.4303
57	19:59:47	0.1574	0.1568	21.3043	6.4278
58	20:29:47	0.1575	0.1569	21.3179	6.4265
59	20:59:46	0.1577	0.1571	21.3451	6.4239
60	21:29:45	0.1579	0.1573	21.3723	6.4213
61	21:59:47	0.1581	0.1575	21.3995	6.4188
62	22:29:46	0.1582	0.1576	21.4130	6.4175
63	22:59:45	0.1596	0.1590	21.6033	6.3995
64	23:29:45	0.1598	0.1592	21.6304	6.3970
65	23:59:45	0.1600	0.1594	21.6576	6.3944
66	24:29:45	0.1603	0.1597	21.6984	6.3906
67	24:59:44	0.1605	0.1599	21.7255	6.3880
68	25:29:44	0.1606	0.1600	21.7391	6.3867
69	25:59:44	0.1608	0.1602	21.7663	6.3842
70	26:29:43	0.1610	0.1604	21.7935	6.3816
71	26:59:43	0.1612	0.1606	21.8207	6.3790
72	27:29:43	0.1613	0.1607	21.8342	6.3777
73	27:59:43	0.1614	0.1608	21.8478	6.3765
74	28:29:42	0.1615	0.1609	21.8614	6.3752
75	28:59:42	0.1617	0.1611	21.8886	6.3726
76	29:29:42	0.1619	0.1613	21.9158	6.3700
77	41:59:42	0.1620	0.1614	21.9293	6.3688
78	30:29:41	0.1623	0.1617	21.9701	6.3649
79	42:59:40	0.1623	0.1617	21.9701	6.3649
80	43:26:02	0.1625	0.1619	21.9973	6.3624

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

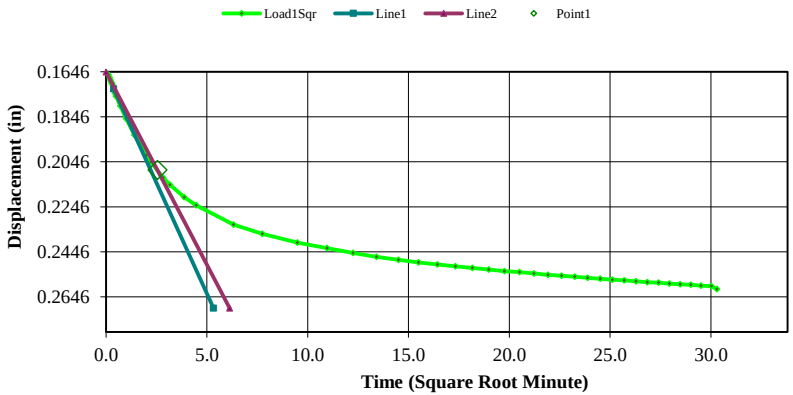
Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

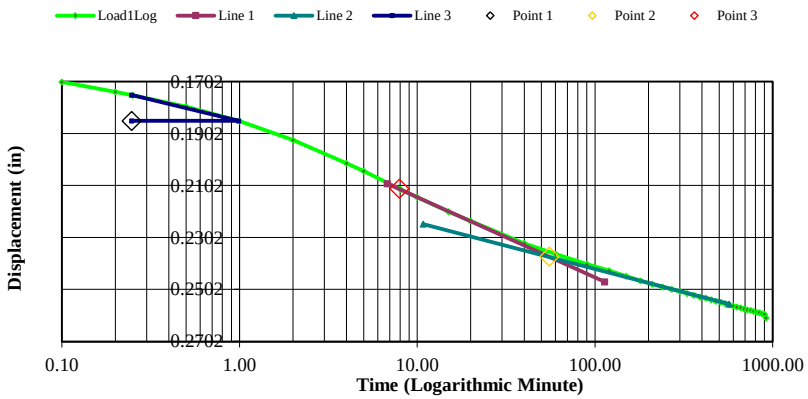
Sample Number:
Soil Description:
Boring Number: 4
Peat (PT)
Depth: 0 - 2 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1625	0.1619	21.9973	6.3624
1	00:00:01	0.1660	0.1654	22.4728	6.3175
2	00:00:02	0.1673	0.1667	22.6495	6.3008
3	00:00:03	0.1683	0.1677	22.7853	6.2880
4	00:00:04	0.1692	0.1686	22.9076	6.2764
5	00:00:05	0.1698	0.1692	22.9891	6.2687
6	00:00:06	0.1703	0.1697	23.0571	6.2623
7	00:00:12	0.1742	0.1736	23.5870	6.2123
8	00:00:15	0.1755	0.1749	23.7636	6.1956
9	00:00:30	0.1798	0.1792	24.3478	6.1405
10	00:01:00	0.1854	0.1848	25.1087	6.0687
11	00:02:00	0.1927	0.1921	26.1005	5.9751
12	00:04:00	0.2017	0.2011	27.3234	5.8596
13	00:05:00	0.2047	0.2041	27.7310	5.8212
14	00:08:00	0.2116	0.2110	28.6685	5.7327
15	00:10:01	0.2148	0.2142	29.1033	5.6916
16	00:15:01	0.2203	0.2197	29.8505	5.6211
17	00:20:01	0.2239	0.2233	30.3397	5.5749
18	00:40:03	0.2325	0.2319	31.5082	5.4647
19	01:00:04	0.2366	0.2360	32.0652	5.4121
20	01:30:06	0.2405	0.2399	32.5951	5.3621
21	02:00:09	0.2430	0.2424	32.9348	5.3300
22	02:30:11	0.2451	0.2445	33.2201	5.3031
23	03:00:13	0.2469	0.2463	33.4647	5.2800
24	03:30:16	0.2482	0.2476	33.6413	5.2633
25	04:00:18	0.2493	0.2487	33.7908	5.2492
26	04:30:20	0.2502	0.2496	33.9130	5.2377
27	05:00:22	0.2510	0.2504	34.0217	5.2274
28	05:30:25	0.2518	0.2512	34.1304	5.2172
29	06:00:27	0.2525	0.2519	34.2255	5.2082
30	06:30:29	0.2532	0.2526	34.3206	5.1992
31	07:00:31	0.2536	0.2530	34.3750	5.1941
32	07:30:34	0.2542	0.2536	34.4565	5.1864
33	08:00:36	0.2548	0.2542	34.5380	5.1787
34	08:30:38	0.2552	0.2546	34.5924	5.1736
35	09:00:40	0.2557	0.2551	34.6603	5.1671

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.2562	0.2556	34.7283	5.1607
37	10:00:45	0.2566	0.2560	34.7826	5.1556
38	10:30:47	0.2570	0.2564	34.8370	5.1505
39	11:00:49	0.2573	0.2567	34.8777	5.1466
40	11:30:52	0.2577	0.2571	34.9321	5.1415
41	12:00:54	0.2581	0.2575	34.9864	5.1364
42	12:30:56	0.2583	0.2577	35.0136	5.1338
43	13:00:59	0.2587	0.2581	35.0679	5.1287
44	13:31:01	0.2590	0.2584	35.1087	5.1248
45	14:01:03	0.2592	0.2586	35.1359	5.1223
46	14:31:05	0.2596	0.2590	35.1902	5.1171
47	15:01:08	0.2598	0.2592	35.2174	5.1146
48	15:17:52	0.2612	0.2606	35.4076	5.0966

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

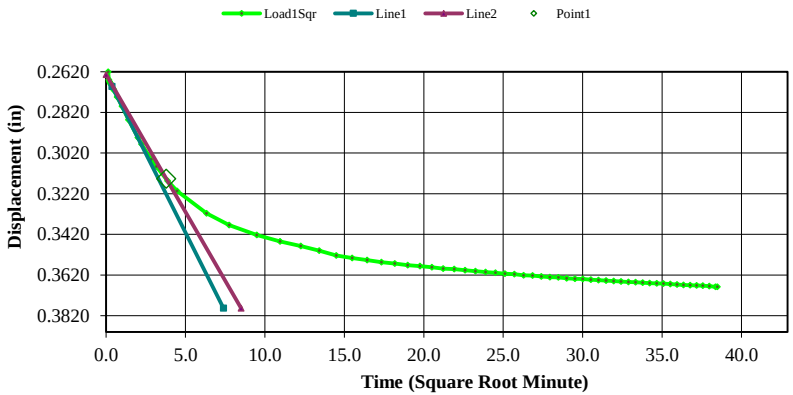
Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

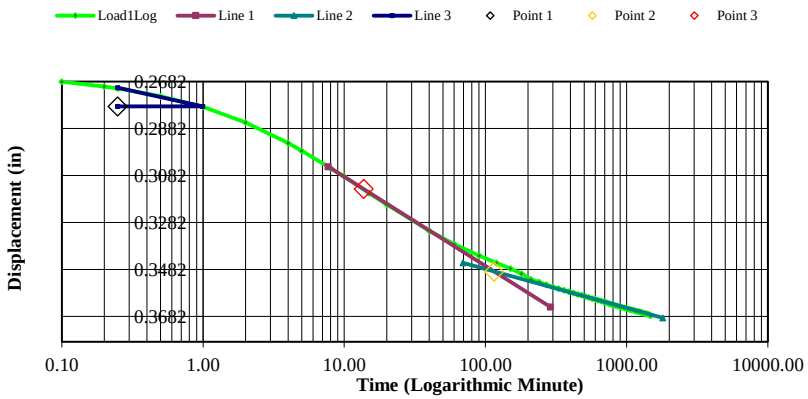
Sample Number:
Soil Description:
Boring Number: 4
Peat (PT)
Depth: 0 - 2 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2612	0.2606	35.4076	5.0966
1	00:00:01	0.2621	0.2615	35.5299	5.0851
2	00:00:02	0.2659	0.2653	36.0462	5.0363
3	00:00:03	0.2668	0.2662	36.1685	5.0248
4	00:00:04	0.2674	0.2668	36.2500	5.0171
5	00:00:05	0.2678	0.2672	36.3043	5.0120
6	00:00:06	0.2683	0.2677	36.3723	5.0056
7	00:00:12	0.2703	0.2697	36.6440	4.9799
8	00:00:15	0.2711	0.2705	36.7527	4.9696
9	00:00:30	0.2744	0.2738	37.2011	4.9273
10	00:01:00	0.2790	0.2784	37.8261	4.8683
11	00:02:00	0.2856	0.2850	38.7228	4.7837
12	00:04:00	0.2944	0.2938	39.9185	4.6708
13	00:05:00	0.2977	0.2971	40.3668	4.6285
14	00:08:00	0.3051	0.3045	41.3723	4.5336
15	00:10:00	0.3086	0.3080	41.8478	4.4887
16	00:15:01	0.3157	0.3151	42.8125	4.3977
17	00:20:01	0.3206	0.3200	43.4783	4.3349
18	00:40:03	0.3317	0.3311	44.9864	4.1925
19	01:00:04	0.3374	0.3368	45.7609	4.1194
20	01:30:06	0.3423	0.3417	46.4266	4.0566
21	02:00:09	0.3455	0.3449	46.8614	4.0155
22	02:30:11	0.3478	0.3472	47.1739	3.9860
23	03:00:13	0.3500	0.3494	47.4728	3.9578
24	03:30:15	0.3524	0.3518	47.7989	3.9270
25	04:00:18	0.3536	0.3530	47.9620	3.9117
26	04:30:20	0.3547	0.3541	48.1114	3.8975
27	05:00:22	0.3557	0.3551	48.2473	3.8847
28	05:30:24	0.3564	0.3558	48.3424	3.8757
29	06:00:27	0.3571	0.3565	48.4375	3.8668
30	06:30:29	0.3576	0.3570	48.5054	3.8604
31	07:00:31	0.3582	0.3576	48.5870	3.8527
32	07:30:33	0.3588	0.3582	48.6685	3.8450
33	08:00:36	0.3591	0.3585	48.7092	3.8411
34	08:30:38	0.3597	0.3591	48.7908	3.8334
35	09:00:40	0.3601	0.3595	48.8451	3.8283

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.3606	0.3600	48.9130	3.8219
37	10:00:45	0.3609	0.3603	48.9538	3.8180
38	10:30:47	0.3613	0.3607	49.0081	3.8129
39	11:00:49	0.3616	0.3610	49.0489	3.8091
40	11:30:51	0.3621	0.3615	49.1168	3.8027
41	12:00:54	0.3623	0.3617	49.1440	3.8001
42	12:30:56	0.3627	0.3621	49.1984	3.7950
43	13:00:58	0.3630	0.3624	49.2391	3.7911
44	13:31:00	0.3632	0.3626	49.2663	3.7885
45	14:01:03	0.3636	0.3630	49.3206	3.7834
46	14:31:05	0.3638	0.3632	49.3478	3.7808
47	15:01:07	0.3640	0.3634	49.3750	3.7783
48	15:31:09	0.3643	0.3637	49.4158	3.7744
49	16:01:12	0.3645	0.3639	49.4429	3.7719
50	16:31:14	0.3647	0.3641	49.4701	3.7693
51	17:01:16	0.3650	0.3644	49.5109	3.7655
52	17:31:19	0.3652	0.3646	49.5380	3.7629
53	18:01:21	0.3654	0.3648	49.5652	3.7603
54	18:31:23	0.3655	0.3649	49.5788	3.7590
55	19:01:25	0.3658	0.3652	49.6196	3.7552
56	19:31:28	0.3660	0.3654	49.6467	3.7526
57	20:01:30	0.3661	0.3655	49.6603	3.7514
58	20:31:32	0.3662	0.3656	49.6739	3.7501
59	21:01:34	0.3664	0.3658	49.7011	3.7475
60	21:31:37	0.3667	0.3661	49.7418	3.7437
61	22:01:39	0.3669	0.3663	49.7690	3.7411
62	22:31:41	0.3670	0.3664	49.7826	3.7398
63	23:01:43	0.3671	0.3665	49.7962	3.7385
64	23:31:46	0.3672	0.3666	49.8098	3.7372
65	24:01:48	0.3675	0.3669	49.8505	3.7334
66	24:31:50	0.3678	0.3672	49.8913	3.7296
67	24:41:26	0.3678	0.3672	49.8913	3.7296

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

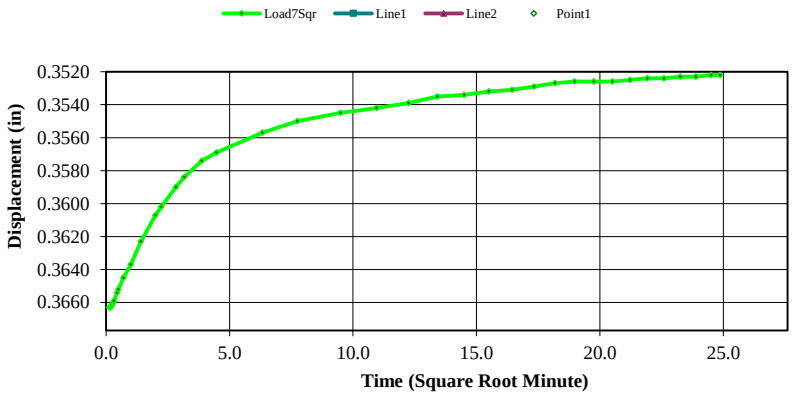
Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 6 Apr 15
Test Number:

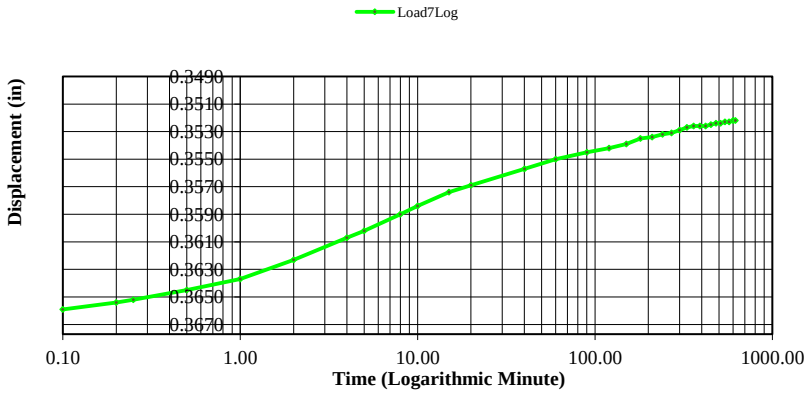
Sample Number:
Soil Description:
Boring Number: 4
Peat (PT)
Depth: 0 - 2 feet
Remarks:
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3678	0.3672	49.8913	3.7296
1	00:00:01	0.3663	0.3657	49.6875	3.7488
2	00:00:02	0.3663	0.3657	49.6875	3.7488
3	00:00:03	0.3662	0.3656	49.6739	3.7501
4	00:00:04	0.3661	0.3655	49.6603	3.7514
5	00:00:05	0.3660	0.3654	49.6467	3.7526
6	00:00:06	0.3659	0.3653	49.6331	3.7539
7	00:00:12	0.3654	0.3648	49.5652	3.7603
8	00:00:15	0.3652	0.3646	49.5380	3.7629
9	00:00:30	0.3645	0.3639	49.4429	3.7719
10	00:01:00	0.3637	0.3631	49.3342	3.7821
11	00:02:00	0.3623	0.3617	49.1440	3.8001
12	00:04:00	0.3607	0.3601	48.9266	3.8206
13	00:05:00	0.3602	0.3596	48.8587	3.8270
14	00:08:00	0.3590	0.3584	48.6957	3.8424
15	00:10:00	0.3584	0.3578	48.6141	3.8501
16	00:15:01	0.3574	0.3568	48.4783	3.8629
17	00:20:01	0.3569	0.3563	48.4103	3.8693
18	00:40:03	0.3557	0.3551	48.2473	3.8847
19	01:00:04	0.3550	0.3544	48.1522	3.8937
20	01:30:06	0.3545	0.3539	48.0842	3.9001
21	02:00:09	0.3542	0.3536	48.0435	3.9040
22	02:30:11	0.3539	0.3533	48.0027	3.9078
23	03:00:13	0.3535	0.3529	47.9484	3.9129
24	03:30:16	0.3534	0.3528	47.9348	3.9142
25	04:00:18	0.3532	0.3526	47.9076	3.9168
26	04:30:20	0.3531	0.3525	47.8940	3.9181
27	05:00:22	0.3529	0.3523	47.8668	3.9206
28	05:30:25	0.3527	0.3521	47.8397	3.9232
29	06:00:27	0.3526	0.3520	47.8261	3.9245
30	06:30:29	0.3526	0.3520	47.8261	3.9245
31	07:00:31	0.3526	0.3520	47.8261	3.9245
32	07:30:33	0.3525	0.3519	47.8125	3.9258
33	08:00:36	0.3524	0.3518	47.7989	3.9270
34	08:30:38	0.3524	0.3518	47.7989	3.9270
35	09:00:40	0.3523	0.3517	47.7853	3.9283

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:42	0.3523	0.3517	47.7853	3.9283
37	10:00:45	0.3522	0.3516	47.7717	3.9296
38	10:18:20	0.3522	0.3516	47.7717	3.9296

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

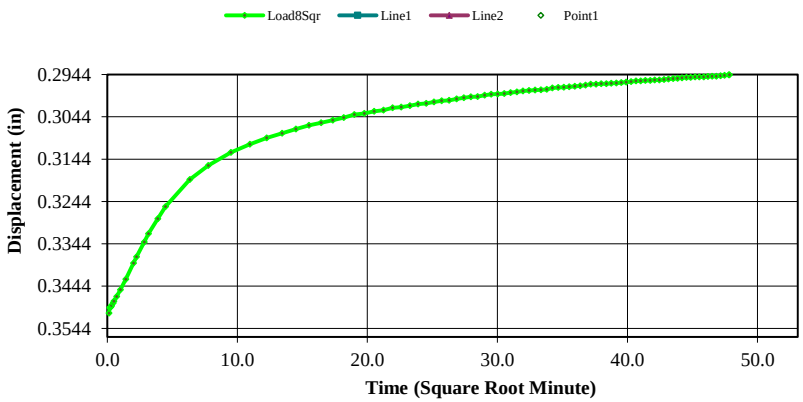
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

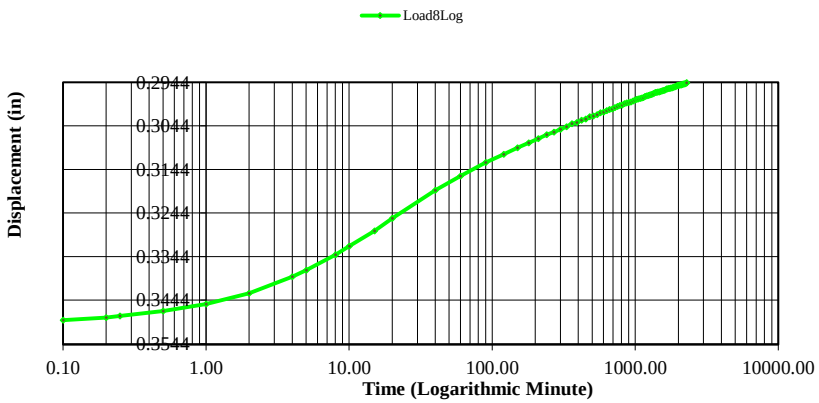
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3522	0.3516	47.7717	3.9296
1	00:00:01	0.3508	0.3502	47.5815	3.9476
2	00:00:02	0.3495	0.3489	47.4049	3.9642
3	00:00:03	0.3494	0.3488	47.3913	3.9655
4	00:00:04	0.3493	0.3487	47.3777	3.9668
5	00:00:05	0.3492	0.3486	47.3641	3.9681
6	00:00:06	0.3490	0.3484	47.3370	3.9706
7	00:00:12	0.3484	0.3478	47.2554	3.9783
8	00:00:15	0.3480	0.3474	47.2011	3.9835
9	00:00:30	0.3469	0.3463	47.0516	3.9976
10	00:01:00	0.3453	0.3447	46.8342	4.0181
11	00:02:00	0.3428	0.3422	46.4946	4.0502
12	00:04:00	0.3390	0.3384	45.9783	4.0989
13	00:05:01	0.3375	0.3369	45.7745	4.1181
14	00:08:01	0.3340	0.3334	45.2989	4.1630
15	00:10:01	0.3320	0.3314	45.0272	4.1887
16	00:15:01	0.3285	0.3279	44.5516	4.2335
17	00:20:02	0.3256	0.3250	44.1576	4.2707
18	00:40:03	0.3192	0.3186	43.2880	4.3528
19	01:00:05	0.3159	0.3153	42.8397	4.3951
20	01:30:07	0.3128	0.3122	42.4185	4.4349
21	02:00:09	0.3109	0.3103	42.1603	4.4592
22	02:30:11	0.3094	0.3088	41.9565	4.4785
23	03:00:14	0.3083	0.3077	41.8071	4.4926
24	03:30:16	0.3073	0.3067	41.6712	4.5054
25	04:00:18	0.3064	0.3058	41.5489	4.5170
26	04:30:21	0.3058	0.3052	41.4674	4.5247
27	05:00:23	0.3052	0.3046	41.3859	4.5323
28	05:30:25	0.3046	0.3040	41.3043	4.5400
29	06:00:27	0.3039	0.3033	41.2092	4.5490
30	06:30:30	0.3036	0.3030	41.1685	4.5529
31	07:00:32	0.3031	0.3025	41.1005	4.5593
32	07:30:34	0.3028	0.3022	41.0598	4.5631
33	08:00:36	0.3023	0.3017	40.9918	4.5695
34	08:30:39	0.3021	0.3015	40.9647	4.5721
35	09:00:41	0.3018	0.3012	40.9239	4.5759

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.3014	0.3008	40.8696	4.5811
37	10:00:46	0.3012	0.3006	40.8424	4.5836
38	10:30:48	0.3009	0.3003	40.8016	4.5875
39	11:00:50	0.3006	0.3000	40.7609	4.5913
40	11:30:52	0.3005	0.2999	40.7473	4.5926
41	12:00:55	0.3002	0.2996	40.7065	4.5965
42	12:30:57	0.2999	0.2993	40.6658	4.6003
43	13:00:59	0.2997	0.2991	40.6386	4.6029
44	13:31:01	0.2996	0.2990	40.6250	4.6042
45	14:01:04	0.2993	0.2987	40.5842	4.6080
46	14:31:06	0.2991	0.2985	40.5571	4.6106
47	15:01:08	0.2990	0.2984	40.5435	4.6119
48	15:31:10	0.2989	0.2983	40.5299	4.6131
49	16:01:13	0.2987	0.2981	40.5027	4.6157
50	16:31:15	0.2985	0.2979	40.4755	4.6183
51	17:01:17	0.2983	0.2977	40.4484	4.6208
52	17:31:19	0.2982	0.2976	40.4348	4.6221
53	18:01:22	0.2981	0.2975	40.4212	4.6234
54	18:31:24	0.2980	0.2974	40.4076	4.6247
55	19:01:26	0.2979	0.2973	40.3940	4.6260
56	19:31:29	0.2976	0.2970	40.3533	4.6298
57	20:01:31	0.2975	0.2969	40.3397	4.6311
58	20:31:33	0.2974	0.2968	40.3261	4.6324
59	21:01:35	0.2973	0.2967	40.3125	4.6337
60	21:31:38	0.2972	0.2966	40.2989	4.6349
61	22:01:40	0.2971	0.2965	40.2853	4.6362
62	22:31:42	0.2969	0.2963	40.2582	4.6388
63	23:01:44	0.2967	0.2961	40.2310	4.6414
64	23:31:47	0.2967	0.2961	40.2310	4.6414
65	24:01:49	0.2966	0.2960	40.2174	4.6426
66	24:31:51	0.2966	0.2960	40.2174	4.6426
67	25:01:53	0.2965	0.2959	40.2038	4.6439
68	25:31:56	0.2964	0.2958	40.1902	4.6452
69	26:01:58	0.2963	0.2957	40.1766	4.6465
70	26:32:00	0.2962	0.2956	40.1630	4.6478
71	27:02:02	0.2961	0.2955	40.1495	4.6490
72	27:32:05	0.2959	0.2953	40.1223	4.6516
73	28:02:07	0.2959	0.2953	40.1223	4.6516
74	28:32:09	0.2958	0.2952	40.1087	4.6529
75	29:02:12	0.2958	0.2952	40.1087	4.6529
76	29:32:14	0.2957	0.2951	40.0951	4.6542
77	30:02:16	0.2957	0.2951	40.0951	4.6542
78	30:32:18	0.2956	0.2950	40.0815	4.6555
79	31:02:21	0.2955	0.2949	40.0679	4.6567
80	31:32:23	0.2954	0.2948	40.0543	4.6580
81	32:02:25	0.2953	0.2947	40.0408	4.6593
82	32:32:27	0.2952	0.2946	40.0272	4.6606
83	33:02:30	0.2951	0.2945	40.0136	4.6619
84	33:32:32	0.2951	0.2945	40.0136	4.6619
85	34:02:34	0.2950	0.2944	40.0000	4.6632
86	34:32:36	0.2950	0.2944	40.0000	4.6632

87	35:02:39	0.2950	0.2944	40.0000	4.6632
88	35:32:41	0.2949	0.2943	39.9864	4.6644
89	36:02:43	0.2948	0.2942	39.9728	4.6657
90	36:32:46	0.2948	0.2942	39.9728	4.6657
91	37:02:48	0.2947	0.2941	39.9592	4.6670
92	37:32:50	0.2946	0.2940	39.9456	4.6683
93	38:02:52	0.2945	0.2939	39.9321	4.6696
94	38:09:06	0.2945	0.2939	39.9321	4.6696

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

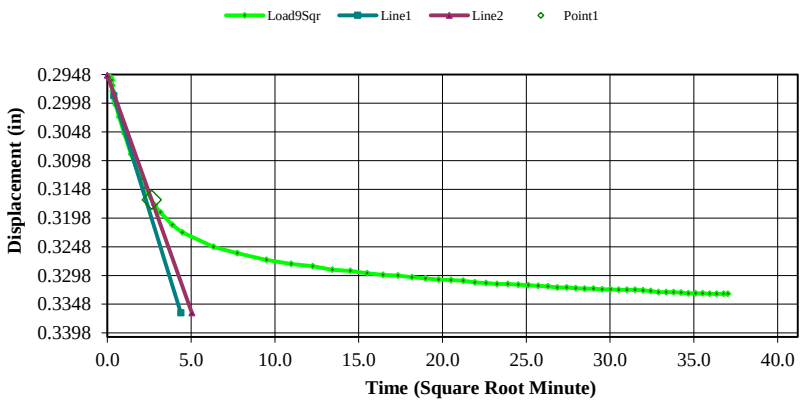
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

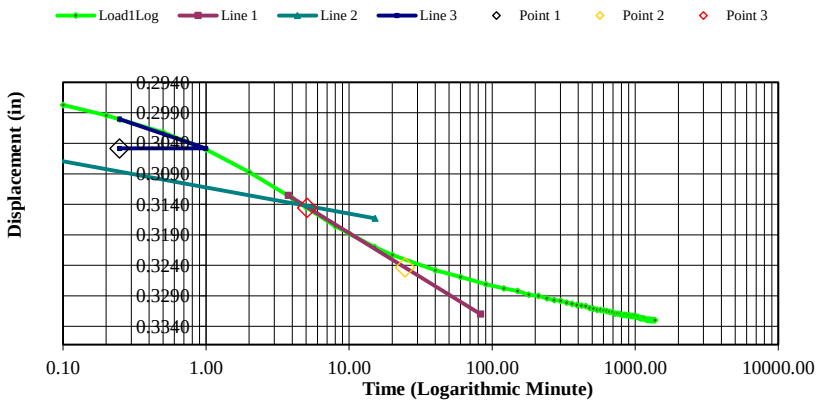
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2945	0.2939	39.9321	4.6696
1	00:00:01	0.2953	0.2947	40.0408	4.6593
2	00:00:02	0.2954	0.2948	40.0543	4.6580
3	00:00:03	0.2954	0.2948	40.0543	4.6580
4	00:00:04	0.2958	0.2952	40.1087	4.6529
5	00:00:05	0.2967	0.2961	40.2310	4.6414
6	00:00:06	0.2977	0.2971	40.3668	4.6285
7	00:00:12	0.2994	0.2988	40.5978	4.6067
8	00:00:15	0.3001	0.2995	40.6929	4.5977
9	00:00:30	0.3022	0.3016	40.9783	4.5708
10	00:01:00	0.3050	0.3044	41.3587	4.5349
11	00:02:00	0.3087	0.3081	41.8614	4.4875
12	00:04:00	0.3130	0.3124	42.4457	4.4323
13	00:05:00	0.3145	0.3139	42.6495	4.4131
14	00:08:00	0.3176	0.3170	43.0706	4.3733
15	00:10:00	0.3188	0.3182	43.2337	4.3579
16	00:15:01	0.3210	0.3204	43.5326	4.3297
17	00:20:01	0.3223	0.3217	43.7092	4.3131
18	00:40:02	0.3248	0.3242	44.0489	4.2810
19	01:00:04	0.3259	0.3253	44.1984	4.2669
20	01:30:06	0.3271	0.3265	44.3614	4.2515
21	02:00:09	0.3278	0.3272	44.4565	4.2425
22	02:30:11	0.3282	0.3276	44.5109	4.2374
23	03:00:13	0.3288	0.3282	44.5924	4.2297
24	03:30:15	0.3290	0.3284	44.6196	4.2271
25	04:00:18	0.3294	0.3288	44.6739	4.2220
26	04:30:20	0.3297	0.3291	44.7147	4.2182
27	05:00:22	0.3298	0.3292	44.7283	4.2169
28	05:30:24	0.3301	0.3295	44.7690	4.2130
29	06:00:27	0.3303	0.3297	44.7962	4.2105
30	06:30:29	0.3305	0.3299	44.8234	4.2079
31	07:00:31	0.3306	0.3300	44.8370	4.2066
32	07:30:34	0.3307	0.3301	44.8505	4.2053
33	08:00:36	0.3310	0.3304	44.8913	4.2015
34	08:30:38	0.3311	0.3305	44.9049	4.2002
35	09:00:40	0.3313	0.3307	44.9321	4.1976

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:42	0.3313	0.3307	44.9321	4.1976
37	10:00:45	0.3314	0.3308	44.9456	4.1964
38	10:30:47	0.3315	0.3309	44.9592	4.1951
39	11:00:49	0.3316	0.3310	44.9728	4.1938
40	11:30:52	0.3317	0.3311	44.9864	4.1925
41	12:00:54	0.3319	0.3313	45.0136	4.1899
42	12:30:56	0.3319	0.3313	45.0136	4.1899
43	13:00:58	0.3320	0.3314	45.0272	4.1887
44	13:31:01	0.3321	0.3315	45.0408	4.1874
45	14:01:03	0.3321	0.3315	45.0408	4.1874
46	14:31:05	0.3322	0.3316	45.0543	4.1861
47	15:01:07	0.3322	0.3316	45.0543	4.1861
48	15:31:10	0.3323	0.3317	45.0679	4.1848
49	16:01:12	0.3323	0.3317	45.0679	4.1848
50	16:31:14	0.3323	0.3317	45.0679	4.1848
51	17:01:16	0.3324	0.3318	45.0815	4.1835
52	17:31:19	0.3325	0.3319	45.0951	4.1822
53	18:01:21	0.3327	0.3321	45.1223	4.1797
54	18:31:23	0.3327	0.3321	45.1223	4.1797
55	19:01:25	0.3327	0.3321	45.1223	4.1797
56	19:31:28	0.3328	0.3322	45.1359	4.1784
57	20:01:30	0.3329	0.3323	45.1495	4.1771
58	20:31:32	0.3329	0.3323	45.1495	4.1771
59	21:01:34	0.3329	0.3323	45.1495	4.1771
60	21:31:37	0.3330	0.3324	45.1630	4.1758
61	22:01:39	0.3330	0.3324	45.1630	4.1758
62	22:31:41	0.3330	0.3324	45.1630	4.1758
63	22:50:04	0.3330	0.3324	45.1630	4.1758

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

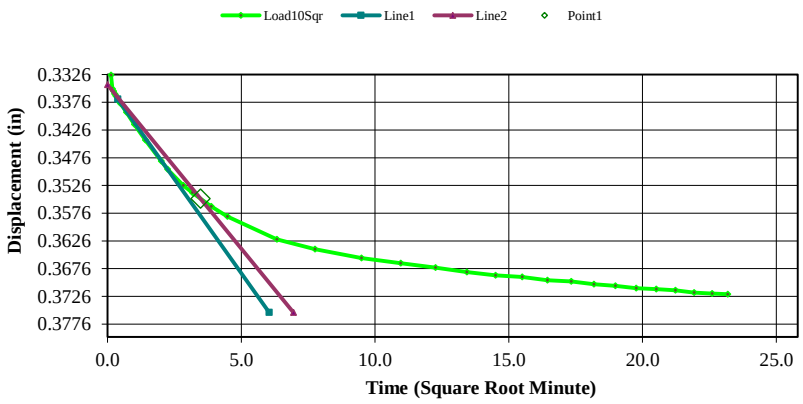
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

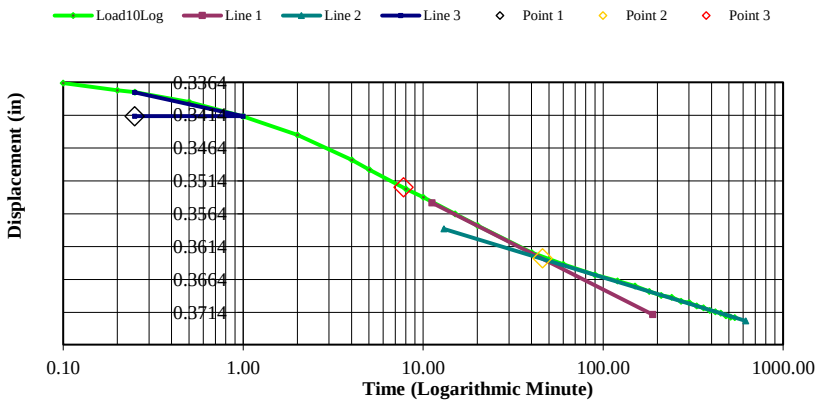
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3330	0.3324	45.1630	4.1758
1	00:00:01	0.3327	0.3321	45.1223	4.1797
2	00:00:02	0.3352	0.3346	45.4620	4.1476
3	00:00:03	0.3356	0.3350	45.5163	4.1425
4	00:00:04	0.3361	0.3355	45.5842	4.1361
5	00:00:05	0.3362	0.3356	45.5978	4.1348
6	00:00:06	0.3365	0.3359	45.6386	4.1309
7	00:00:12	0.3376	0.3370	45.7880	4.1168
8	00:00:15	0.3379	0.3373	45.8288	4.1130
9	00:00:30	0.3394	0.3388	46.0326	4.0938
10	00:01:00	0.3416	0.3410	46.3315	4.0655
11	00:02:00	0.3444	0.3438	46.7120	4.0296
12	00:04:01	0.3482	0.3476	47.2283	3.9809
13	00:05:01	0.3497	0.3491	47.4321	3.9617
14	00:08:01	0.3526	0.3520	47.8261	3.9245
15	00:10:01	0.3539	0.3533	48.0027	3.9078
16	00:15:02	0.3564	0.3558	48.3424	3.8757
17	00:20:02	0.3582	0.3576	48.5870	3.8527
18	00:40:03	0.3623	0.3617	49.1440	3.8001
19	01:00:05	0.3641	0.3635	49.3886	3.7770
20	01:30:07	0.3657	0.3651	49.6060	3.7565
21	02:00:10	0.3666	0.3660	49.7283	3.7449
22	02:30:12	0.3674	0.3668	49.8370	3.7347
23	03:00:14	0.3682	0.3676	49.9457	3.7244
24	03:30:16	0.3688	0.3682	50.0272	3.7167
25	04:00:19	0.3691	0.3685	50.0679	3.7129
26	04:30:21	0.3697	0.3691	50.1495	3.7052
27	05:00:23	0.3699	0.3693	50.1766	3.7026
28	05:30:25	0.3704	0.3698	50.2446	3.6962
29	06:00:28	0.3707	0.3701	50.2853	3.6924
30	06:30:30	0.3711	0.3705	50.3397	3.6872
31	07:00:32	0.3713	0.3707	50.3668	3.6847
32	07:30:34	0.3715	0.3709	50.3940	3.6821
33	08:00:37	0.3719	0.3713	50.4484	3.6770
34	08:30:39	0.3721	0.3715	50.4755	3.6744
35	08:57:32	0.3722	0.3716	50.4891	3.6731

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

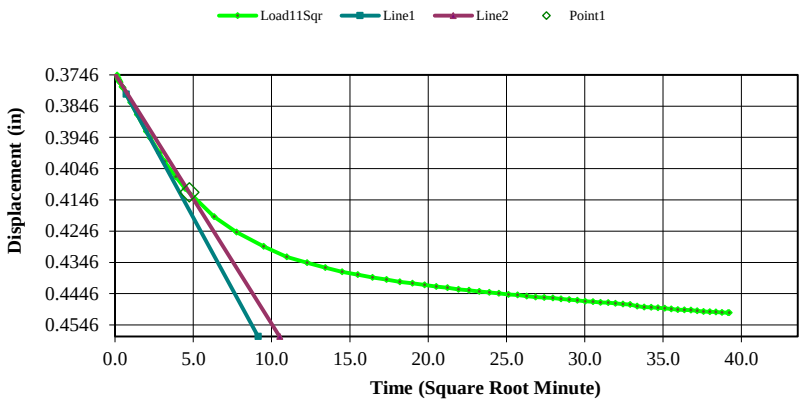
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

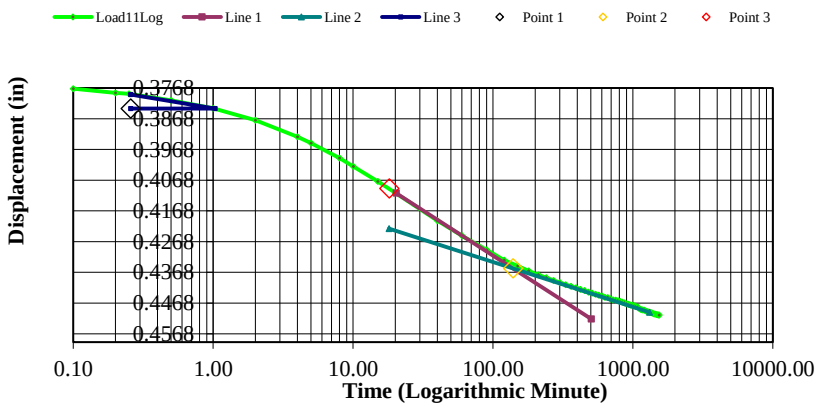
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3722	0.3716	50.4891	3.6731
1	00:00:01	0.3747	0.3741	50.8288	3.6411
2	00:00:02	0.3755	0.3749	50.9375	3.6308
3	00:00:03	0.3761	0.3755	51.0190	3.6231
4	00:00:04	0.3764	0.3758	51.0598	3.6193
5	00:00:05	0.3768	0.3762	51.1141	3.6141
6	00:00:06	0.3770	0.3764	51.1413	3.6116
7	00:00:12	0.3784	0.3778	51.3315	3.5936
8	00:00:15	0.3787	0.3781	51.3723	3.5898
9	00:00:30	0.3808	0.3802	51.6576	3.5628
10	00:01:00	0.3834	0.3828	52.0109	3.5295
11	00:02:00	0.3873	0.3867	52.5408	3.4795
12	00:04:00	0.3927	0.3921	53.2745	3.4102
13	00:05:00	0.3947	0.3941	53.5462	3.3846
14	00:08:00	0.3996	0.3990	54.2120	3.3217
15	00:10:01	0.4023	0.4017	54.5788	3.2871
16	00:15:01	0.4072	0.4066	55.2446	3.2243
17	00:20:01	0.4109	0.4103	55.7473	3.1768
18	00:40:03	0.4200	0.4194	56.9837	3.0601
19	01:00:04	0.4249	0.4243	57.6495	2.9973
20	01:30:06	0.4295	0.4289	58.2745	2.9383
21	02:00:09	0.4328	0.4322	58.7228	2.8960
22	02:30:11	0.4347	0.4341	58.9810	2.8716
23	03:00:13	0.4363	0.4357	59.1984	2.8511
24	03:30:16	0.4376	0.4370	59.3750	2.8344
25	04:00:18	0.4385	0.4379	59.4973	2.8229
26	04:30:20	0.4394	0.4388	59.6196	2.8113
27	05:00:22	0.4401	0.4395	59.7147	2.8024
28	05:30:25	0.4408	0.4402	59.8098	2.7934
29	06:00:27	0.4413	0.4407	59.8777	2.7870
30	06:30:29	0.4418	0.4412	59.9456	2.7806
31	07:00:31	0.4423	0.4417	60.0136	2.7742
32	07:30:34	0.4427	0.4421	60.0679	2.7690
33	08:00:36	0.4432	0.4426	60.1359	2.7626
34	08:30:38	0.4435	0.4429	60.1766	2.7588
35	09:00:41	0.4439	0.4433	60.2310	2.7536

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.4442	0.4436	60.2717	2.7498
37	10:00:45	0.4445	0.4439	60.3125	2.7459
38	10:30:47	0.4449	0.4443	60.3668	2.7408
39	11:00:50	0.4450	0.4444	60.3804	2.7395
40	11:30:52	0.4454	0.4448	60.4348	2.7344
41	12:00:54	0.4457	0.4451	60.4755	2.7306
42	12:30:56	0.4458	0.4452	60.4891	2.7293
43	13:00:59	0.4460	0.4454	60.5163	2.7267
44	13:31:01	0.4463	0.4457	60.5571	2.7229
45	14:01:03	0.4465	0.4459	60.5842	2.7203
46	14:31:06	0.4467	0.4461	60.6114	2.7177
47	15:01:08	0.4470	0.4464	60.6522	2.7139
48	15:31:10	0.4472	0.4466	60.6793	2.7113
49	16:01:12	0.4474	0.4468	60.7065	2.7087
50	16:31:15	0.4475	0.4469	60.7201	2.7075
51	17:01:17	0.4477	0.4471	60.7473	2.7049
52	17:31:19	0.4479	0.4473	60.7745	2.7023
53	18:01:21	0.4481	0.4475	60.8016	2.6998
54	18:31:24	0.4486	0.4480	60.8696	2.6934
55	19:01:26	0.4489	0.4483	60.9103	2.6895
56	19:31:28	0.4490	0.4484	60.9239	2.6882
57	20:01:30	0.4491	0.4485	60.9375	2.6869
58	20:31:33	0.4493	0.4487	60.9647	2.6844
59	21:01:35	0.4495	0.4489	60.9918	2.6818
60	21:31:37	0.4497	0.4491	61.0190	2.6793
61	22:01:39	0.4498	0.4492	61.0326	2.6780
62	22:31:42	0.4499	0.4493	61.0462	2.6767
63	23:01:44	0.4501	0.4495	61.0734	2.6741
64	23:31:46	0.4503	0.4497	61.1005	2.6716
65	24:01:48	0.4504	0.4498	61.1141	2.6703
66	24:31:51	0.4505	0.4499	61.1277	2.6690
67	25:01:53	0.4506	0.4500	61.1413	2.6677
68	25:31:55	0.4507	0.4501	61.1549	2.6664
69	25:37:56	0.4507	0.4501	61.1549	2.6664

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

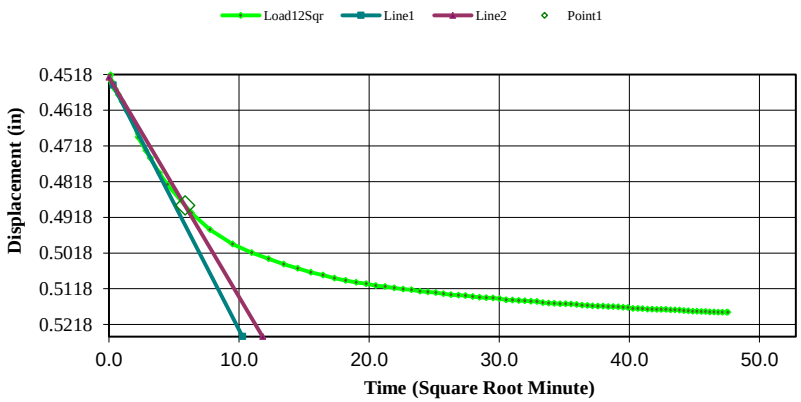
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

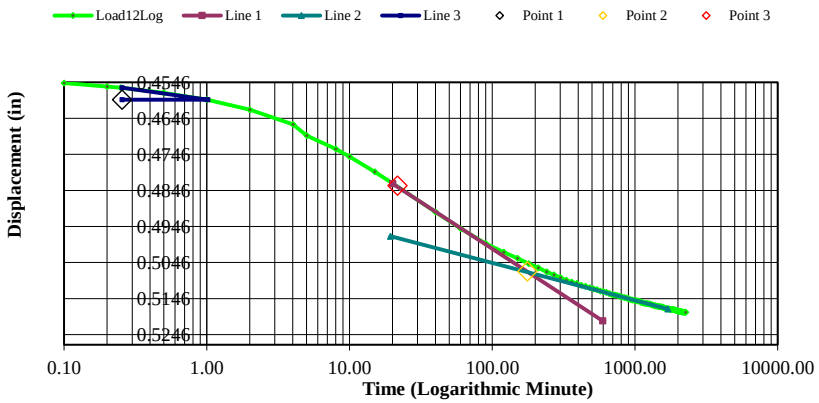
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4507	0.4501	61.1549	2.6664
1	00:00:01	0.4519	0.4513	61.3179	2.6510
2	00:00:02	0.4537	0.4531	61.5625	2.6280
3	00:00:03	0.4541	0.4535	61.6168	2.6228
4	00:00:04	0.4544	0.4538	61.6576	2.6190
5	00:00:05	0.4546	0.4540	61.6848	2.6164
6	00:00:06	0.4548	0.4542	61.7120	2.6139
7	00:00:12	0.4558	0.4552	61.8478	2.6010
8	00:00:15	0.4561	0.4555	61.8886	2.5972
9	00:00:30	0.4575	0.4569	62.0788	2.5792
10	00:01:00	0.4594	0.4588	62.3370	2.5549
11	00:02:00	0.4622	0.4616	62.7174	2.5190
12	00:04:01	0.4663	0.4657	63.2745	2.4664
13	00:05:01	0.4694	0.4688	63.6957	2.4266
14	00:08:01	0.4731	0.4725	64.1984	2.3792
15	00:10:01	0.4752	0.4746	64.4837	2.3522
16	00:15:01	0.4794	0.4788	65.0543	2.2984
17	00:20:02	0.4826	0.4820	65.4891	2.2573
18	00:40:03	0.4906	0.4900	66.5761	2.1547
19	01:00:05	0.4952	0.4946	67.2011	2.0958
20	01:30:07	0.4993	0.4987	67.7581	2.0432
21	02:00:09	0.5017	0.5011	68.0842	2.0124
22	02:30:11	0.5034	0.5028	68.3152	1.9906
23	03:00:14	0.5049	0.5043	68.5190	1.9714
24	03:30:16	0.5061	0.5055	68.6821	1.9560
25	04:00:18	0.5072	0.5066	68.8315	1.9419
26	04:30:21	0.5080	0.5074	68.9402	1.9316
27	05:00:23	0.5088	0.5082	69.0489	1.9213
28	05:30:25	0.5095	0.5089	69.1440	1.9124
29	06:00:27	0.5100	0.5094	69.2120	1.9060
30	06:30:30	0.5104	0.5098	69.2663	1.9008
31	07:00:32	0.5109	0.5103	69.3342	1.8944
32	07:30:34	0.5112	0.5106	69.3750	1.8906
33	08:00:36	0.5116	0.5110	69.4293	1.8854
34	08:30:39	0.5119	0.5113	69.4701	1.8816
35	09:00:41	0.5121	0.5115	69.4973	1.8790

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.5125	0.5119	69.5516	1.8739
37	10:00:45	0.5127	0.5121	69.5788	1.8713
38	10:30:48	0.5129	0.5123	69.6060	1.8688
39	11:00:50	0.5132	0.5126	69.6467	1.8649
40	11:30:52	0.5135	0.5129	69.6875	1.8611
41	12:00:54	0.5136	0.5130	69.7011	1.8598
42	12:30:57	0.5137	0.5131	69.7147	1.8585
43	13:00:59	0.5140	0.5134	69.7554	1.8547
44	13:31:01	0.5142	0.5136	69.7826	1.8521
45	14:01:03	0.5143	0.5137	69.7962	1.8508
46	14:31:06	0.5144	0.5138	69.8098	1.8495
47	15:01:08	0.5146	0.5140	69.8370	1.8470
48	15:31:10	0.5149	0.5143	69.8777	1.8431
49	16:01:13	0.5150	0.5144	69.8913	1.8418
50	16:31:15	0.5151	0.5145	69.9049	1.8406
51	17:01:17	0.5152	0.5146	69.9185	1.8393
52	17:31:19	0.5153	0.5147	69.9321	1.8380
53	18:01:22	0.5154	0.5148	69.9456	1.8367
54	18:31:24	0.5157	0.5151	69.9864	1.8329
55	19:01:26	0.5158	0.5152	70.0000	1.8316
56	19:31:28	0.5159	0.5153	70.0136	1.8303
57	20:01:31	0.5160	0.5154	70.0272	1.8290
58	20:31:33	0.5160	0.5154	70.0272	1.8290
59	21:01:35	0.5161	0.5155	70.0408	1.8277
60	21:31:37	0.5162	0.5156	70.0544	1.8264
61	22:01:40	0.5164	0.5158	70.0815	1.8239
62	22:31:42	0.5165	0.5159	70.0951	1.8226
63	23:01:44	0.5166	0.5160	70.1087	1.8213
64	23:31:46	0.5167	0.5161	70.1223	1.8200
65	24:01:49	0.5167	0.5161	70.1223	1.8200
66	24:31:51	0.5168	0.5162	70.1359	1.8188
67	25:01:53	0.5168	0.5162	70.1359	1.8188
68	25:31:55	0.5169	0.5163	70.1495	1.8175
69	26:01:58	0.5170	0.5164	70.1630	1.8162
70	26:32:00	0.5171	0.5165	70.1766	1.8149
71	27:02:02	0.5173	0.5167	70.2038	1.8123
72	27:32:04	0.5173	0.5167	70.2038	1.8123
73	28:02:07	0.5174	0.5168	70.2174	1.8111
74	28:32:09	0.5175	0.5169	70.2310	1.8098
75	29:02:11	0.5175	0.5169	70.2310	1.8098
76	29:32:14	0.5176	0.5170	70.2446	1.8085
77	30:02:16	0.5176	0.5170	70.2446	1.8085
78	30:32:18	0.5176	0.5170	70.2446	1.8085
79	31:02:20	0.5177	0.5171	70.2582	1.8072
80	31:32:23	0.5177	0.5171	70.2582	1.8072
81	32:02:25	0.5178	0.5172	70.2717	1.8059
82	32:32:27	0.5179	0.5173	70.2853	1.8046
83	33:02:29	0.5180	0.5174	70.2989	1.8034
84	33:32:32	0.5181	0.5175	70.3125	1.8021
85	34:02:34	0.5181	0.5175	70.3125	1.8021
86	34:32:36	0.5182	0.5176	70.3261	1.8008

87	35:02:38	0.5182	0.5176	70.3261	1.8008
88	35:32:41	0.5183	0.5177	70.3397	1.7995
89	36:02:43	0.5183	0.5177	70.3397	1.7995
90	36:32:45	0.5184	0.5178	70.3533	1.7982
91	37:02:47	0.5184	0.5178	70.3533	1.7982
92	37:32:50	0.5184	0.5178	70.3533	1.7982
93	37:42:51	0.5184	0.5178	70.3533	1.7982

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

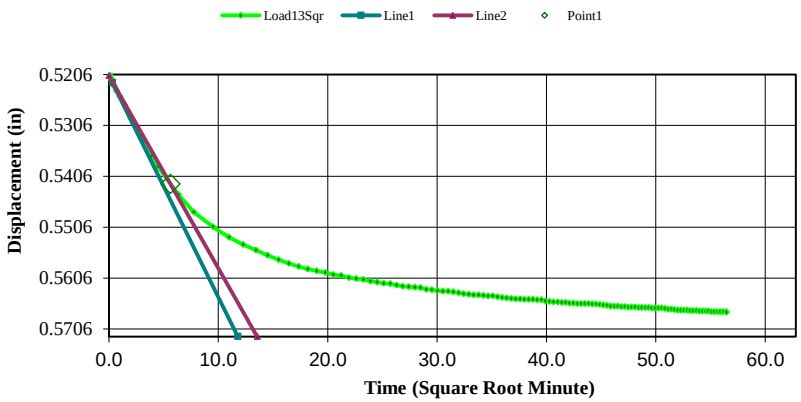
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

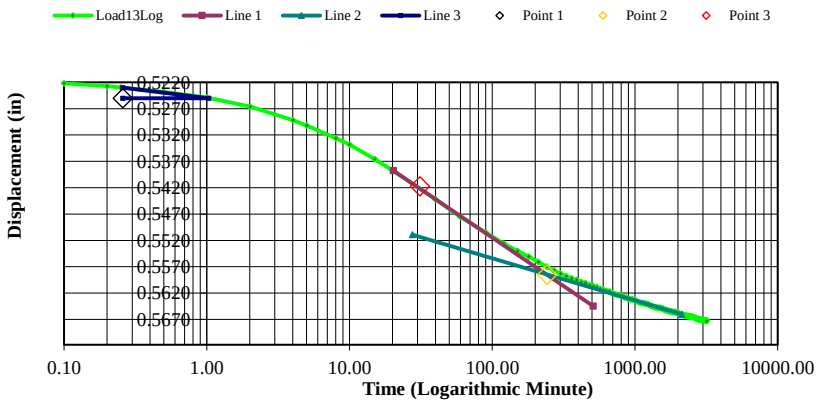
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.5184	0.5178	70.3533	1.7982
1	00:00:01	0.5208	0.5202	70.6794	1.7675
2	00:00:02	0.5214	0.5208	70.7609	1.7598
3	00:00:03	0.5216	0.5210	70.7880	1.7572
4	00:00:04	0.5218	0.5212	70.8152	1.7546
5	00:00:05	0.5221	0.5215	70.8560	1.7508
6	00:00:06	0.5222	0.5216	70.8696	1.7495
7	00:00:12	0.5227	0.5221	70.9375	1.7431
8	00:00:15	0.5230	0.5224	70.9783	1.7392
9	00:00:30	0.5238	0.5232	71.0870	1.7290
10	00:01:00	0.5249	0.5243	71.2364	1.7149
11	00:02:01	0.5266	0.5260	71.4674	1.6931
12	00:04:01	0.5292	0.5286	71.8206	1.6597
13	00:05:01	0.5302	0.5296	71.9565	1.6469
14	00:08:01	0.5326	0.5320	72.2826	1.6161
15	00:10:01	0.5338	0.5332	72.4457	1.6007
16	00:15:02	0.5366	0.5360	72.8261	1.5648
17	00:20:02	0.5387	0.5381	73.1114	1.5379
18	00:40:03	0.5442	0.5436	73.8587	1.4674
19	01:00:05	0.5476	0.5470	74.3206	1.4238
20	01:30:07	0.5505	0.5499	74.7147	1.3866
21	02:00:09	0.5526	0.5520	75.0000	1.3596
22	02:30:12	0.5540	0.5534	75.1902	1.3417
23	03:00:14	0.5551	0.5545	75.3397	1.3276
24	03:30:16	0.5561	0.5555	75.4755	1.3148
25	04:00:18	0.5570	0.5564	75.5978	1.3032
26	04:30:21	0.5577	0.5571	75.6929	1.2942
27	05:00:23	0.5583	0.5577	75.7745	1.2865
28	05:30:25	0.5588	0.5582	75.8424	1.2801
29	06:00:28	0.5592	0.5586	75.8967	1.2750
30	06:30:30	0.5595	0.5589	75.9375	1.2712
31	07:00:32	0.5599	0.5593	75.9919	1.2660
32	07:30:34	0.5601	0.5595	76.0190	1.2635
33	08:00:37	0.5605	0.5599	76.0734	1.2583
34	08:30:39	0.5607	0.5601	76.1005	1.2558
35	09:00:41	0.5609	0.5603	76.1277	1.2532

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.5612	0.5606	76.1685	1.2494
37	10:00:46	0.5614	0.5608	76.1956	1.2468
38	10:30:48	0.5616	0.5610	76.2228	1.2442
39	11:00:50	0.5617	0.5611	76.2364	1.2429
40	11:30:52	0.5620	0.5614	76.2772	1.2391
41	12:00:55	0.5622	0.5616	76.3044	1.2365
42	12:30:57	0.5623	0.5617	76.3179	1.2353
43	13:00:59	0.5624	0.5618	76.3315	1.2340
44	13:31:02	0.5625	0.5619	76.3451	1.2327
45	14:01:04	0.5628	0.5622	76.3859	1.2288
46	14:31:06	0.5629	0.5623	76.3995	1.2276
47	15:01:08	0.5631	0.5625	76.4266	1.2250
48	15:31:10	0.5632	0.5626	76.4402	1.2237
49	16:01:13	0.5632	0.5626	76.4402	1.2237
50	16:31:15	0.5633	0.5627	76.4538	1.2224
51	17:01:17	0.5635	0.5629	76.4810	1.2199
52	17:31:19	0.5637	0.5631	76.5081	1.2173
53	18:01:22	0.5638	0.5632	76.5217	1.2160
54	18:31:24	0.5639	0.5633	76.5353	1.2147
55	19:01:26	0.5639	0.5633	76.5353	1.2147
56	19:31:29	0.5640	0.5634	76.5489	1.2135
57	20:01:31	0.5641	0.5635	76.5625	1.2122
58	20:31:33	0.5641	0.5635	76.5625	1.2122
59	21:01:35	0.5643	0.5637	76.5897	1.2096
60	21:31:38	0.5644	0.5638	76.6033	1.2083
61	22:01:40	0.5645	0.5639	76.6168	1.2070
62	22:31:42	0.5646	0.5640	76.6304	1.2058
63	23:01:44	0.5647	0.5641	76.6440	1.2045
64	23:31:47	0.5647	0.5641	76.6440	1.2045
65	24:01:49	0.5648	0.5642	76.6576	1.2032
66	24:31:51	0.5648	0.5642	76.6576	1.2032
67	25:01:53	0.5648	0.5642	76.6576	1.2032
68	25:31:55	0.5649	0.5643	76.6712	1.2019
69	26:01:58	0.5649	0.5643	76.6712	1.2019
70	26:32:00	0.5651	0.5645	76.6984	1.1993
71	27:02:02	0.5652	0.5646	76.7120	1.1981
72	27:32:05	0.5653	0.5647	76.7255	1.1968
73	28:02:07	0.5653	0.5647	76.7255	1.1968
74	28:32:09	0.5654	0.5648	76.7391	1.1955
75	29:02:11	0.5654	0.5648	76.7391	1.1955
76	29:32:14	0.5655	0.5649	76.7527	1.1942
77	30:02:16	0.5655	0.5649	76.7527	1.1942
78	30:32:18	0.5656	0.5650	76.7663	1.1929
79	31:02:20	0.5656	0.5650	76.7663	1.1929
80	31:32:23	0.5656	0.5650	76.7663	1.1929
81	32:02:25	0.5656	0.5650	76.7663	1.1929
82	32:32:27	0.5657	0.5651	76.7799	1.1916
83	33:02:29	0.5657	0.5651	76.7799	1.1916
84	33:32:32	0.5658	0.5652	76.7935	1.1904
85	34:02:34	0.5659	0.5653	76.8071	1.1891
86	34:32:36	0.5660	0.5654	76.8207	1.1878

87	35:02:39	0.5661	0.5655	76.8342	1.1865
88	35:32:41	0.5661	0.5655	76.8342	1.1865
89	36:02:43	0.5661	0.5655	76.8342	1.1865
90	36:32:45	0.5662	0.5656	76.8478	1.1852
91	37:02:48	0.5662	0.5656	76.8478	1.1852
92	37:32:50	0.5663	0.5657	76.8614	1.1840
93	38:02:52	0.5663	0.5657	76.8614	1.1840
94	38:32:55	0.5663	0.5657	76.8614	1.1840
95	39:02:57	0.5664	0.5658	76.8750	1.1827
96	39:32:59	0.5664	0.5658	76.8750	1.1827
97	40:03:01	0.5664	0.5658	76.8750	1.1827
98	40:33:03	0.5664	0.5658	76.8750	1.1827
99	41:03:06	0.5665	0.5659	76.8886	1.1814
100	41:33:08	0.5665	0.5659	76.8886	1.1814
101	42:03:10	0.5665	0.5659	76.8886	1.1814
102	42:33:13	0.5665	0.5659	76.8886	1.1814
103	43:03:15	0.5666	0.5660	76.9022	1.1801
104	43:33:17	0.5667	0.5661	76.9158	1.1788
105	44:03:19	0.5667	0.5661	76.9158	1.1788
106	44:33:22	0.5668	0.5662	76.9294	1.1775
107	45:03:24	0.5669	0.5663	76.9429	1.1763
108	45:33:26	0.5669	0.5663	76.9429	1.1763
109	46:03:28	0.5669	0.5663	76.9429	1.1763
110	46:33:31	0.5669	0.5663	76.9429	1.1763
111	47:03:33	0.5670	0.5664	76.9565	1.1750
112	47:33:35	0.5670	0.5664	76.9565	1.1750
113	48:03:37	0.5670	0.5664	76.9565	1.1750
114	48:33:40	0.5671	0.5665	76.9701	1.1737
115	49:03:42	0.5671	0.5665	76.9701	1.1737
116	49:33:44	0.5671	0.5665	76.9701	1.1737
117	50:03:47	0.5671	0.5665	76.9701	1.1737
118	50:33:49	0.5672	0.5666	76.9837	1.1724
119	51:03:51	0.5672	0.5666	76.9837	1.1724
120	51:33:53	0.5672	0.5666	76.9837	1.1724
121	52:03:56	0.5672	0.5666	76.9837	1.1724
122	52:33:58	0.5672	0.5666	76.9837	1.1724
123	53:04:00	0.5672	0.5666	76.9837	1.1724
124	53:06:18	0.5673	0.5667	76.9973	1.1711

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

Project Number: 16715-040-00

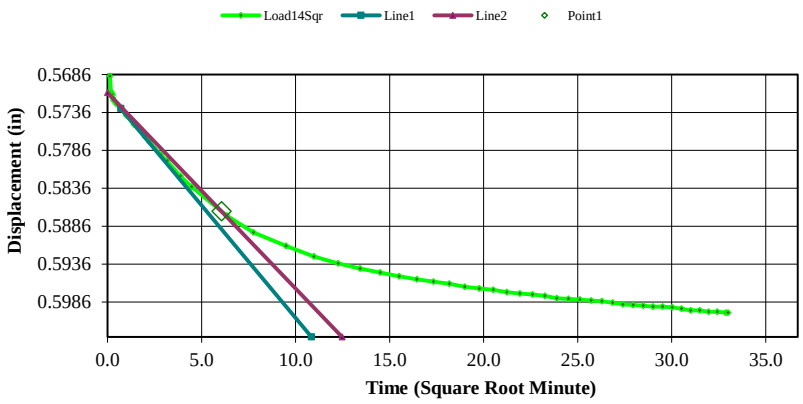
Test Date: 6 Apr 15
Test Number:

Sample Number:
Boring Number: 4
Depth: 0 - 2 feet
Sample Type: Undisturbed

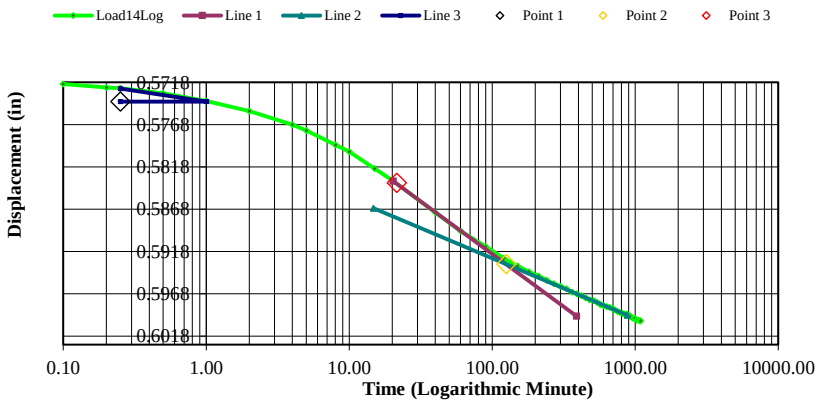
Soil Description:
Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.5673	0.5667	76.9973	1.1711
1	00:00:01	0.5688	0.5682	77.2011	1.1519
2	00:00:02	0.5709	0.5703	77.4864	1.1250
3	00:00:03	0.5711	0.5705	77.5136	1.1224
4	00:00:04	0.5713	0.5707	77.5408	1.1198
5	00:00:05	0.5717	0.5711	77.5951	1.1147
6	00:00:06	0.5720	0.5714	77.6359	1.1109
7	00:00:12	0.5724	0.5718	77.6902	1.1057
8	00:00:15	0.5725	0.5719	77.7038	1.1044
9	00:00:30	0.5731	0.5725	77.7853	1.0968
10	00:01:00	0.5740	0.5734	77.9076	1.0852
11	00:02:00	0.5752	0.5746	78.0706	1.0698
12	00:04:00	0.5768	0.5762	78.2880	1.0493
13	00:05:00	0.5775	0.5769	78.3832	1.0403
14	00:08:01	0.5792	0.5786	78.6141	1.0185
15	00:10:01	0.5800	0.5794	78.7228	1.0083
16	00:15:01	0.5820	0.5814	78.9946	0.9826
17	00:20:02	0.5834	0.5828	79.1848	0.9647
18	00:40:03	0.5872	0.5866	79.7011	0.9159
19	01:00:05	0.5894	0.5888	80.0000	0.8877
20	01:30:07	0.5912	0.5906	80.2446	0.8646
21	02:00:09	0.5926	0.5920	80.4348	0.8467
22	02:30:11	0.5935	0.5929	80.5571	0.8351
23	03:00:14	0.5942	0.5936	80.6522	0.8262
24	03:30:16	0.5947	0.5941	80.7201	0.8197
25	04:00:18	0.5952	0.5946	80.7880	0.8133
26	04:30:20	0.5956	0.5950	80.8424	0.8082
27	05:00:23	0.5959	0.5953	80.8832	0.8044
28	05:30:25	0.5962	0.5956	80.9239	0.8005
29	06:00:27	0.5966	0.5960	80.9783	0.7954
30	06:30:29	0.5968	0.5962	81.0054	0.7928
31	07:00:32	0.5970	0.5964	81.0326	0.7903
32	07:30:34	0.5973	0.5967	81.0734	0.7864
33	08:00:36	0.5975	0.5969	81.1005	0.7838
34	08:30:39	0.5976	0.5970	81.1141	0.7826
35	09:00:41	0.5978	0.5972	81.1413	0.7800

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)

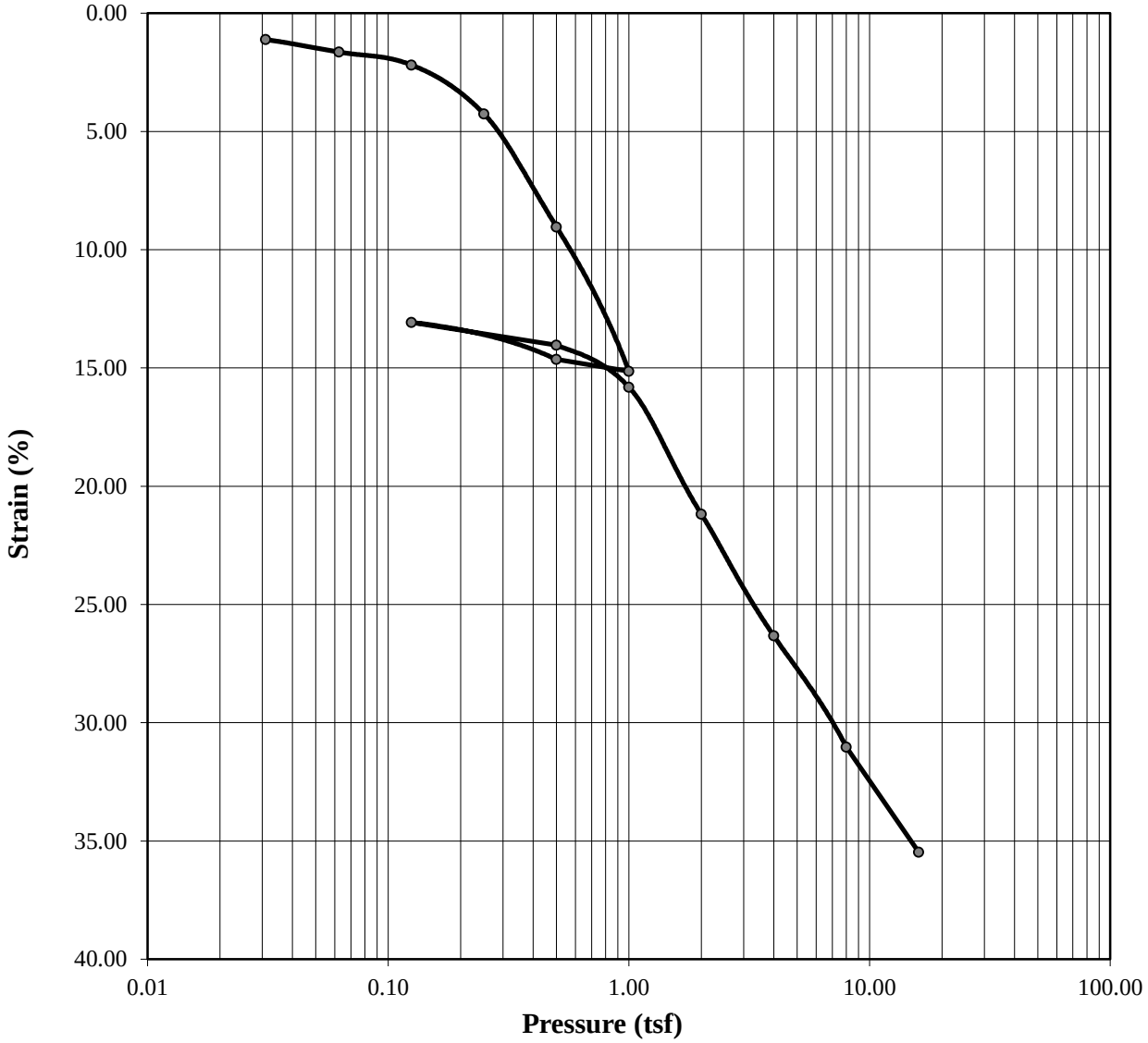


36	09:30:43	0.5981	0.5975	81.1821	0.7761
37	10:00:45	0.5982	0.5976	81.1957	0.7749
38	10:30:47	0.5983	0.5977	81.2092	0.7736
39	11:00:50	0.5984	0.5978	81.2228	0.7723
40	11:30:52	0.5985	0.5979	81.2364	0.7710
41	12:00:54	0.5987	0.5981	81.2636	0.7685
42	12:30:56	0.5989	0.5983	81.2908	0.7659
43	13:00:59	0.5990	0.5984	81.3043	0.7646
44	13:31:01	0.5991	0.5985	81.3179	0.7633
45	14:01:03	0.5992	0.5986	81.3315	0.7620
46	14:31:06	0.5992	0.5986	81.3315	0.7620
47	15:01:08	0.5993	0.5987	81.3451	0.7608
48	15:31:10	0.5995	0.5989	81.3723	0.7582
49	16:01:12	0.5997	0.5991	81.3995	0.7556
50	16:31:15	0.5997	0.5991	81.3995	0.7556
51	17:01:17	0.5999	0.5993	81.4266	0.7531
52	17:31:19	0.5999	0.5993	81.4266	0.7531
53	18:01:21	0.6000	0.5994	81.4402	0.7518
54	18:08:27	0.6000	0.5994	81.4402	0.7518

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	38	**Test Date:**	09 Apr 15
Moisture (%):	42.27	28.05	**Plastic Limits:**	16		
Dry Density (pcf):	75.77	106.72	**Plasticity Index (%):**	22		
Saturation (%):	95.12	136.52				
Void Ratio:	1.1734	0.4025	**Specific Gravity:**	2.635	Measured	

Sample Description: Clay with silt and sand seams (CH)

Project Number: 16715-040-00 **Depth:** 8 - 10 feet **Remarks:**

Sample Number: **Boring Number:** 6

Project: Island Road Marsh Creation and Nourishment (TE-117)

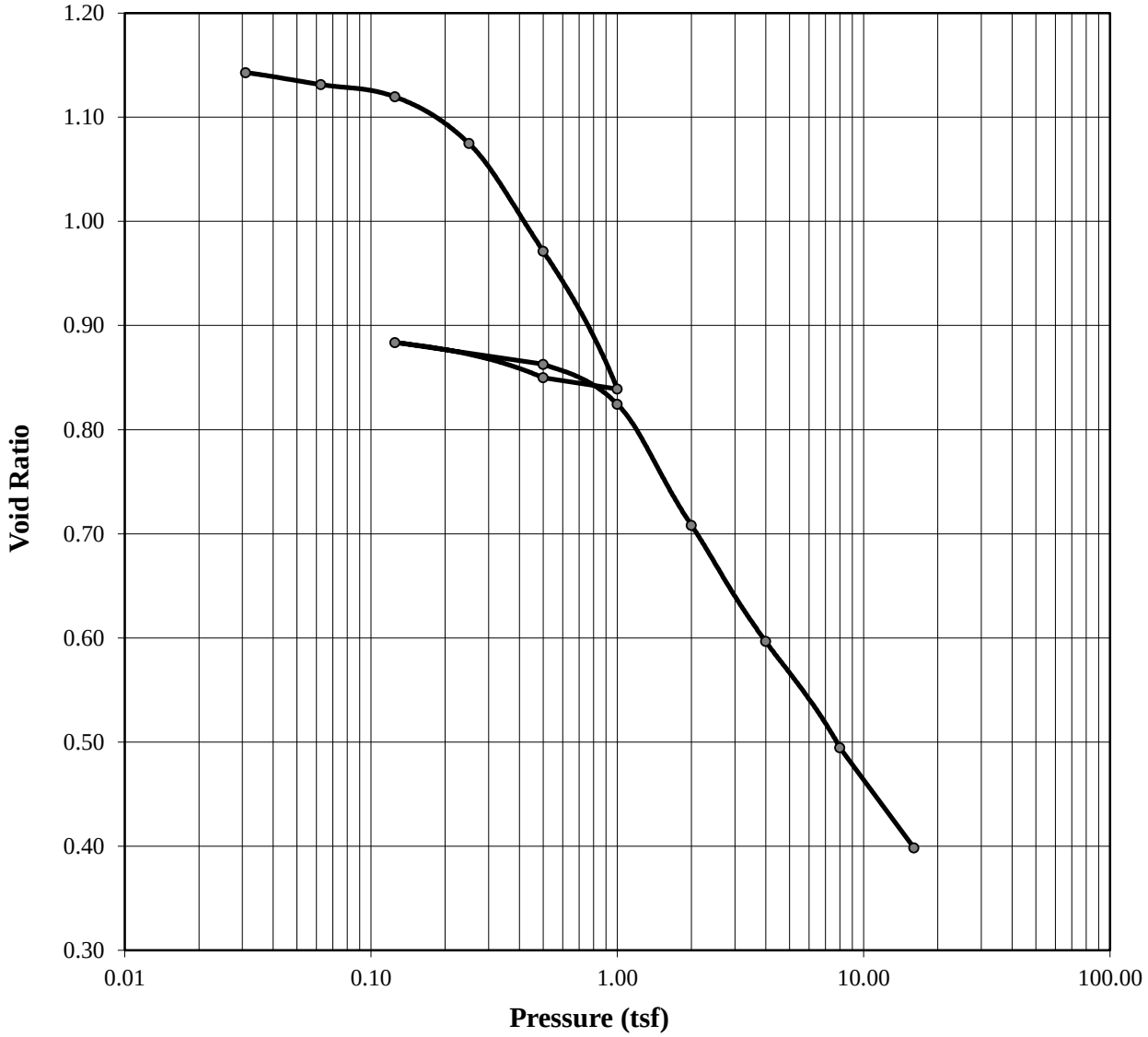
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	38	**Test Date:**	09 Apr 15
Moisture (%):	42.27	28.05	**Plastic Limits:**	16		
Dry Density (pcf):	75.77	106.72	**Plasticity Index (%):**	22		
Saturation (%):	95.12	136.52				
Void Ratio:	1.1734	0.4025	**Specific Gravity:**	2.635	Measured	

Soil Description: Clay with silt and sand seams (CH)

Project Number: 16715-040-00 **Depth:** 8 - 10 feet **Remarks:**

Sample Number: **Boring Number:** 6

Project: Island Road Marsh Creation and Nourishment (TE-117)

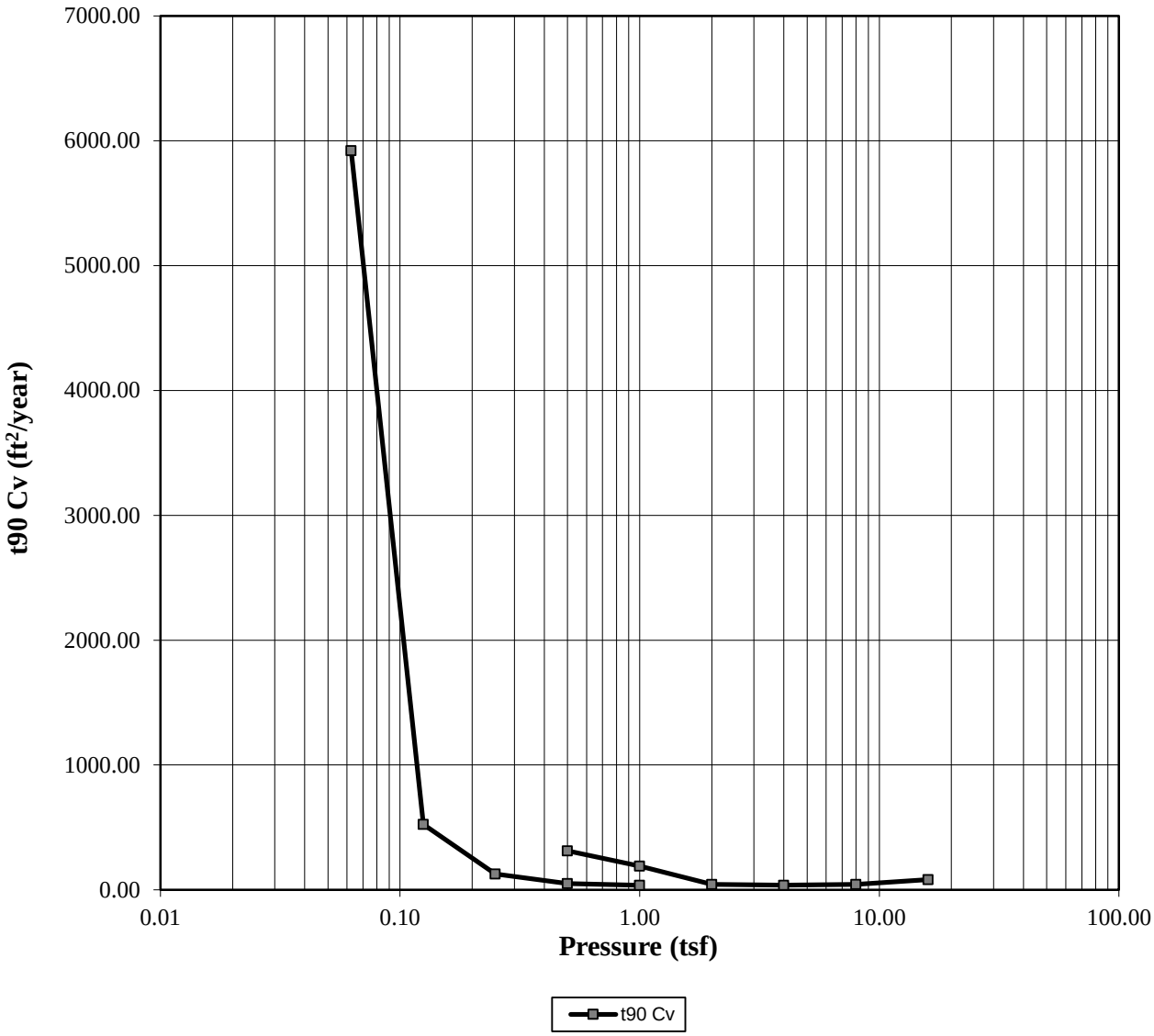
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	38	**Test Date:**	09 Apr 15
Moisture (%):	42.27	28.05	**Plastic Limits:**	16		
Dry Density (pcf):	75.77	106.72	**Plasticity Index (%):**	22		
Saturation (%):	95.12	136.52				
Void Ratio:	1.1734	0.4025	**Specific Gravity:**	2.635	Measured	

Soil Description: Clay with silt and sand seams (CH)

Project Number: 16715-040-00 **Depth:** 8 - 10 feet **Remarks:**

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Project: Island Road Marsh Creation and Nourishment (TE-117)

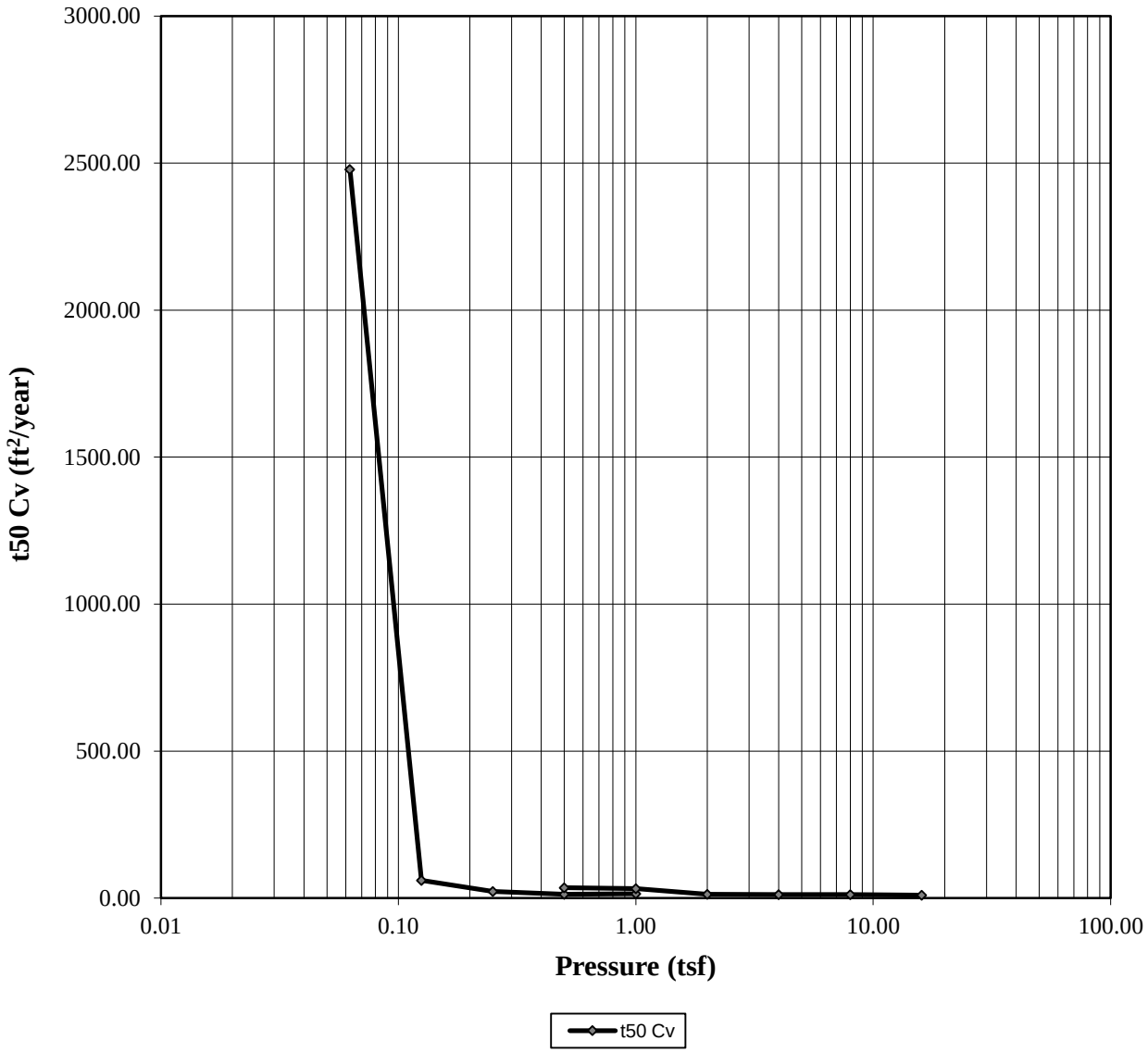
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	38	**Test Date:**	09 Apr 15
Moisture (%):	42.27	28.05	**Plastic Limits:**	16		
Dry Density (pcf):	75.77	106.72	**Plasticity Index (%):**	22		
Saturation (%):	95.12	136.52				
Void Ratio:	1.1734	0.4025	**Specific Gravity:**	2.635	Measured	

Soil Description: Clay with silt and sand seams (CH)

Project Number: 16715-040-00 **Depth:** 8 - 10 feet **Remarks:**

Sample Number: **Boring Number:** 6

Project: Island Road Marsh Creation and Nourishment (TE-117)

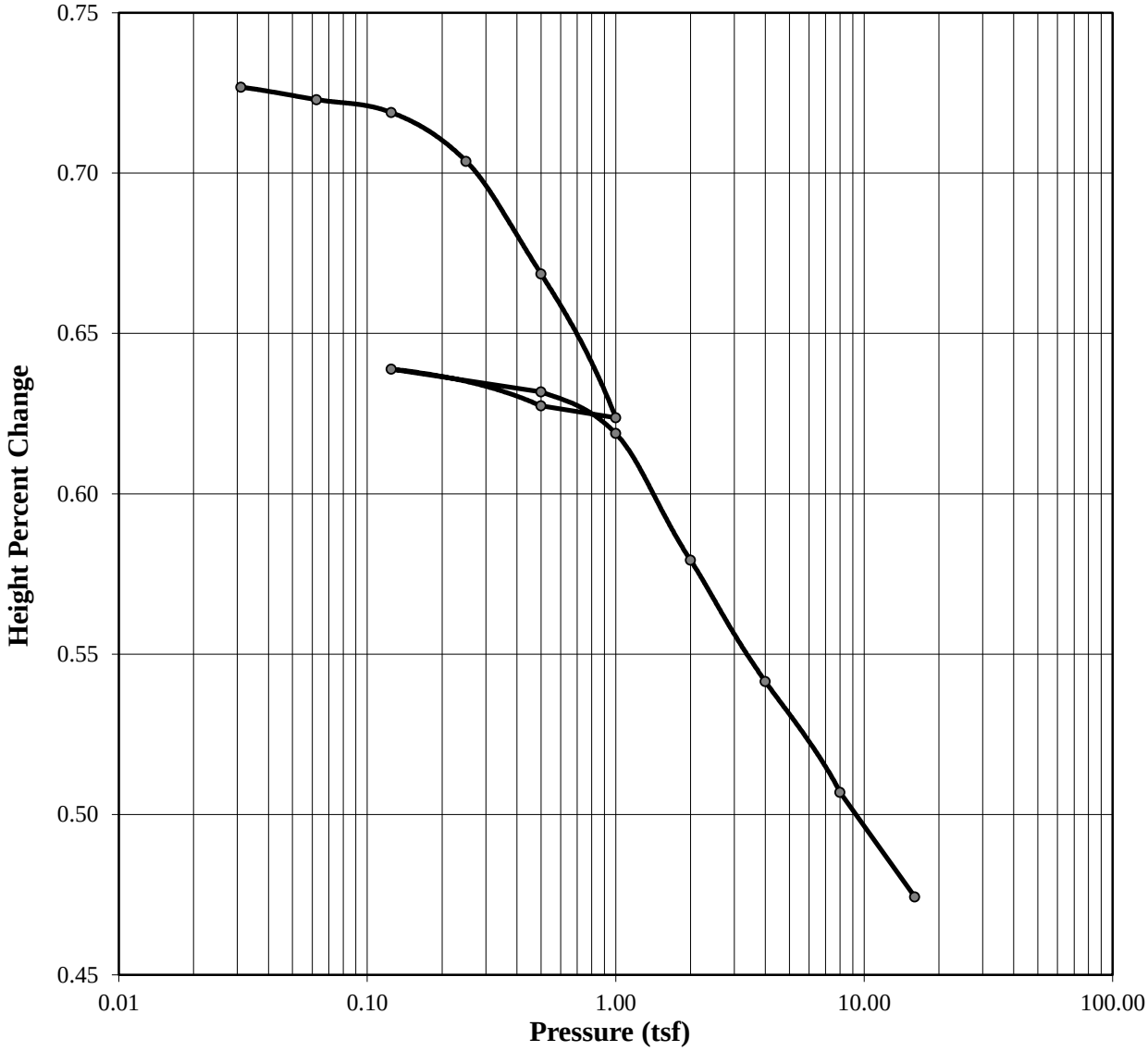
Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test

Test Results



	Before	After				
			Liquid Limits:	38	**Test Date:**	09 Apr 15
Moisture (%):	42.27	28.05	**Plastic Limits:**	16		
Dry Density (pcf):	75.77	106.72	**Plasticity Index (%):**	22		
Saturation (%):	95.12	136.52				
Void Ratio:	1.1734	0.4025	**Specific Gravity:**	2.635	Measured	

Soil Description: Clay with silt and sand seams (CH)

Project Number: 16715-040-00 **Depth:** 8 - 10 feet **Remarks:**

Sample Number: **Boring Number:** 6

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

GeoEngineers

Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

Sample Description:
Clay with silt and sand seams (CH)
Remarks:

Test Number:
Test Date: 09 Apr 15

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	0.7350	0.3958	0.00	1.1670	0.000	0.000	0.000	0.000
1	0.031	0.0082	0.7268	0.3876	1.12	1.1428	0.000	0.000	0.000	0.000
2	0.063	0.0121	0.7229	0.3837	1.65	1.1313	0.068	* 0.0379	5922.222	2478.656
3	0.125	0.0161	0.7189	0.3797	2.19	1.1196	0.764	1.542	523.809	60.238
4	0.250	0.0313	0.7037	0.3645	4.26	1.0747	3.013	4.013	127.166	22.184
5	0.500	0.0664	0.6686	0.3294	9.03	0.9713	6.762	6.251	51.154	12.856
6	1.000	0.1113	0.6237	0.2845	15.14	0.8389	8.242	4.721	36.520	14.813
7	0.500	0.1076	0.6274	0.2882	14.64	0.8498	0.000	0.000	0.000	0.000
8	0.125	0.0961	0.6389	0.2997	13.07	0.8837	0.000	0.000	0.000	0.000
9	0.500	0.1032	0.6318	0.2926	14.04	0.8628	0.989	2.033	312.215	35.305
10	1.000	0.1162	0.6188	0.2796	15.81	0.8244	1.550	2.116	191.224	32.530
11	2.000	0.1557	0.5793	0.2401	21.18	0.7080	5.947	4.559	43.667	13.234
12	4.000	0.1935	0.5415	0.2023	26.33	0.5965	6.054	4.409	37.481	11.956
13	8.000	0.2281	0.5069	0.1677	31.03	0.4945	4.528	3.833	43.908	12.052
14	16.000	0.2607	0.4743	0.1351	35.47	0.3984	2.151	4.117	80.912	9.823

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 16715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 09 Apr 15

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

Sample Description:
Clay with silt and sand seams (CH)
Remarks:

Test Number:
Liquid Limit: 38.0000
Plastic Limit: 16.0000
Specific Gravity: 2.6350 Measured

Initial Void Ratio: 1.1734
Plasticity Index (%): 22.0000
Weight of Ring (g): 106.2800

Initial Height (in): 0.7350
Initial Diameter (in): 2.5020

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	149.97	99.18
Dry Soil + Container (g)	111.15	81.69
Weight of Container (g)	19.32	19.33
Moisture Content (%)	42.27	28.05
Void Ratio	1.1734	0.4025
Saturation (%)	95.12	136.52
Dry Density (pcf)	75.77	106.72

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

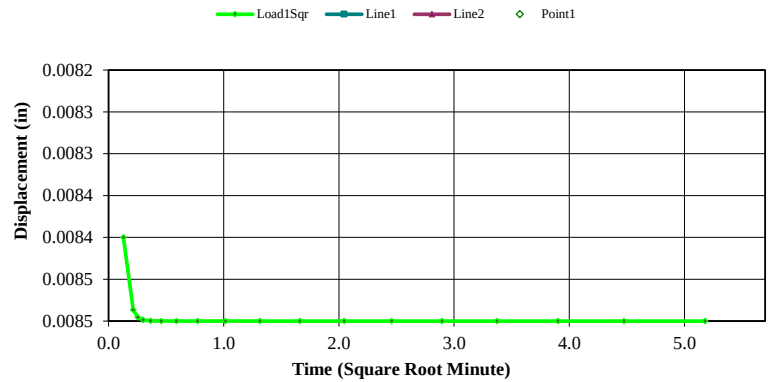
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

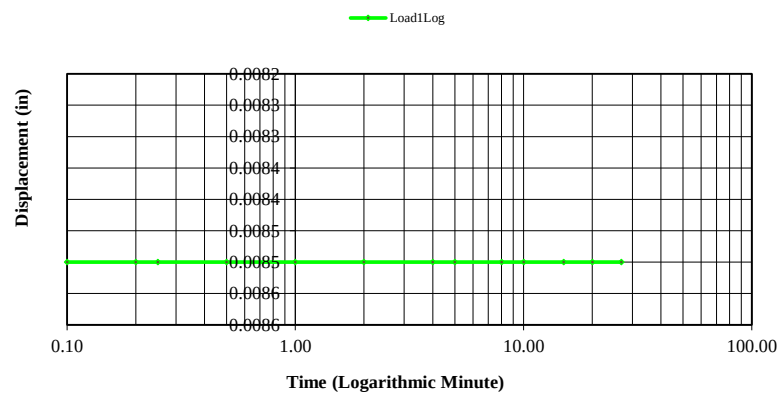
Soil Description: Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0003	0.0000	0.0000	1.1734
1	00:00:01	0.0084	0.0081	1.1020	1.1495
2	00:00:02	0.0085	0.0082	1.1156	1.1492
3	00:00:03	0.0085	0.0082	1.1156	1.1492
4	00:00:04	0.0085	0.0082	1.1156	1.1492
5	00:00:05	0.0085	0.0082	1.1156	1.1492
6	00:00:06	0.0085	0.0082	1.1156	1.1492
7	00:00:12	0.0085	0.0082	1.1156	1.1492
8	00:00:15	0.0085	0.0082	1.1156	1.1492
9	00:00:30	0.0085	0.0082	1.1156	1.1492
10	00:01:00	0.0085	0.0082	1.1156	1.1492
11	00:02:00	0.0085	0.0082	1.1156	1.1492
12	00:04:00	0.0085	0.0082	1.1156	1.1492
13	00:05:00	0.0085	0.0082	1.1156	1.1492
14	00:08:01	0.0085	0.0082	1.1156	1.1492
15	00:10:01	0.0085	0.0082	1.1156	1.1492
16	00:15:01	0.0085	0.0082	1.1156	1.1492
17	00:20:02	0.0085	0.0082	1.1156	1.1492
18	00:26:49	0.0085	0.0082	1.1156	1.1492

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Consolidation Test Results
(Sequence 2) Load 0.063 tsf

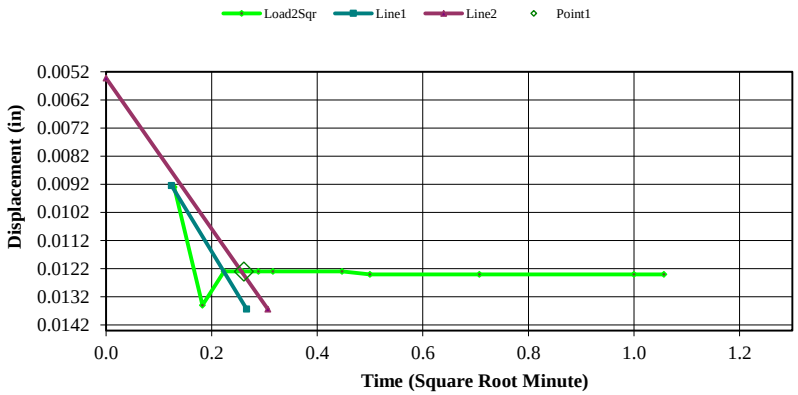
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

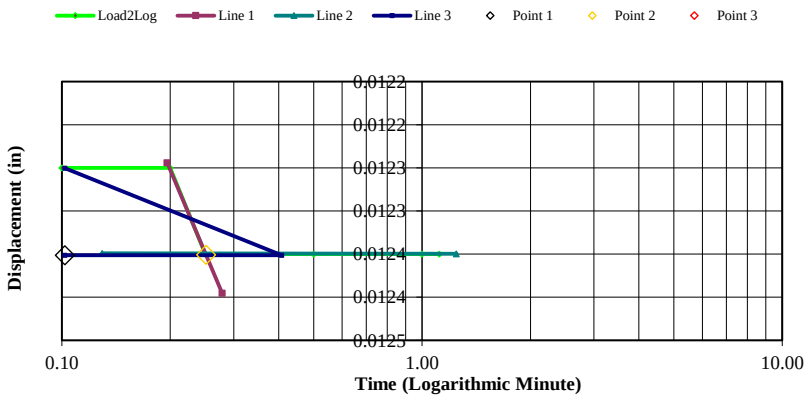
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0085	0.0082	1.1156	1.1492
1	00:00:01	0.0093	0.0090	1.2245	1.1468
2	00:00:02	0.0135	0.0132	1.7959	1.1344
3	00:00:03	0.0123	0.0120	1.6327	1.1379
4	00:00:04	0.0123	0.0120	1.6327	1.1379
5	00:00:05	0.0123	0.0120	1.6327	1.1379
6	00:00:06	0.0123	0.0120	1.6327	1.1379
7	00:00:12	0.0123	0.0120	1.6327	1.1379
8	00:00:15	0.0124	0.0121	1.6463	1.1376
9	00:00:30	0.0124	0.0121	1.6463	1.1376
10	00:01:00	0.0124	0.0121	1.6463	1.1376
11	00:01:07	0.0124	0.0121	1.6463	1.1376

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

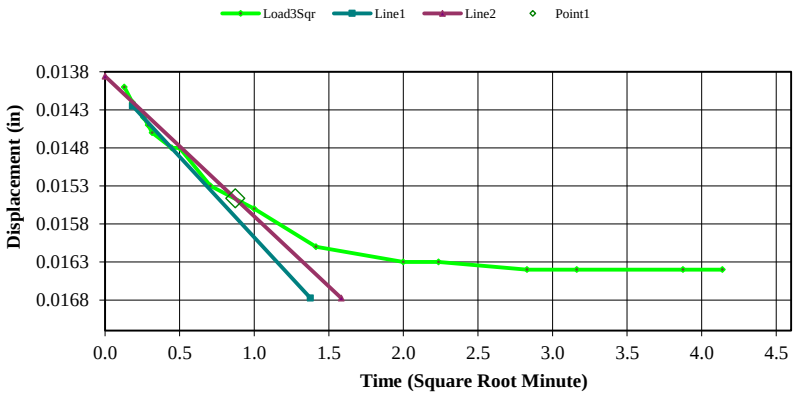
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

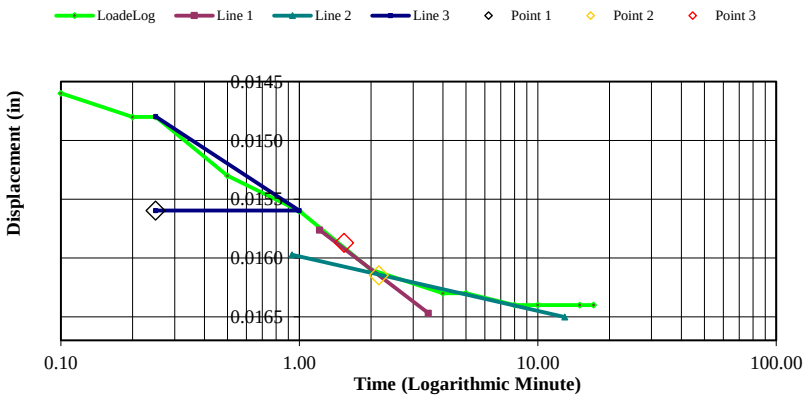
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0124	0.0121	1.6463	1.1376
1	00:00:01	0.0140	0.0137	1.8639	1.1329
2	00:00:02	0.0142	0.0139	1.8912	1.1323
3	00:00:03	0.0143	0.0140	1.9048	1.1320
4	00:00:04	0.0144	0.0141	1.9184	1.1317
5	00:00:05	0.0145	0.0142	1.9320	1.1314
6	00:00:06	0.0146	0.0143	1.9456	1.1311
7	00:00:12	0.0148	0.0145	1.9728	1.1305
8	00:00:15	0.0148	0.0145	1.9728	1.1305
9	00:00:30	0.0153	0.0150	2.0408	1.1290
10	00:01:00	0.0156	0.0153	2.0816	1.1282
11	00:02:00	0.0161	0.0158	2.1497	1.1267
12	00:04:00	0.0163	0.0160	2.1769	1.1261
13	00:05:00	0.0163	0.0160	2.1769	1.1261
14	00:08:00	0.0164	0.0161	2.1905	1.1258
15	00:10:00	0.0164	0.0161	2.1905	1.1258
16	00:15:01	0.0164	0.0161	2.1905	1.1258
17	00:17:08	0.0164	0.0161	2.1905	1.1258

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Consolidation Test Results
(Sequence 4) Load 0.250 tsf

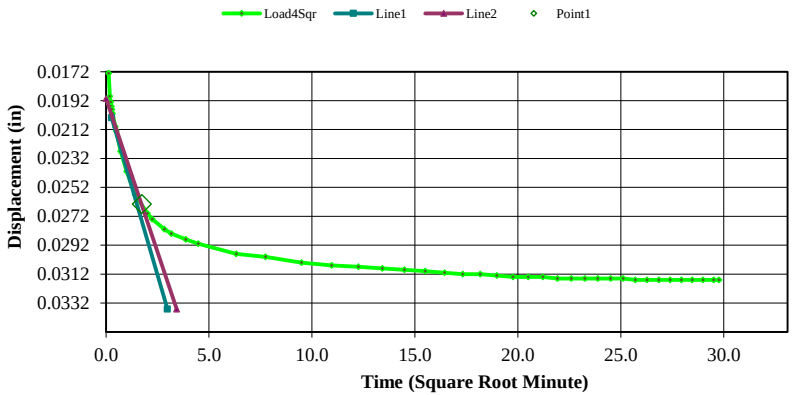
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

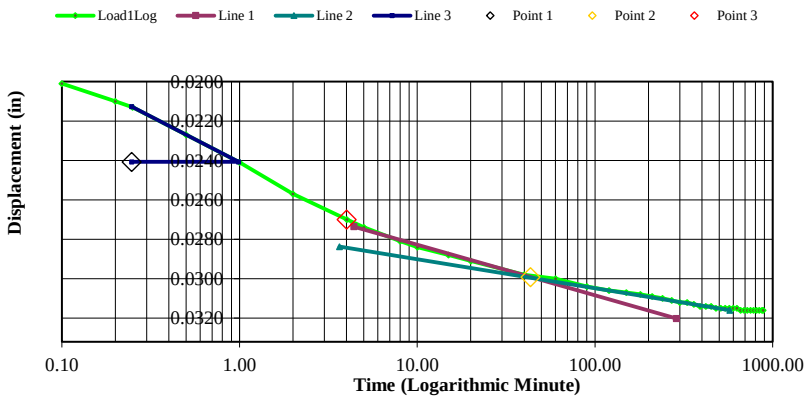
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0164	0.0161	2.1905	1.1258
1	00:00:01	0.0173	0.0170	2.3129	1.1231
2	00:00:02	0.0189	0.0186	2.5306	1.1184
3	00:00:03	0.0193	0.0190	2.5850	1.1172
4	00:00:04	0.0196	0.0193	2.6259	1.1163
5	00:00:05	0.0198	0.0195	2.6531	1.1157
6	00:00:06	0.0201	0.0198	2.6939	1.1149
7	00:00:12	0.0210	0.0207	2.8163	1.1122
8	00:00:15	0.0213	0.0210	2.8571	1.1113
9	00:00:30	0.0227	0.0224	3.0476	1.1072
10	00:01:00	0.0241	0.0238	3.2381	1.1030
11	00:02:00	0.0257	0.0254	3.4558	1.0983
12	00:04:01	0.0270	0.0267	3.6327	1.0945
13	00:05:01	0.0274	0.0271	3.6871	1.0933
14	00:08:01	0.0281	0.0278	3.7823	1.0912
15	00:10:01	0.0284	0.0281	3.8231	1.0903
16	00:15:01	0.0288	0.0285	3.8776	1.0891
17	00:20:02	0.0291	0.0288	3.9184	1.0882
18	00:40:03	0.0298	0.0295	4.0136	1.0862
19	01:00:05	0.0300	0.0297	4.0408	1.0856
20	01:30:07	0.0304	0.0301	4.0952	1.0844
21	02:00:09	0.0306	0.0303	4.1224	1.0838
22	02:30:12	0.0307	0.0304	4.1361	1.0835
23	03:00:14	0.0308	0.0305	4.1497	1.0832
24	03:30:16	0.0309	0.0306	4.1633	1.0829
25	04:00:18	0.0310	0.0307	4.1769	1.0826
26	04:30:21	0.0311	0.0308	4.1905	1.0823
27	05:00:23	0.0312	0.0309	4.2041	1.0820
28	05:30:25	0.0312	0.0309	4.2041	1.0820
29	06:00:27	0.0313	0.0310	4.2177	1.0817
30	06:30:30	0.0314	0.0311	4.2313	1.0814
31	07:00:32	0.0314	0.0311	4.2313	1.0814
32	07:30:34	0.0314	0.0311	4.2313	1.0814
33	08:00:37	0.0315	0.0312	4.2449	1.0811
34	08:30:39	0.0315	0.0312	4.2449	1.0811
35	09:00:41	0.0315	0.0312	4.2449	1.0811

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.0315	0.0312	4.2449	1.0811
37	10:00:45	0.0315	0.0312	4.2449	1.0811
38	10:30:48	0.0315	0.0312	4.2449	1.0811
39	11:00:50	0.0316	0.0313	4.2585	1.0808
40	11:30:52	0.0316	0.0313	4.2585	1.0808
41	12:00:55	0.0316	0.0313	4.2585	1.0808
42	12:30:57	0.0316	0.0313	4.2585	1.0808
43	13:00:59	0.0316	0.0313	4.2585	1.0808
44	13:31:01	0.0316	0.0313	4.2585	1.0808
45	14:01:03	0.0316	0.0313	4.2585	1.0808
46	14:31:06	0.0316	0.0313	4.2585	1.0808
47	14:46:34	0.0316	0.0313	4.2585	1.0808

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

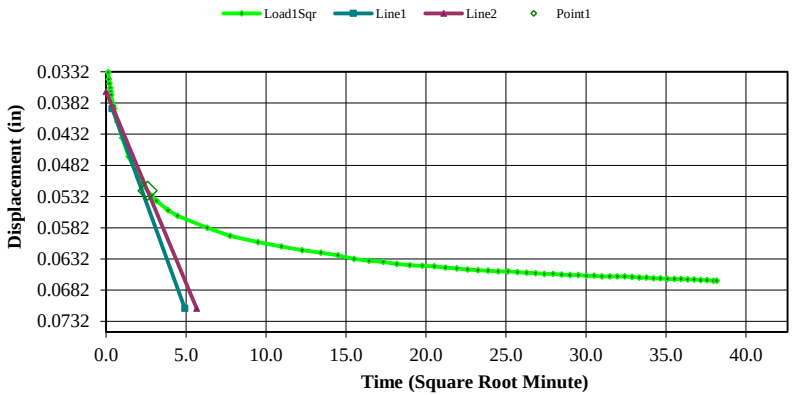
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

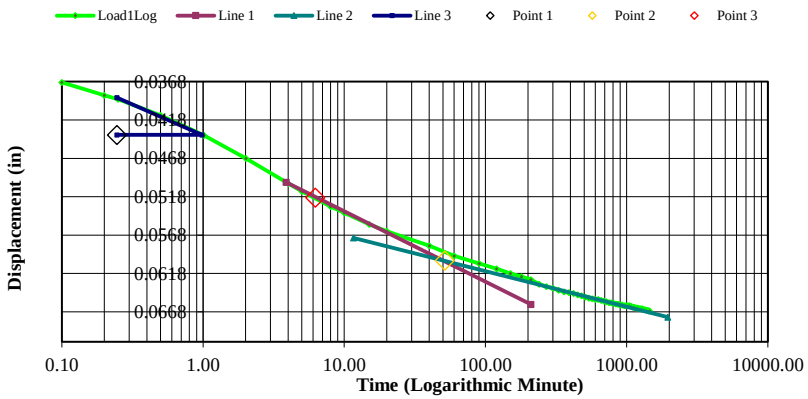
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0316	0.0313	4.2585	1.0808
1	00:00:01	0.0333	0.0330	4.4898	1.0758
2	00:00:02	0.0344	0.0341	4.6395	1.0726
3	00:00:03	0.0351	0.0348	4.7347	1.0705
4	00:00:04	0.0358	0.0355	4.8299	1.0684
5	00:00:05	0.0364	0.0361	4.9116	1.0667
6	00:00:06	0.0369	0.0366	4.9796	1.0652
7	00:00:12	0.0386	0.0383	5.2109	1.0602
8	00:00:15	0.0391	0.0388	5.2789	1.0587
9	00:00:30	0.0412	0.0409	5.5646	1.0525
10	00:01:01	0.0438	0.0435	5.9184	1.0448
11	00:02:01	0.0468	0.0465	6.3265	1.0359
12	00:04:01	0.0501	0.0498	6.7755	1.0261
13	00:05:01	0.0511	0.0508	6.9116	1.0232
14	00:08:01	0.0531	0.0528	7.1837	1.0173
15	00:10:01	0.0539	0.0536	7.2925	1.0149
16	00:15:02	0.0554	0.0551	7.4966	1.0105
17	00:20:02	0.0563	0.0560	7.6190	1.0078
18	00:40:03	0.0582	0.0579	7.8776	1.0022
19	01:00:05	0.0595	0.0592	8.0544	0.9983
20	01:30:07	0.0605	0.0602	8.1905	0.9954
21	02:00:09	0.0612	0.0609	8.2857	0.9933
22	02:30:12	0.0618	0.0615	8.3673	0.9915
23	03:00:14	0.0622	0.0619	8.4218	0.9904
24	03:30:16	0.0626	0.0623	8.4762	0.9892
25	04:00:19	0.0632	0.0629	8.5578	0.9874
26	04:30:21	0.0635	0.0632	8.5986	0.9865
27	05:00:23	0.0637	0.0634	8.6258	0.9859
28	05:30:25	0.0640	0.0637	8.6667	0.9850
29	06:00:28	0.0642	0.0639	8.6939	0.9845
30	06:30:30	0.0643	0.0640	8.7075	0.9842
31	07:00:32	0.0644	0.0641	8.7211	0.9839
32	07:30:34	0.0646	0.0643	8.7483	0.9833
33	08:00:37	0.0647	0.0644	8.7619	0.9830
34	08:30:39	0.0649	0.0646	8.7891	0.9824
35	09:00:41	0.0650	0.0647	8.8027	0.9821

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.0651	0.0648	8.8163	0.9818
37	10:00:46	0.0652	0.0649	8.8299	0.9815
38	10:30:48	0.0652	0.0649	8.8299	0.9815
39	11:00:50	0.0653	0.0650	8.8435	0.9812
40	11:30:52	0.0654	0.0651	8.8571	0.9809
41	12:00:55	0.0655	0.0652	8.8707	0.9806
42	12:30:57	0.0656	0.0653	8.8844	0.9803
43	13:00:59	0.0656	0.0653	8.8844	0.9803
44	13:31:01	0.0657	0.0654	8.8980	0.9800
45	14:01:04	0.0658	0.0655	8.9116	0.9797
46	14:31:06	0.0658	0.0655	8.9116	0.9797
47	15:01:08	0.0659	0.0656	8.9252	0.9794
48	15:31:10	0.0659	0.0656	8.9252	0.9794
49	16:01:13	0.0660	0.0657	8.9388	0.9791
50	16:31:15	0.0660	0.0657	8.9388	0.9791
51	17:01:17	0.0660	0.0657	8.9388	0.9791
52	17:31:19	0.0660	0.0657	8.9388	0.9791
53	18:01:22	0.0661	0.0658	8.9524	0.9788
54	18:31:24	0.0662	0.0659	8.9660	0.9785
55	19:01:26	0.0662	0.0659	8.9660	0.9785
56	19:31:29	0.0663	0.0660	8.9796	0.9782
57	20:01:31	0.0663	0.0660	8.9796	0.9782
58	20:31:33	0.0664	0.0661	8.9932	0.9779
59	21:01:35	0.0664	0.0661	8.9932	0.9779
60	21:31:38	0.0664	0.0661	8.9932	0.9779
61	22:01:40	0.0665	0.0662	9.0068	0.9776
62	22:31:42	0.0665	0.0662	9.0068	0.9776
63	23:01:44	0.0666	0.0663	9.0204	0.9774
64	23:31:47	0.0666	0.0663	9.0204	0.9774
65	24:01:49	0.0667	0.0664	9.0340	0.9771
66	24:17:30	0.0667	0.0664	9.0340	0.9771

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

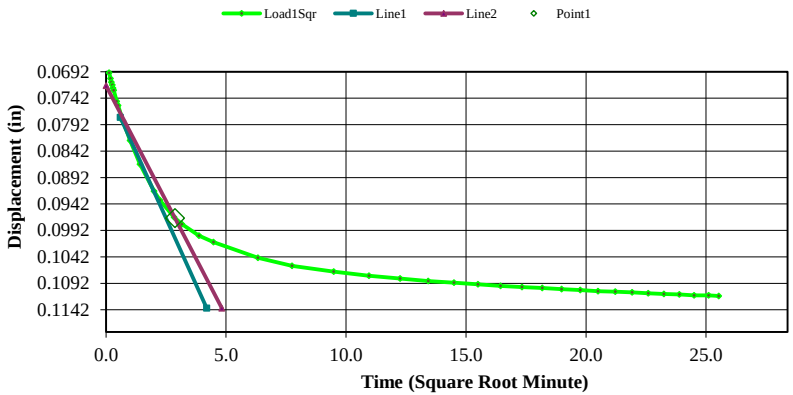
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

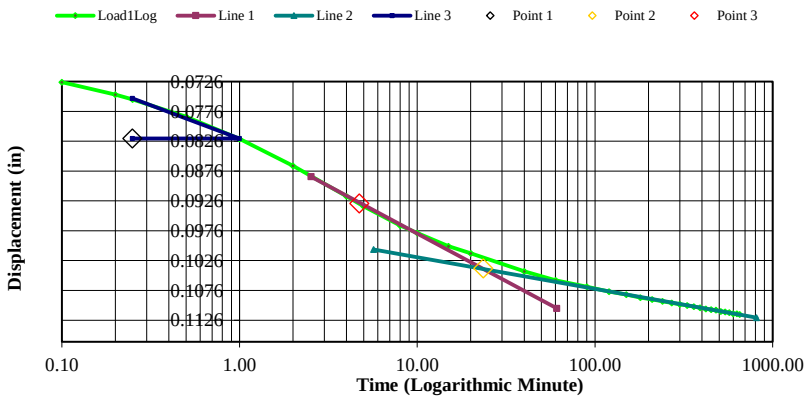
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0667	0.0664	9.0340	0.9771
1	00:00:01	0.0694	0.0691	9.4014	0.9691
2	00:00:02	0.0705	0.0702	9.5510	0.9658
3	00:00:03	0.0712	0.0709	9.6463	0.9638
4	00:00:04	0.0717	0.0714	9.7143	0.9623
5	00:00:05	0.0723	0.0720	9.7959	0.9605
6	00:00:06	0.0727	0.0724	9.8503	0.9593
7	00:00:12	0.0748	0.0745	10.1361	0.9531
8	00:00:15	0.0756	0.0753	10.2449	0.9507
9	00:00:30	0.0785	0.0782	10.6395	0.9422
10	00:01:00	0.0822	0.0819	11.1429	0.9312
11	00:02:00	0.0867	0.0864	11.7551	0.9179
12	00:04:00	0.0918	0.0915	12.4490	0.9028
13	00:05:00	0.0935	0.0932	12.6803	0.8978
14	00:08:01	0.0967	0.0964	13.1156	0.8883
15	00:10:01	0.0980	0.0977	13.2925	0.8845
16	00:15:01	0.1002	0.0999	13.5918	0.8780
17	00:20:01	0.1014	0.1011	13.7551	0.8744
18	00:40:03	0.1044	0.1041	14.1633	0.8656
19	01:00:04	0.1059	0.1056	14.3673	0.8611
20	01:30:07	0.1070	0.1067	14.5170	0.8579
21	02:00:09	0.1078	0.1075	14.6259	0.8555
22	02:30:11	0.1083	0.1080	14.6939	0.8540
23	03:00:14	0.1088	0.1085	14.7619	0.8526
24	03:30:16	0.1091	0.1088	14.8027	0.8517
25	04:00:18	0.1094	0.1091	14.8435	0.8508
26	04:30:20	0.1097	0.1094	14.8844	0.8499
27	05:00:23	0.1099	0.1096	14.9116	0.8493
28	05:30:25	0.1101	0.1098	14.9388	0.8487
29	06:00:27	0.1103	0.1100	14.9660	0.8481
30	06:30:29	0.1105	0.1102	14.9932	0.8475
31	07:00:32	0.1107	0.1104	15.0204	0.8469
32	07:30:34	0.1108	0.1105	15.0340	0.8467
33	08:00:36	0.1109	0.1106	15.0476	0.8464
34	08:30:38	0.1111	0.1108	15.0748	0.8458
35	09:00:41	0.1112	0.1109	15.0884	0.8455

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.1113	0.1110	15.1020	0.8452
37	10:00:45	0.1115	0.1112	15.1293	0.8446
38	10:30:47	0.1115	0.1112	15.1293	0.8446
39	10:52:04	0.1116	0.1113	15.1429	0.8443

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

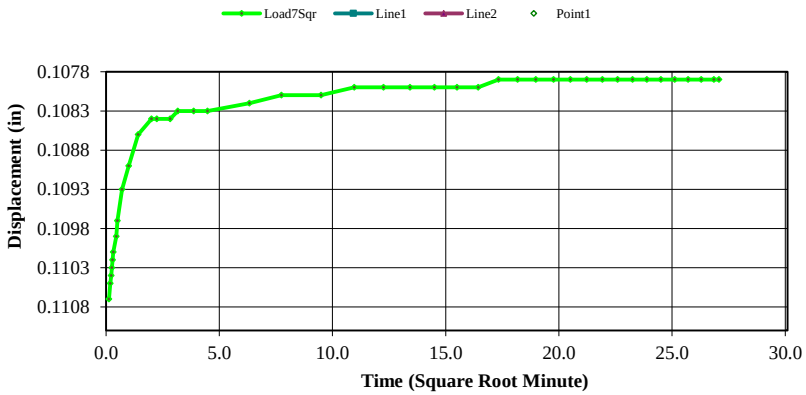
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

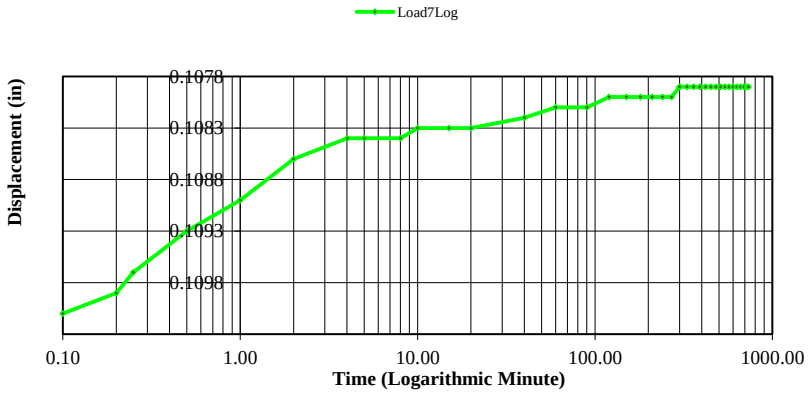
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1116	0.1113	15.1429	0.8443
1	00:00:01	0.1107	0.1104	15.0204	0.8469
2	00:00:02	0.1105	0.1102	14.9932	0.8475
3	00:00:03	0.1104	0.1101	14.9796	0.8478
4	00:00:04	0.1103	0.1100	14.9660	0.8481
5	00:00:05	0.1102	0.1099	14.9524	0.8484
6	00:00:06	0.1101	0.1098	14.9388	0.8487
7	00:00:12	0.1099	0.1096	14.9116	0.8493
8	00:00:15	0.1097	0.1094	14.8844	0.8499
9	00:00:30	0.1093	0.1090	14.8299	0.8511
10	00:01:00	0.1090	0.1087	14.7891	0.8520
11	00:02:00	0.1086	0.1083	14.7347	0.8532
12	00:04:01	0.1084	0.1081	14.7075	0.8538
13	00:05:01	0.1084	0.1081	14.7075	0.8538
14	00:08:01	0.1084	0.1081	14.7075	0.8538
15	00:10:01	0.1083	0.1080	14.6939	0.8540
16	00:15:01	0.1083	0.1080	14.6939	0.8540
17	00:20:02	0.1083	0.1080	14.6939	0.8540
18	00:40:03	0.1082	0.1079	14.6803	0.8543
19	01:00:05	0.1081	0.1078	14.6667	0.8546
20	01:30:07	0.1081	0.1078	14.6667	0.8546
21	02:00:09	0.1080	0.1077	14.6531	0.8549
22	02:30:11	0.1080	0.1077	14.6531	0.8549
23	03:00:14	0.1080	0.1077	14.6531	0.8549
24	03:30:16	0.1080	0.1077	14.6531	0.8549
25	04:00:18	0.1080	0.1077	14.6531	0.8549
26	04:30:21	0.1080	0.1077	14.6531	0.8549
27	05:00:23	0.1079	0.1076	14.6395	0.8552
28	05:30:25	0.1079	0.1076	14.6395	0.8552
29	06:00:27	0.1079	0.1076	14.6395	0.8552
30	06:30:30	0.1079	0.1076	14.6395	0.8552
31	07:00:32	0.1079	0.1076	14.6395	0.8552
32	07:30:34	0.1079	0.1076	14.6395	0.8552
33	08:00:36	0.1079	0.1076	14.6395	0.8552
34	08:30:39	0.1079	0.1076	14.6395	0.8552
35	09:00:41	0.1079	0.1076	14.6395	0.8552

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.1079	0.1076	14.6395	0.8552
37	10:00:46	0.1079	0.1076	14.6395	0.8552
38	10:30:48	0.1079	0.1076	14.6395	0.8552
39	11:00:50	0.1079	0.1076	14.6395	0.8552
40	11:30:52	0.1079	0.1076	14.6395	0.8552
41	12:00:55	0.1079	0.1076	14.6395	0.8552
42	12:12:54	0.1079	0.1076	14.6395	0.8552

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

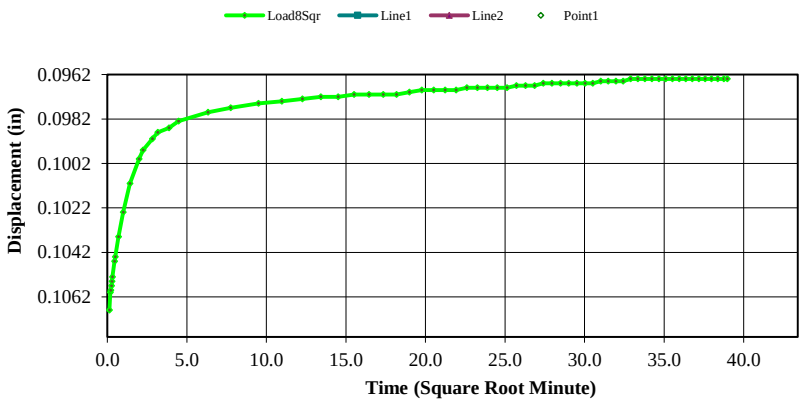
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

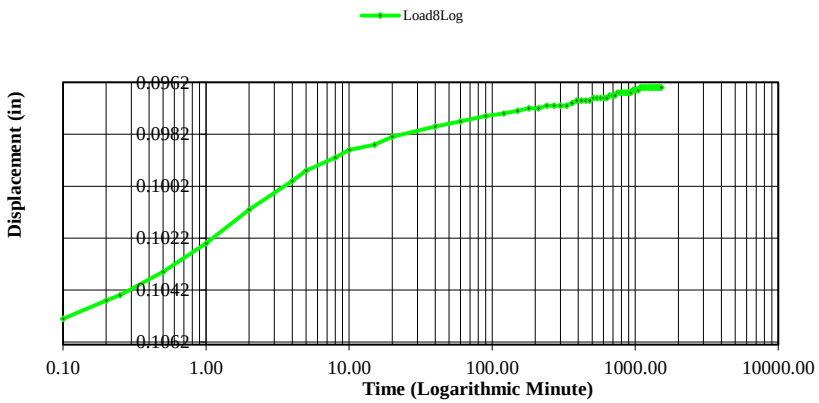
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1079	0.1076	14.6395	0.8552
1	00:00:01	0.1068	0.1065	14.4898	0.8585
2	00:00:02	0.1060	0.1057	14.3810	0.8608
3	00:00:03	0.1059	0.1056	14.3673	0.8611
4	00:00:04	0.1057	0.1054	14.3401	0.8617
5	00:00:05	0.1055	0.1052	14.3129	0.8623
6	00:00:06	0.1053	0.1050	14.2857	0.8629
7	00:00:12	0.1046	0.1043	14.1905	0.8650
8	00:00:15	0.1044	0.1041	14.1633	0.8656
9	00:00:30	0.1035	0.1032	14.0408	0.8682
10	00:01:00	0.1024	0.1021	13.8912	0.8715
11	00:02:00	0.1011	0.1008	13.7143	0.8753
12	00:04:00	0.1000	0.0997	13.5646	0.8786
13	00:05:00	0.0996	0.0993	13.5102	0.8798
14	00:08:00	0.0991	0.0988	13.4422	0.8813
15	00:10:01	0.0988	0.0985	13.4014	0.8821
16	00:15:01	0.0986	0.0983	13.3741	0.8827
17	00:20:01	0.0983	0.0980	13.3333	0.8836
18	00:40:03	0.0979	0.0976	13.2789	0.8848
19	01:00:04	0.0977	0.0974	13.2517	0.8854
20	01:30:07	0.0975	0.0972	13.2245	0.8860
21	02:00:09	0.0974	0.0971	13.2109	0.8863
22	02:30:11	0.0973	0.0970	13.1973	0.8866
23	03:00:13	0.0972	0.0969	13.1837	0.8869
24	03:30:16	0.0972	0.0969	13.1837	0.8869
25	04:00:18	0.0971	0.0968	13.1701	0.8872
26	04:30:20	0.0971	0.0968	13.1701	0.8872
27	05:00:22	0.0971	0.0968	13.1701	0.8872
28	05:30:25	0.0971	0.0968	13.1701	0.8872
29	06:00:27	0.0970	0.0967	13.1565	0.8875
30	06:30:29	0.0969	0.0966	13.1429	0.8878
31	07:00:32	0.0969	0.0966	13.1429	0.8878
32	07:30:34	0.0969	0.0966	13.1429	0.8878
33	08:00:36	0.0969	0.0966	13.1429	0.8878
34	08:30:38	0.0968	0.0965	13.1293	0.8881
35	09:00:41	0.0968	0.0965	13.1293	0.8881

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.0968	0.0965	13.1293	0.8881
37	10:00:45	0.0968	0.0965	13.1293	0.8881
38	10:30:47	0.0968	0.0965	13.1293	0.8881
39	11:00:50	0.0967	0.0964	13.1156	0.8883
40	11:30:52	0.0967	0.0964	13.1156	0.8883
41	12:00:54	0.0967	0.0964	13.1156	0.8883
42	12:30:56	0.0966	0.0963	13.1020	0.8886
43	13:00:59	0.0966	0.0963	13.1020	0.8886
44	13:31:01	0.0966	0.0963	13.1020	0.8886
45	14:01:03	0.0966	0.0963	13.1020	0.8886
46	14:31:05	0.0966	0.0963	13.1020	0.8886
47	15:01:08	0.0966	0.0963	13.1020	0.8886
48	15:31:10	0.0966	0.0963	13.1020	0.8886
49	16:01:12	0.0965	0.0962	13.0884	0.8889
50	16:31:14	0.0965	0.0962	13.0884	0.8889
51	17:01:17	0.0965	0.0962	13.0884	0.8889
52	17:31:19	0.0965	0.0962	13.0884	0.8889
53	18:01:21	0.0964	0.0961	13.0748	0.8892
54	18:31:24	0.0964	0.0961	13.0748	0.8892
55	19:01:26	0.0964	0.0961	13.0748	0.8892
56	19:31:28	0.0964	0.0961	13.0748	0.8892
57	20:01:30	0.0964	0.0961	13.0748	0.8892
58	20:31:33	0.0964	0.0961	13.0748	0.8892
59	21:01:35	0.0964	0.0961	13.0748	0.8892
60	21:31:37	0.0964	0.0961	13.0748	0.8892
61	22:01:39	0.0964	0.0961	13.0748	0.8892
62	22:31:42	0.0964	0.0961	13.0748	0.8892
63	23:01:44	0.0964	0.0961	13.0748	0.8892
64	23:31:46	0.0964	0.0961	13.0748	0.8892
65	24:01:48	0.0964	0.0961	13.0748	0.8892
66	24:31:51	0.0964	0.0961	13.0748	0.8892
67	25:01:53	0.0964	0.0961	13.0748	0.8892
68	25:18:36	0.0964	0.0961	13.0748	0.8892

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

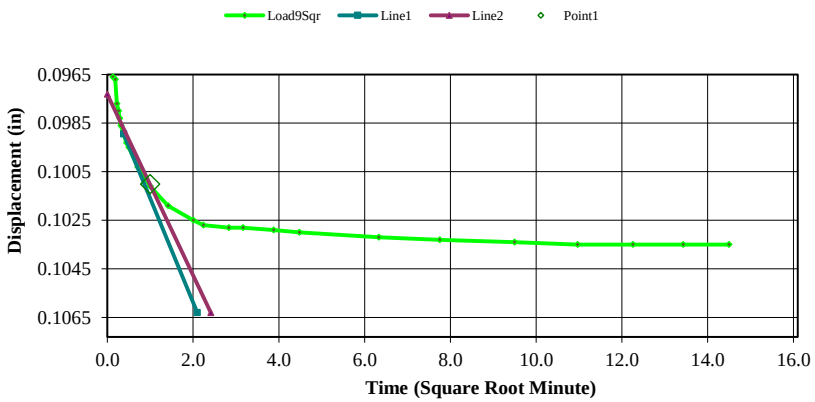
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

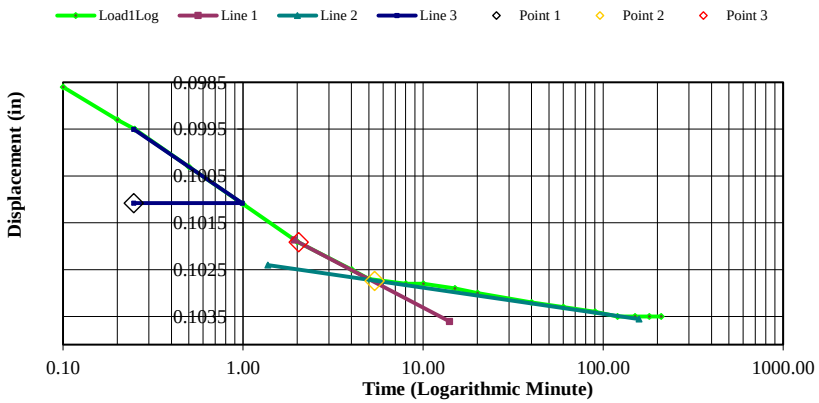
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0964	0.0961	13.0748	0.8892
1	00:00:01	0.0966	0.0963	13.1020	0.8886
2	00:00:02	0.0967	0.0964	13.1156	0.8883
3	00:00:03	0.0977	0.0974	13.2517	0.8854
4	00:00:04	0.0980	0.0977	13.2925	0.8845
5	00:00:05	0.0983	0.0980	13.3333	0.8836
6	00:00:06	0.0986	0.0983	13.3741	0.8827
7	00:00:12	0.0993	0.0990	13.4694	0.8807
8	00:00:15	0.0995	0.0992	13.4966	0.8801
9	00:00:30	0.1003	0.1000	13.6054	0.8777
10	00:01:00	0.1011	0.1008	13.7143	0.8753
11	00:02:00	0.1019	0.1016	13.8231	0.8730
12	00:04:01	0.1025	0.1022	13.9048	0.8712
13	00:05:01	0.1027	0.1024	13.9320	0.8706
14	00:08:01	0.1028	0.1025	13.9456	0.8703
15	00:10:01	0.1028	0.1025	13.9456	0.8703
16	00:15:01	0.1029	0.1026	13.9592	0.8700
17	00:20:02	0.1030	0.1027	13.9728	0.8697
18	00:40:03	0.1032	0.1029	14.0000	0.8691
19	01:00:05	0.1033	0.1030	14.0136	0.8688
20	01:30:07	0.1034	0.1031	14.0272	0.8685
21	02:00:09	0.1035	0.1032	14.0408	0.8682
22	02:30:12	0.1035	0.1032	14.0408	0.8682
23	03:00:14	0.1035	0.1032	14.0408	0.8682
24	03:30:06	0.1035	0.1032	14.0408	0.8682

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 1.000 tsf

Consolidation Test Results
(Sequence 10) Load 1.000 tsf

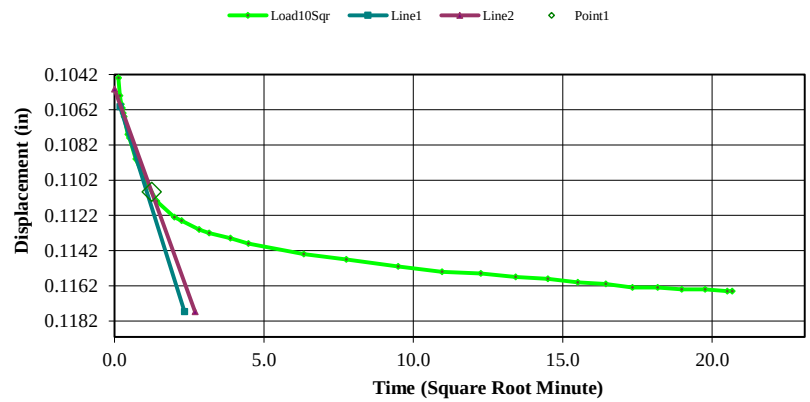
Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 16715-040-00
Location: Terrebonne Parish, LA
Job Number:
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

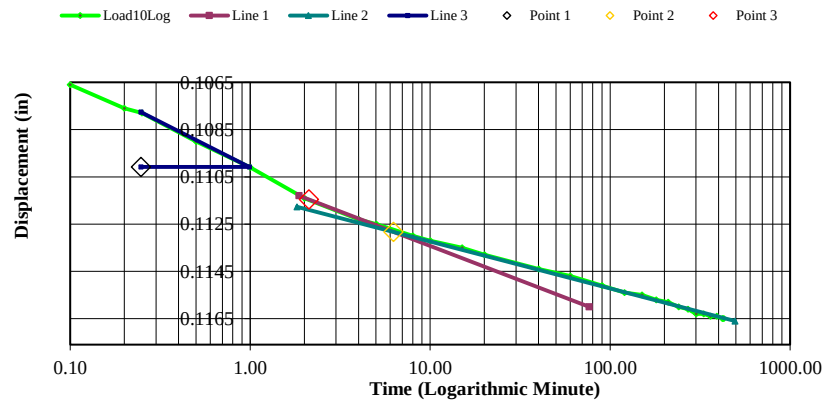
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1035	0.1032	14.0408	0.8682
1	00:00:01	0.1044	0.1041	14.1633	0.8656
2	00:00:02	0.1054	0.1051	14.2993	0.8626
3	00:00:03	0.1059	0.1056	14.3673	0.8611
4	00:00:04	0.1061	0.1058	14.3946	0.8606
5	00:00:05	0.1064	0.1061	14.4354	0.8597
6	00:00:06	0.1066	0.1063	14.4626	0.8591
7	00:00:12	0.1076	0.1073	14.5986	0.8561
8	00:00:15	0.1078	0.1075	14.6259	0.8555
9	00:00:30	0.1090	0.1087	14.7891	0.8520
10	00:01:00	0.1101	0.1098	14.9388	0.8487
11	00:02:00	0.1114	0.1111	15.1156	0.8449
12	00:04:01	0.1123	0.1120	15.2381	0.8422
13	00:05:01	0.1125	0.1122	15.2653	0.8416
14	00:08:01	0.1130	0.1127	15.3333	0.8401
15	00:10:01	0.1132	0.1129	15.3605	0.8396
16	00:15:02	0.1135	0.1132	15.4014	0.8387
17	00:20:02	0.1138	0.1135	15.4422	0.8378
18	00:40:03	0.1144	0.1141	15.5238	0.8360
19	01:00:05	0.1147	0.1144	15.5646	0.8351
20	01:30:07	0.1151	0.1148	15.6190	0.8339
21	02:00:09	0.1154	0.1151	15.6599	0.8331
22	02:30:12	0.1155	0.1152	15.6735	0.8328
23	03:00:14	0.1157	0.1154	15.7007	0.8322
24	03:30:16	0.1158	0.1155	15.7143	0.8319
25	04:00:18	0.1160	0.1157	15.7415	0.8313
26	04:30:21	0.1161	0.1158	15.7551	0.8310
27	05:00:23	0.1163	0.1160	15.7823	0.8304
28	05:30:25	0.1163	0.1160	15.7823	0.8304
29	06:00:27	0.1164	0.1161	15.7959	0.8301
30	06:30:30	0.1164	0.1161	15.7959	0.8301
31	07:00:32	0.1165	0.1162	15.8095	0.8298
32	07:07:16	0.1165	0.1162	15.8095	0.8298

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

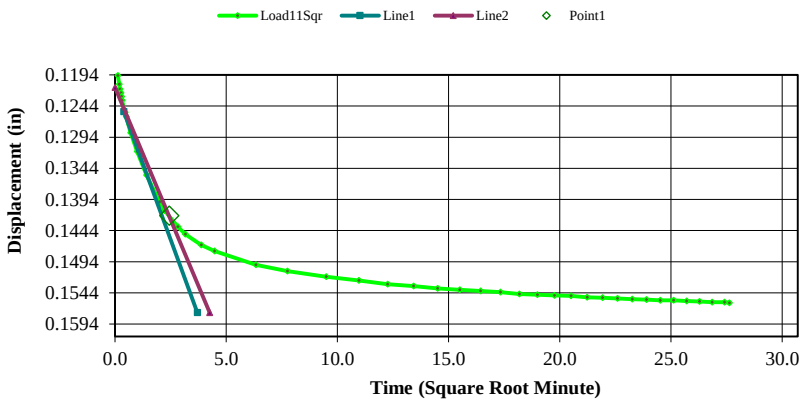
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

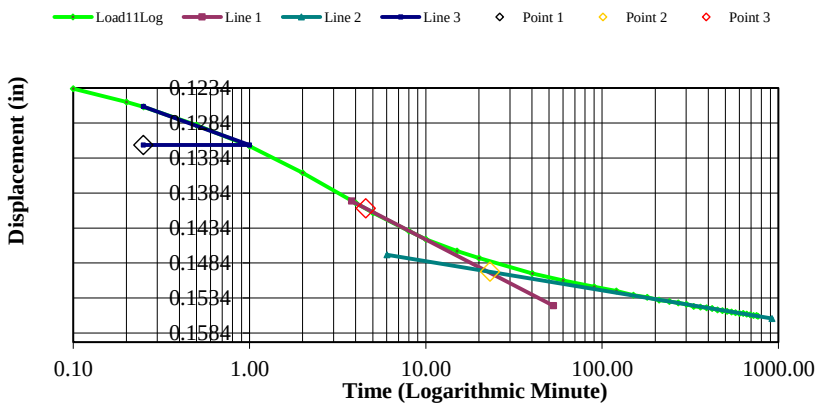
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1165	0.1162	15.8095	0.8298
1	00:00:01	0.1195	0.1192	16.2177	0.8209
2	00:00:02	0.1209	0.1206	16.4082	0.8168
3	00:00:03	0.1217	0.1214	16.5170	0.8144
4	00:00:04	0.1223	0.1220	16.5986	0.8126
5	00:00:05	0.1229	0.1226	16.6803	0.8109
6	00:00:06	0.1235	0.1232	16.7619	0.8091
7	00:00:12	0.1254	0.1251	17.0204	0.8035
8	00:00:15	0.1261	0.1258	17.1156	0.8014
9	00:00:30	0.1287	0.1284	17.4694	0.7937
10	00:01:00	0.1317	0.1314	17.8775	0.7849
11	00:02:00	0.1355	0.1352	18.3946	0.7736
12	00:04:00	0.1398	0.1395	18.9796	0.7609
13	00:05:00	0.1412	0.1409	19.1701	0.7568
14	00:08:00	0.1438	0.1435	19.5238	0.7491
15	00:10:01	0.1450	0.1447	19.6871	0.7455
16	00:15:01	0.1467	0.1464	19.9184	0.7405
17	00:20:01	0.1477	0.1474	20.0544	0.7375
18	00:40:03	0.1499	0.1496	20.3537	0.7310
19	01:00:04	0.1509	0.1506	20.4898	0.7281
20	01:30:07	0.1518	0.1515	20.6122	0.7254
21	02:00:09	0.1524	0.1521	20.6939	0.7236
22	02:30:11	0.1530	0.1527	20.7755	0.7219
23	03:00:13	0.1533	0.1530	20.8163	0.7210
24	03:30:16	0.1537	0.1534	20.8707	0.7198
25	04:00:18	0.1539	0.1536	20.8980	0.7192
26	04:30:20	0.1541	0.1538	20.9252	0.7186
27	05:00:22	0.1543	0.1540	20.9524	0.7180
28	05:30:25	0.1546	0.1543	20.9932	0.7171
29	06:00:27	0.1547	0.1544	21.0068	0.7168
30	06:30:29	0.1548	0.1545	21.0204	0.7165
31	07:00:31	0.1549	0.1546	21.0340	0.7162
32	07:30:34	0.1551	0.1548	21.0612	0.7157
33	08:00:36	0.1552	0.1549	21.0748	0.7154
34	08:30:38	0.1553	0.1550	21.0884	0.7151
35	09:00:40	0.1554	0.1551	21.1020	0.7148

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.1555	0.1552	21.1156	0.7145
37	10:00:45	0.1556	0.1553	21.1292	0.7142
38	10:30:47	0.1556	0.1553	21.1292	0.7142
39	11:00:50	0.1557	0.1554	21.1429	0.7139
40	11:30:52	0.1558	0.1555	21.1565	0.7136
41	12:00:54	0.1559	0.1556	21.1701	0.7133
42	12:30:56	0.1559	0.1556	21.1701	0.7133
43	12:43:21	0.1560	0.1557	21.1837	0.7130

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

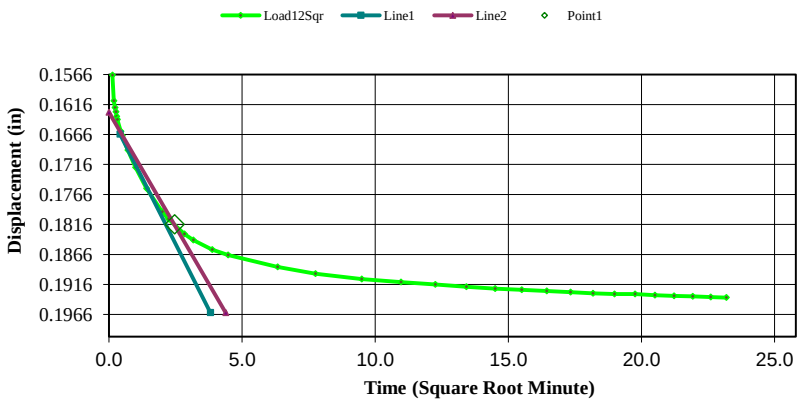
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

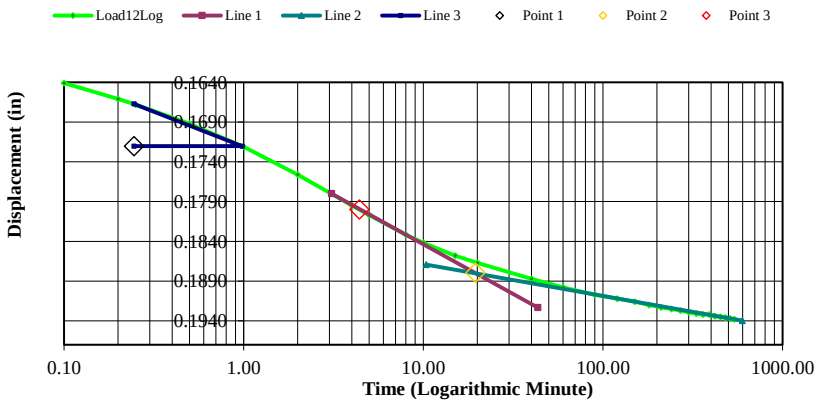
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1560	0.1557	21.1837	0.7130
1	00:00:01	0.1567	0.1564	21.2789	0.7109
2	00:00:02	0.1610	0.1607	21.8639	0.6982
3	00:00:03	0.1621	0.1618	22.0136	0.6950
4	00:00:04	0.1628	0.1625	22.1088	0.6929
5	00:00:05	0.1636	0.1633	22.2177	0.6905
6	00:00:06	0.1641	0.1638	22.2857	0.6890
7	00:00:12	0.1661	0.1658	22.5578	0.6831
8	00:00:15	0.1668	0.1665	22.6531	0.6811
9	00:00:30	0.1692	0.1689	22.9796	0.6740
10	00:01:00	0.1721	0.1718	23.3741	0.6654
11	00:02:00	0.1756	0.1753	23.8503	0.6550
12	00:04:00	0.1795	0.1792	24.3810	0.6435
13	00:05:00	0.1807	0.1804	24.5442	0.6400
14	00:08:01	0.1832	0.1829	24.8844	0.6326
15	00:10:01	0.1842	0.1839	25.0204	0.6296
16	00:15:01	0.1858	0.1855	25.2381	0.6249
17	00:20:02	0.1867	0.1864	25.3605	0.6222
18	00:40:03	0.1887	0.1884	25.6327	0.6163
19	01:00:05	0.1898	0.1895	25.7823	0.6130
20	01:30:07	0.1907	0.1904	25.9048	0.6104
21	02:00:09	0.1912	0.1909	25.9728	0.6089
22	02:30:11	0.1916	0.1913	26.0272	0.6077
23	03:00:14	0.1920	0.1917	26.0816	0.6065
24	03:30:16	0.1923	0.1920	26.1224	0.6057
25	04:00:18	0.1925	0.1922	26.1497	0.6051
26	04:30:21	0.1927	0.1924	26.1769	0.6045
27	05:00:23	0.1929	0.1926	26.2041	0.6039
28	05:30:25	0.1931	0.1928	26.2313	0.6033
29	06:00:27	0.1932	0.1929	26.2449	0.6030
30	06:30:30	0.1932	0.1929	26.2449	0.6030
31	07:00:32	0.1934	0.1931	26.2721	0.6024
32	07:30:34	0.1935	0.1932	26.2857	0.6021
33	08:00:36	0.1936	0.1933	26.2993	0.6018
34	08:30:39	0.1937	0.1934	26.3129	0.6015
35	08:57:46	0.1938	0.1935	26.3265	0.6012

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

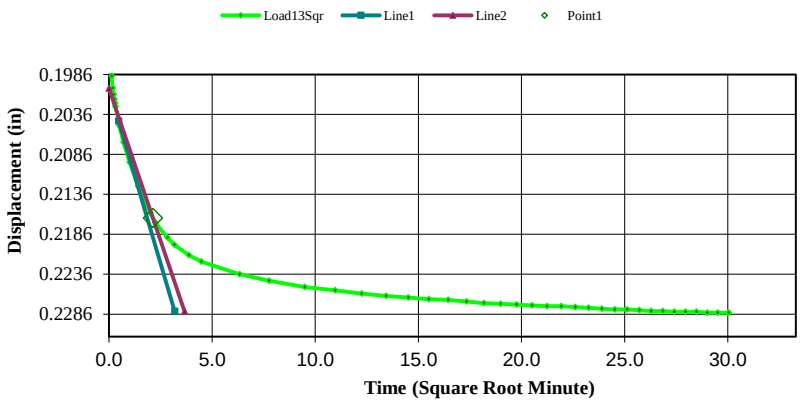
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

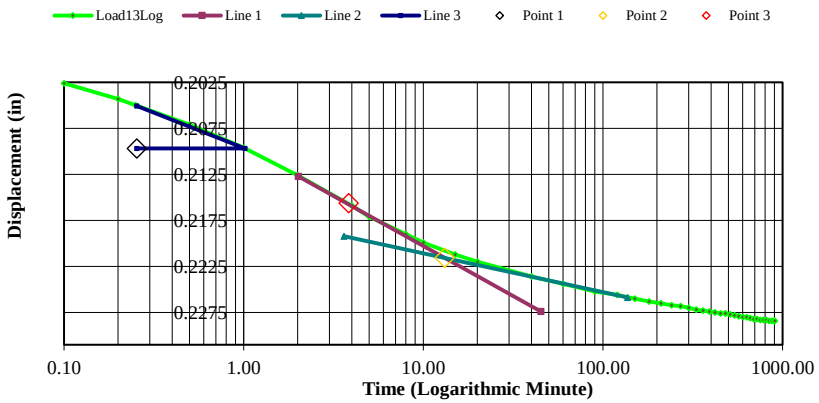
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1938	0.1935	26.3265	0.6012
1	00:00:01	0.1988	0.1985	27.0068	0.5864
2	00:00:02	0.2003	0.2000	27.2109	0.5820
3	00:00:03	0.2011	0.2008	27.3197	0.5796
4	00:00:04	0.2017	0.2014	27.4014	0.5779
5	00:00:05	0.2022	0.2019	27.4694	0.5764
6	00:00:06	0.2026	0.2023	27.5238	0.5752
7	00:00:12	0.2043	0.2040	27.7551	0.5702
8	00:00:15	0.2050	0.2047	27.8503	0.5681
9	00:00:30	0.2071	0.2068	28.1361	0.5619
10	00:01:00	0.2096	0.2093	28.4762	0.5545
11	00:02:00	0.2126	0.2123	28.8844	0.5456
12	00:04:00	0.2159	0.2156	29.3333	0.5359
13	00:05:00	0.2171	0.2168	29.4966	0.5323
14	00:08:00	0.2190	0.2187	29.7551	0.5267
15	00:10:00	0.2199	0.2196	29.8776	0.5240
16	00:15:01	0.2212	0.2209	30.0544	0.5202
17	00:20:01	0.2220	0.2217	30.1633	0.5178
18	00:40:03	0.2236	0.2233	30.3810	0.5131
19	01:00:04	0.2244	0.2241	30.4898	0.5107
20	01:30:06	0.2252	0.2249	30.5986	0.5084
21	02:00:09	0.2256	0.2253	30.6531	0.5072
22	02:30:11	0.2260	0.2257	30.7075	0.5060
23	03:00:13	0.2263	0.2260	30.7483	0.5051
24	03:30:15	0.2265	0.2262	30.7755	0.5045
25	04:00:18	0.2267	0.2264	30.8027	0.5039
26	04:30:20	0.2268	0.2265	30.8163	0.5036
27	05:00:22	0.2270	0.2267	30.8435	0.5030
28	05:30:24	0.2272	0.2269	30.8707	0.5025
29	06:00:27	0.2273	0.2270	30.8844	0.5022
30	06:30:29	0.2274	0.2271	30.8980	0.5019
31	07:00:31	0.2275	0.2272	30.9116	0.5016
32	07:30:34	0.2276	0.2273	30.9252	0.5013
33	08:00:36	0.2276	0.2273	30.9252	0.5013
34	08:30:38	0.2277	0.2274	30.9388	0.5010
35	09:00:40	0.2278	0.2275	30.9524	0.5007

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



36	09:30:43	0.2279	0.2276	30.9660	0.5004
37	10:00:45	0.2280	0.2277	30.9796	0.5001
38	10:30:47	0.2280	0.2277	30.9796	0.5001
39	11:00:49	0.2281	0.2278	30.9932	0.4998
40	11:30:52	0.2282	0.2279	31.0068	0.4995
41	12:00:54	0.2282	0.2279	31.0068	0.4995
42	12:30:56	0.2283	0.2280	31.0204	0.4992
43	13:00:59	0.2283	0.2280	31.0204	0.4992
44	13:31:01	0.2283	0.2280	31.0204	0.4992
45	14:01:03	0.2284	0.2281	31.0340	0.4989
46	14:31:05	0.2284	0.2281	31.0340	0.4989
47	15:01:08	0.2284	0.2281	31.0340	0.4989
48	15:02:44	0.2284	0.2281	31.0340	0.4989

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

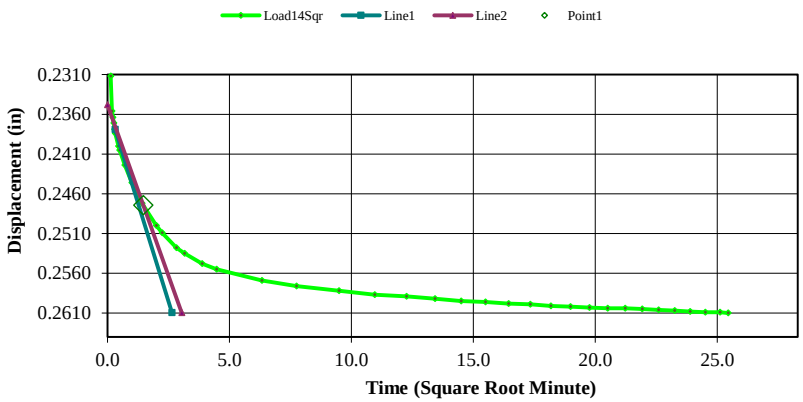
Project Number: 16715-040-00
Test Date: 09 Apr 15
Test Number:

Sample Number:
Boring Number: 6
Depth: 8 - 10 feet
Sample Type: Undisturbed

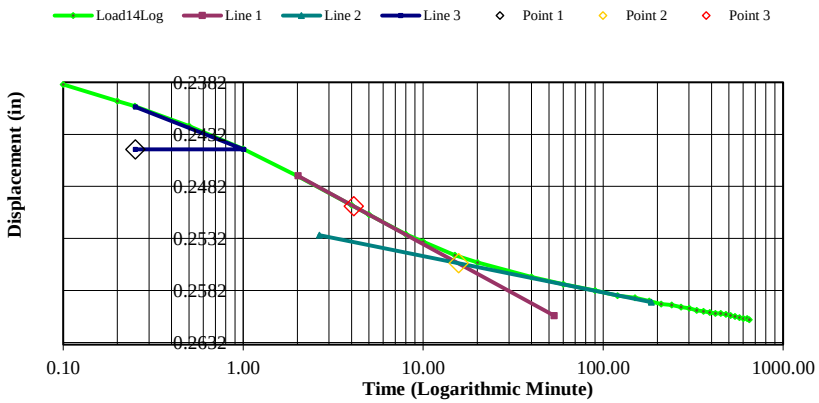
Soil Description:
Clay with silt and sand seams (CH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2284	0.2281	31.0340	0.4989
1	00:00:01	0.2312	0.2309	31.4150	0.4906
2	00:00:02	0.2356	0.2353	32.0136	0.4776
3	00:00:03	0.2364	0.2361	32.1224	0.4753
4	00:00:04	0.2371	0.2368	32.2177	0.4732
5	00:00:05	0.2379	0.2376	32.3265	0.4708
6	00:00:06	0.2384	0.2381	32.3946	0.4693
7	00:00:12	0.2400	0.2397	32.6122	0.4646
8	00:00:15	0.2405	0.2402	32.6803	0.4631
9	00:00:30	0.2424	0.2421	32.9388	0.4575
10	00:01:00	0.2446	0.2443	33.2381	0.4510
11	00:02:00	0.2472	0.2469	33.5918	0.4433
12	00:04:00	0.2500	0.2497	33.9728	0.4350
13	00:05:00	0.2509	0.2506	34.0952	0.4324
14	00:08:00	0.2528	0.2525	34.3537	0.4268
15	00:10:00	0.2535	0.2532	34.4490	0.4247
16	00:15:01	0.2548	0.2545	34.6259	0.4208
17	00:20:01	0.2555	0.2552	34.7211	0.4188
18	00:40:02	0.2569	0.2566	34.9116	0.4146
19	01:00:04	0.2576	0.2573	35.0068	0.4126
20	01:30:06	0.2582	0.2579	35.0884	0.4108
21	02:00:08	0.2587	0.2584	35.1565	0.4093
22	02:30:11	0.2589	0.2586	35.1837	0.4087
23	03:00:13	0.2592	0.2589	35.2245	0.4078
24	03:30:15	0.2595	0.2592	35.2653	0.4069
25	04:00:17	0.2596	0.2593	35.2789	0.4067
26	04:30:20	0.2598	0.2595	35.3061	0.4061
27	05:00:22	0.2599	0.2596	35.3197	0.4058
28	05:30:24	0.2601	0.2598	35.3469	0.4052
29	06:00:26	0.2602	0.2599	35.3605	0.4049
30	06:30:29	0.2603	0.2600	35.3741	0.4046
31	07:00:31	0.2604	0.2601	35.3878	0.4043
32	07:30:33	0.2604	0.2601	35.3878	0.4043
33	08:00:36	0.2605	0.2602	35.4014	0.4040
34	08:30:38	0.2606	0.2603	35.4150	0.4037
35	09:00:40	0.2607	0.2604	35.4286	0.4034

Consolidation Graph (Squareroot Time)



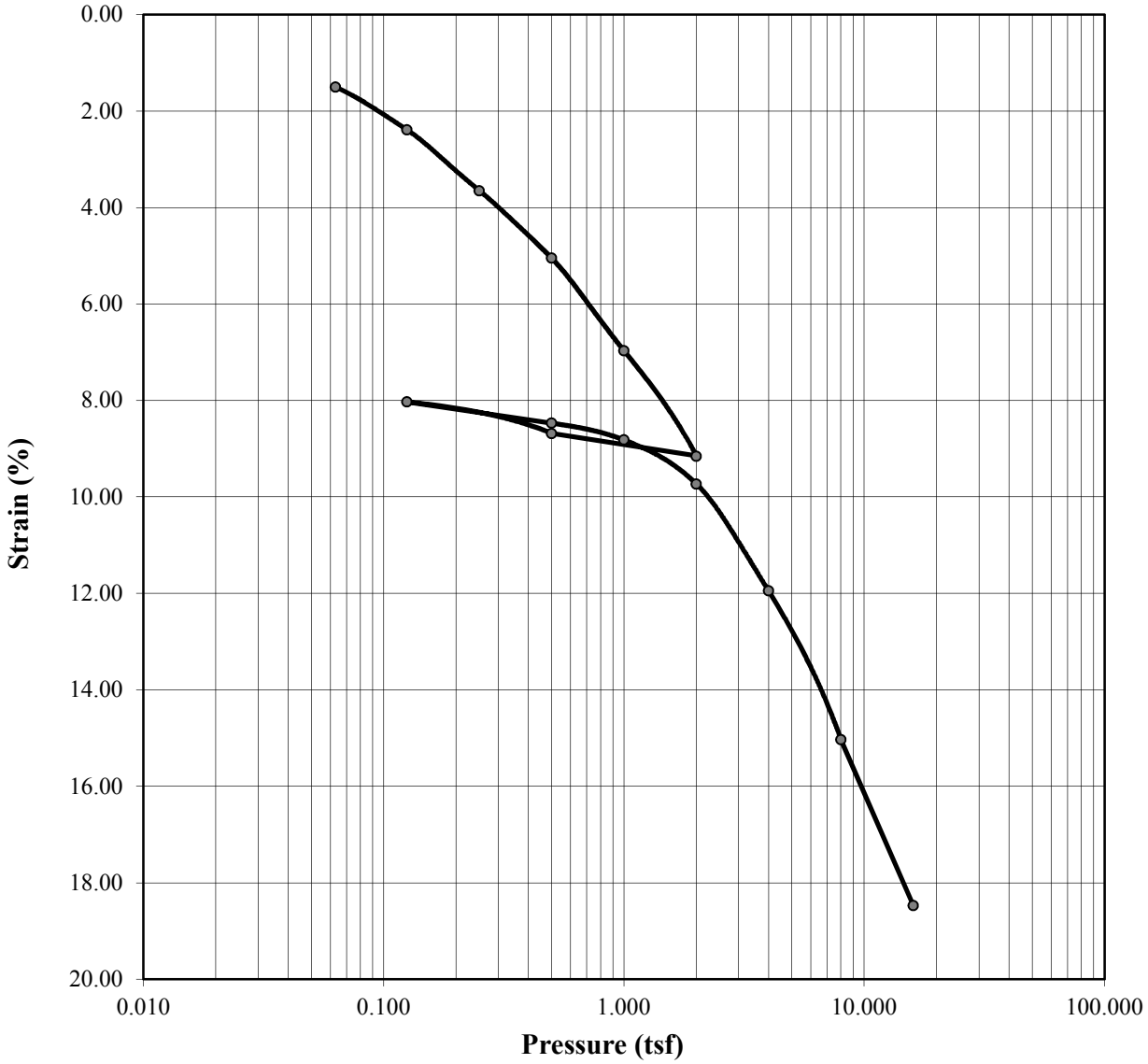
Consolidation Graph (Logarithmic Time)



36	09:30:42	0.2608	0.2605	35.4422	0.4031
37	10:00:45	0.2609	0.2606	35.4558	0.4028
38	10:30:47	0.2609	0.2606	35.4558	0.4028
39	10:47:47	0.2610	0.2607	35.4694	0.4025

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	26 Mar 15
Moisture (%):	41.24	28.12	**Plastic Limits:**	21		
Dry Density (pcf):	82.53	102.92	**Plasticity Index (%):**	13		
Saturation (%):	108.78	122.68				
Void Ratio:	1.0024	0.6325	**Specific Gravity:**	2.650	Assumed	

Sample Description: Very Silty Clay (CL)

Project Number: 16715-040-00 **Depth:** 16 - 18 feet

Sample Number: **Boring Number:** 7

Project: Island Road Marsh Creation and Nourishment (TE-117)

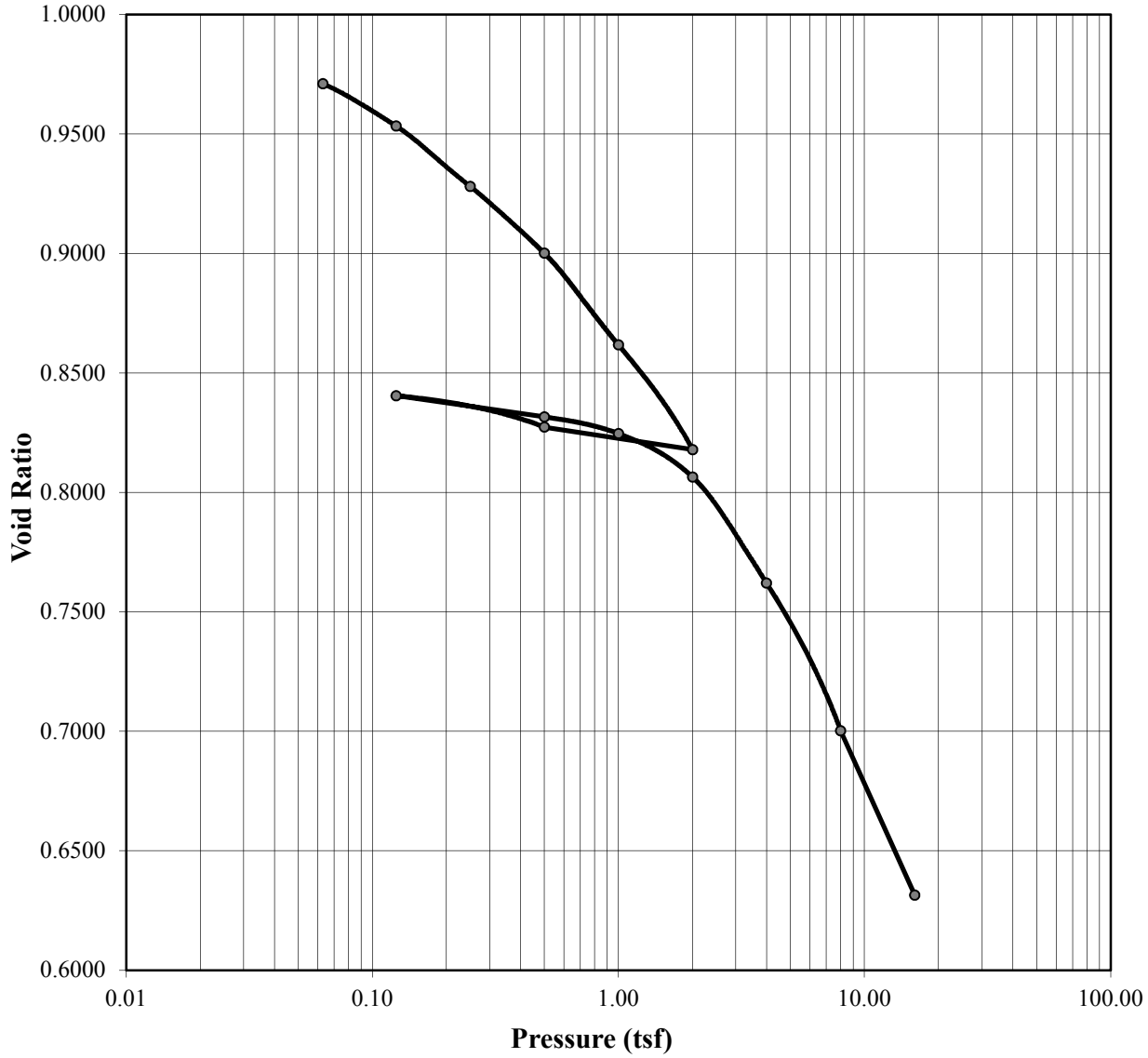
Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	26 Mar 15
Moisture (%):	41.24	28.12	**Plastic Limits:**	21		
Dry Density (pcf):	82.53	102.92	**Plasticity Index (%):**	13		
Saturation (%):	108.78	122.68				
Void Ratio:	1.0024	0.6325	**Specific Gravity:**	2.650	Assumed	

Soil Description: Very Silty Clay (CL)

Project Number: 16715-040-00 **Depth:** 16 - 18 feet

Sample Number: **Boring Number:** 7

Project: Island Road Marsh Creation and Nourishment (TE-117)

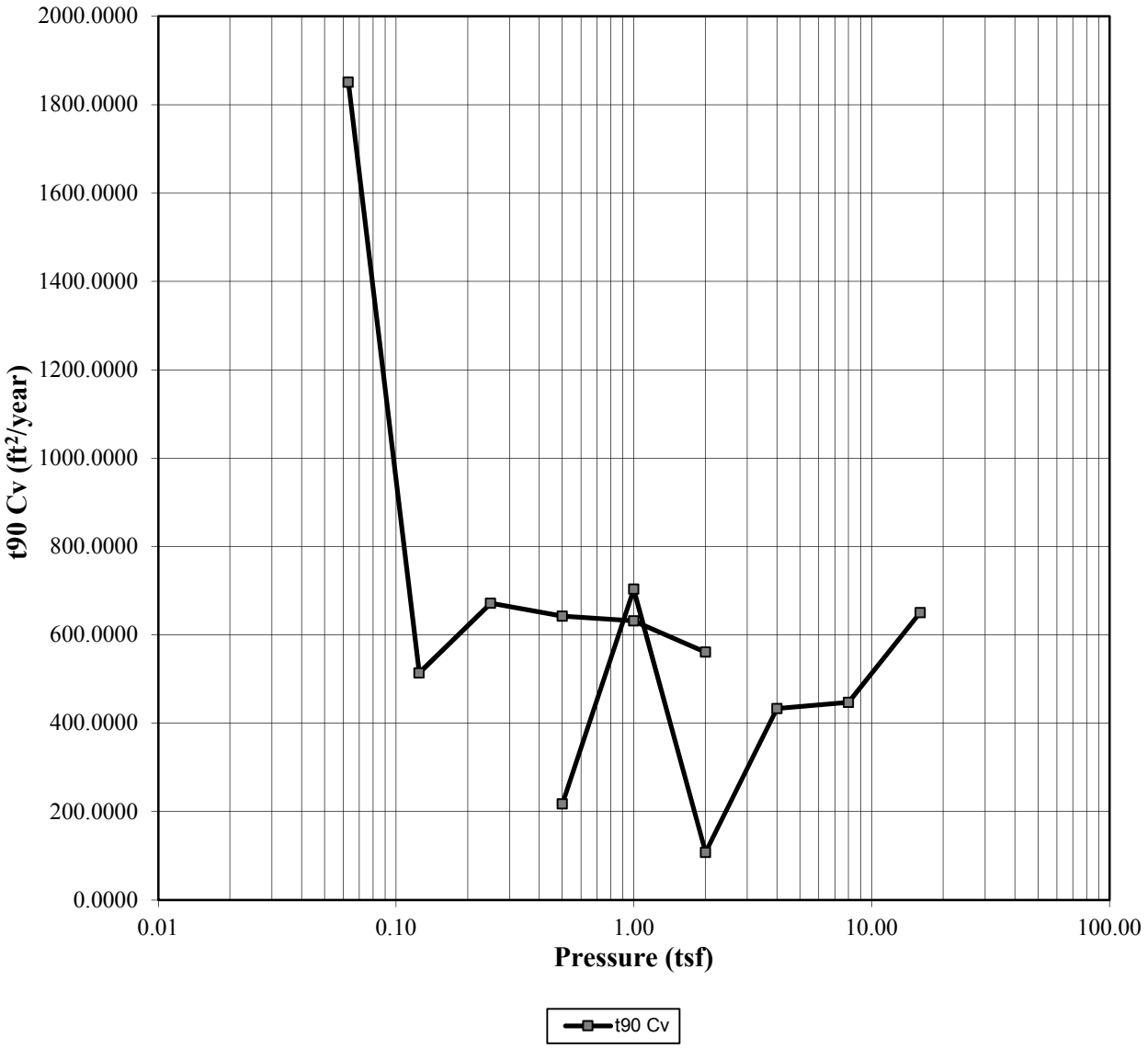
Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	26 Mar 15
Moisture (%):	41.24	28.12	**Plastic Limits:**	21		
Dry Density (pcf):	82.53	102.92	**Plasticity Index (%):**	13		
Saturation (%):	108.78	122.68				
Void Ratio:	1.0024	0.6325	**Specific Gravity:**	2.650	Assumed	

Soil Description: Very Silty Clay (CL)

Project Number: 16715-040-00 **Depth:** 16 - 18 feet

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Project: Island Road Marsh Creation and Nourishment (TE-117)

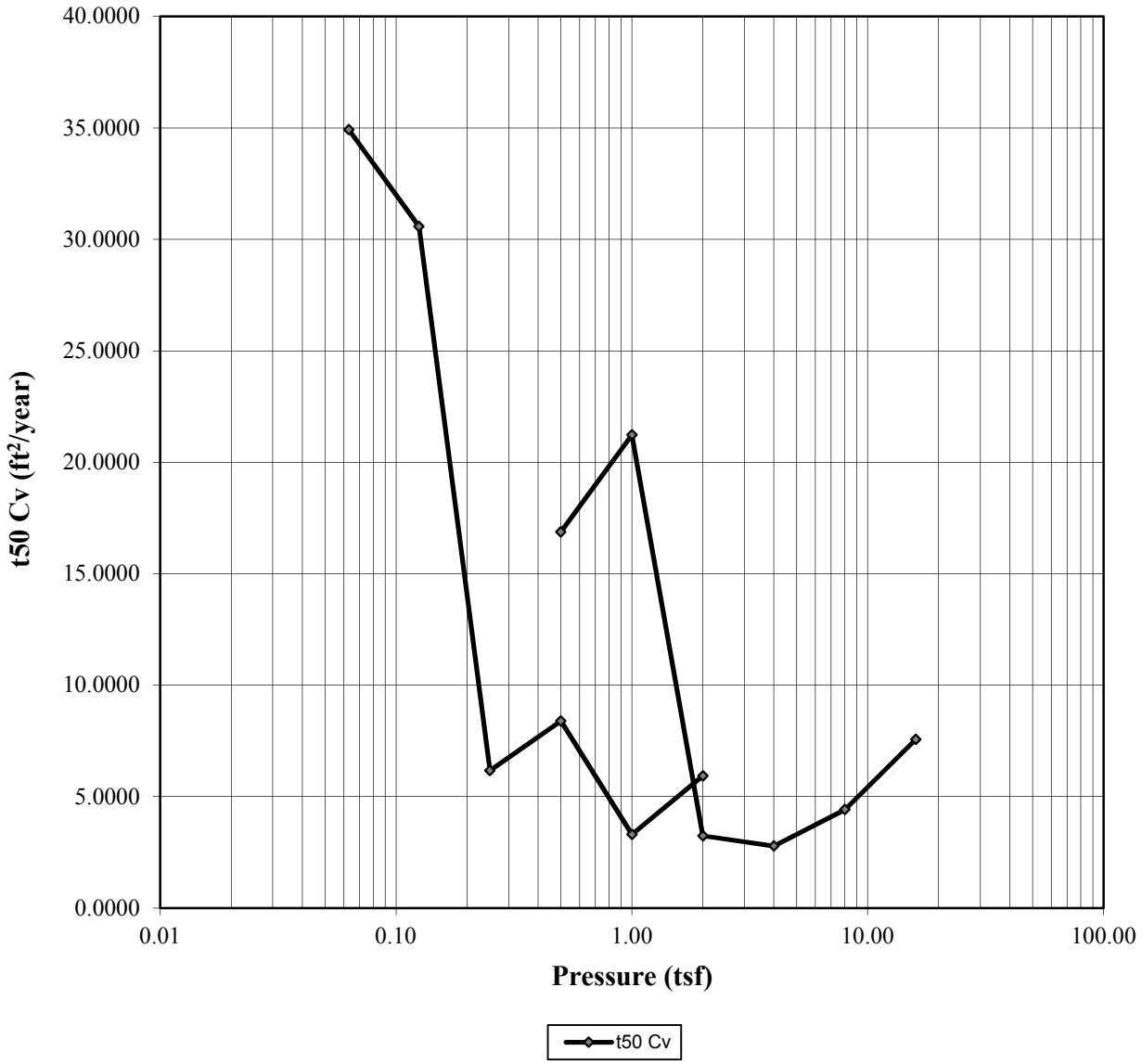
Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	26 Mar 15
Moisture (%):	41.24	28.12	**Plastic Limits:**	21		
Dry Density (pcf):	82.53	102.92	**Plasticity Index (%):**	13		
Saturation (%):	108.78	122.68				
Void Ratio:	1.0024	0.6325	**Specific Gravity:**	2.650	Assumed	

Soil Description: Very Silty Clay (CL)

Project Number: 16715-040-00 **Depth:** 16 - 18 feet

Sample Number: **Boring Number:** 7

Project: Island Road Marsh Creation and Nourishment (TE-117)

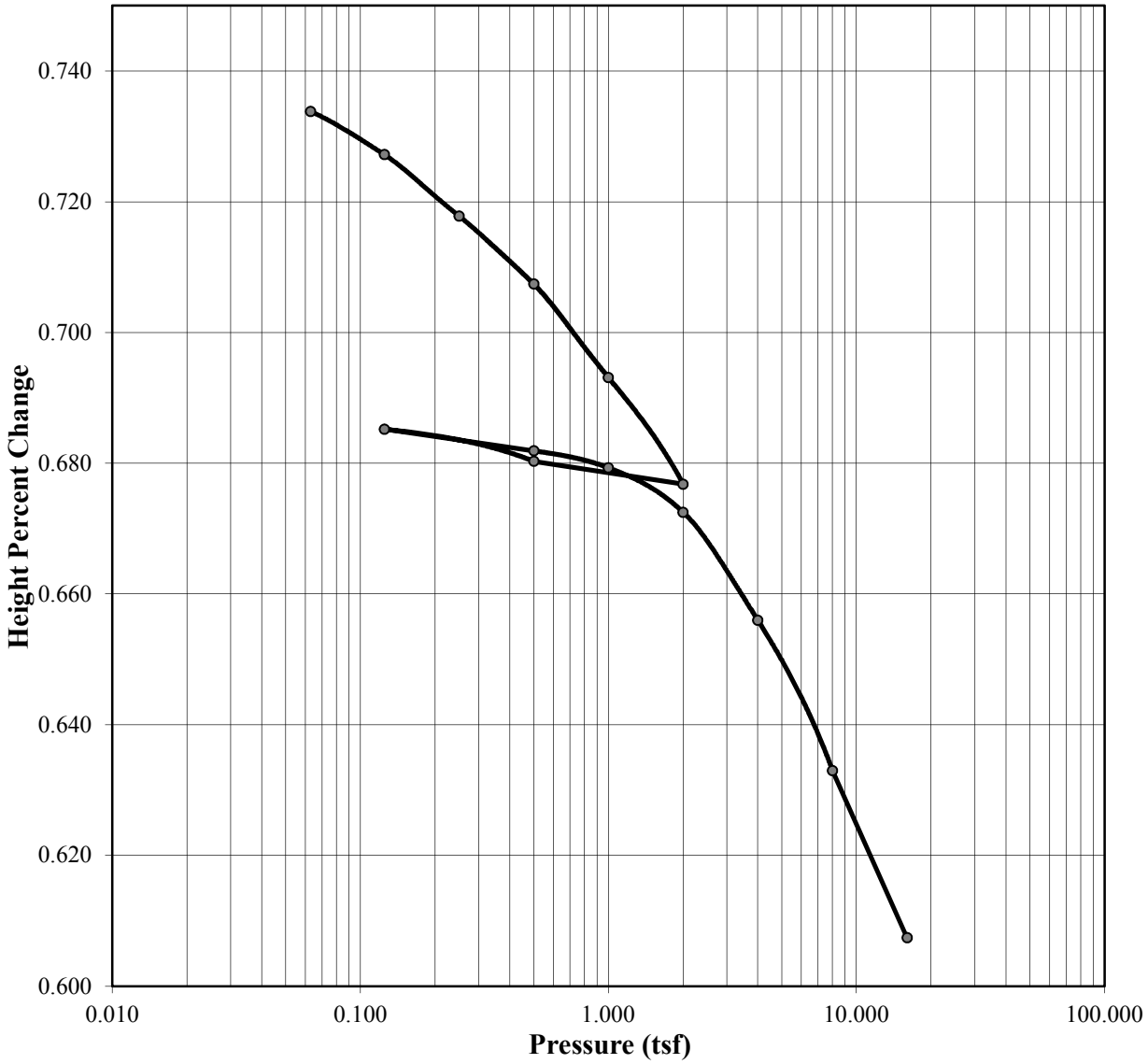
Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	34	**Test Date:**	26 Mar 15
Moisture (%):	41.24	28.12	**Plastic Limits:**	21		
Dry Density (pcf):	82.53	102.92	**Plasticity Index (%):**	13		
Saturation (%):	108.78	122.68				
Void Ratio:	1.0024	0.6325	**Specific Gravity:**	2.650	Assumed	

Soil Description: Very Silty Clay (CL)

Project Number: 16715-040-00 **Depth:** 16 - 18 feet

Sample Number: **Boring Number:** 7

Project: Island Road Marsh Creation and Nourishment (TE-117)

Client: State of LA - DNR

Location: Terrebonne Parish, LA

Remarks:

GeoEngineers

Consolidation Test Results
Summary

Project: Island Road Marsh Creation and Nourishment (TE-117)
Project Number: 6715-040-00
Location: Terrebonne Parish, LA
Job Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

Sample Description: Very Silty Clay (CL)
Remarks:

Test Number:
Test Date: 26 Mar 15

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	0.7450	0.3727	0.00	1.0011	0.000	0.000	0.000	0.000
1	0.063	0.0112	0.7338	0.3615	1.50	0.9710	0.225	2.772	1850.845	34.920
2	0.125	0.0178	0.7272	0.3549	2.39	0.9533	0.796	3.108	513.925	30.585
3	0.250	0.0272	0.7178	0.3455	3.65	0.9280	0.594	15.000	671.718	6.175
4	0.500	0.0376	0.7074	0.3351	5.05	0.9001	0.603	10.714	642.385	8.396
5	1.000	0.0519	0.6931	0.3208	6.97	0.8617	0.589	26.118	631.566	3.306
6	2.000	0.0682	0.6768	0.3045	9.15	0.8179	0.632	13.865	561.060	5.939
7	0.500	0.0647	0.6803	0.3080	8.68	0.8273	0.000	0.000	0.000	0.000
8	0.125	0.0598	0.6852	0.3129	8.03	0.8405	0.000	0.000	0.000	0.000
9	0.500	0.0631	0.6819	0.3096	8.47	0.8316	1.656	4.954	217.249	16.873
10	1.000	0.0657	0.6793	0.3070	8.82	0.8246	0.508	3.907	703.089	21.233
11	2.000	0.0725	0.6725	0.3002	9.73	0.8064	3.247	25.094	107.770	3.240
12	4.000	0.0890	0.6560	0.2837	11.95	0.7620	0.769	27.764	433.057	2.786
13	8.000	0.1120	0.6330	0.2607	15.03	0.7003	0.693	16.290	447.289	4.422
14	16.000	0.1376	0.6074	0.2351	18.47	0.6315	0.439	8.757	650.016	7.573

Predicted value indicated with *

Consolidation Test
Consolidation Specimen Information

Project: Island Road Marsh Creation and Nourishment (TE-117) **Project Number:** 6715-040-00
Location: Terrebonne Parish, LA
Job Number: **Test Date:** 26 Mar 15

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

Sample Description:
Very Silty Clay (CL)
Remarks:

Test Number:
Liquid Limit: 34.0000
Plastic Limit: 21.0000
Specific Gravity: 2.6500 Assumed

Initial Void Ratio: 1.0024
Plasticity Index (%): 13.0000
Weight of Ring (g): 234.4300

Initial Height (in): 0.7450
Initial Diameter (in): 2.5000

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	108.95	123.47
Dry Soil + Container (g)	82.41	101.32
Weight of Container (g)	18.06	22.54
Moisture Content (%)	41.24	28.12
Void Ratio	1.0024	0.6325
Saturation (%)	108.78	122.68
Dry Density (pcf)	82.53	102.92

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

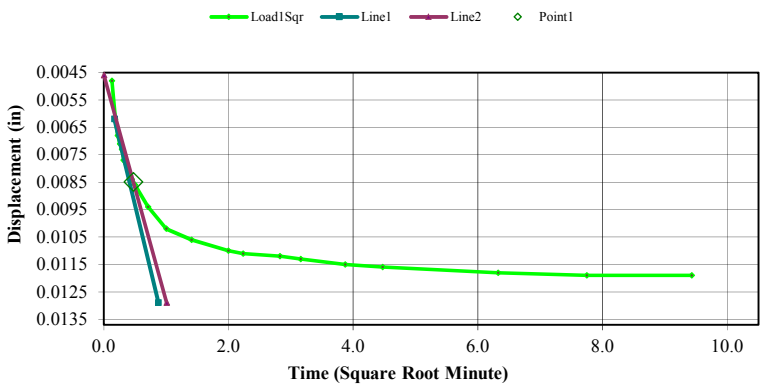
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

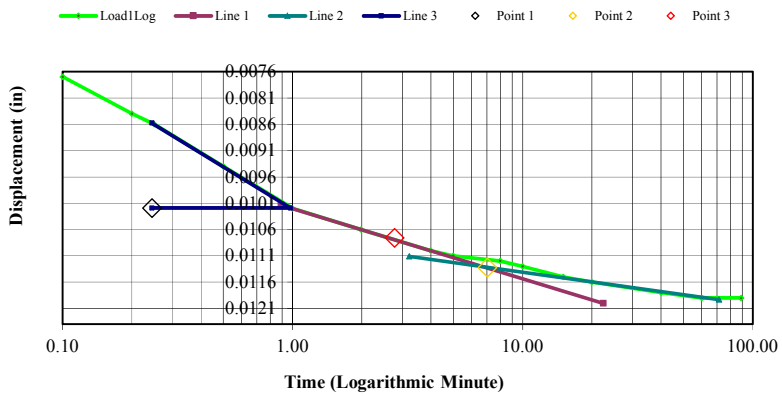
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0007	0.0000	0.0000	1.0024
1	00:00:01	0.0048	0.0041	0.5503	0.9913
2	00:00:02	0.0062	0.0055	0.7383	0.9876
3	00:00:03	0.0068	0.0061	0.8188	0.9860
4	00:00:04	0.0071	0.0064	0.8591	0.9852
5	00:00:05	0.0073	0.0066	0.8859	0.9846
6	00:00:06	0.0077	0.0070	0.9396	0.9835
7	00:00:12	0.0084	0.0077	1.0336	0.9817
8	00:00:15	0.0086	0.0079	1.0604	0.9811
9	00:00:30	0.0094	0.0087	1.1678	0.9790
10	00:01:00	0.0102	0.0095	1.2752	0.9768
11	00:01:59	0.0106	0.0099	1.3289	0.9757
12	00:03:59	0.0110	0.0103	1.3826	0.9747
13	00:04:59	0.0111	0.0104	1.3960	0.9744
14	00:07:59	0.0112	0.0105	1.4094	0.9741
15	00:09:59	0.0113	0.0106	1.4228	0.9739
16	00:14:59	0.0115	0.0108	1.4497	0.9733
17	00:19:59	0.0116	0.0109	1.4631	0.9731
18	00:39:59	0.0118	0.0111	1.4899	0.9725
19	00:59:59	0.0119	0.0112	1.5034	0.9723
20	01:28:58	0.0119	0.0112	1.5034	0.9723

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

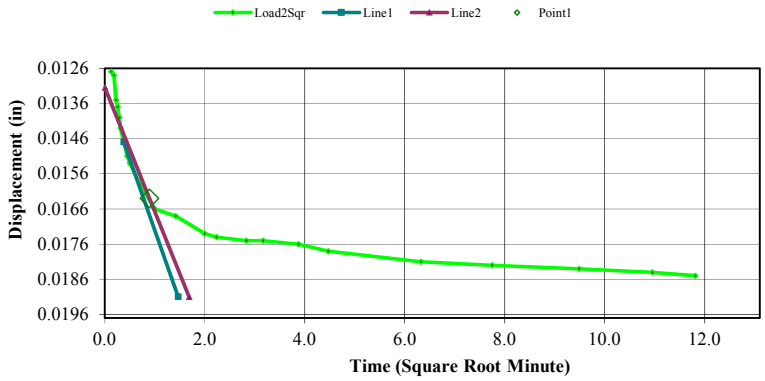
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

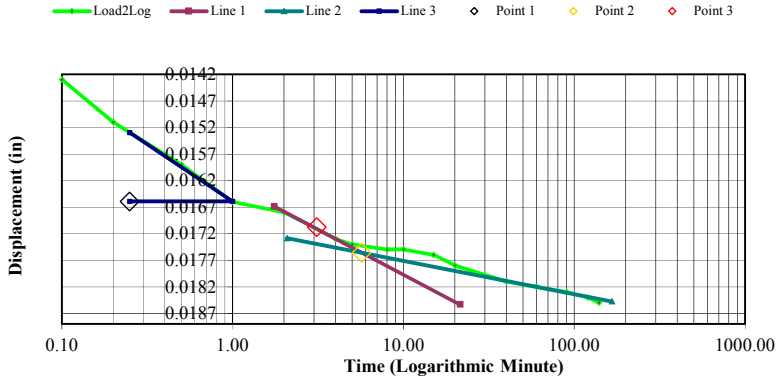
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0119	0.0112	1.5034	0.9723
1	00:00:01	0.0127	0.0120	1.6107	0.9701
2	00:00:02	0.0128	0.0121	1.6242	0.9698
3	00:00:03	0.0135	0.0128	1.7181	0.9680
4	00:00:04	0.0137	0.0130	1.7450	0.9674
5	00:00:05	0.0140	0.0133	1.7852	0.9666
6	00:00:06	0.0143	0.0136	1.8255	0.9658
7	00:00:12	0.0151	0.0144	1.9329	0.9637
8	00:00:15	0.0153	0.0146	1.9597	0.9631
9	00:00:30	0.0159	0.0152	2.0403	0.9615
10	00:01:00	0.0166	0.0159	2.1342	0.9596
11	00:02:00	0.0168	0.0161	2.1611	0.9591
12	00:04:00	0.0173	0.0166	2.2282	0.9577
13	00:05:00	0.0174	0.0167	2.2416	0.9575
14	00:08:00	0.0175	0.0168	2.2550	0.9572
15	00:10:00	0.0175	0.0168	2.2550	0.9572
16	00:15:00	0.0176	0.0169	2.2685	0.9569
17	00:20:00	0.0178	0.0171	2.2953	0.9564
18	00:40:00	0.0181	0.0174	2.3356	0.9556
19	01:00:00	0.0182	0.0175	2.3490	0.9553
20	01:29:59	0.0183	0.0176	2.3624	0.9551
21	01:59:59	0.0184	0.0177	2.3758	0.9548
22	02:19:31	0.0185	0.0178	2.3893	0.9545

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

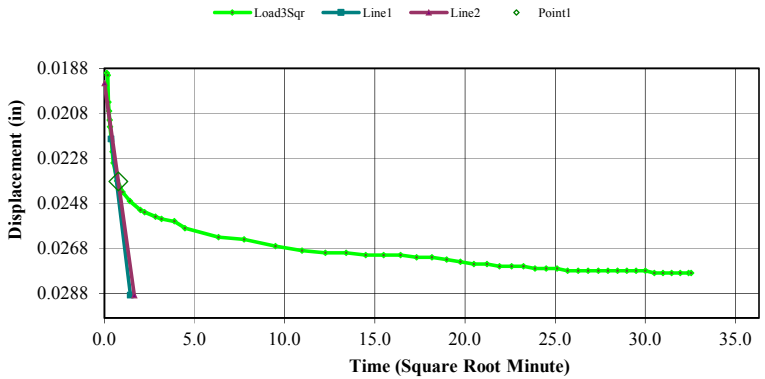
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

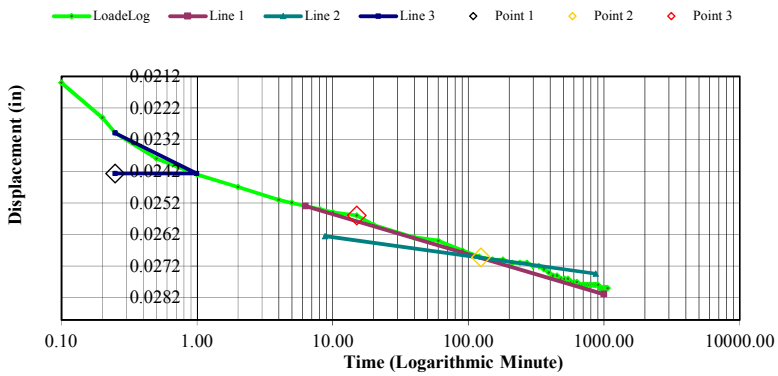
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0185	0.0178	2.3893	0.9545
1	00:00:01	0.0190	0.0183	2.4564	0.9532
2	00:00:02	0.0191	0.0184	2.4698	0.9529
3	00:00:03	0.0203	0.0196	2.6309	0.9497
4	00:00:04	0.0207	0.0200	2.6846	0.9486
5	00:00:05	0.0211	0.0204	2.7383	0.9475
6	00:00:06	0.0214	0.0207	2.7785	0.9467
7	00:00:12	0.0225	0.0218	2.9262	0.9438
8	00:00:15	0.0230	0.0223	2.9933	0.9424
9	00:00:30	0.0238	0.0231	3.1007	0.9403
10	00:01:00	0.0243	0.0236	3.1678	0.9389
11	00:02:00	0.0247	0.0240	3.2215	0.9378
12	00:03:59	0.0251	0.0244	3.2752	0.9368
13	00:04:59	0.0252	0.0245	3.2886	0.9365
14	00:07:59	0.0254	0.0247	3.3154	0.9360
15	00:09:59	0.0255	0.0248	3.3289	0.9357
16	00:14:59	0.0256	0.0249	3.3423	0.9354
17	00:19:59	0.0259	0.0252	3.3826	0.9346
18	00:39:58	0.0263	0.0256	3.4362	0.9335
19	00:59:58	0.0264	0.0257	3.4497	0.9333
20	01:29:59	0.0267	0.0260	3.4899	0.9325
21	01:59:59	0.0269	0.0262	3.5168	0.9319
22	02:29:57	0.0270	0.0263	3.5302	0.9317
23	02:59:58	0.0270	0.0263	3.5302	0.9317
24	03:29:58	0.0271	0.0264	3.5436	0.9314
25	03:59:57	0.0271	0.0264	3.5436	0.9314
26	04:29:56	0.0271	0.0264	3.5436	0.9314
27	04:59:56	0.0272	0.0265	3.5570	0.9311
28	05:29:56	0.0272	0.0265	3.5570	0.9311
29	05:59:55	0.0273	0.0266	3.5705	0.9309
30	06:29:55	0.0274	0.0267	3.5839	0.9306
31	06:59:55	0.0275	0.0268	3.5973	0.9303
32	07:29:55	0.0275	0.0268	3.5973	0.9303
33	07:59:54	0.0276	0.0269	3.6107	0.9301
34	08:29:54	0.0276	0.0269	3.6107	0.9301
35	08:59:54	0.0276	0.0269	3.6107	0.9301
36	09:29:53	0.0277	0.0270	3.6242	0.9298
37	09:59:52	0.0277	0.0270	3.6242	0.9298
38	10:29:53	0.0277	0.0270	3.6242	0.9298

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.0278	0.0271	3.6376	0.9295
40	11:29:52	0.0278	0.0271	3.6376	0.9295
41	11:59:52	0.0278	0.0271	3.6376	0.9295
42	12:29:52	0.0278	0.0271	3.6376	0.9295
43	12:59:52	0.0278	0.0271	3.6376	0.9295
44	13:29:51	0.0278	0.0271	3.6376	0.9295
45	13:59:51	0.0278	0.0271	3.6376	0.9295
46	14:29:51	0.0278	0.0271	3.6376	0.9295
47	14:59:50	0.0278	0.0271	3.6376	0.9295
48	15:29:50	0.0279	0.0272	3.6510	0.9292
49	15:59:50	0.0279	0.0272	3.6510	0.9292
50	16:29:49	0.0279	0.0272	3.6510	0.9292
51	16:59:48	0.0279	0.0272	3.6510	0.9292
52	17:29:49	0.0279	0.0272	3.6510	0.9292
53	17:38:13	0.0279	0.0272	3.6510	0.9292

Consolidation Test Results
(Sequence 4) Load 0.500 tsf

Consolidation Test Results
(Sequence 4) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

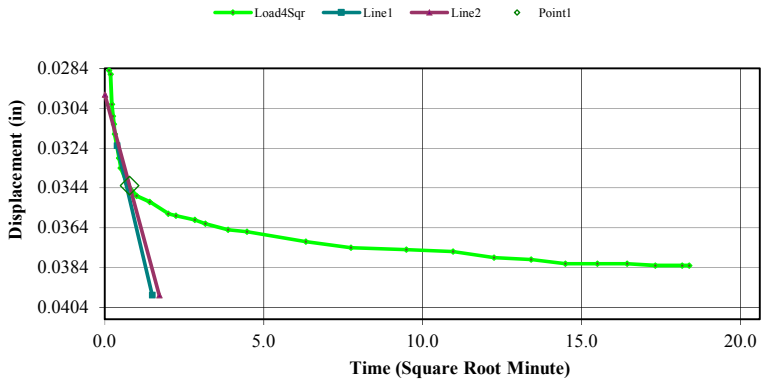
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

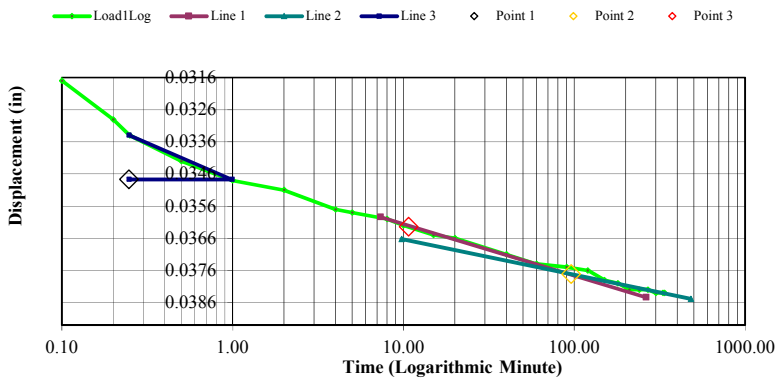
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0279	0.0272	3.6510	0.9292
1	00:00:01	0.0285	0.0278	3.7315	0.9276
2	00:00:02	0.0287	0.0280	3.7584	0.9271
3	00:00:03	0.0302	0.0295	3.9597	0.9231
4	00:00:04	0.0308	0.0301	4.0403	0.9215
5	00:00:05	0.0312	0.0305	4.0940	0.9204
6	00:00:06	0.0317	0.0310	4.1611	0.9190
7	00:00:12	0.0329	0.0322	4.3221	0.9158
8	00:00:15	0.0334	0.0327	4.3893	0.9145
9	00:00:30	0.0342	0.0335	4.4966	0.9123
10	00:01:00	0.0348	0.0341	4.5772	0.9107
11	00:02:00	0.0351	0.0344	4.6174	0.9099
12	00:04:00	0.0357	0.0350	4.6980	0.9083
13	00:05:00	0.0358	0.0351	4.7114	0.9080
14	00:08:00	0.0360	0.0353	4.7383	0.9075
15	00:10:00	0.0362	0.0355	4.7651	0.9069
16	00:15:00	0.0365	0.0358	4.8054	0.9061
17	00:20:00	0.0366	0.0359	4.8188	0.9059
18	00:39:59	0.0371	0.0364	4.8859	0.9045
19	00:59:59	0.0374	0.0367	4.9262	0.9037
20	01:29:59	0.0375	0.0368	4.9396	0.9034
21	01:59:59	0.0376	0.0369	4.9530	0.9032
22	02:29:58	0.0379	0.0372	4.9933	0.9024
23	02:59:58	0.0380	0.0373	5.0067	0.9021
24	03:29:58	0.0382	0.0375	5.0336	0.9016
25	03:59:58	0.0382	0.0375	5.0336	0.9016
26	04:29:57	0.0382	0.0375	5.0336	0.9016
27	04:59:57	0.0383	0.0376	5.0470	0.9013
28	05:29:58	0.0383	0.0376	5.0470	0.9013
29	05:37:49	0.0383	0.0376	5.0470	0.9013

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 1.000 tsf

Consolidation Test Results
(Sequence 5) Load 1.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

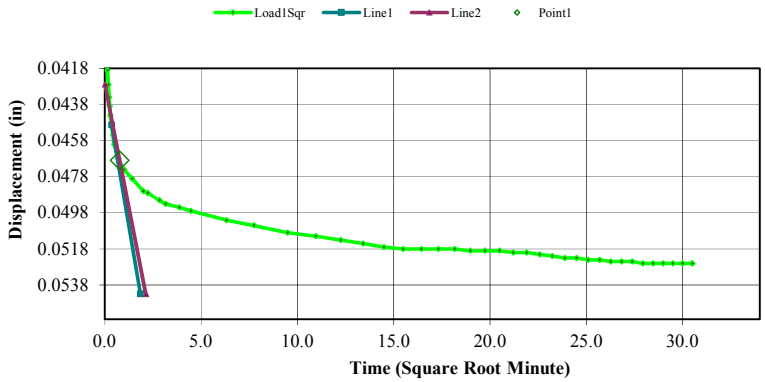
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

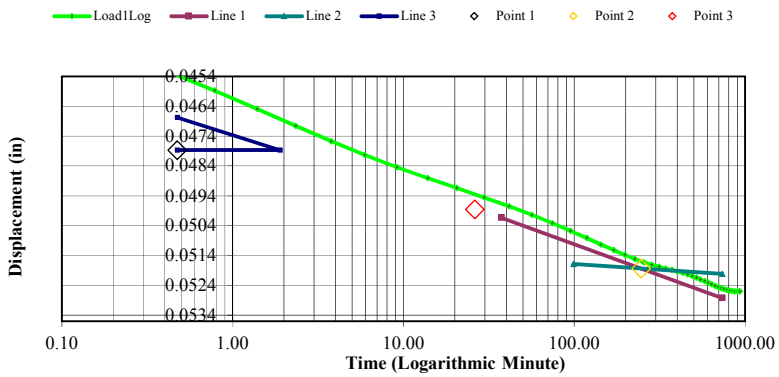
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0383	0.0376	5.0470	0.9013
1	00:00:00	0.0404	0.0397	5.3289	0.8957
2	00:00:01	0.0419	0.0412	5.5302	0.8916
3	00:00:02	0.0427	0.0420	5.6376	0.8895
4	00:00:03	0.0434	0.0427	5.7315	0.8876
5	00:00:04	0.0439	0.0432	5.7987	0.8862
6	00:00:05	0.0444	0.0437	5.8658	0.8849
7	00:00:11	0.0455	0.0448	6.0134	0.8819
8	00:00:14	0.0460	0.0453	6.0805	0.8806
9	00:00:29	0.0468	0.0461	6.1879	0.8785
10	00:00:59	0.0474	0.0467	6.2685	0.8768
11	00:01:59	0.0479	0.0472	6.3356	0.8755
12	00:04:00	0.0486	0.0479	6.4295	0.8736
13	00:05:00	0.0487	0.0480	6.4430	0.8733
14	00:07:59	0.0491	0.0484	6.4966	0.8723
15	00:09:59	0.0493	0.0486	6.5235	0.8717
16	00:14:59	0.0495	0.0488	6.5503	0.8712
17	00:19:59	0.0497	0.0490	6.5772	0.8707
18	00:39:58	0.0502	0.0495	6.6443	0.8693
19	00:59:58	0.0505	0.0498	6.6846	0.8685
20	01:29:59	0.0509	0.0502	6.7383	0.8674
21	01:59:59	0.0511	0.0504	6.7651	0.8669
22	02:29:58	0.0513	0.0506	6.7919	0.8664
23	02:59:58	0.0515	0.0508	6.8188	0.8658
24	03:29:58	0.0517	0.0510	6.8456	0.8653
25	03:59:57	0.0518	0.0511	6.8591	0.8650
26	04:29:56	0.0518	0.0511	6.8591	0.8650
27	04:59:57	0.0518	0.0511	6.8591	0.8650
28	05:29:57	0.0518	0.0511	6.8591	0.8650
29	05:59:56	0.0519	0.0512	6.8725	0.8647
30	06:29:55	0.0519	0.0512	6.8725	0.8647
31	06:59:55	0.0519	0.0512	6.8725	0.8647
32	07:29:55	0.0520	0.0513	6.8859	0.8645
33	07:59:54	0.0520	0.0513	6.8859	0.8645
34	08:29:54	0.0521	0.0514	6.8993	0.8642
35	08:59:55	0.0522	0.0515	6.9128	0.8639
36	09:29:54	0.0523	0.0516	6.9262	0.8637
37	09:59:53	0.0523	0.0516	6.9262	0.8637
38	10:29:54	0.0524	0.0517	6.9396	0.8634

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:54	0.0524	0.0517	6.9396	0.8634
40	11:29:53	0.0525	0.0518	6.9530	0.8631
41	11:59:52	0.0525	0.0518	6.9530	0.8631
42	12:29:53	0.0525	0.0518	6.9530	0.8631
43	12:59:52	0.0526	0.0519	6.9664	0.8629
44	13:29:51	0.0526	0.0519	6.9664	0.8629
45	13:59:52	0.0526	0.0519	6.9664	0.8629
46	14:29:52	0.0526	0.0519	6.9664	0.8629
47	14:59:51	0.0526	0.0519	6.9664	0.8629
48	15:29:50	0.0526	0.0519	6.9664	0.8629
49	15:30:49	0.0526	0.0519	6.9664	0.8629

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

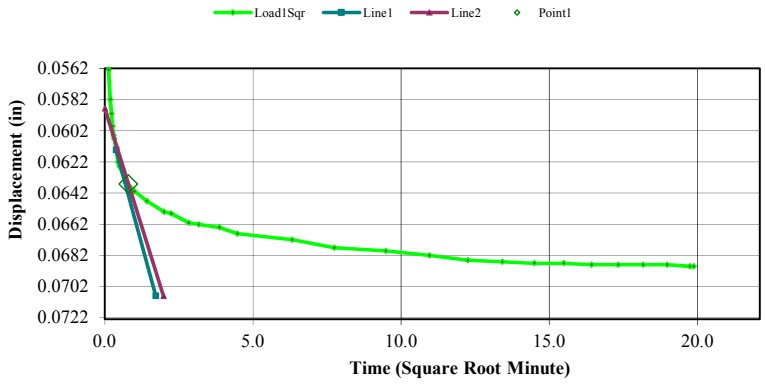
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

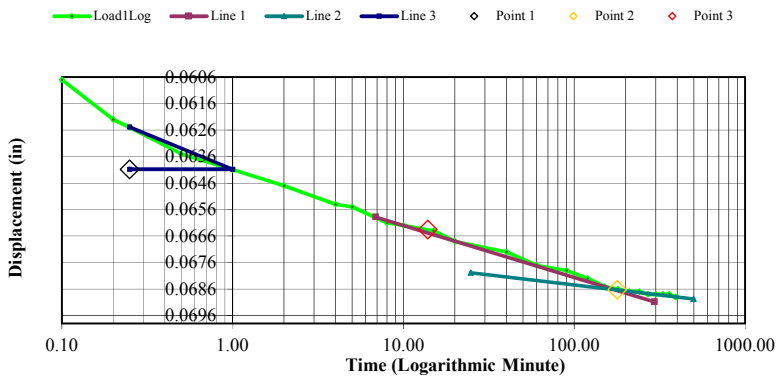
Soil Description: Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0526	0.0519	6.9664	0.8629
1	00:00:01	0.0563	0.0556	7.4631	0.8529
2	00:00:02	0.0582	0.0575	7.7181	0.8478
3	00:00:03	0.0591	0.0584	7.8389	0.8454
4	00:00:04	0.0599	0.0592	7.9463	0.8432
5	00:00:05	0.0605	0.0598	8.0268	0.8416
6	00:00:06	0.0607	0.0600	8.0537	0.8411
7	00:00:12	0.0622	0.0615	8.2550	0.8371
8	00:00:15	0.0625	0.0618	8.2953	0.8363
9	00:00:30	0.0635	0.0628	8.4295	0.8336
10	00:01:00	0.0641	0.0634	8.5101	0.8320
11	00:02:00	0.0647	0.0640	8.5906	0.8303
12	00:04:00	0.0654	0.0647	8.6846	0.8285
13	00:05:00	0.0655	0.0648	8.6980	0.8282
14	00:08:00	0.0661	0.0654	8.7785	0.8266
15	00:10:00	0.0662	0.0655	8.7919	0.8263
16	00:15:00	0.0664	0.0657	8.8188	0.8258
17	00:20:00	0.0668	0.0661	8.8725	0.8247
18	00:40:00	0.0672	0.0665	8.9262	0.8236
19	01:00:00	0.0677	0.0670	8.9933	0.8223
20	01:29:59	0.0679	0.0672	9.0201	0.8217
21	02:00:00	0.0682	0.0675	9.0604	0.8209
22	02:29:59	0.0685	0.0678	9.1007	0.8201
23	02:59:58	0.0686	0.0679	9.1141	0.8199
24	03:29:58	0.0687	0.0680	9.1275	0.8196
25	03:59:58	0.0687	0.0680	9.1275	0.8196
26	04:29:57	0.0688	0.0681	9.1409	0.8193
27	04:59:57	0.0688	0.0681	9.1409	0.8193
28	05:29:57	0.0688	0.0681	9.1409	0.8193
29	05:59:57	0.0688	0.0681	9.1409	0.8193
30	06:29:56	0.0689	0.0682	9.1544	0.8191
31	06:34:54	0.0689	0.0682	9.1544	0.8191

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Consolidation Test Results
(Sequence 7) Rebound 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

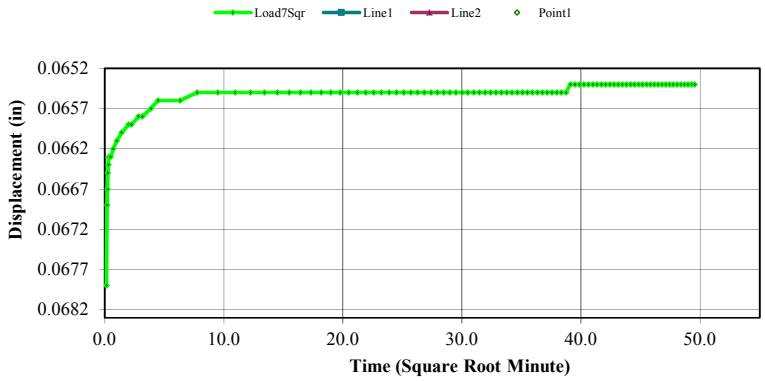
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

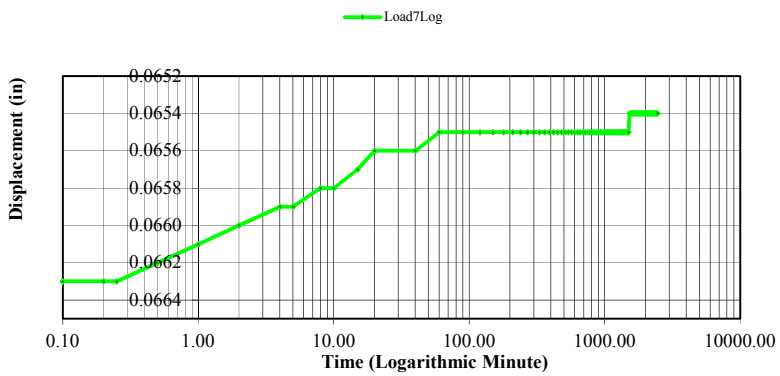
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0689	0.0682	9.1544	0.8191
1	00:00:01	0.0679	0.0672	9.0201	0.8217
2	00:00:02	0.0669	0.0662	8.8859	0.8244
3	00:00:03	0.0667	0.0660	8.8591	0.8250
4	00:00:04	0.0665	0.0658	8.8322	0.8255
5	00:00:05	0.0664	0.0657	8.8188	0.8258
6	00:00:06	0.0663	0.0656	8.8054	0.8260
7	00:00:12	0.0663	0.0656	8.8054	0.8260
8	00:00:15	0.0663	0.0656	8.8054	0.8260
9	00:00:30	0.0662	0.0655	8.7919	0.8263
10	00:01:00	0.0661	0.0654	8.7785	0.8266
11	00:02:00	0.0660	0.0653	8.7651	0.8268
12	00:04:00	0.0659	0.0652	8.7517	0.8271
13	00:05:00	0.0659	0.0652	8.7517	0.8271
14	00:08:00	0.0658	0.0651	8.7383	0.8274
15	00:10:00	0.0658	0.0651	8.7383	0.8274
16	00:15:01	0.0657	0.0650	8.7248	0.8277
17	00:20:00	0.0656	0.0649	8.7114	0.8279
18	00:40:01	0.0656	0.0649	8.7114	0.8279
19	01:00:00	0.0655	0.0648	8.6980	0.8282
20	01:29:59	0.0655	0.0648	8.6980	0.8282
21	01:59:59	0.0655	0.0648	8.6980	0.8282
22	02:29:59	0.0655	0.0648	8.6980	0.8282
23	02:59:59	0.0655	0.0648	8.6980	0.8282
24	03:29:58	0.0655	0.0648	8.6980	0.8282
25	03:59:57	0.0655	0.0648	8.6980	0.8282
26	04:29:58	0.0655	0.0648	8.6980	0.8282
27	04:59:57	0.0655	0.0648	8.6980	0.8282
28	05:29:56	0.0655	0.0648	8.6980	0.8282
29	05:59:57	0.0655	0.0648	8.6980	0.8282
30	06:29:57	0.0655	0.0648	8.6980	0.8282
31	06:59:56	0.0655	0.0648	8.6980	0.8282
32	07:29:55	0.0655	0.0648	8.6980	0.8282
33	07:59:56	0.0655	0.0648	8.6980	0.8282
34	08:29:55	0.0655	0.0648	8.6980	0.8282
35	08:59:55	0.0655	0.0648	8.6980	0.8282
36	09:29:54	0.0655	0.0648	8.6980	0.8282
37	09:59:54	0.0655	0.0648	8.6980	0.8282
38	10:29:54	0.0655	0.0648	8.6980	0.8282

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:54	0.0655	0.0648	8.6980	0.8282
40	11:29:53	0.0655	0.0648	8.6980	0.8282
41	11:59:53	0.0655	0.0648	8.6980	0.8282
42	12:29:54	0.0655	0.0648	8.6980	0.8282
43	12:59:53	0.0655	0.0648	8.6980	0.8282
44	13:29:52	0.0655	0.0648	8.6980	0.8282
45	13:59:52	0.0655	0.0648	8.6980	0.8282
46	14:29:52	0.0655	0.0648	8.6980	0.8282
47	14:59:51	0.0655	0.0648	8.6980	0.8282
48	15:29:50	0.0655	0.0648	8.6980	0.8282
49	15:59:51	0.0655	0.0648	8.6980	0.8282
50	16:29:51	0.0655	0.0648	8.6980	0.8282
51	16:59:50	0.0655	0.0648	8.6980	0.8282
52	17:29:50	0.0655	0.0648	8.6980	0.8282
53	17:59:50	0.0655	0.0648	8.6980	0.8282
54	18:29:50	0.0655	0.0648	8.6980	0.8282
55	18:59:49	0.0655	0.0648	8.6980	0.8282
56	19:29:49	0.0655	0.0648	8.6980	0.8282
57	19:59:49	0.0655	0.0648	8.6980	0.8282
58	20:29:49	0.0655	0.0648	8.6980	0.8282
59	20:59:48	0.0655	0.0648	8.6980	0.8282
60	21:29:49	0.0655	0.0648	8.6980	0.8282
61	21:59:48	0.0655	0.0648	8.6980	0.8282
62	22:29:47	0.0655	0.0648	8.6980	0.8282
63	22:59:47	0.0655	0.0648	8.6980	0.8282
64	23:29:48	0.0655	0.0648	8.6980	0.8282
65	23:59:47	0.0655	0.0648	8.6980	0.8282
66	24:29:46	0.0655	0.0648	8.6980	0.8282
67	24:59:46	0.0655	0.0648	8.6980	0.8282
68	25:29:47	0.0654	0.0647	8.6846	0.8285
69	25:59:46	0.0654	0.0647	8.6846	0.8285
70	26:29:45	0.0654	0.0647	8.6846	0.8285
71	26:59:45	0.0654	0.0647	8.6846	0.8285
72	27:29:45	0.0654	0.0647	8.6846	0.8285
73	27:59:45	0.0654	0.0647	8.6846	0.8285
74	28:29:44	0.0654	0.0647	8.6846	0.8285
75	28:59:44	0.0654	0.0647	8.6846	0.8285
76	29:29:44	0.0654	0.0647	8.6846	0.8285
77	29:59:44	0.0654	0.0647	8.6846	0.8285
78	30:29:43	0.0654	0.0647	8.6846	0.8285
79	30:59:42	0.0654	0.0647	8.6846	0.8285
80	31:29:43	0.0654	0.0647	8.6846	0.8285
81	31:59:43	0.0654	0.0647	8.6846	0.8285
82	32:29:42	0.0654	0.0647	8.6846	0.8285
83	32:59:41	0.0654	0.0647	8.6846	0.8285
84	33:29:42	0.0654	0.0647	8.6846	0.8285
85	33:59:41	0.0654	0.0647	8.6846	0.8285
86	34:29:40	0.0654	0.0647	8.6846	0.8285
87	34:59:40	0.0654	0.0647	8.6846	0.8285
88	35:29:40	0.0654	0.0647	8.6846	0.8285
89	35:59:40	0.0654	0.0647	8.6846	0.8285
90	36:29:39	0.0654	0.0647	8.6846	0.8285
91	36:59:38	0.0654	0.0647	8.6846	0.8285
92	37:29:38	0.0654	0.0647	8.6846	0.8285
93	37:59:38	0.0654	0.0647	8.6846	0.8285

94	38:29:37	0.0654	0.0647	8.6846	0.8285
95	38:59:36	0.0654	0.0647	8.6846	0.8285
96	39:29:36	0.0654	0.0647	8.6846	0.8285
97	39:59:36	0.0654	0.0647	8.6846	0.8285
98	40:29:36	0.0654	0.0647	8.6846	0.8285
99	40:53:41	0.0654	0.0647	8.6846	0.8285

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Consolidation Test Results
(Sequence 8) Rebound 0.125 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

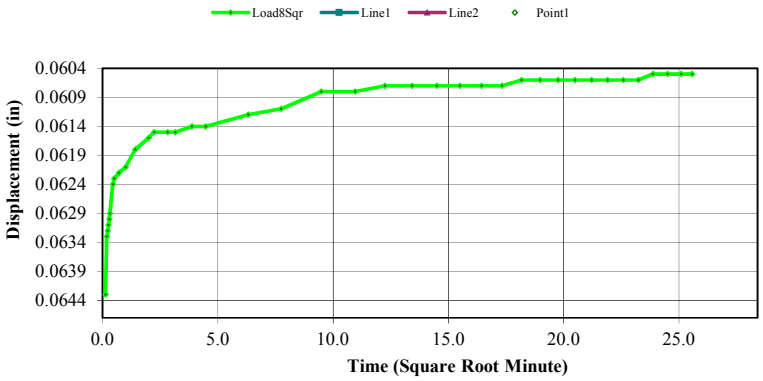
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

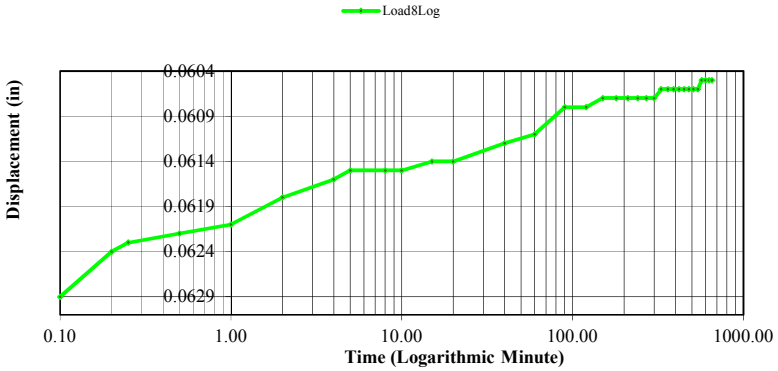
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0654	0.0647	8.6846	0.8285
1	00:00:01	0.0643	0.0636	8.5369	0.8314
2	00:00:02	0.0633	0.0626	8.4027	0.8341
3	00:00:03	0.0632	0.0625	8.3893	0.8344
4	00:00:04	0.0631	0.0624	8.3758	0.8346
5	00:00:05	0.0630	0.0623	8.3624	0.8349
6	00:00:06	0.0629	0.0622	8.3490	0.8352
7	00:00:12	0.0624	0.0617	8.2819	0.8365
8	00:00:15	0.0623	0.0616	8.2685	0.8368
9	00:00:30	0.0622	0.0615	8.2550	0.8371
10	00:01:00	0.0621	0.0614	8.2416	0.8373
11	00:02:00	0.0618	0.0611	8.2013	0.8381
12	00:04:00	0.0616	0.0609	8.1745	0.8387
13	00:05:00	0.0615	0.0608	8.1611	0.8389
14	00:07:59	0.0615	0.0608	8.1611	0.8389
15	00:09:59	0.0615	0.0608	8.1611	0.8389
16	00:14:59	0.0614	0.0607	8.1477	0.8392
17	00:20:00	0.0614	0.0607	8.1477	0.8392
18	00:39:59	0.0612	0.0605	8.1208	0.8397
19	01:00:00	0.0611	0.0604	8.1074	0.8400
20	01:29:59	0.0608	0.0601	8.0671	0.8408
21	01:59:59	0.0608	0.0601	8.0671	0.8408
22	02:29:58	0.0607	0.0600	8.0537	0.8411
23	02:59:59	0.0607	0.0600	8.0537	0.8411
24	03:29:59	0.0607	0.0600	8.0537	0.8411
25	03:59:58	0.0607	0.0600	8.0537	0.8411
26	04:29:57	0.0607	0.0600	8.0537	0.8411
27	04:59:57	0.0607	0.0600	8.0537	0.8411
28	05:29:58	0.0606	0.0599	8.0403	0.8414
29	05:59:57	0.0606	0.0599	8.0403	0.8414
30	06:29:56	0.0606	0.0599	8.0403	0.8414
31	06:59:56	0.0606	0.0599	8.0403	0.8414
32	07:29:56	0.0606	0.0599	8.0403	0.8414
33	07:59:56	0.0606	0.0599	8.0403	0.8414
34	08:29:55	0.0606	0.0599	8.0403	0.8414
35	08:59:54	0.0606	0.0599	8.0403	0.8414
36	09:29:54	0.0605	0.0598	8.0268	0.8416
37	09:59:55	0.0605	0.0598	8.0268	0.8416
38	10:29:54	0.0605	0.0598	8.0268	0.8416

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:53:40	0.0605	0.0598	8.0268	0.8416

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Consolidation Test Results
(Sequence 9) Load 0.500 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

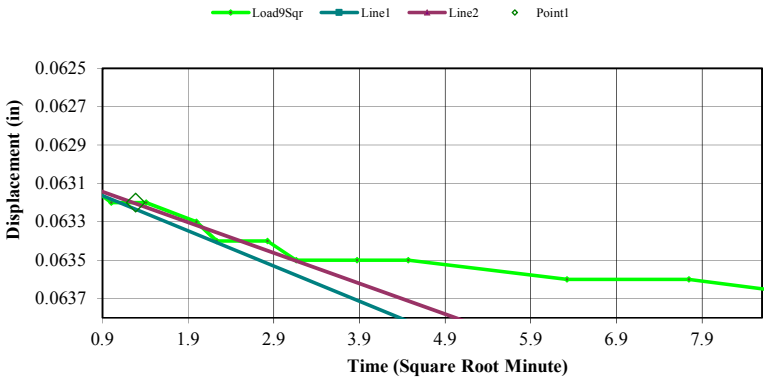
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

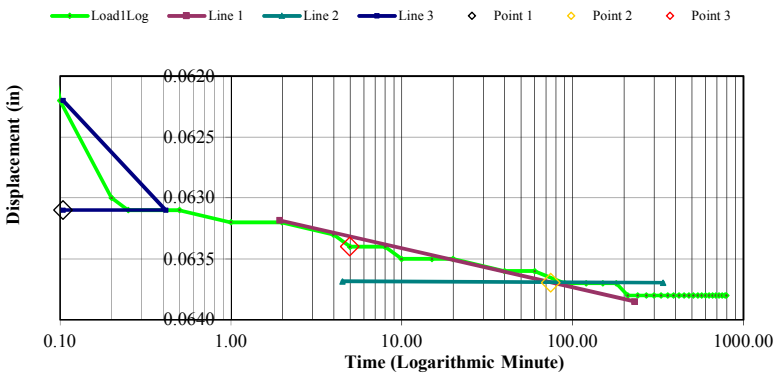
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0605	0.0598	8.0268	0.8416
1	00:00:01	0.0607	0.0600	8.0537	0.8411
2	00:00:02	0.0610	0.0603	8.0940	0.8403
3	00:00:03	0.0615	0.0608	8.1611	0.8389
4	00:00:04	0.0618	0.0611	8.2013	0.8381
5	00:00:05	0.0616	0.0609	8.1745	0.8387
6	00:00:06	0.0622	0.0615	8.2550	0.8371
7	00:00:12	0.0630	0.0623	8.3624	0.8349
8	00:00:15	0.0631	0.0624	8.3758	0.8346
9	00:00:30	0.0631	0.0624	8.3758	0.8346
10	00:01:00	0.0632	0.0625	8.3893	0.8344
11	00:01:59	0.0632	0.0625	8.3893	0.8344
12	00:03:59	0.0633	0.0626	8.4027	0.8341
13	00:04:59	0.0634	0.0627	8.4161	0.8338
14	00:07:59	0.0634	0.0627	8.4161	0.8338
15	00:09:59	0.0635	0.0628	8.4295	0.8336
16	00:14:59	0.0635	0.0628	8.4295	0.8336
17	00:19:59	0.0635	0.0628	8.4295	0.8336
18	00:39:59	0.0636	0.0629	8.4430	0.8333
19	00:59:59	0.0636	0.0629	8.4430	0.8333
20	01:29:59	0.0637	0.0630	8.4564	0.8330
21	01:59:58	0.0637	0.0630	8.4564	0.8330
22	02:29:57	0.0637	0.0630	8.4564	0.8330
23	02:59:57	0.0637	0.0630	8.4564	0.8330
24	03:29:57	0.0638	0.0631	8.4698	0.8328
25	03:59:57	0.0638	0.0631	8.4698	0.8328
26	04:29:57	0.0638	0.0631	8.4698	0.8328
27	04:59:56	0.0638	0.0631	8.4698	0.8328
28	05:29:55	0.0638	0.0631	8.4698	0.8328
29	05:59:55	0.0638	0.0631	8.4698	0.8328
30	06:29:55	0.0638	0.0631	8.4698	0.8328
31	06:59:55	0.0638	0.0631	8.4698	0.8328
32	07:29:53	0.0638	0.0631	8.4698	0.8328
33	07:59:54	0.0638	0.0631	8.4698	0.8328
34	08:29:54	0.0638	0.0631	8.4698	0.8328
35	08:59:54	0.0638	0.0631	8.4698	0.8328
36	09:29:53	0.0638	0.0631	8.4698	0.8328
37	09:59:52	0.0638	0.0631	8.4698	0.8328
38	10:29:53	0.0638	0.0631	8.4698	0.8328

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.0638	0.0631	8.4698	0.8328
40	11:29:52	0.0638	0.0631	8.4698	0.8328
41	11:59:51	0.0638	0.0631	8.4698	0.8328
42	12:29:51	0.0638	0.0631	8.4698	0.8328
43	12:59:51	0.0638	0.0631	8.4698	0.8328
44	13:13:04	0.0638	0.0631	8.4698	0.8328

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Consolidation Test Results
(Sequence 11) Load 2.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

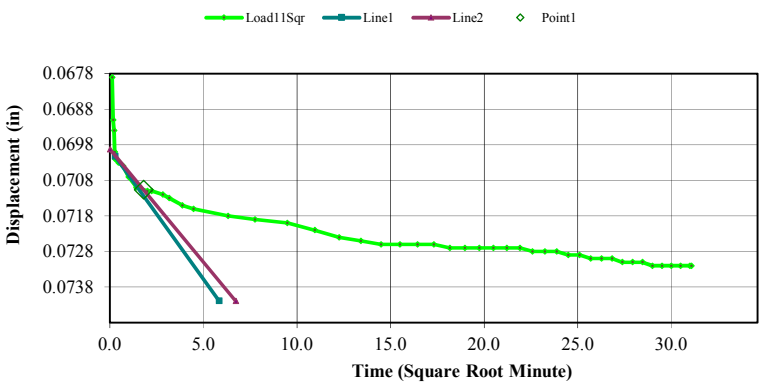
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

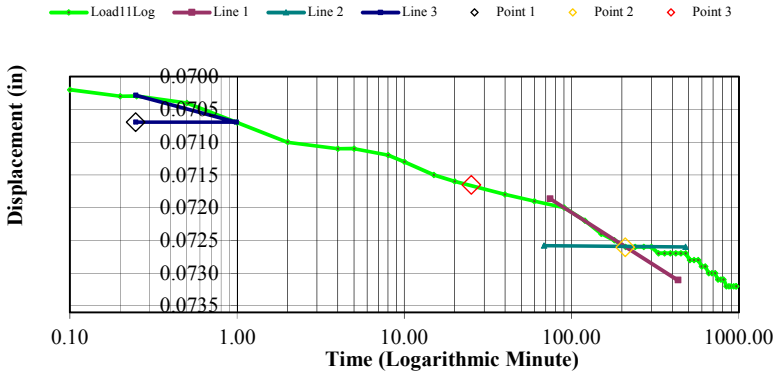
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0664	0.0657	8.8188	0.8258
1	00:00:01	0.0679	0.0672	9.0201	0.8217
2	00:00:02	0.0691	0.0684	9.1812	0.8185
3	00:00:03	0.0694	0.0687	9.2215	0.8177
4	00:00:04	0.0700	0.0693	9.3020	0.8161
5	00:00:05	0.0702	0.0695	9.3289	0.8156
6	00:00:06	0.0702	0.0695	9.3289	0.8156
7	00:00:12	0.0703	0.0696	9.3423	0.8153
8	00:00:15	0.0703	0.0696	9.3423	0.8153
9	00:00:30	0.0704	0.0697	9.3557	0.8150
10	00:01:00	0.0707	0.0700	9.3960	0.8142
11	00:02:00	0.0710	0.0703	9.4362	0.8134
12	00:04:00	0.0711	0.0704	9.4497	0.8131
13	00:05:00	0.0711	0.0704	9.4497	0.8131
14	00:08:00	0.0712	0.0705	9.4631	0.8129
15	00:10:00	0.0713	0.0706	9.4765	0.8126
16	00:14:59	0.0715	0.0708	9.5034	0.8121
17	00:19:59	0.0716	0.0709	9.5168	0.8118
18	00:39:59	0.0718	0.0711	9.5436	0.8113
19	00:59:58	0.0719	0.0712	9.5570	0.8110
20	01:29:59	0.0720	0.0713	9.5705	0.8107
21	01:59:59	0.0722	0.0715	9.5973	0.8102
22	02:29:58	0.0724	0.0717	9.6242	0.8096
23	02:59:58	0.0725	0.0718	9.6376	0.8094
24	03:29:58	0.0726	0.0719	9.6510	0.8091
25	03:59:58	0.0726	0.0719	9.6510	0.8091
26	04:29:56	0.0726	0.0719	9.6510	0.8091
27	04:59:56	0.0726	0.0719	9.6510	0.8091
28	05:29:57	0.0727	0.0720	9.6644	0.8088
29	05:59:56	0.0727	0.0720	9.6644	0.8088
30	06:29:55	0.0727	0.0720	9.6644	0.8088
31	06:59:55	0.0727	0.0720	9.6644	0.8088
32	07:29:56	0.0727	0.0720	9.6644	0.8088
33	07:59:55	0.0727	0.0720	9.6644	0.8088
34	08:29:54	0.0728	0.0721	9.6779	0.8086
35	08:59:54	0.0728	0.0721	9.6779	0.8086
36	09:29:54	0.0728	0.0721	9.6779	0.8086
37	09:59:53	0.0729	0.0722	9.6913	0.8083
38	10:29:53	0.0729	0.0722	9.6913	0.8083

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.0730	0.0723	9.7047	0.8080
40	11:29:53	0.0730	0.0723	9.7047	0.8080
41	11:59:52	0.0730	0.0723	9.7047	0.8080
42	12:29:51	0.0731	0.0724	9.7181	0.8078
43	12:59:52	0.0731	0.0724	9.7181	0.8078
44	13:29:52	0.0731	0.0724	9.7181	0.8078
45	13:59:51	0.0732	0.0725	9.7315	0.8075
46	14:29:50	0.0732	0.0725	9.7315	0.8075
47	14:59:50	0.0732	0.0725	9.7315	0.8075
48	15:29:50	0.0732	0.0725	9.7315	0.8075
49	15:59:49	0.0732	0.0725	9.7315	0.8075
50	16:05:52	0.0732	0.0725	9.7315	0.8075

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Consolidation Test Results
(Sequence 12) Load 4.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

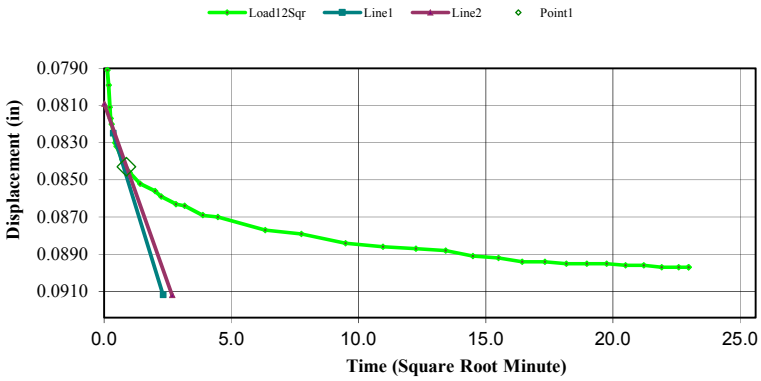
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

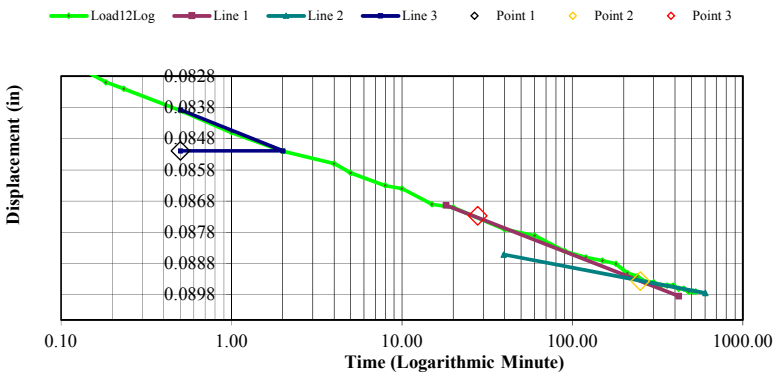
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0732	0.0725	9.7315	0.8075
1	00:00:00	0.0776	0.0769	10.3221	0.7957
2	00:00:01	0.0791	0.0784	10.5235	0.7916
3	00:00:02	0.0799	0.0792	10.6309	0.7895
4	00:00:03	0.0811	0.0804	10.7919	0.7863
5	00:00:04	0.0817	0.0810	10.8725	0.7846
6	00:00:05	0.0820	0.0813	10.9128	0.7838
7	00:00:11	0.0830	0.0823	11.0470	0.7812
8	00:00:14	0.0832	0.0825	11.0738	0.7806
9	00:00:30	0.0839	0.0832	11.1678	0.7787
10	00:01:00	0.0846	0.0839	11.2617	0.7769
11	00:02:00	0.0852	0.0845	11.3423	0.7752
12	00:04:00	0.0856	0.0849	11.3960	0.7742
13	00:05:00	0.0859	0.0852	11.4362	0.7734
14	00:07:59	0.0863	0.0856	11.4899	0.7723
15	00:09:59	0.0864	0.0857	11.5034	0.7720
16	00:14:59	0.0869	0.0862	11.5705	0.7707
17	00:19:59	0.0870	0.0863	11.5839	0.7704
18	00:39:59	0.0877	0.0870	11.6779	0.7685
19	01:00:00	0.0879	0.0872	11.7047	0.7680
20	01:29:58	0.0884	0.0877	11.7718	0.7666
21	01:59:58	0.0886	0.0879	11.7987	0.7661
22	02:29:59	0.0887	0.0880	11.8121	0.7658
23	02:59:58	0.0888	0.0881	11.8255	0.7656
24	03:29:57	0.0891	0.0884	11.8658	0.7648
25	03:59:57	0.0892	0.0885	11.8792	0.7645
26	04:29:57	0.0894	0.0887	11.9060	0.7640
27	04:59:57	0.0894	0.0887	11.9060	0.7640
28	05:29:56	0.0895	0.0888	11.9195	0.7637
29	05:59:55	0.0895	0.0888	11.9195	0.7637
30	06:29:56	0.0895	0.0888	11.9195	0.7637
31	06:59:55	0.0896	0.0889	11.9329	0.7634
32	07:29:54	0.0896	0.0889	11.9329	0.7634
33	07:59:54	0.0897	0.0890	11.9463	0.7631
34	08:29:55	0.0897	0.0890	11.9463	0.7631
35	08:47:13	0.0897	0.0890	11.9463	0.7631
36	08:47:15	0.0897	0.0890	11.9463	0.7631

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Consolidation Test Results
(Sequence 13) Load 8.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

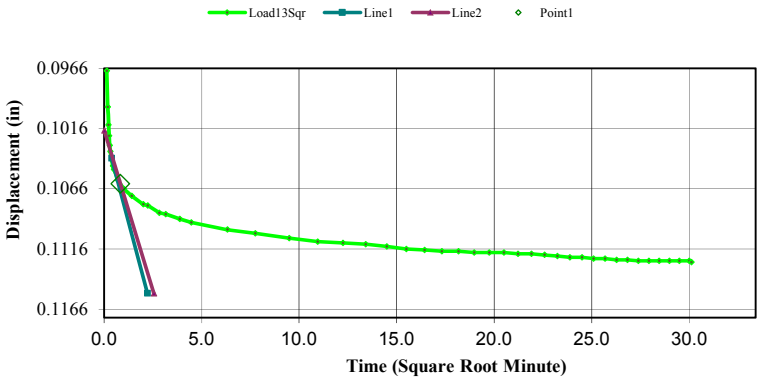
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

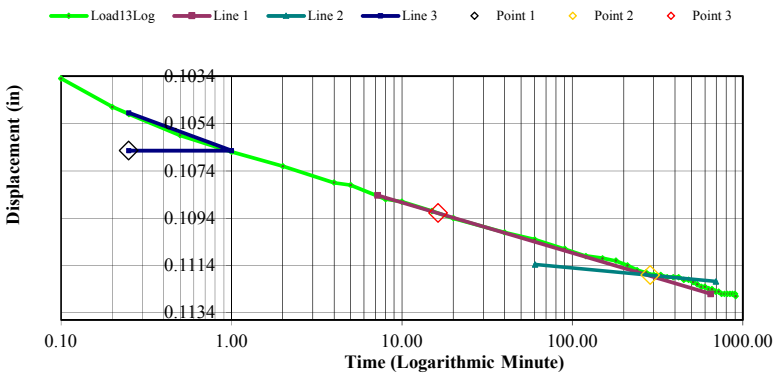
Soil Description:
Very Silty Clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0897	0.0890	11.9463	0.7631
1	00:00:01	0.0968	0.0961	12.8993	0.7441
2	00:00:02	0.0998	0.0991	13.3020	0.7360
3	00:00:03	0.1013	0.1006	13.5034	0.7320
4	00:00:04	0.1022	0.1015	13.6242	0.7296
5	00:00:05	0.1030	0.1023	13.7315	0.7274
6	00:00:06	0.1035	0.1028	13.7987	0.7261
7	00:00:12	0.1047	0.1040	13.9597	0.7228
8	00:00:15	0.1050	0.1043	14.0000	0.7220
9	00:00:30	0.1059	0.1052	14.1208	0.7196
10	00:01:00	0.1066	0.1059	14.2148	0.7177
11	00:02:00	0.1072	0.1065	14.2953	0.7161
12	00:04:00	0.1079	0.1072	14.3893	0.7142
13	00:05:00	0.1080	0.1073	14.4027	0.7140
14	00:08:00	0.1086	0.1079	14.4832	0.7123
15	00:10:00	0.1087	0.1080	14.4966	0.7121
16	00:15:00	0.1091	0.1084	14.5503	0.7110
17	00:20:00	0.1094	0.1087	14.5906	0.7102
18	00:39:59	0.1100	0.1093	14.6711	0.7086
19	00:59:58	0.1103	0.1096	14.7114	0.7078
20	01:30:00	0.1107	0.1100	14.7651	0.7067
21	01:59:59	0.1110	0.1103	14.8054	0.7059
22	02:29:59	0.1111	0.1104	14.8188	0.7056
23	02:59:58	0.1112	0.1105	14.8322	0.7054
24	03:29:58	0.1114	0.1107	14.8591	0.7048
25	03:59:58	0.1116	0.1109	14.8859	0.7043
26	04:29:58	0.1117	0.1110	14.8993	0.7040
27	04:59:57	0.1118	0.1111	14.9128	0.7037
28	05:29:58	0.1118	0.1111	14.9128	0.7037
29	05:59:58	0.1119	0.1112	14.9262	0.7035
30	06:29:57	0.1119	0.1112	14.9262	0.7035
31	06:59:56	0.1119	0.1112	14.9262	0.7035
32	07:29:56	0.1120	0.1113	14.9396	0.7032
33	07:59:56	0.1120	0.1113	14.9396	0.7032
34	08:29:55	0.1121	0.1114	14.9530	0.7029
35	08:59:54	0.1122	0.1115	14.9664	0.7027
36	09:29:54	0.1123	0.1116	14.9799	0.7024
37	09:59:55	0.1123	0.1116	14.9799	0.7024
38	10:29:54	0.1124	0.1117	14.9933	0.7021

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



39	10:59:53	0.1124	0.1117	14.9933	0.7021
40	11:29:54	0.1125	0.1118	15.0067	0.7019
41	11:59:54	0.1125	0.1118	15.0067	0.7019
42	12:29:53	0.1126	0.1119	15.0201	0.7016
43	12:59:52	0.1126	0.1119	15.0201	0.7016
44	13:29:52	0.1126	0.1119	15.0201	0.7016
45	13:59:52	0.1126	0.1119	15.0201	0.7016
46	14:29:51	0.1126	0.1119	15.0201	0.7016
47	14:59:51	0.1126	0.1119	15.0201	0.7016
48	15:06:55	0.1127	0.1120	15.0336	0.7013

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Consolidation Test Results
(Sequence 14) Load 16.000 tsf

Project: Island Road Marsh Creation and Nourishment (TE-117)
Location: Terrebonne Parish, LA
Job Number:

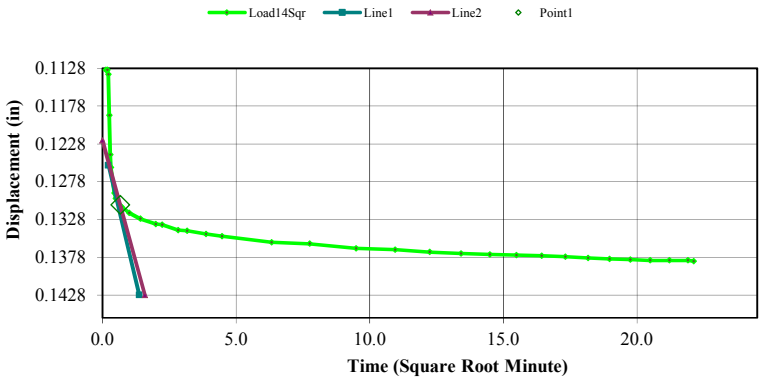
Project Number: 16715-040-00
Test Date: 26 Mar 15
Test Number:

Sample Number:
Boring Number: 7
Depth: 16 - 18 feet
Sample Type: Undisturbed

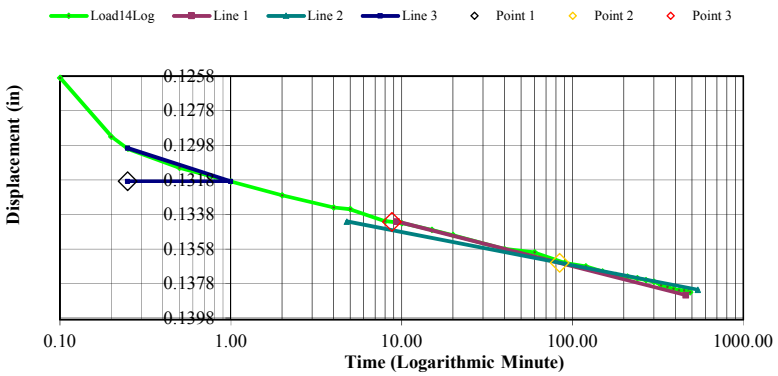
Soil Description:
Very Silty Clay (CL)
Remarks:

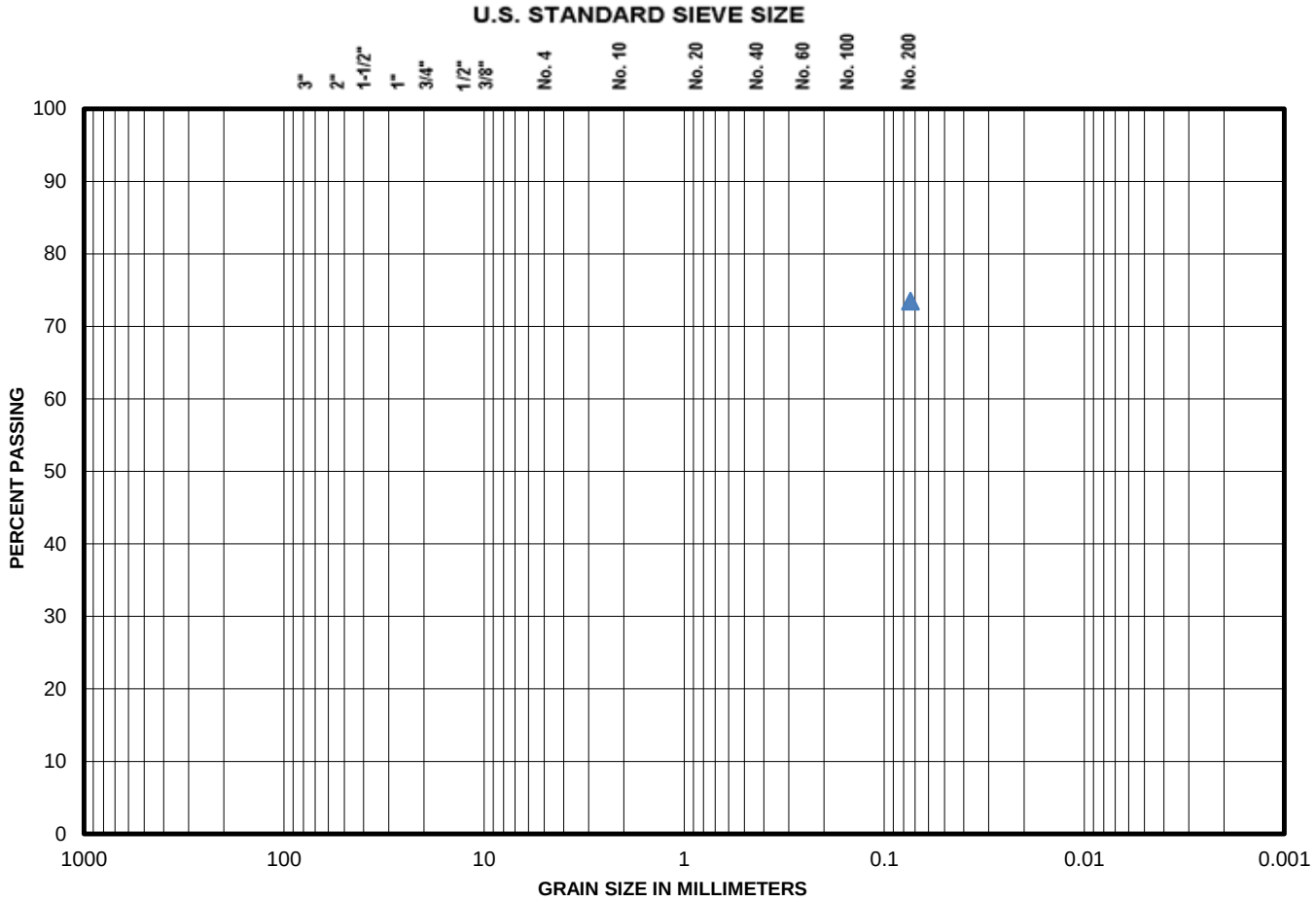
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1127	0.1120	15.0336	0.7013
1	00:00:01	0.1130	0.1123	15.0738	0.7005
2	00:00:02	0.1130	0.1123	15.0738	0.7005
3	00:00:03	0.1136	0.1129	15.1544	0.6989
4	00:00:04	0.1190	0.1183	15.8792	0.6844
5	00:00:05	0.1242	0.1235	16.5772	0.6704
6	00:00:06	0.1259	0.1252	16.8054	0.6659
7	00:00:12	0.1293	0.1286	17.2617	0.6567
8	00:00:15	0.1300	0.1293	17.3557	0.6548
9	00:00:30	0.1311	0.1304	17.5034	0.6519
10	00:01:00	0.1319	0.1312	17.6107	0.6497
11	00:02:00	0.1327	0.1320	17.7181	0.6476
12	00:04:00	0.1334	0.1327	17.8121	0.6457
13	00:05:00	0.1335	0.1328	17.8255	0.6454
14	00:08:00	0.1342	0.1335	17.9195	0.6435
15	00:10:01	0.1343	0.1336	17.9329	0.6433
16	00:15:01	0.1347	0.1340	17.9866	0.6422
17	00:20:01	0.1350	0.1343	18.0268	0.6414
18	00:40:01	0.1358	0.1351	18.1342	0.6392
19	01:00:01	0.1360	0.1353	18.1611	0.6387
20	01:30:00	0.1366	0.1359	18.2416	0.6371
21	01:59:59	0.1368	0.1361	18.2685	0.6366
22	02:29:59	0.1371	0.1364	18.3087	0.6357
23	02:59:59	0.1373	0.1366	18.3356	0.6352
24	03:29:58	0.1374	0.1367	18.3490	0.6349
25	03:59:58	0.1375	0.1368	18.3624	0.6347
26	04:29:58	0.1376	0.1369	18.3758	0.6344
27	04:59:58	0.1377	0.1370	18.3893	0.6341
28	05:29:57	0.1379	0.1372	18.4161	0.6336
29	05:59:56	0.1380	0.1373	18.4295	0.6333
30	06:29:56	0.1381	0.1374	18.4430	0.6331
31	06:59:56	0.1382	0.1375	18.4564	0.6328
32	07:29:55	0.1382	0.1375	18.4564	0.6328
33	07:59:54	0.1382	0.1375	18.4564	0.6328
34	08:09:08	0.1383	0.1376	18.4698	0.6325

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)





COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	26.5	**Fines (Silt & Clay) %**	73.5

USC Classification	(ML)	C_U	na	C_C	na
Description (D 2488)	Gray sandy silt (ML)				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	73.5

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-1	**Checked By**	SLC
Source/Depth (feet)	12 - 14	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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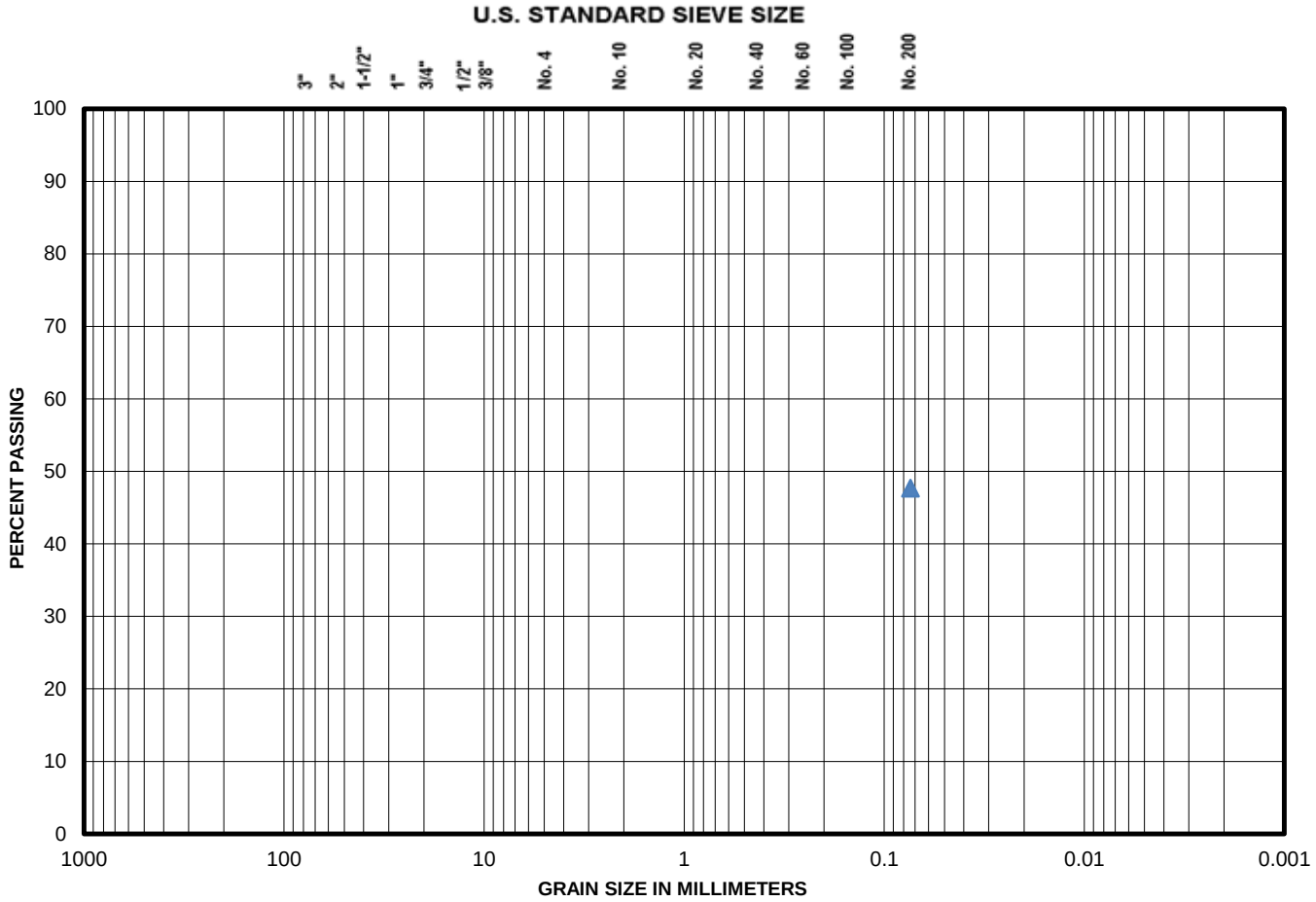
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	52.3	**Fines (Silt & Clay) %**	47.7

USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	47.7

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-1	**Checked By**	SLC
Source/Depth (feet)	18 - 20	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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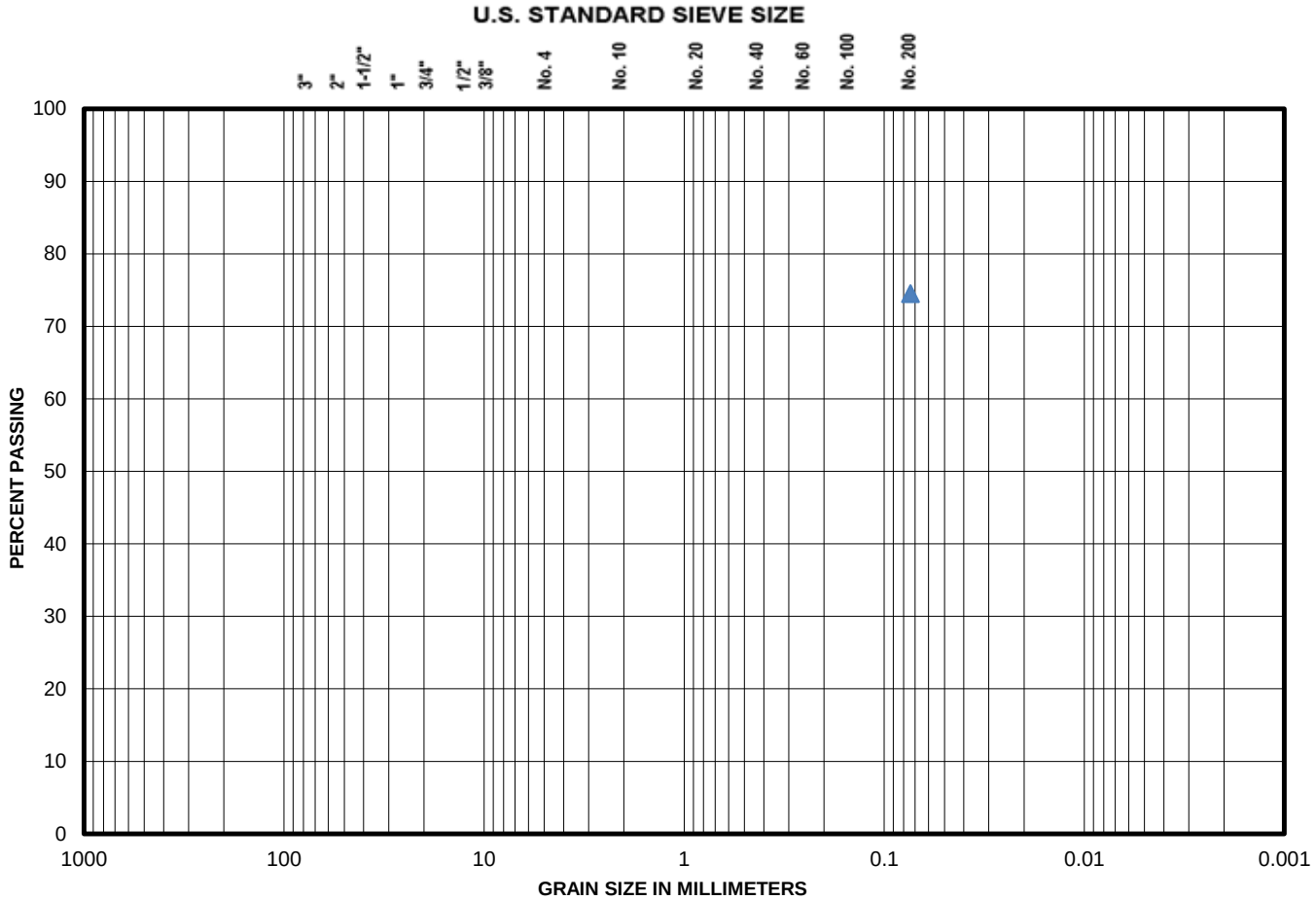
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	25.5	**Fines (Silt & Clay) %**	74.5

USC Classification	ML	C_U	na	C_C	na
Description (D 2488)	Dark gray sandy silt with clay (ML)				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	74.5

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-2	**Checked By**	SLC
Source/Depth (feet)	8 - 10	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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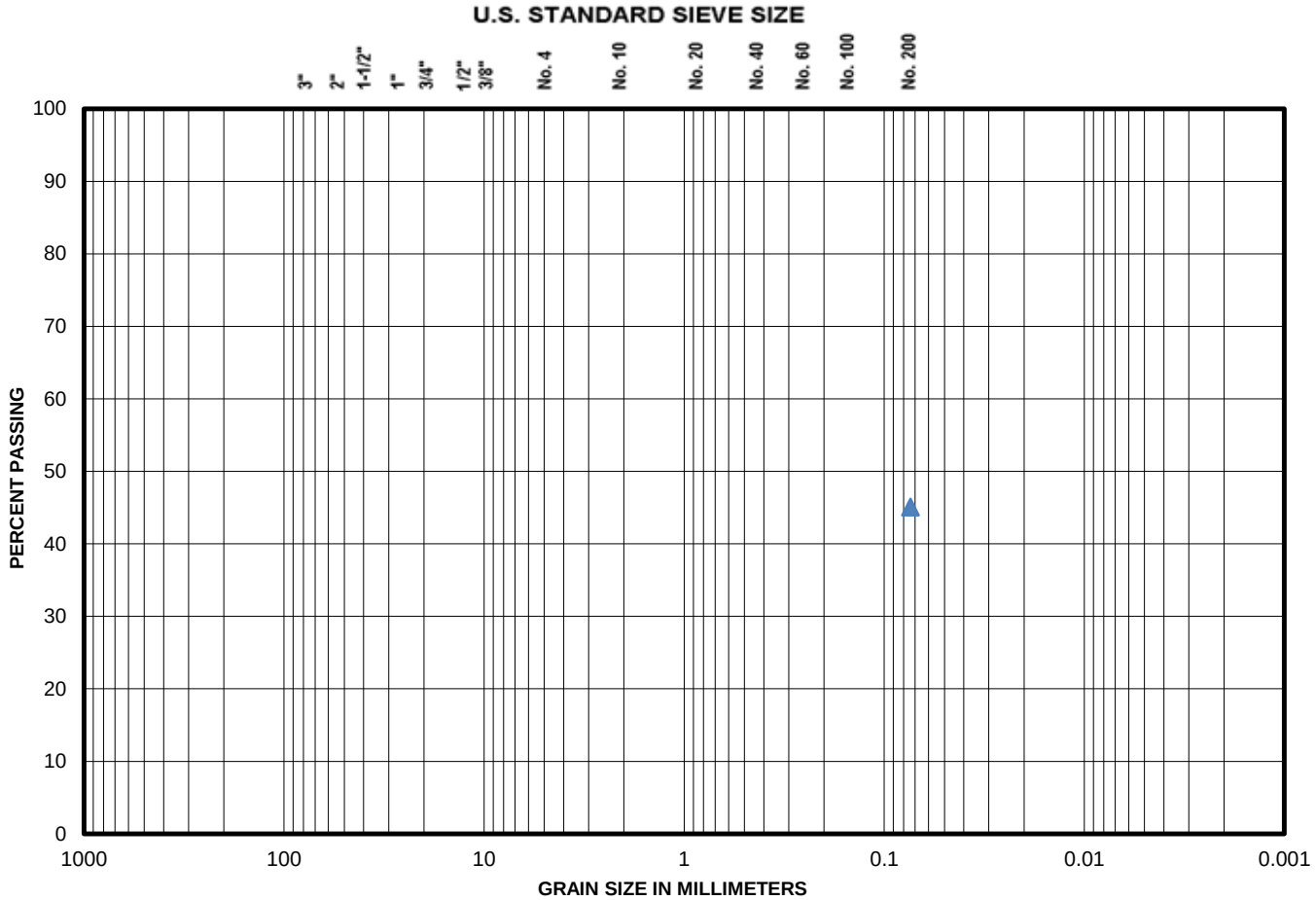
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	54.9	**Fines (Silt & Clay) %**	45.1

USC Classification	SC-SM	C_U	na	C_C	na
Description (D 2488)	Silty, clayey sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	45.1

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-2	**Checked By**	SLC
Source/Depth (feet)	10 - 12	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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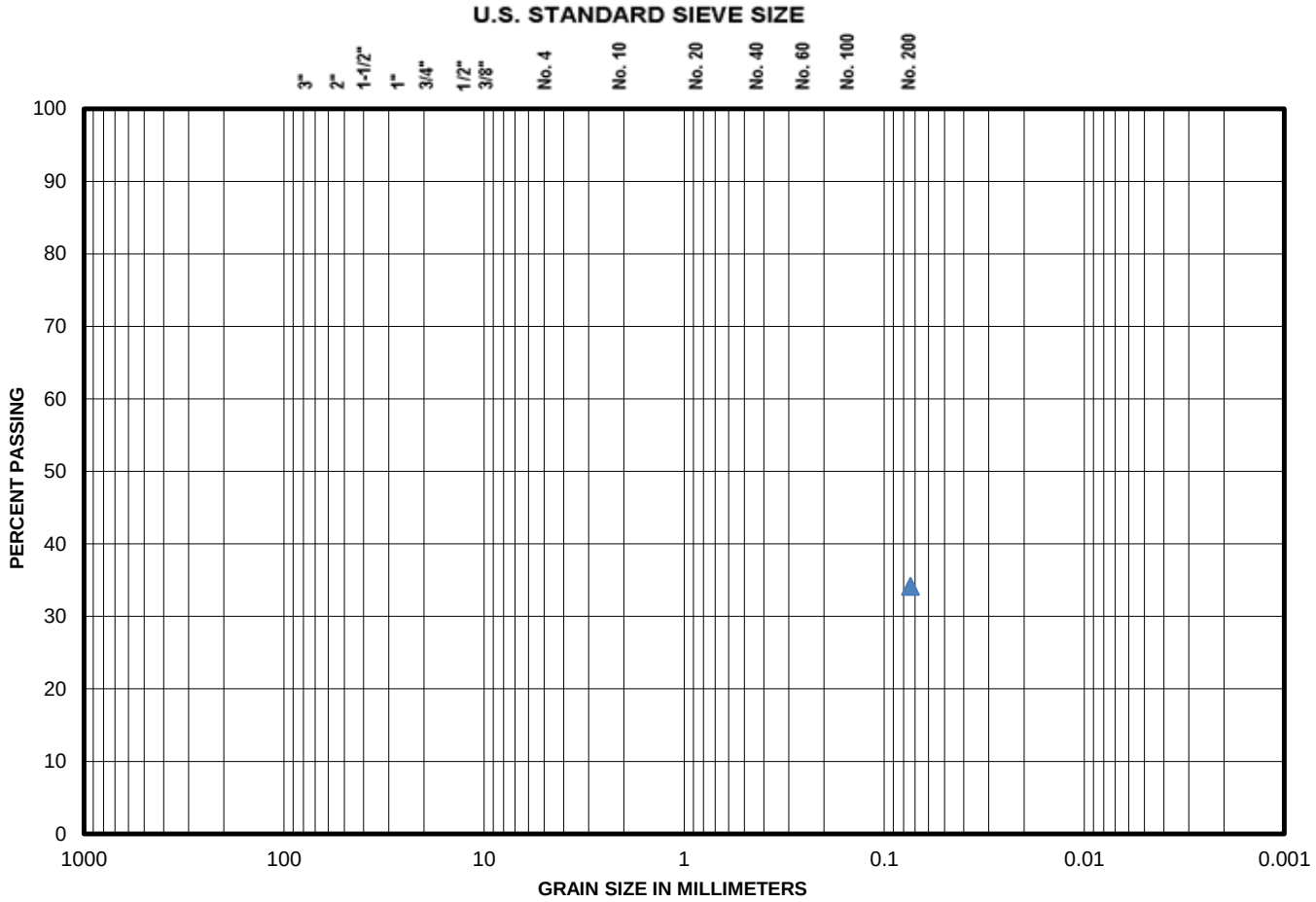
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	65.9	**Fines (Silt & Clay) %**	34.1

USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	34.1

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-2	**Checked By**	SLC
Source/Depth (feet)	14 - 16	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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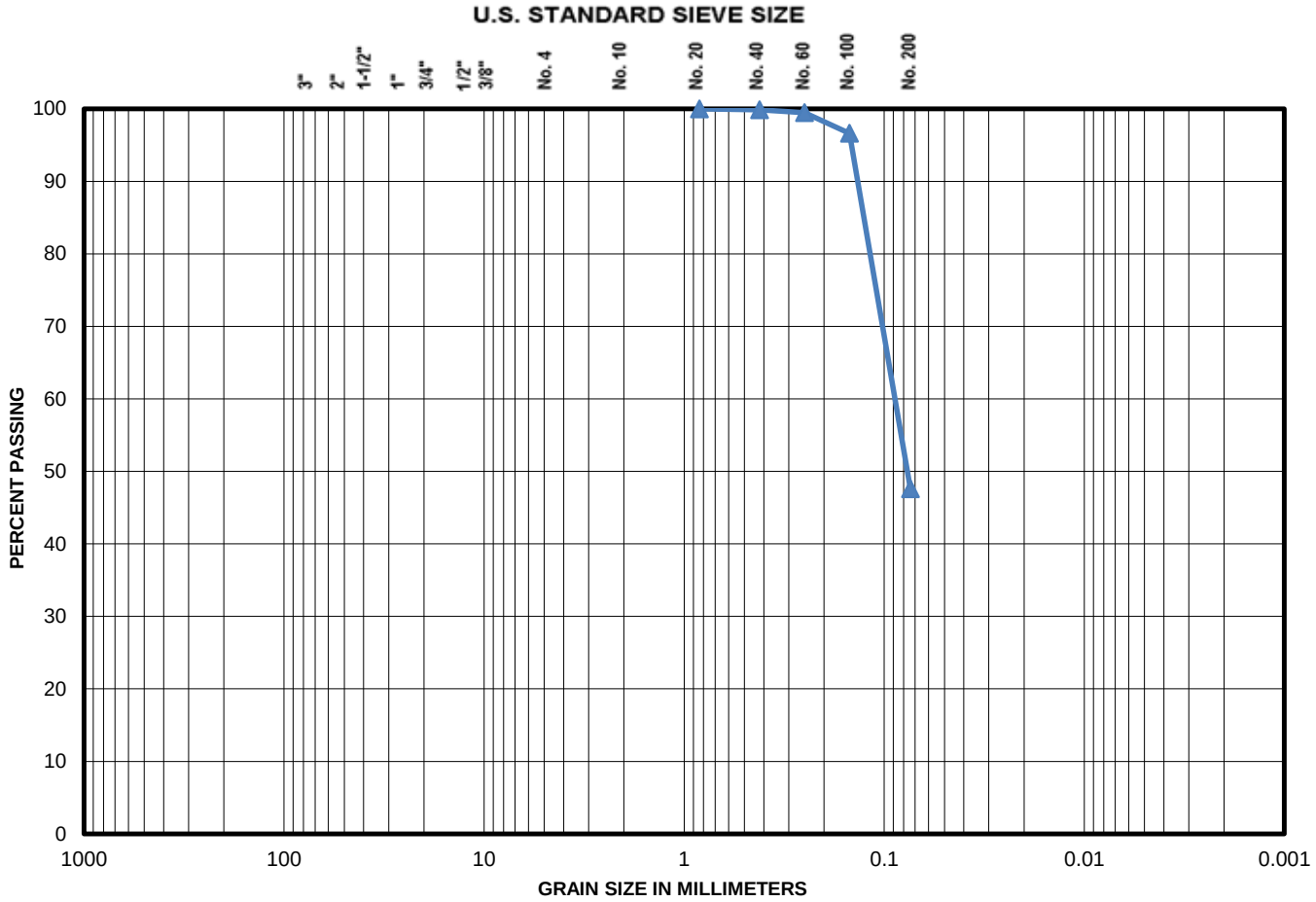
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Coarse Gravel %	0.0	**Medium Sand %**		0.1	
Fine Gravel %	0.0	**Fine Sand %**		52.3	
Coarse Sand %	0.0	**Fines (Silt & Clay) %**		47.6	
USC Classification	SC-SM	C_U	na	C_C	na
Description (D 2488)	Silty, clayey sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	100.0
1"	#N/A	**No. 40**	99.9
3/4"	#N/A	**No. 60**	99.5
1/2"	#N/A	**No. 100**	96.6
3/8"	#N/A	**No. 200**	47.6

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	3/30/2015
Project No.	16715-040-00	**Tested By**	KTK
Boring No.	B-2	**Checked By**	CLP
Source/Depth (feet)	16 - 18	**Sieve Type**	Dry Sieve

NOTE: Test was performed in general accordance with the referenced test method. Test results are applicable only to the specific sample on which they were performed, and should not be interpreted as representative of any other samples obtained at other times, depths or locations or generated by separate operations or processes. This report may not be reproduced, except in full, without written approval of GeoEngineers, Inc.

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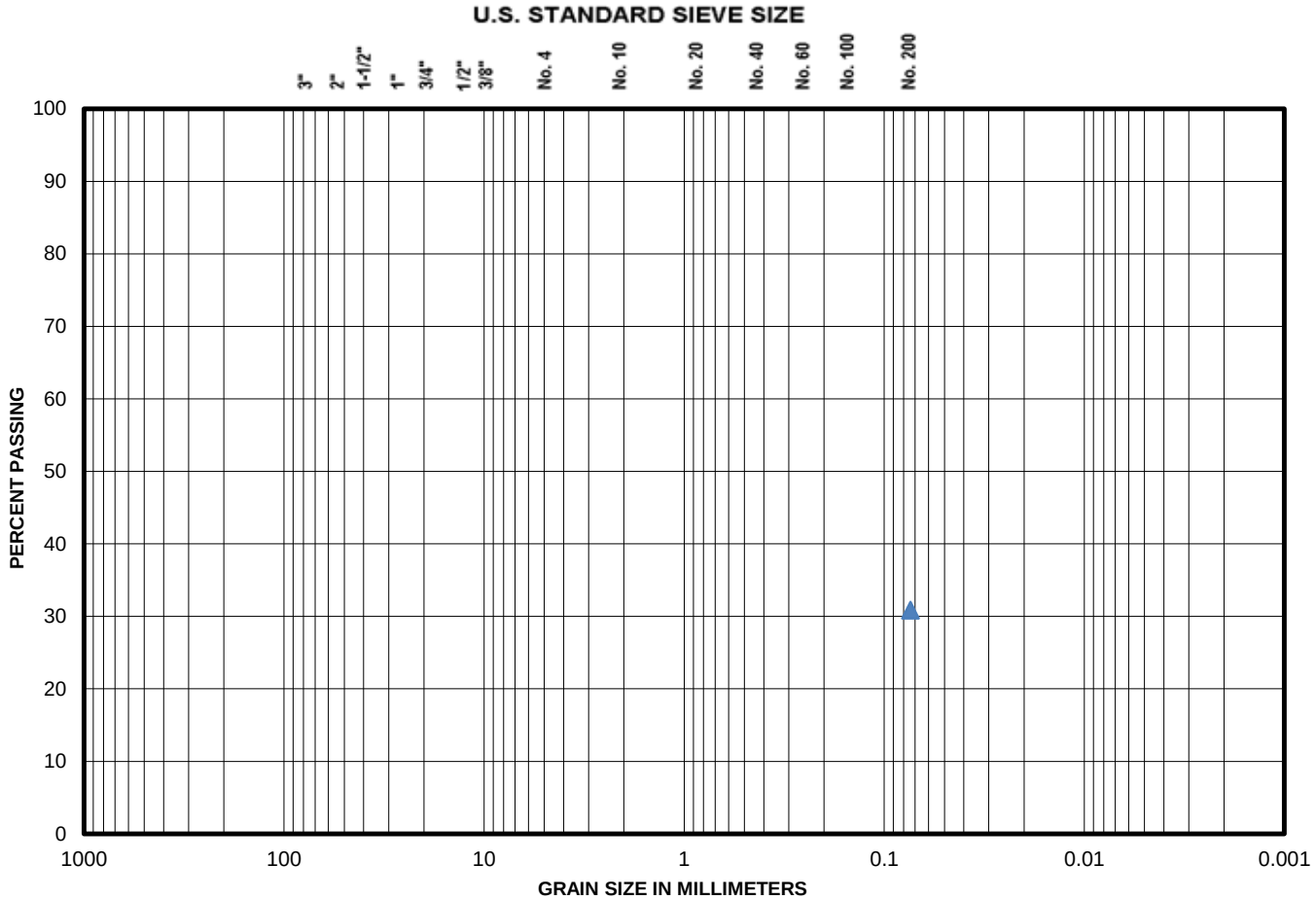
ASTM D 6913 SOIL PARTICLE-SIZE GRADATION SIEVE ANALYSIS

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	69.1	**Fines (Silt & Clay) %**	30.9

USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	30.9

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-2	**Checked By**	SLC
Source/Depth (feet)	18 - 20	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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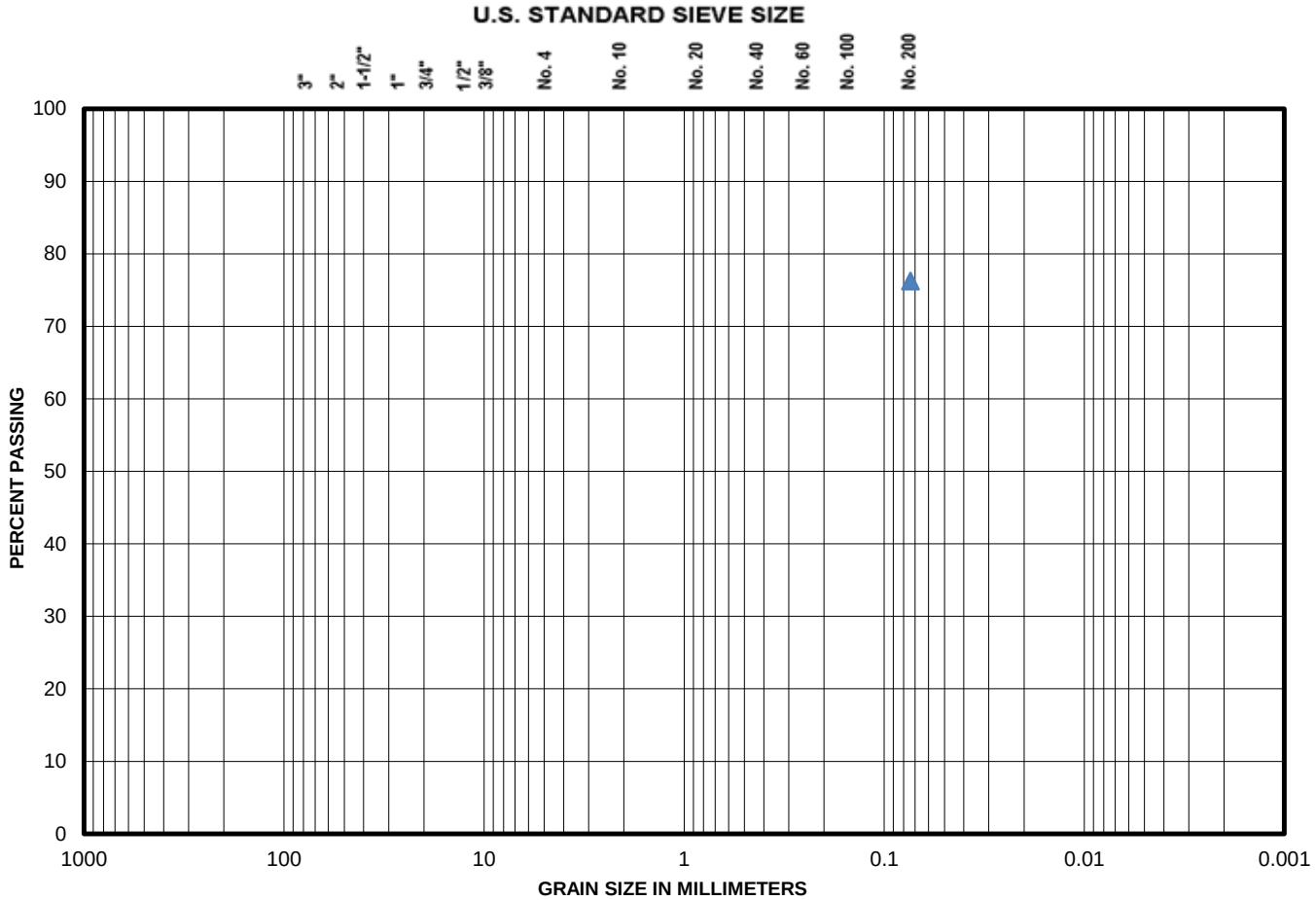
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	23.7	**Fines (Silt & Clay) %**	76.3

USC Classification	ML	C_U	na	C_C	na
Description (D 2488)	Gray sandy silt with clay (ML)				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	76.3

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/23/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-3	**Checked By**	SLC
Source/Depth (feet)	10 - 12	**Sieve Type**	200 Wash

Method B was used for the 200 Wash

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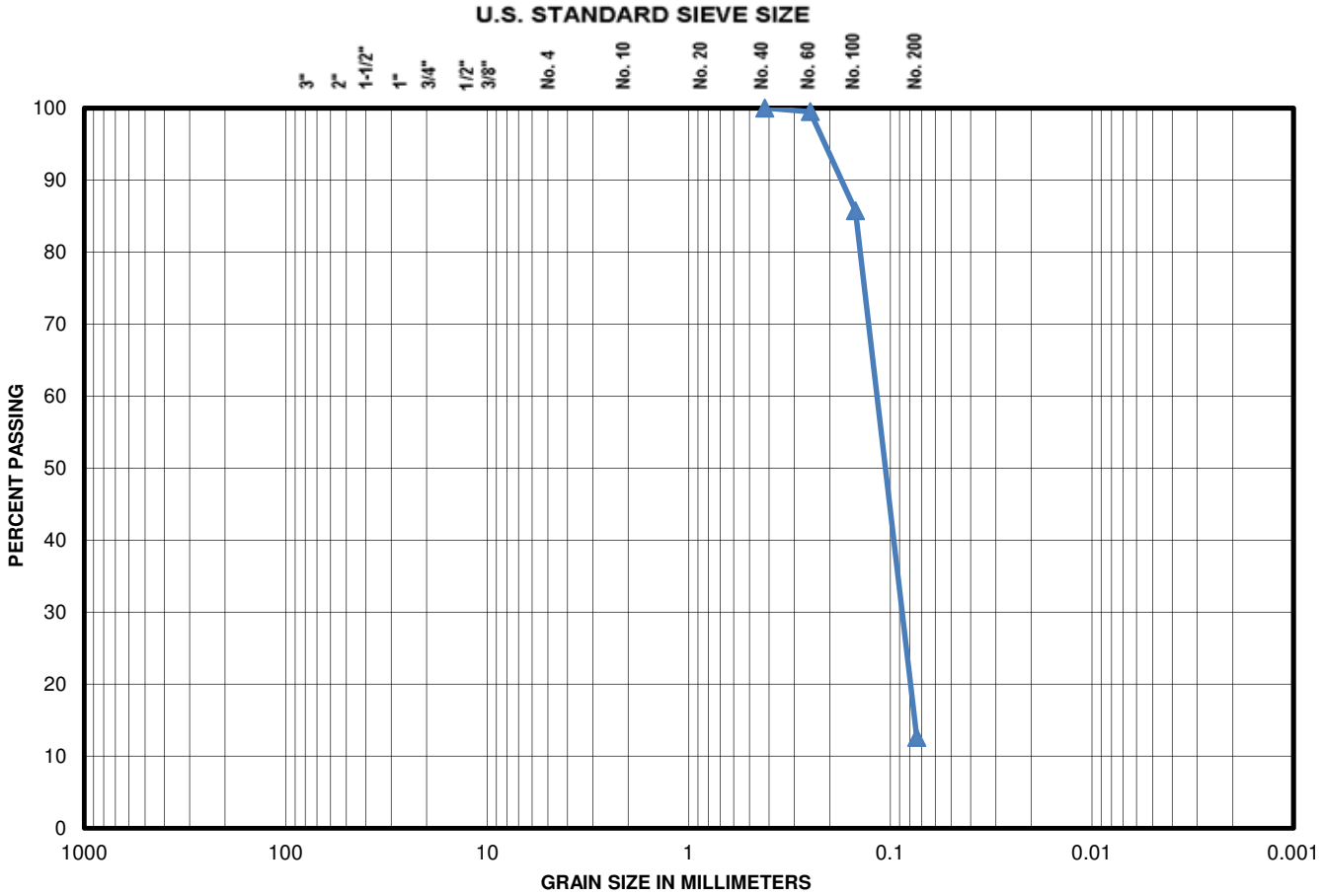
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Coarse Gravel %	0.0	**Medium Sand %**		0.0	
Fine Gravel %	0.0	**Fine Sand %**		87.4	
Coarse Sand %	0.0	**Fines (Silt & Clay) %**		12.6	
USC Classification	SM	**C_U**	na	**C_C**	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	100.0
3/4"	#N/A	**No. 60**	99.5
1/2"	#N/A	**No. 100**	85.7
3/8"	#N/A	**No. 200**	12.6

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/1/2015
Project No.	16715-040-00	**Tested By**	KTK
Boring No.	B-3	**Checked By**	CLP
Source/Depth (feet)	18 - 20	**Sieve Type**	Dry Sieve

NOTE: Test was performed in general accordance with the referenced test method. Test results are applicable only to the specific sample on which they were performed, and should not be interpreted as representative of any other samples obtained at other times, depths or locations or generated by separate operations or processes. This report may not be reproduced, except in full, without written approval of GeoEngineers, Inc.

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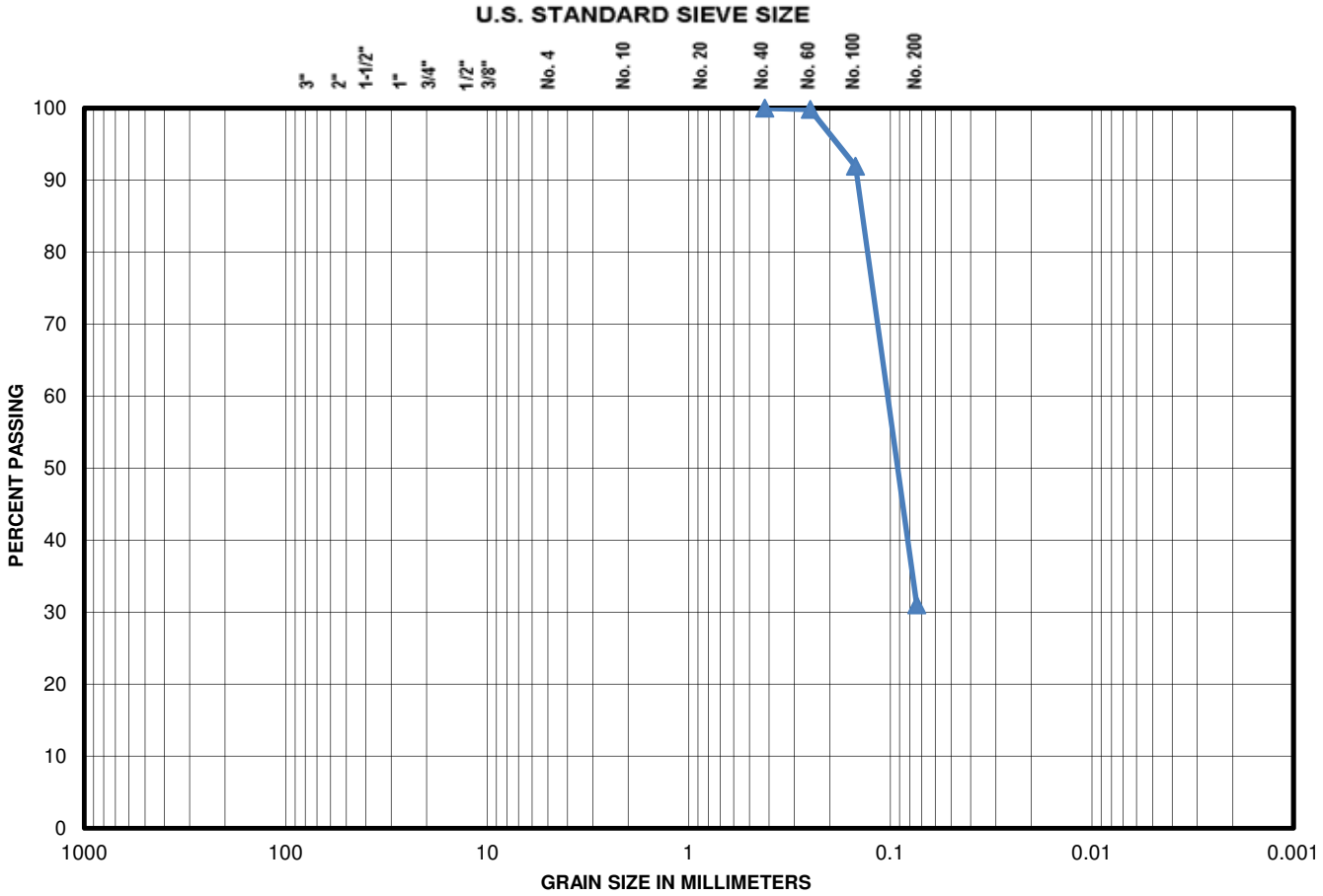
11955 Lakeland Park Blvd. Suite 100 Baton Rouge, La 70809

ASTM D 6913 SOIL PARTICLE-SIZE GRADATION SIEVE ANALYSIS

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Coarse Gravel %	0.0	**Medium Sand %**		0.0	
Fine Gravel %	0.0	**Fine Sand %**		69.0	
Coarse Sand %	0.0	**Fines (Silt & Clay) %**		31.0	
USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	100.0
3/4"	#N/A	**No. 60**	99.8
1/2"	#N/A	**No. 100**	91.9
3/8"	#N/A	**No. 200**	31.0

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/1/2015
Project No.	16715-040-00	**Tested By**	KTK
Boring No.	B-4	**Checked By**	CLP
Source/Depth (feet)	6 - 8	**Sieve Type**	Dry Sieve

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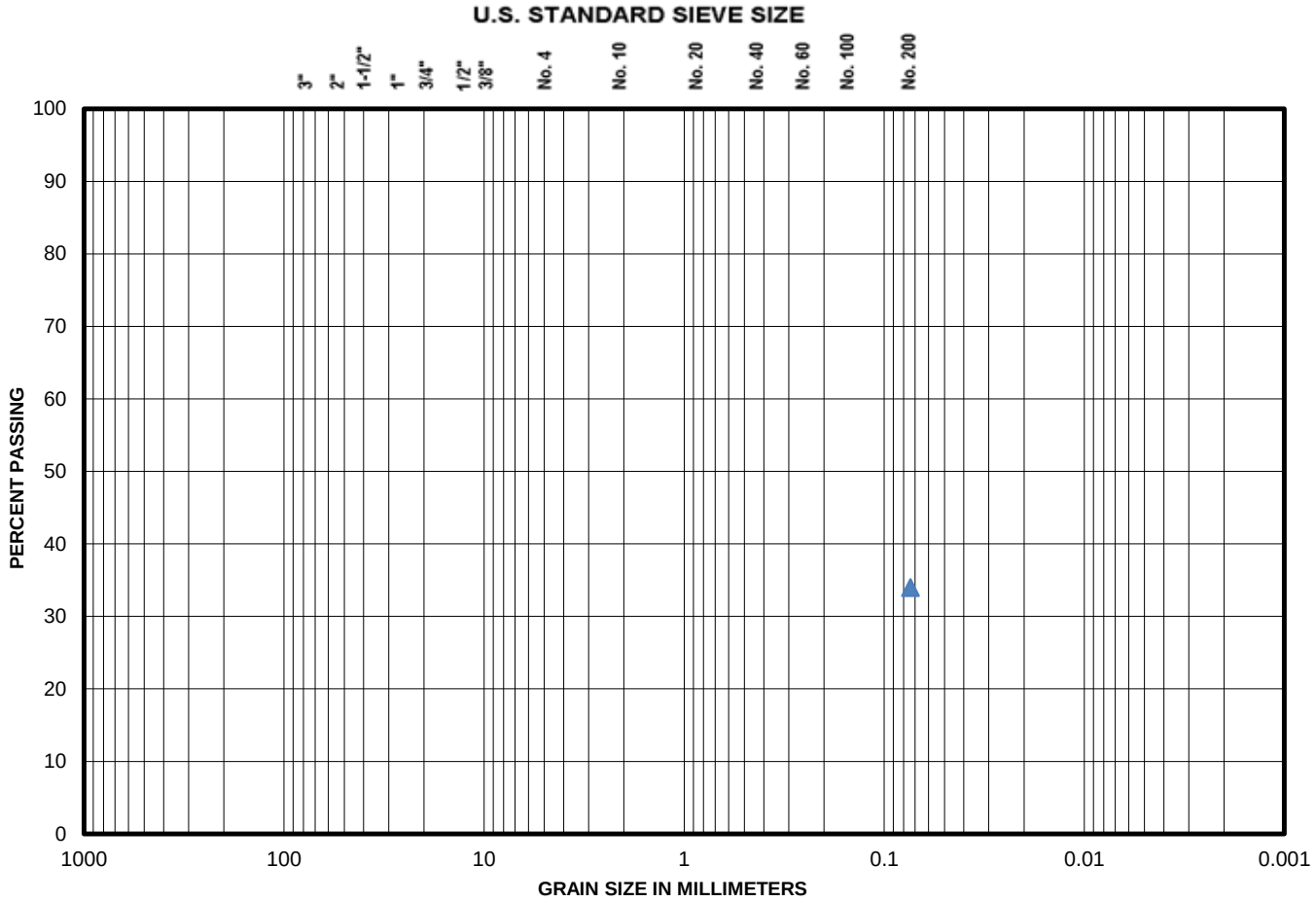
ASTM D 6913 SOIL PARTICLE-SIZE GRADATION SIEVE ANALYSIS

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	66.0	**Fines (Silt & Clay) %**	34.0

USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	34.0

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	3/30/2015
Project No.	16715-040-00	**Tested By**	SLC
Boring No.	B-4	**Checked By**	CLP
Source/Depth (feet)	10 - 12	**Sieve Type**	200 Wash

Method A was used for the 200 Wash

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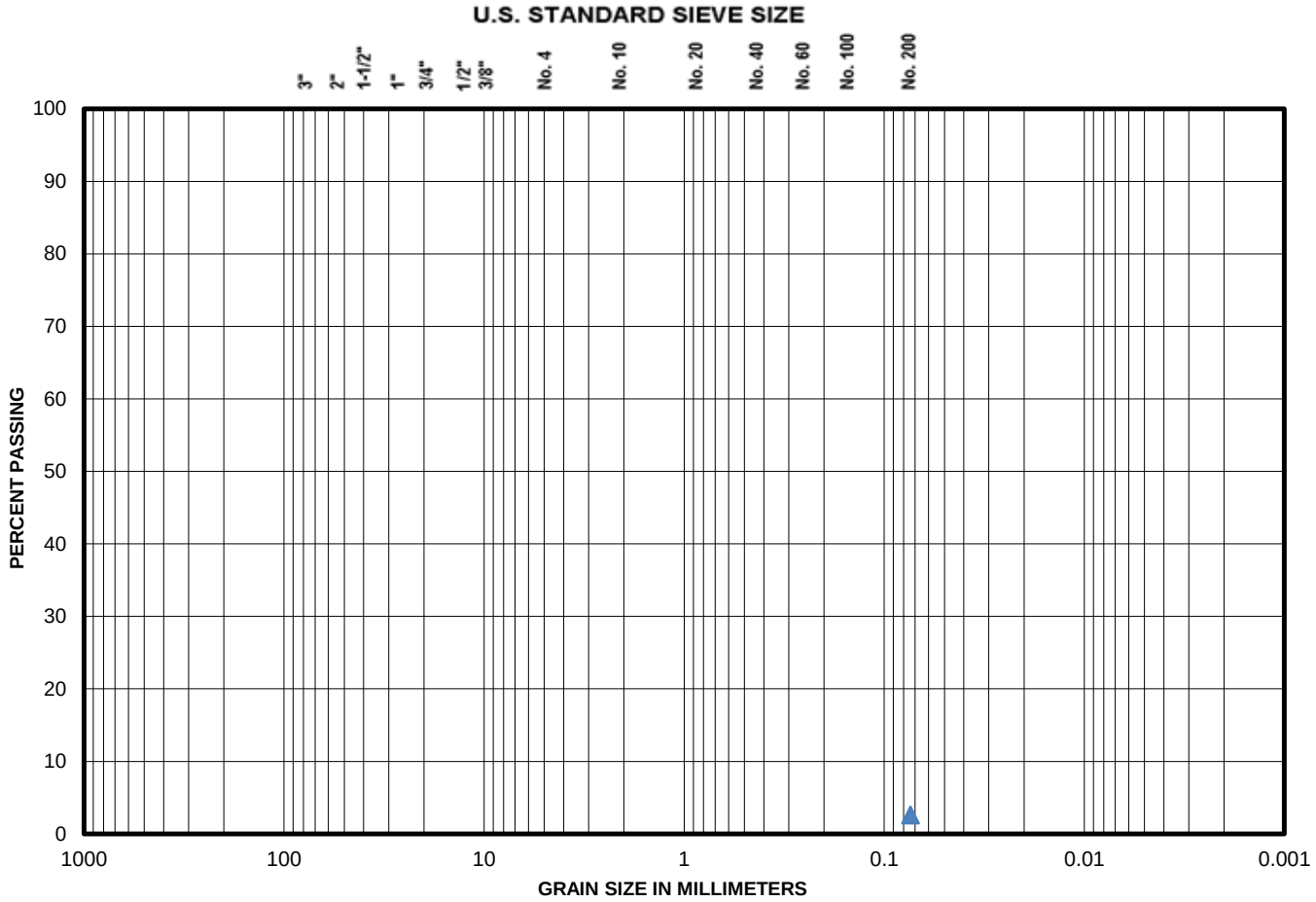
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	97.4	**Fines (Silt & Clay) %**	2.6

USC Classification	SP	C_U	na	C_C	na
Description (D 2488)	Sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	2.6

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	3/30/2015
Project No.	16715-040-00	**Tested By**	SLC
Boring No.	B-4	**Checked By**	CLP
Source/Depth (feet)	14 - 16	**Sieve Type**	200 Wash

Method A was used for the 200 Wash

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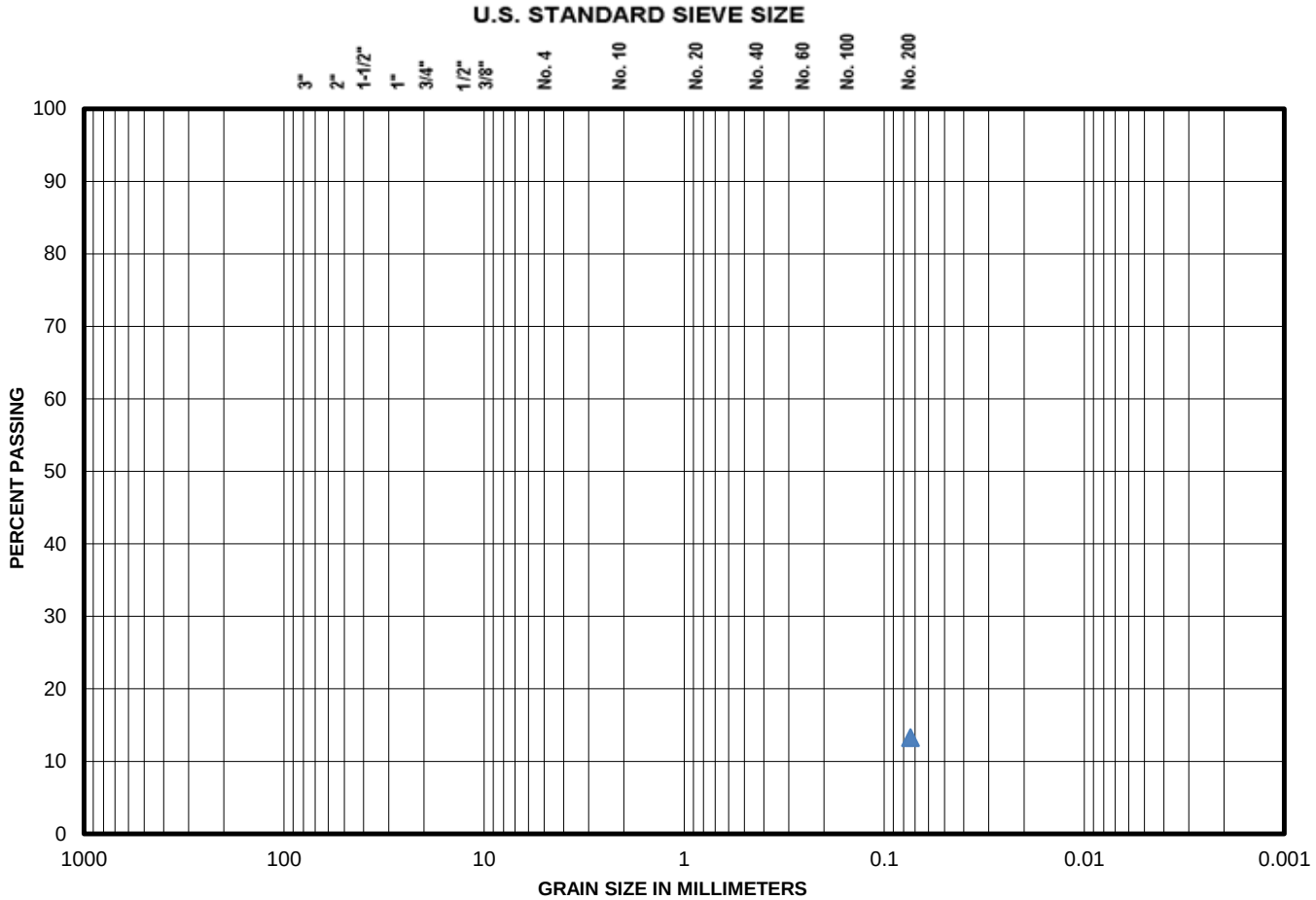
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	86.7	**Fines (Silt & Clay) %**	13.3

USC Classification	SM	C_U	na	C_C	na
Description (D 2488)	Silty sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	13.3

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/1/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-5	**Checked By**	CLP
Source/Depth (feet)	6 - 8	**Sieve Type**	200 Wash

Method A was used for the 200 Wash

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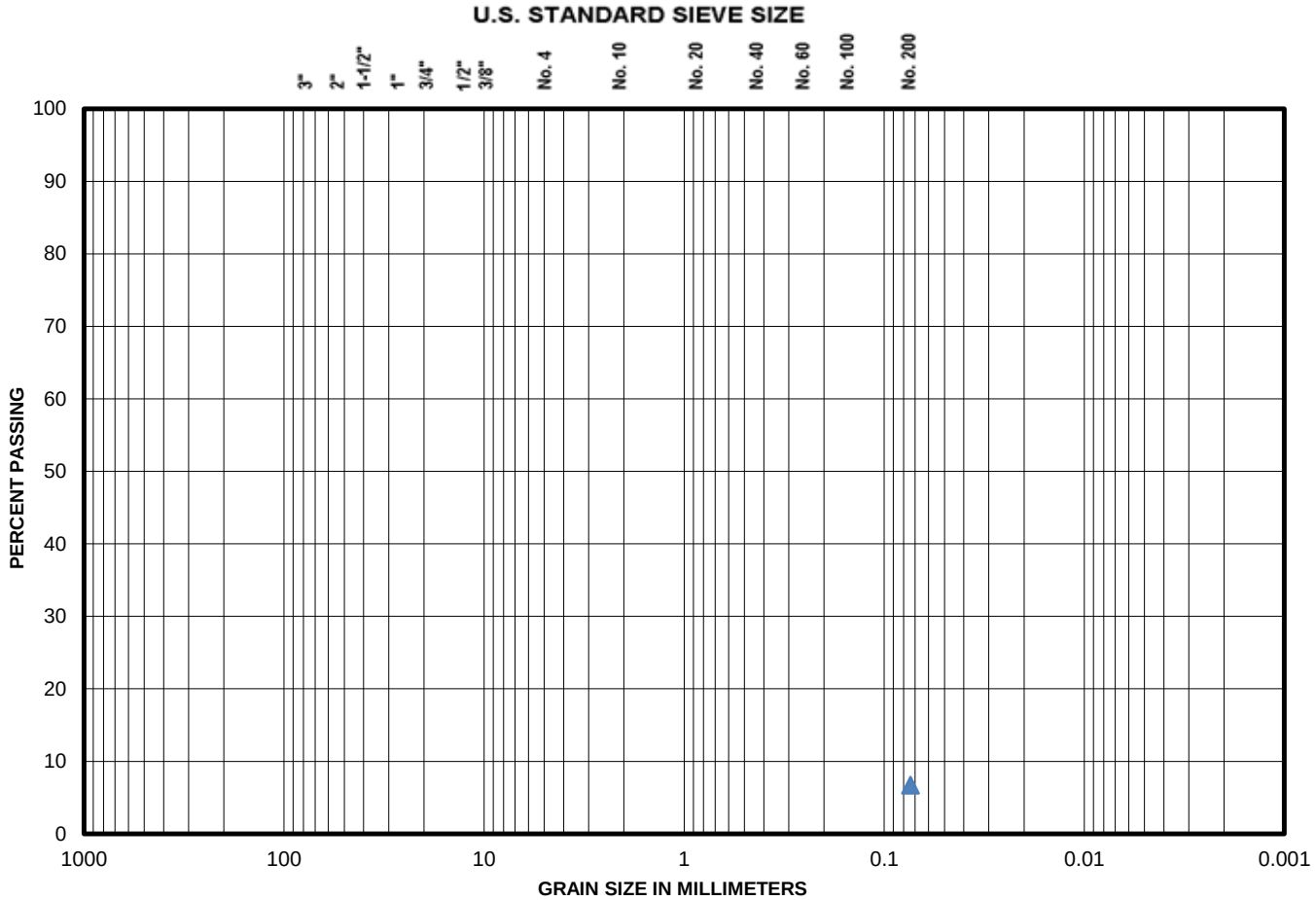
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	93.3	**Fines (Silt & Clay) %**	6.7

USC Classification	SP-SM	C_U	na	C_C	na
Description (D 2488)	Sand with silt				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	6.7

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/1/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-5	**Checked By**	CLP
Source/Depth (feet)	10 - 12	**Sieve Type**	200 Wash

Method A was used for the 200 Wash

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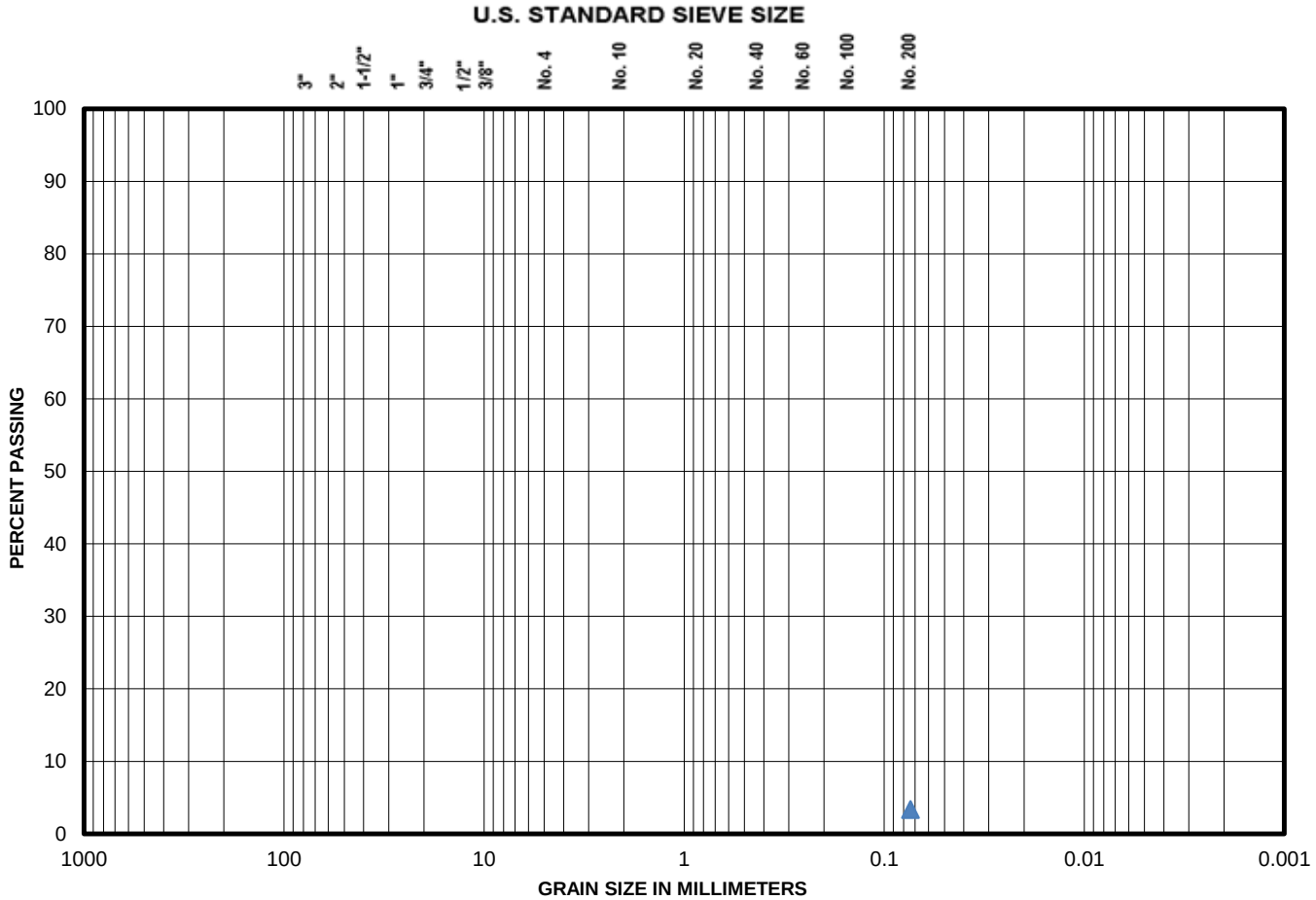
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00



COBBLES	GRAVEL		SAND			FINES	
	COARSE	FINE	COARSE	MEDIUM	FINE	SILT	CLAY

Sand %	96.7	**Fines (Silt & Clay) %**	3.3

USC Classification	SP	C_U	na	C_C	na
Description (D 2488)	Sand				

Individual Sieve Data - % Passing			
3"	#N/A	**No. 4**	#N/A
2"	#N/A	**No. 10**	#N/A
1 1/2"	#N/A	**No. 20**	#N/A
1"	#N/A	**No. 40**	#N/A
3/4"	#N/A	**No. 60**	#N/A
1/2"	#N/A	**No. 100**	#N/A
3/8"	#N/A	**No. 200**	3.3

Project	LDNR-CPRA - Island Road Marsh Creation and Nourish	**Date Tested**	4/1/2015
Project No.	16715-040-00	**Tested By**	KKB
Boring No.	B-5	**Checked By**	CLP
Source/Depth (feet)	12 - 14	**Sieve Type**	200 Wash

Method A was used for the 200 Wash

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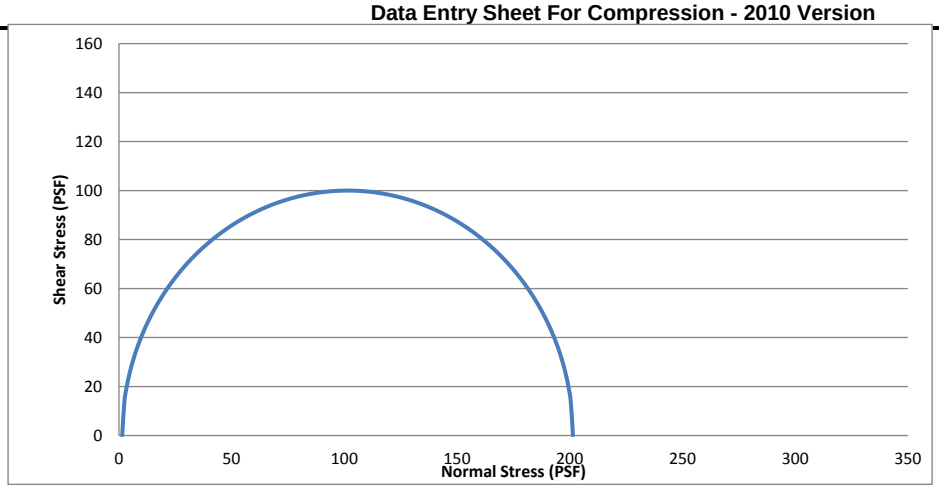
ASTM D 1140 ANALYSIS OF SOIL FINER THAN No. 200 SIEVE

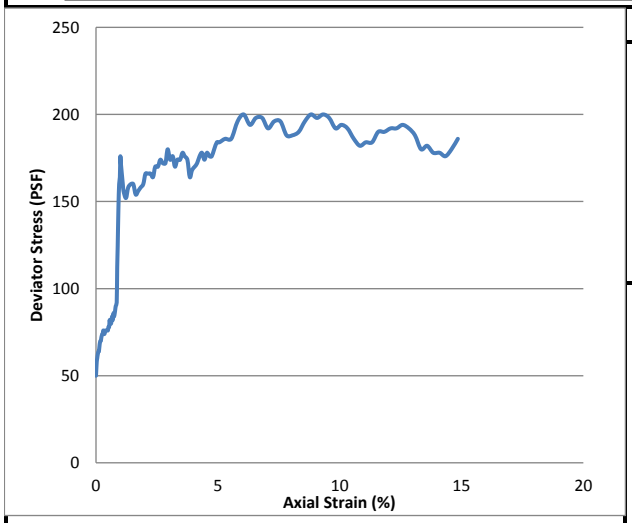
LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)

16715-040-00

Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	100
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	828.56			
	DRY DENSITY, PCF	6.37			
	WET DENSITY, PCF	59.19			
	SATURATION %	87.99			
	VOID RATIO	24.95			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	6.00				
INITIAL DIAMETER, IN	2.65				
CELL PRESSURE, PSI	0.01				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	200.00				
STRAIN, %	6.06				
ULTIMATE DEVIATOR STRESS, PSF	262.00				
σ_1 FAILURE, PSF	201.44				
σ_3 FAILURE, PSF	1.44				

SAMPLE DESCRIPTION	Very soft black peat with shell fragments (PT)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	0 - 2		
TESTED BY	KKB//	CHECKED BY	SLC///		

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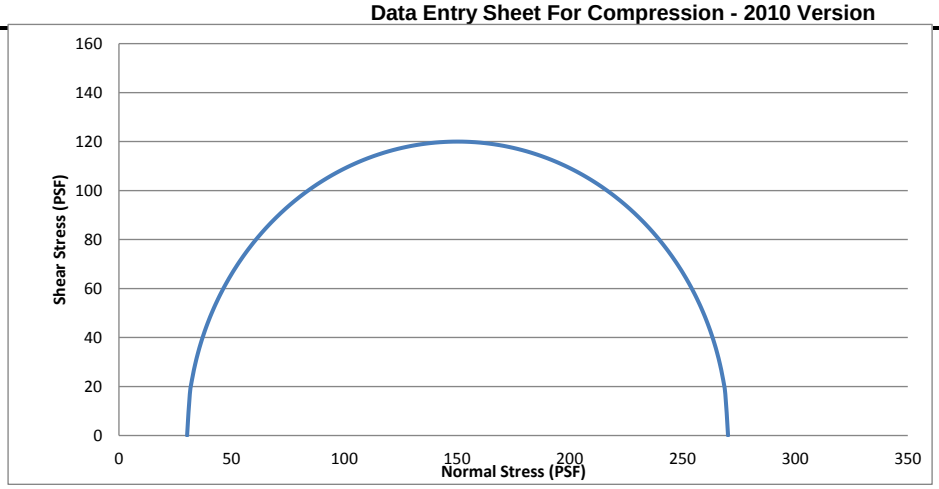
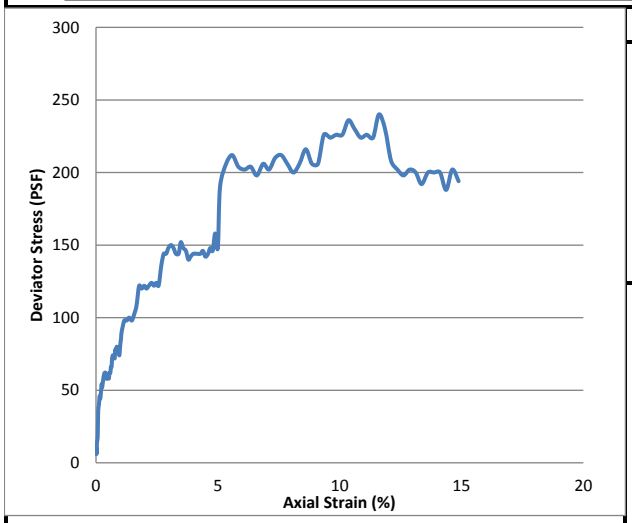


RESULTS	
C, PSF	120
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	210.91			
	DRY DENSITY, PCF	28.80			
	WET DENSITY, PCF	89.54			
	SATURATION %	117.81			
	VOID RATIO	4.74			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.98
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.78
	293	66	227	CELL PRESSURE, PSI	0.21
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	240.00
REMARKS				STRAIN, %	11.61
0				ULTIMATE DEVIATOR STRESS, PSF	258.00
				σ_1 FAILURE, PSF	270.24
				σ_3 FAILURE, PSF	30.24

SAMPLE DESCRIPTION	Very soft brown and gray organic clay with silt pockets and roots (OH)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	KKB//	CHECKED BY	SLC///		

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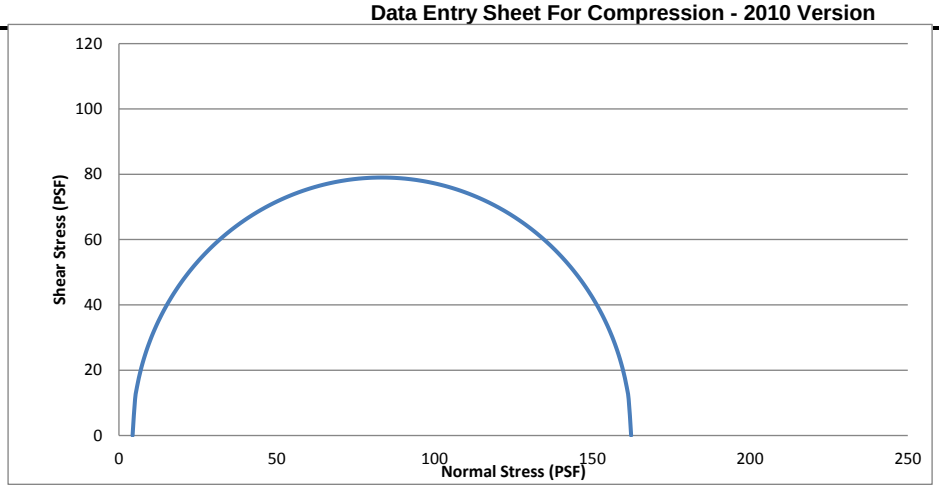
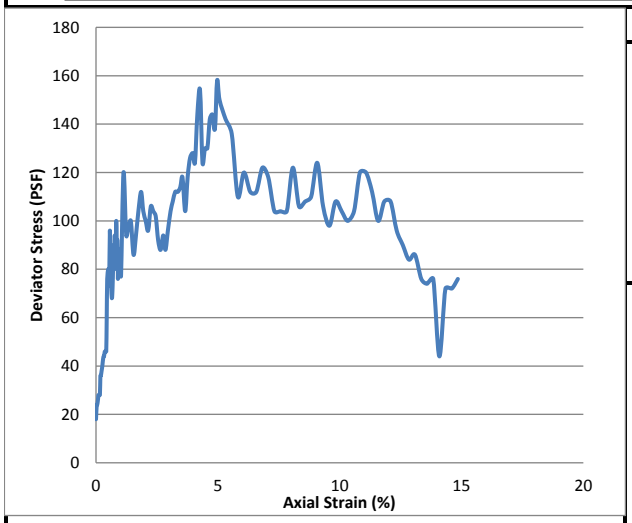


RESULTS	
C, PSF	79
Sample 1 Failure	Slump
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	201.29			
	DRY DENSITY, PCF	28.01			
	WET DENSITY, PCF	84.40			
	SATURATION %	108.74			
	VOID RATIO	4.91			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	6.00
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.50
	201	64	137	CELL PRESSURE, PSI	0.03
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	158.00
REMARKS				STRAIN, %	4.97
0				ULTIMATE DEVIATOR STRESS, PSF	158.00
				σ_1 FAILURE, PSF	162.32
				σ_3 FAILURE, PSF	4.32

SAMPLE DESCRIPTION	Very soft gray organic clay with silt pockets and roots (OH)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	4 - 6		
TESTED BY	KKB//	CHECKED BY	SLC///		

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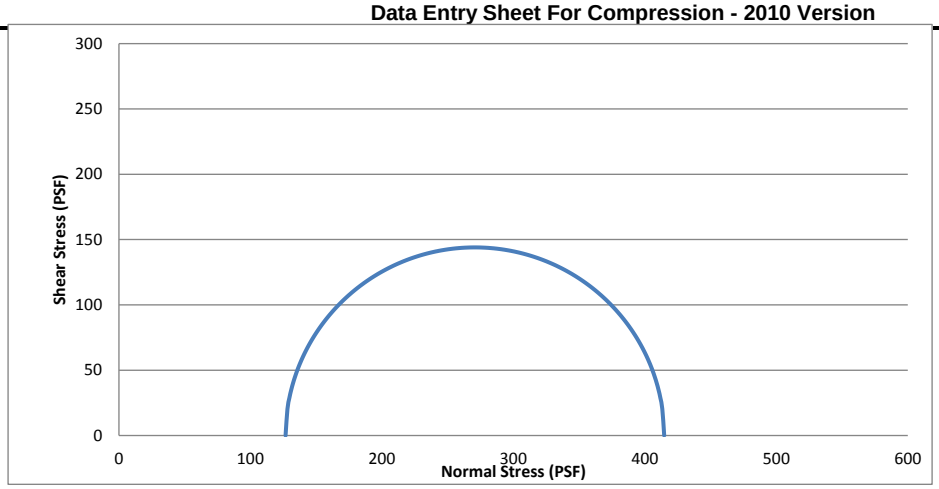
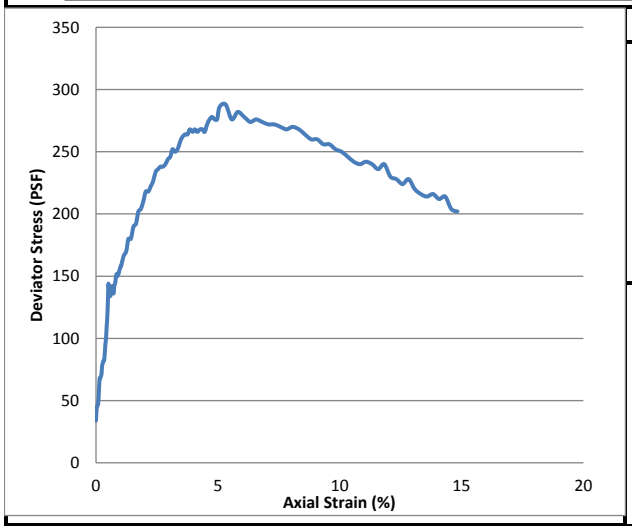
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	144
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	64.46			
	DRY DENSITY, PCF	62.05			
	WET DENSITY, PCF	102.05			
	SATURATION %	102.53			
	VOID RATIO	1.67			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.98
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.71
				CELL PRESSURE, PSI	0.88
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	288.00
REMARKS				STRAIN, %	5.32
0				ULTIMATE DEVIATOR STRESS, PSF	278.00
				σ_1 FAILURE, PSF	414.72
				σ_3 FAILURE, PSF	126.72

SAMPLE DESCRIPTION	Very soft dark gray clay with silt and organic matter (CL)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	8 - 10		
TESTED BY	KKB//	CHECKED BY	SLC///		

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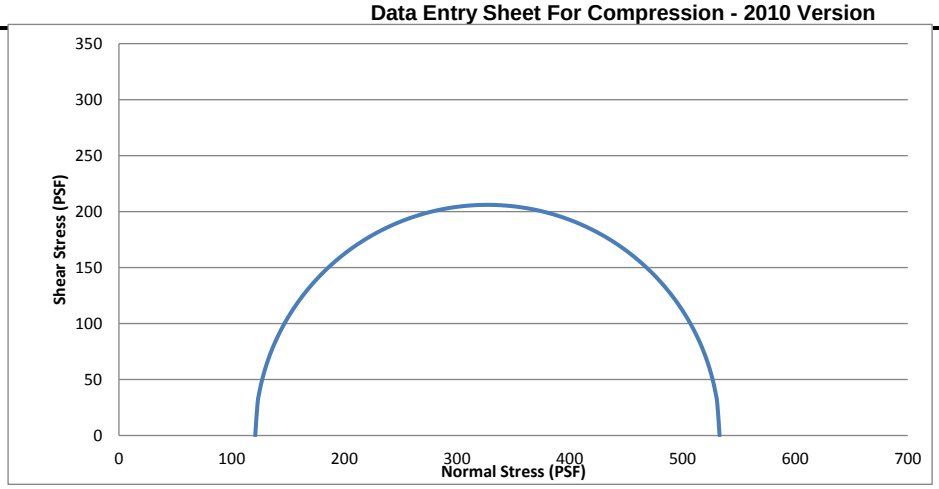
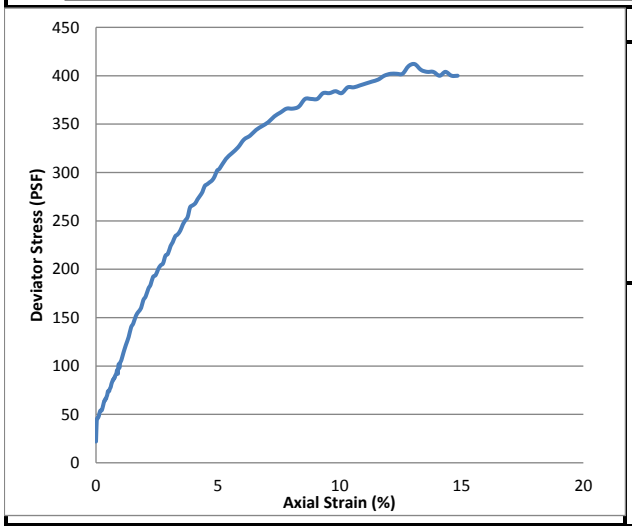
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	200
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	42.92			
	DRY DENSITY, PCF	79.79			
	WET DENSITY, PCF	114.03			
	SATURATION %	105.96			
	VOID RATIO	1.07			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.98
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80
	42	23	19	CELL PRESSURE, PSI	0.84
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	412.00
REMARKS				STRAIN, %	13.08
0				ULTIMATE DEVIATOR STRESS, PSF	474.00
				σ_1 FAILURE, PSF	532.96
				σ_3 FAILURE, PSF	120.96

SAMPLE DESCRIPTION	Very soft gray clay with silt (CL)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	11 - 12		
TESTED BY	KKB//	CHECKED BY	SLC///		

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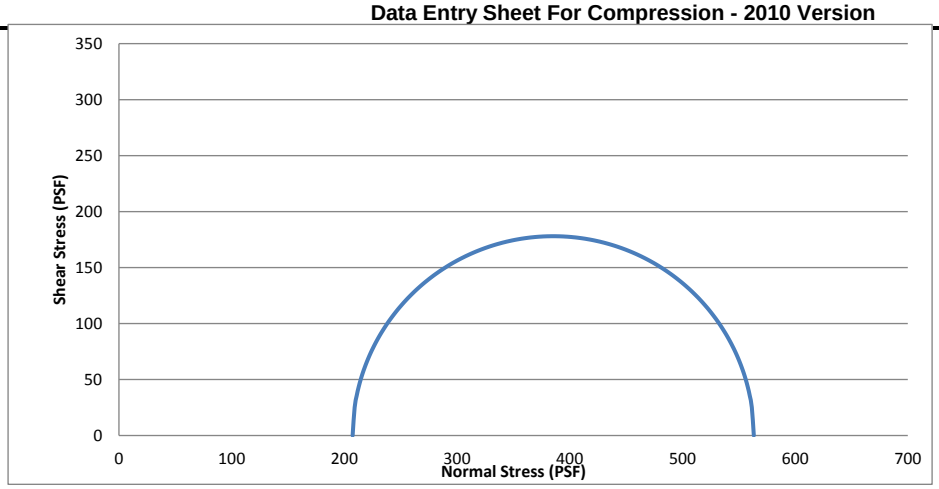
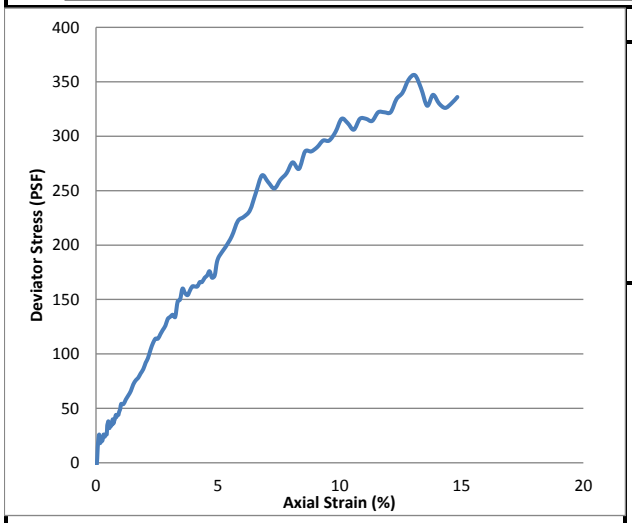


RESULTS	
C, PSF	168
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	26.41			
	DRY DENSITY, PCF	84.44			
	WET DENSITY, PCF	106.74			
	SATURATION %	72.96			
	VOID RATIO	0.96			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.63
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	3.02
				CELL PRESSURE, PSI	1.44
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	356.00
REMARKS				STRAIN, %	13.09
0				ULTIMATE DEVIATOR STRESS, PSF	404.00
				σ_1 FAILURE, PSF	563.36
				σ_3 FAILURE, PSF	207.36

SAMPLE DESCRIPTION	Very soft gray silty clay (CL)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/16/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	14 - 16		
TESTED BY	TCJ//	CHECKED BY	CLP///		

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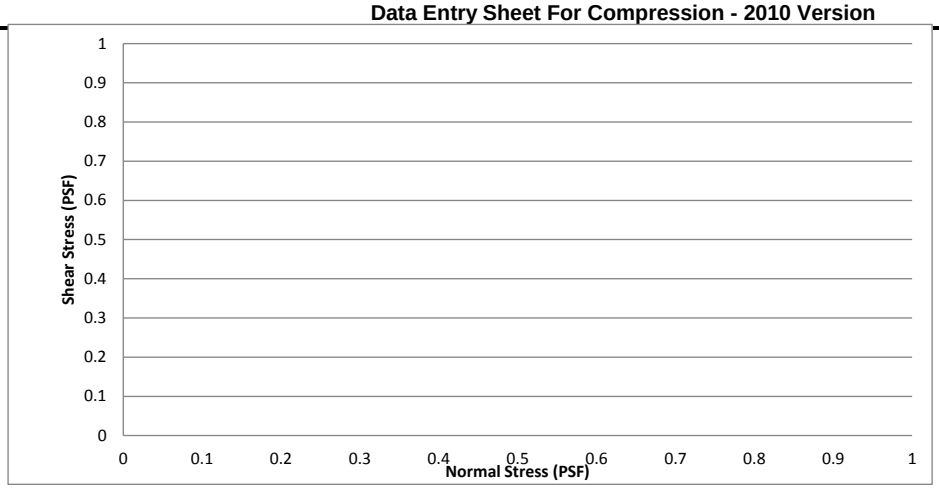
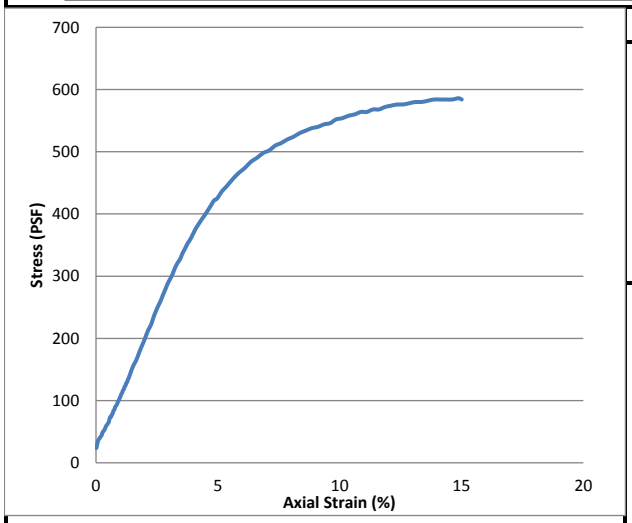


RESULTS	
C, PSF	293
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	47.32			
	DRY DENSITY, PCF	75.66			
	WET DENSITY, PCF	111.46			
	SATURATION %	105.68			
	VOID RATIO	1.19			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.98	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.81	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	14.87	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft gray silty clay (CL)				
BORING NO.	B-1	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	4/1/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	28 - 30		
TESTED BY	TCJ//	CHECKED BY	CLP///		

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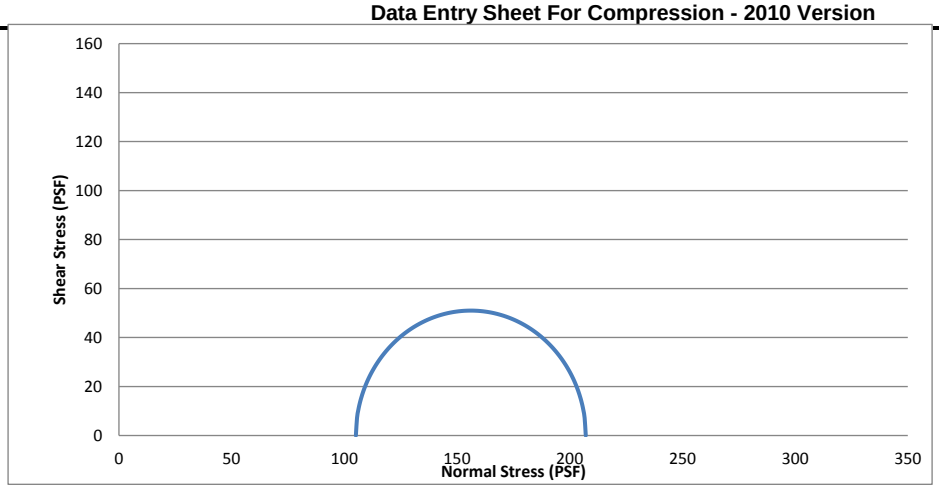
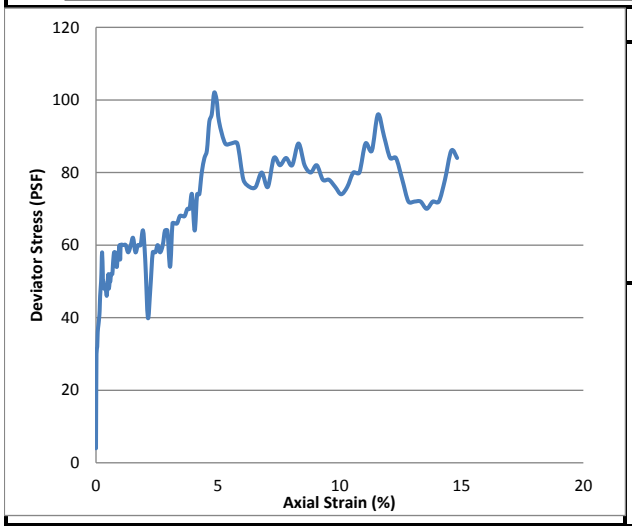


RESULTS	
C, PSF	51
Sample 1 Failure	Slump
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	1633.18			
	DRY DENSITY, PCF	3.53			
	WET DENSITY, PCF	61.19			
	SATURATION %	94.38			
	VOID RATIO	45.85			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.75				
INITIAL DIAMETER, IN	2.82				
CELL PRESSURE, PSI	0.73				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	102.00				
STRAIN, %	4.85				
ULTIMATE DEVIATOR STRESS, PSF	158.00				
σ_1 FAILURE, PSF	207.12				
σ_3 FAILURE, PSF	105.12				

SAMPLE DESCRIPTION	Very soft brown peat (PT)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/15/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	0 - 1		
TESTED BY	SLC//	CHECKED BY	CLP///		

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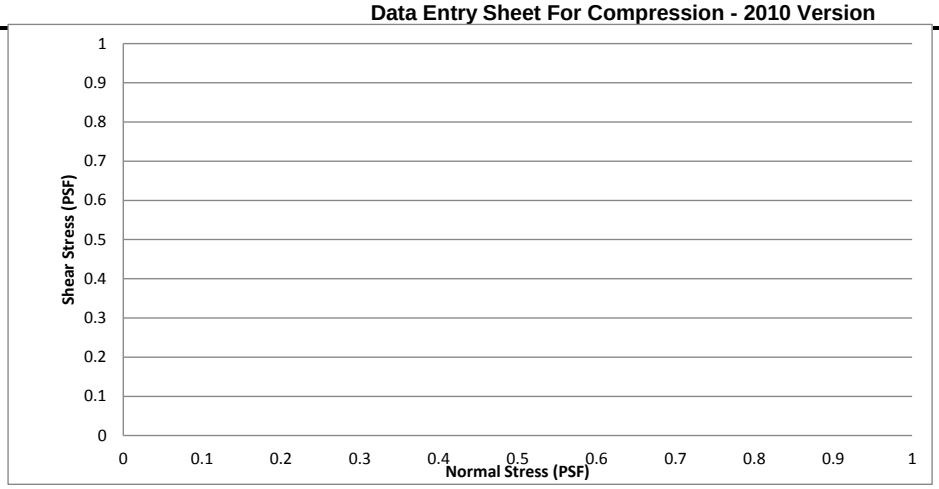
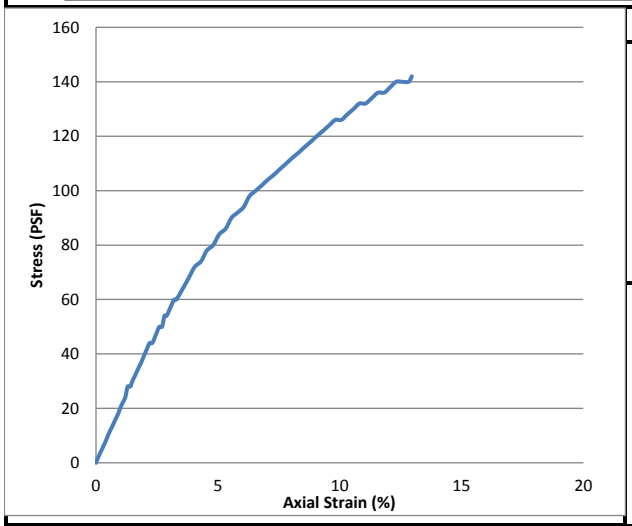


RESULTS	
C, PSF	69
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	378.39			
	DRY DENSITY, PCF	13.91			
	WET DENSITY, PCF	66.57			
	SATURATION %	92.09			
	VOID RATIO	10.89			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.61	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.73	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	15.01	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Very soft brown peat (PT)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	4/15/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	1 - 2		
TESTED BY	CLP//	CHECKED BY	SLC///		

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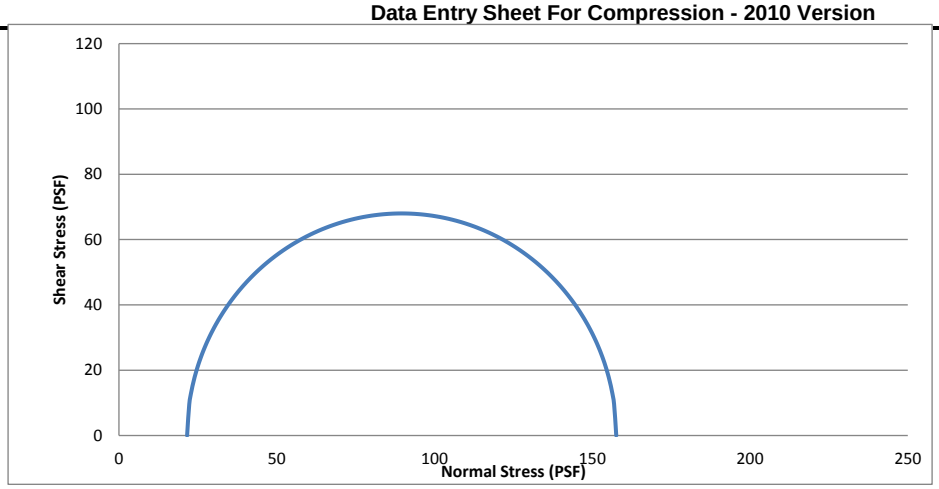
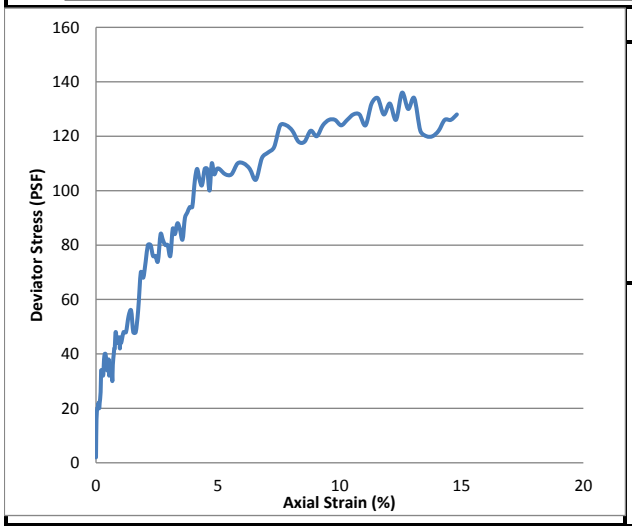


RESULTS	
C, PSF	64
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	813.62			
	DRY DENSITY, PCF	6.83			
	WET DENSITY, PCF	62.38			
	SATURATION %	92.82			
	VOID RATIO	23.23			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	6.00
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.71
				CELL PRESSURE, PSI	0.15
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	136.00
REMARKS				STRAIN, %	12.56
0				ULTIMATE DEVIATOR STRESS, PSF	204.00
				σ_1 FAILURE, PSF	157.60
				σ_3 FAILURE, PSF	21.60

SAMPLE DESCRIPTION	Very soft dark brown peat with silt pockets, shell fragments and organic matter (PT)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/27/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	KKB//	CHECKED BY	SLC///		

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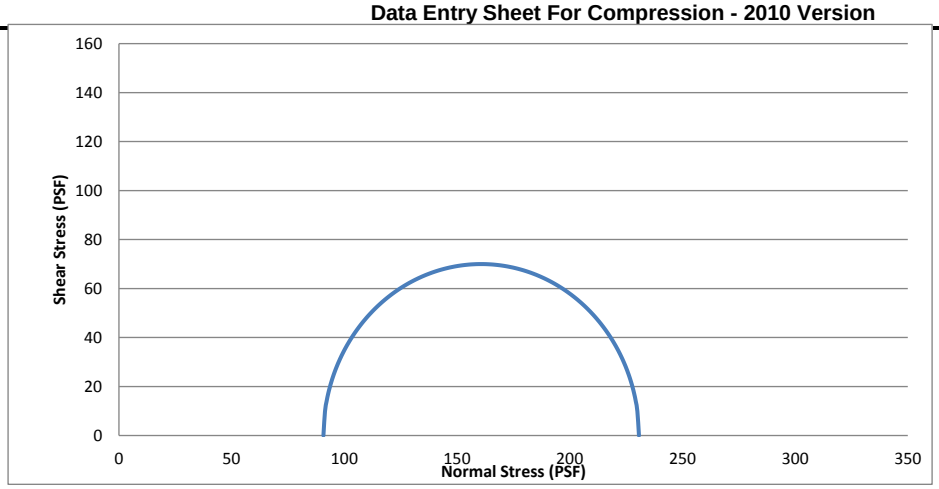
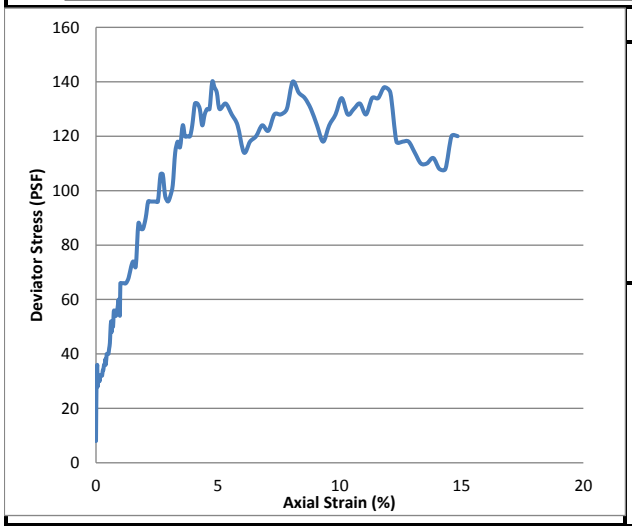


RESULTS	
C, PSF	70
Sample 1 Failure	Slump
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	596.57			
	DRY DENSITY, PCF	9.85			
	WET DENSITY, PCF	68.62			
	SATURATION %	100.10			
	VOID RATIO	15.79			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.81				
INITIAL DIAMETER, IN	2.86				
CELL PRESSURE, PSI	0.63				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	140.00				
STRAIN, %	4.77				
ULTIMATE DEVIATOR STRESS, PSF	192.00				
σ_1 FAILURE, PSF	230.72				
σ_3 FAILURE, PSF	90.72				

SAMPLE DESCRIPTION	Very soft brown peat (PT)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/16/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	6 - 8		
TESTED BY	SLC//	CHECKED BY	CLP///		

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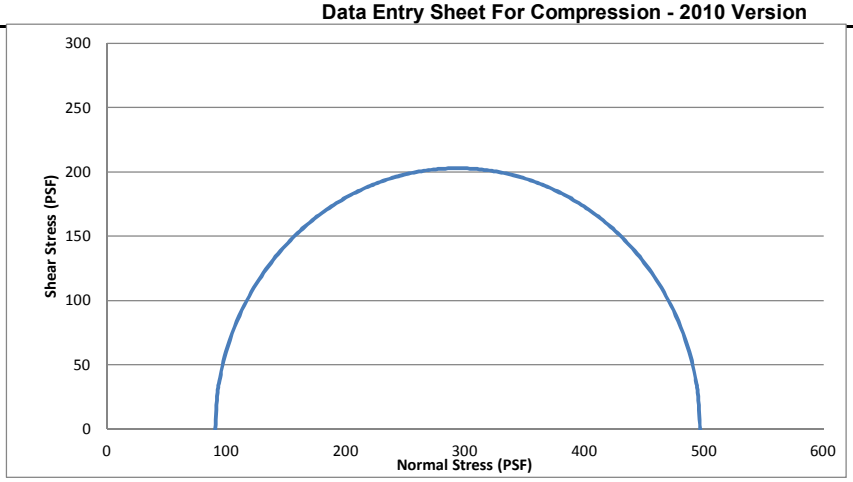
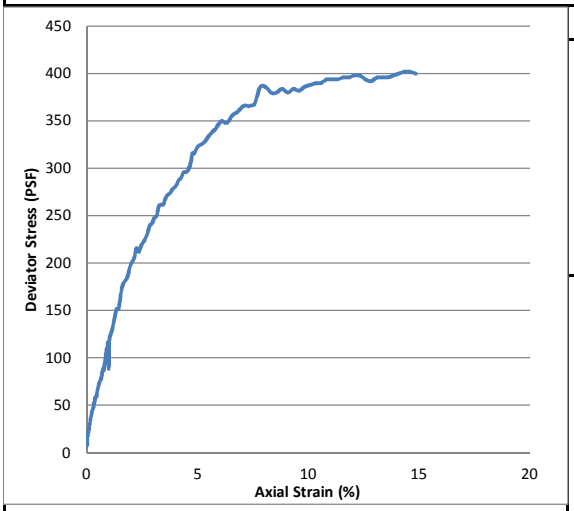


RESULTS	
C, PSF	200
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	21.50			
	DRY DENSITY, PCF	93.91			
	WET DENSITY, PCF	114.10			
	SATURATION %	74.80			
	VOID RATIO	0.76			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.71		
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.83		
	28	23	5	CELL PRESSURE, PSI	0.63		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	406.00		
REMARKS				STRAIN, %	15.09		
0				ULTIMATE DEVIATOR STRESS, PSF	472.00		
				σ_1 FAILURE, PSF	496.72		
				σ_3 FAILURE, PSF	90.72		

SAMPLE DESCRIPTION	Dark gray silty clayey sand (SC-SM)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	8 - 10		
TESTED BY	kkb//	CHECKED BY	CLP///		

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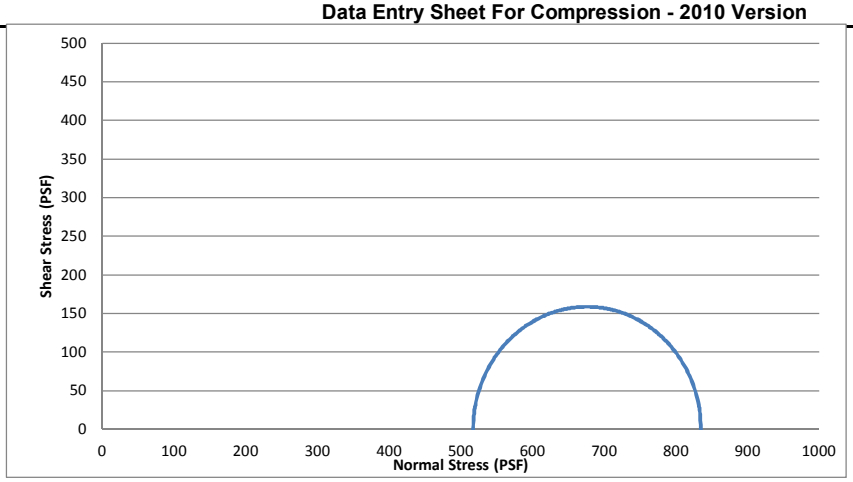
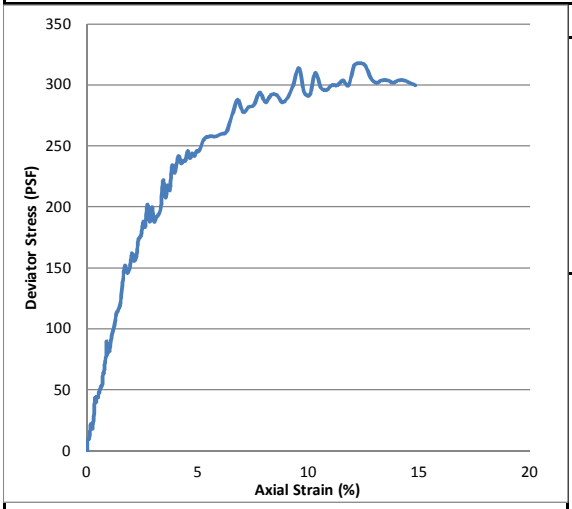


RESULTS	
C, PSF	159
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	66.26			
	DRY DENSITY, PCF	64.30			
	WET DENSITY, PCF	106.90			
	SATURATION %	111.64			
	VOID RATIO	1.57			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.89	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.85	
				CELL PRESSURE, PSI	3.59	
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF ($\sigma_1 - \sigma_3$)	318.00	
REMARKS				STRAIN, %	12.32	
0				ULTIMATE DEVIATOR STRESS, PSF	372.00	
				σ_1 FAILURE, PSF	834.96	
				σ_3 FAILURE, PSF	516.96	

SAMPLE DESCRIPTION	Very soft dark gray very silty clay with sand pockets, silt lenses, and shell fragments (CL)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	23 - 25		
TESTED BY	kkb//	CHECKED BY	CLP///		

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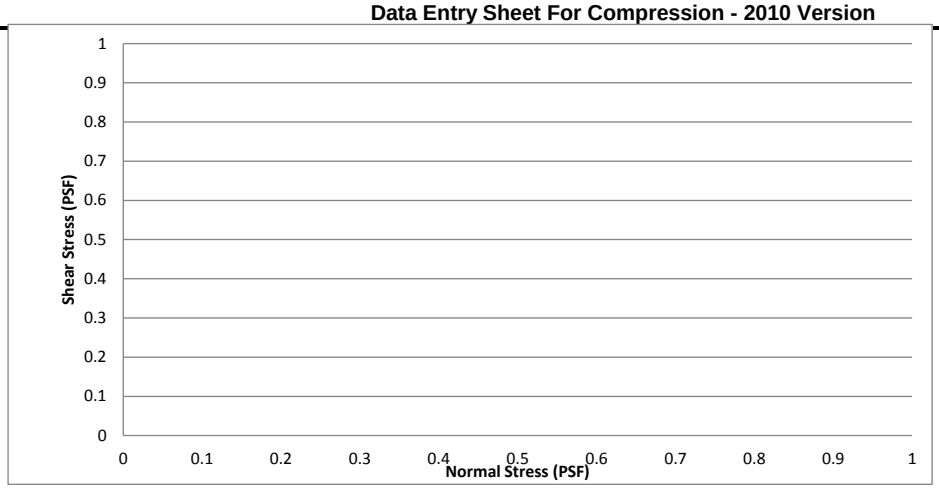
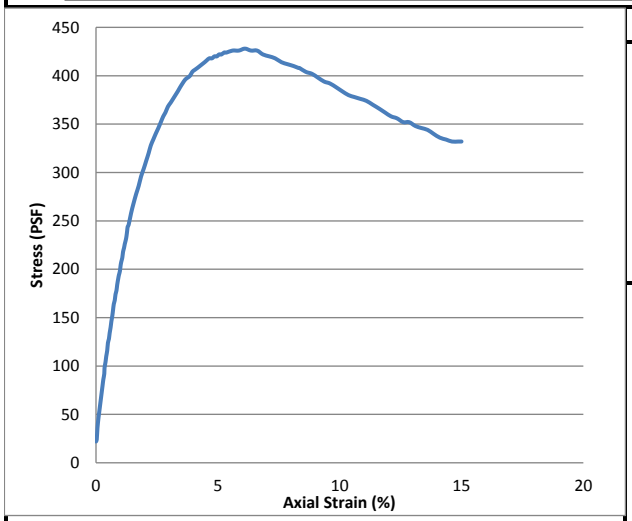


RESULTS	
C, PSF	214
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	110.79			
	DRY DENSITY, PCF	47.24			
	WET DENSITY, PCF	99.57			
	SATURATION %	117.33			
	VOID RATIO	2.50			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.60	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.85	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	6.11	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Very soft gray clay with organic matter and shell fragments (CH)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/8/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	28 - 30		
TESTED BY	TRC//	CHECKED BY	CLP///		

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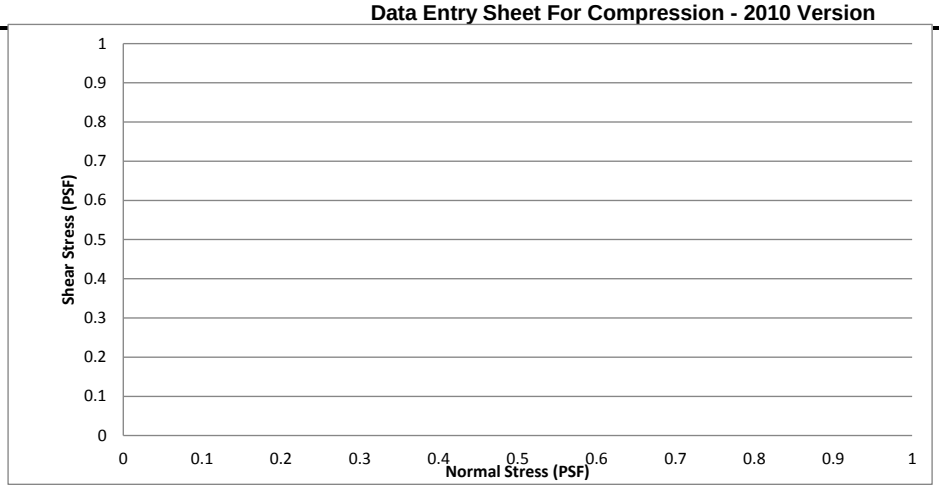
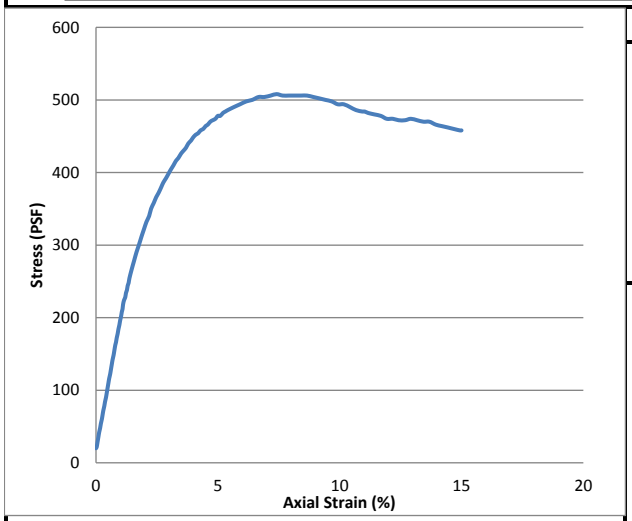


RESULTS	
C, PSF	254
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	180.33			
	DRY DENSITY, PCF	26.52			
	WET DENSITY, PCF	74.33			
	SATURATION %	91.22			
	VOID RATIO	5.24			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.41				
INITIAL DIAMETER, IN	2.87				
CELL PRESSURE, PSI					
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)					
STRAIN, %	7.41				
ULTIMATE DEVIATOR STRESS, PSF					
σ_1 FAILURE, PSF					
σ_3 FAILURE, PSF					

SAMPLE DESCRIPTION	Soft dark gray organic clay (OH)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/16/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	33 - 35		
TESTED BY	TRC//	CHECKED BY	CLP///		

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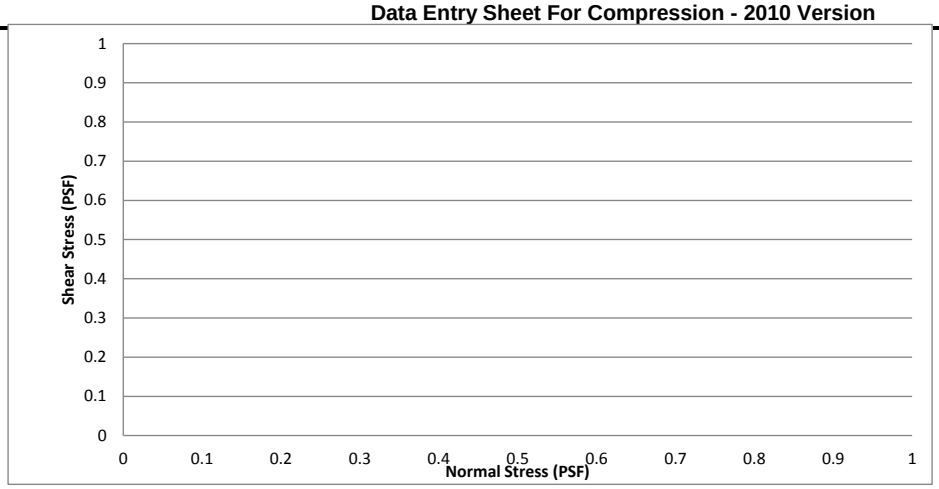
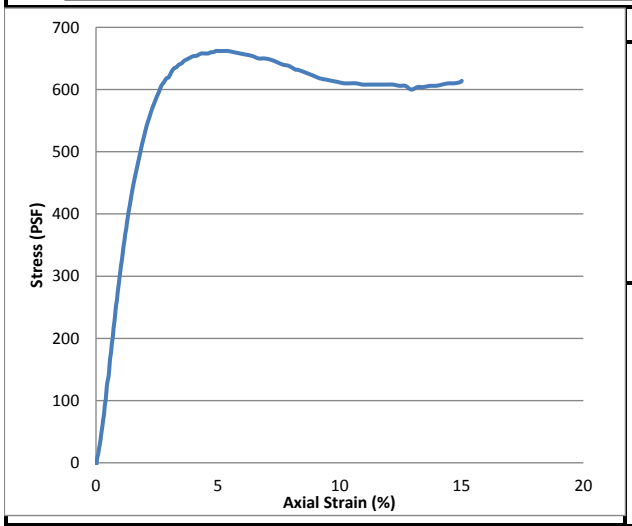


RESULTS	
C, PSF	331
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	86.17			
	DRY DENSITY, PCF	52.89			
	WET DENSITY, PCF	98.46			
	SATURATION %	107.30			
	VOID RATIO	2.13			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.32	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	5.42	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft dark gray clay with organic matter, silt lenses and silt pockets (CH)				
BORING NO.	B-2	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/16/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	48 - 50		
TESTED BY	TRC//	CHECKED BY	CLP///		

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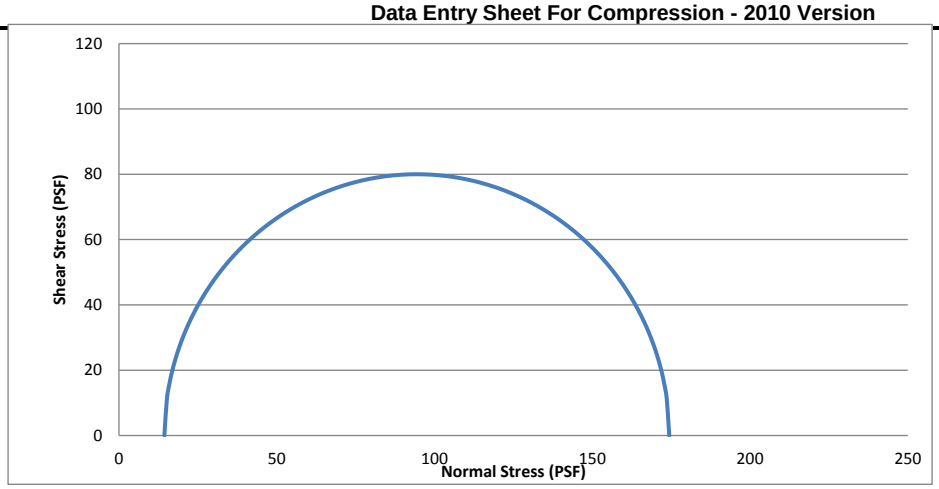
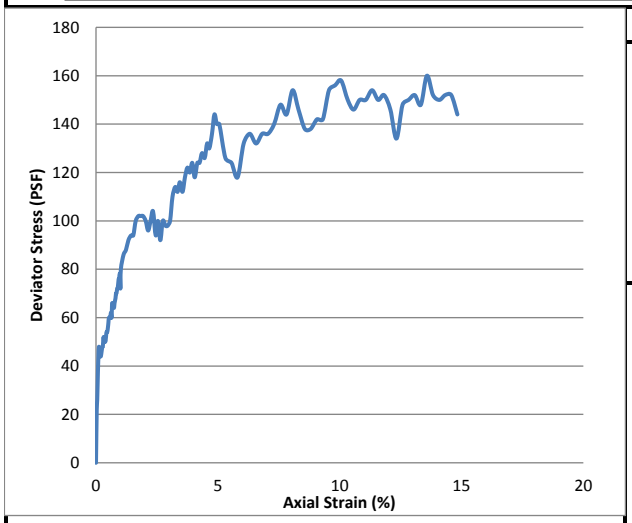


RESULTS	
C, PSF	80
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	210.02			
	DRY DENSITY, PCF	24.69			
	WET DENSITY, PCF	76.54			
	SATURATION %	97.62			
	VOID RATIO	5.70			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.94
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.74
				CELL PRESSURE, PSI	0.10
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	160.00
REMARKS				STRAIN, %	13.58
0				ULTIMATE DEVIATOR STRESS, PSF	220.00
				σ_1 FAILURE, PSF	174.40
				σ_3 FAILURE, PSF	14.40

SAMPLE DESCRIPTION	Very soft gray and dark gray organic clay (OH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	1 - 2		
TESTED BY	kkb//	CHECKED BY	CLP///		

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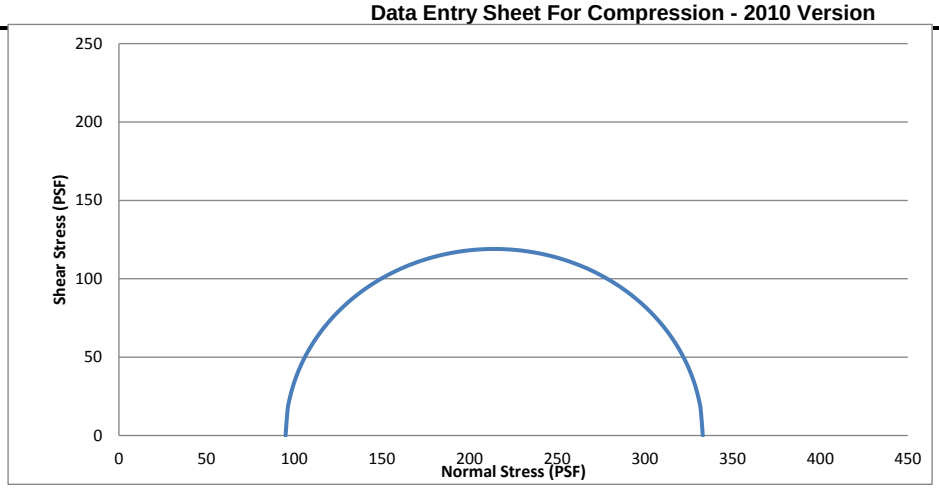
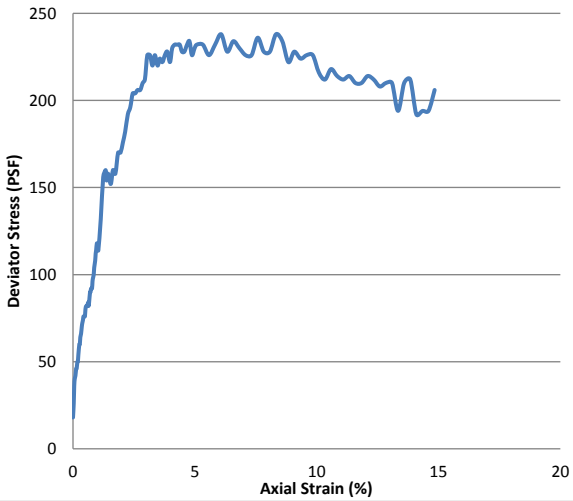


RESULTS	
C, PSF	119
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	185.96			
	DRY DENSITY, PCF	27.85			
	WET DENSITY, PCF	79.63			
	SATURATION %	99.74			
	VOID RATIO	4.94			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
	116	38	78		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.92				
INITIAL DIAMETER, IN	2.81				
CELL PRESSURE, PSI	0.66				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	238.00				
STRAIN, %	6.08				
ULTIMATE DEVIATOR STRESS, PSF	282.00				
σ_1 FAILURE, PSF	333.04				
σ_3 FAILURE, PSF	95.04				

SAMPLE DESCRIPTION	Very soft gray organic clay with silt (OH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	3 - 4		
TESTED BY	kkb//	CHECKED BY	CLP///		

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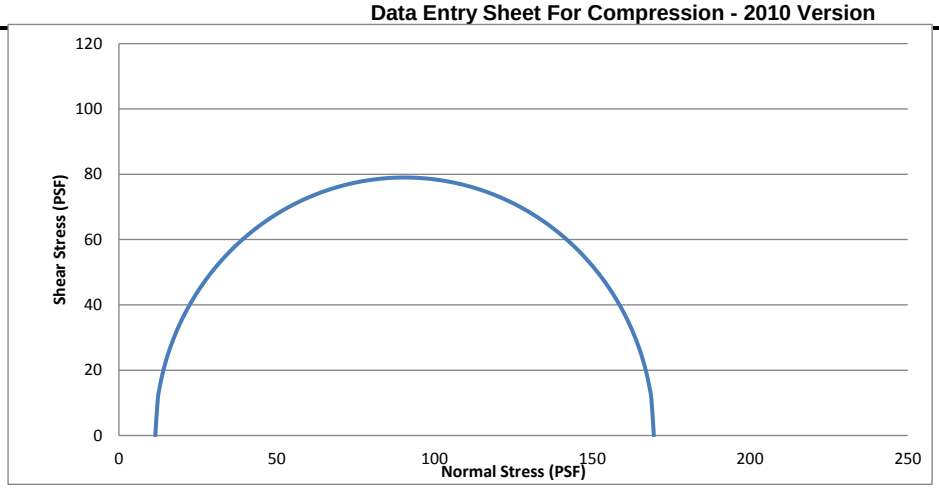
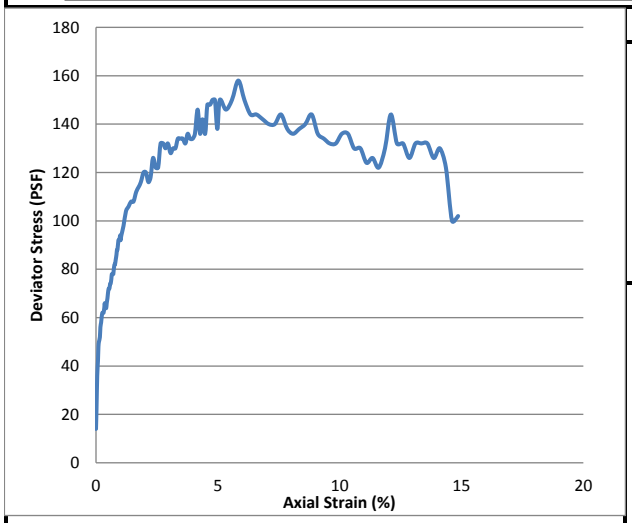


RESULTS	
C, PSF	79
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	498.36			
	DRY DENSITY, PCF	13.50			
	WET DENSITY, PCF	80.78			
	SATURATION %	117.34			
	VOID RATIO	11.25			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.99				
INITIAL DIAMETER, IN	2.78				
CELL PRESSURE, PSI	0.08				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	158.00				
STRAIN, %	5.84				
ULTIMATE DEVIATOR STRESS, PSF	176.00				
σ_1 FAILURE, PSF	169.52				
σ_3 FAILURE, PSF	11.52				

SAMPLE DESCRIPTION	Very soft gray organic clay with silt and 1" peat layers (OH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	5 - 6		
TESTED BY	kkb//	CHECKED BY	///		

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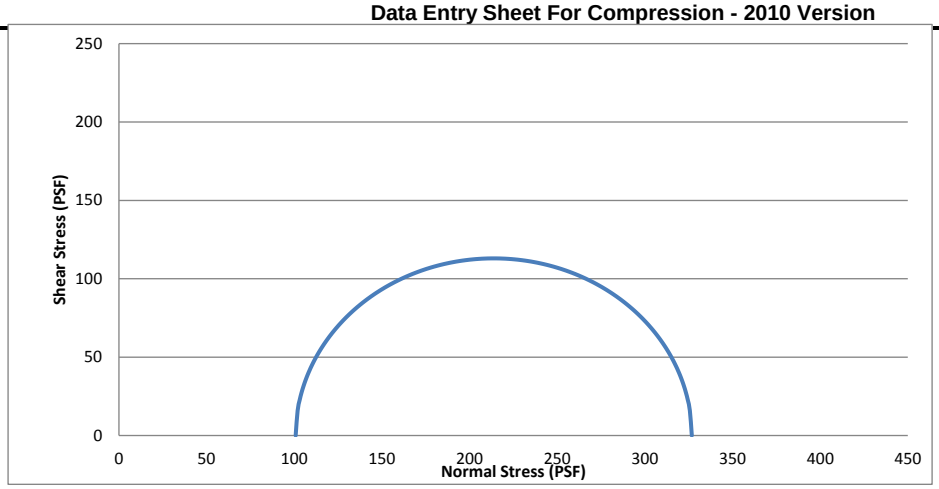
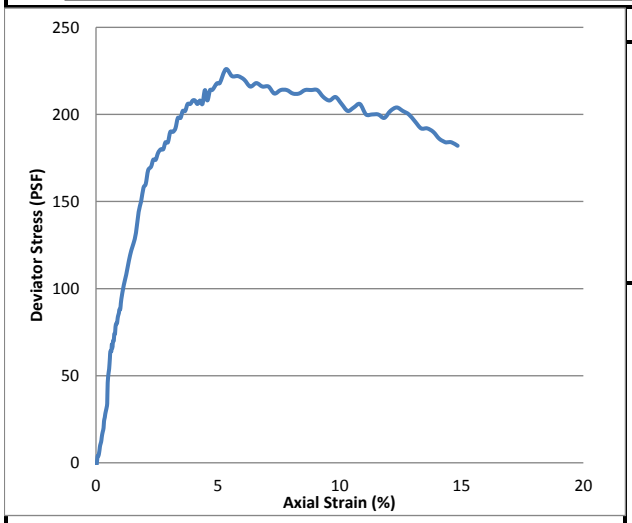


RESULTS	
C, PSF	113
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	140.98			
	DRY DENSITY, PCF	38.62			
	WET DENSITY, PCF	93.06			
	SATURATION %	113.76			
	VOID RATIO	3.28			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
	116	48	68		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.99		
INITIAL DIAMETER, IN	2.79		
CELL PRESSURE, PSI	0.70		
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	226.00		
STRAIN, %	5.33		
ULTIMATE DEVIATOR STRESS, PSF	256.00		
σ_1 FAILURE, PSF	326.80		
σ_3 FAILURE, PSF	100.80		

SAMPLE DESCRIPTION	Very soft gray organic clay (OH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	7 - 8		
TESTED BY	kkb//	CHECKED BY	CLP///		

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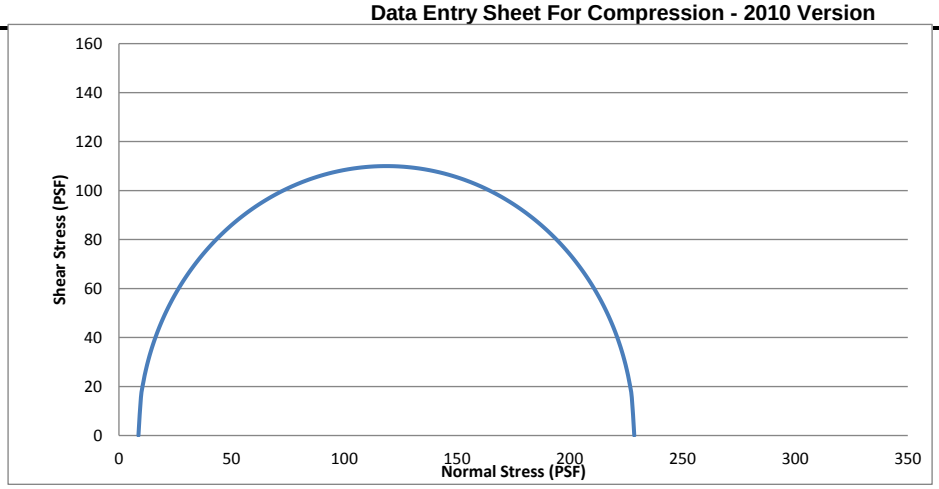
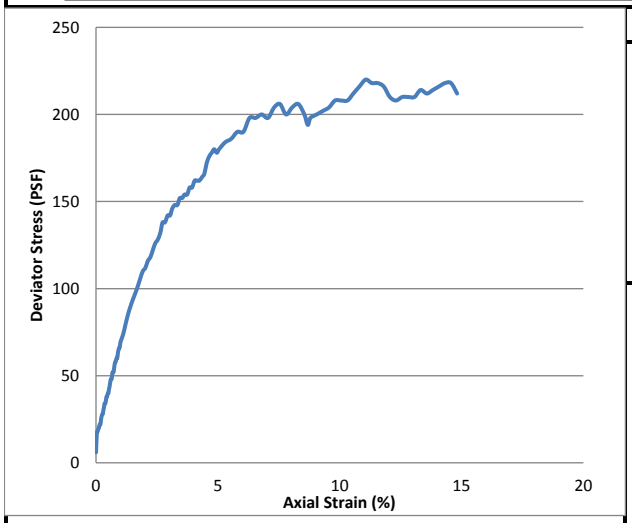


RESULTS	
C, PSF	110
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	42.60			
	DRY DENSITY, PCF	77.60			
	WET DENSITY, PCF	110.65			
	SATURATION %	99.72			
	VOID RATIO	1.13			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.99				
INITIAL DIAMETER, IN	2.87				
CELL PRESSURE, PSI	0.06				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	220.00				
STRAIN, %	11.07				
ULTIMATE DEVIATOR STRESS, PSF	284.00				
σ_1 FAILURE, PSF	228.64				
σ_3 FAILURE, PSF	8.64				

SAMPLE DESCRIPTION	Very soft gray very silty clay with sand and organics (CL)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	9 - 10		
TESTED BY	kkb//	CHECKED BY	CLP///		

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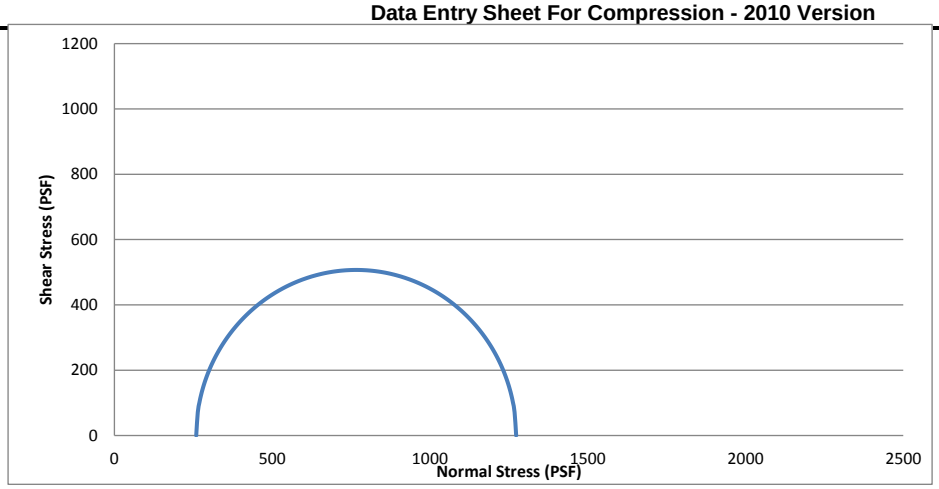
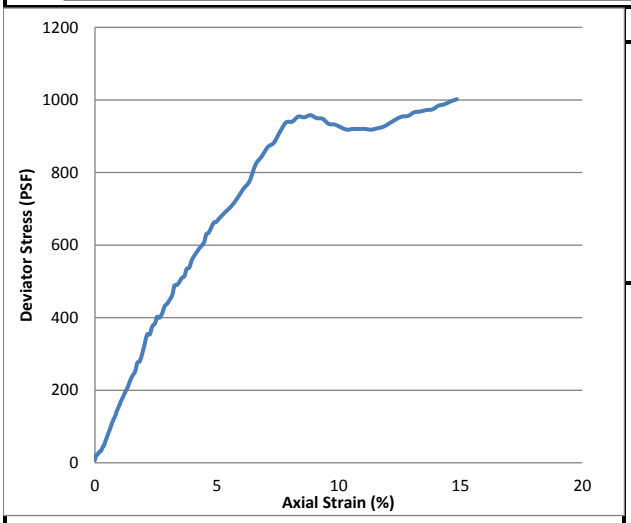
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	501
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	45.33			
	DRY DENSITY, PCF	79.99			
	WET DENSITY, PCF	116.25			
	SATURATION %	112.46			
	VOID RATIO	1.07			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.97
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.85
	30	24	6	CELL PRESSURE, PSI	1.80
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	1014.00
REMARKS				STRAIN, %	15.35
0				ULTIMATE DEVIATOR STRESS, PSF	1074.00
				σ_1 FAILURE, PSF	1273.20
				σ_3 FAILURE, PSF	259.20

SAMPLE DESCRIPTION	Gray silt with clay and sand pockets (ML)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	13 - 14		
TESTED BY	TRC//	CHECKED BY	CLP///		

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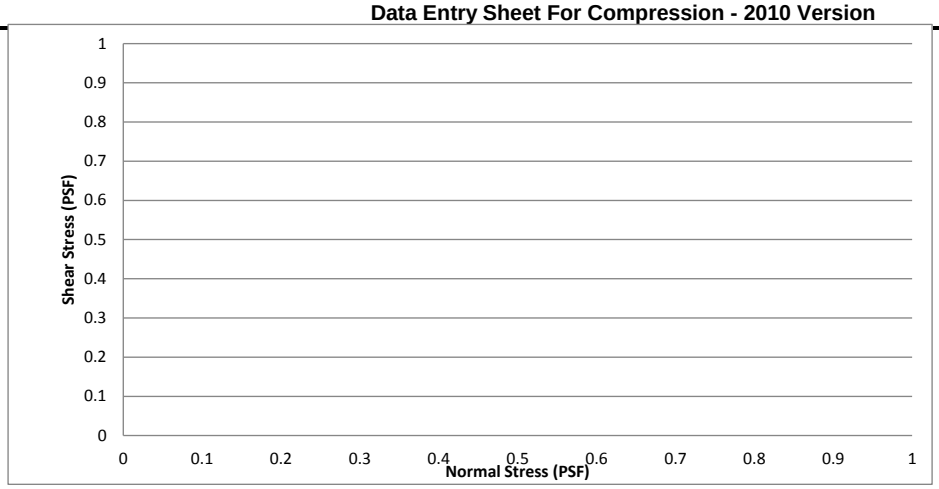
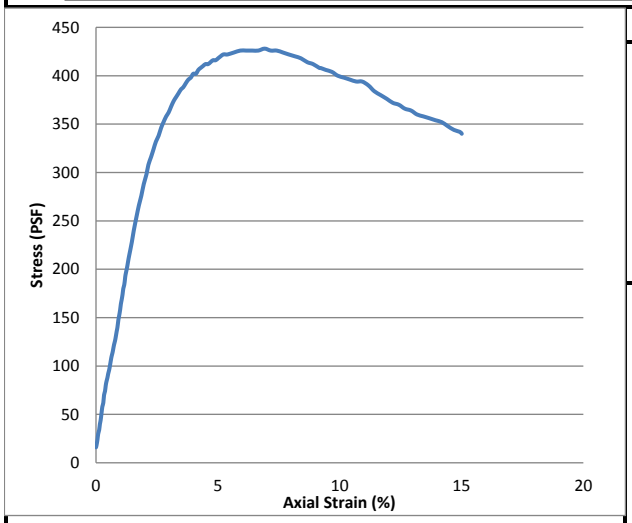


RESULTS	
C, PSF	214
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	71.37			
	DRY DENSITY, PCF	59.82			
	WET DENSITY, PCF	102.51			
	SATURATION %	107.12			
	VOID RATIO	1.77			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.58	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.81	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	6.92	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Very soft gray clay with silt lenses, silt seams and shell fragments (CH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	23 - 25		
TESTED BY	TRC//	CHECKED BY	CLP///		

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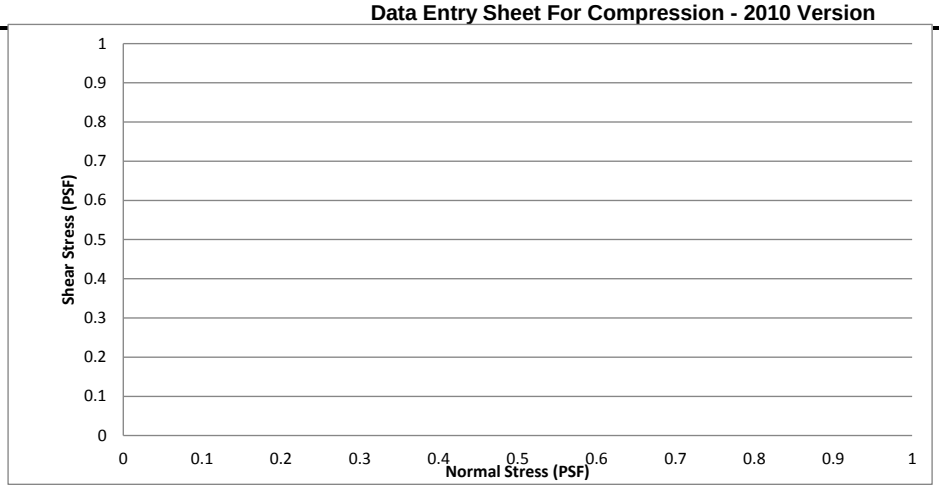
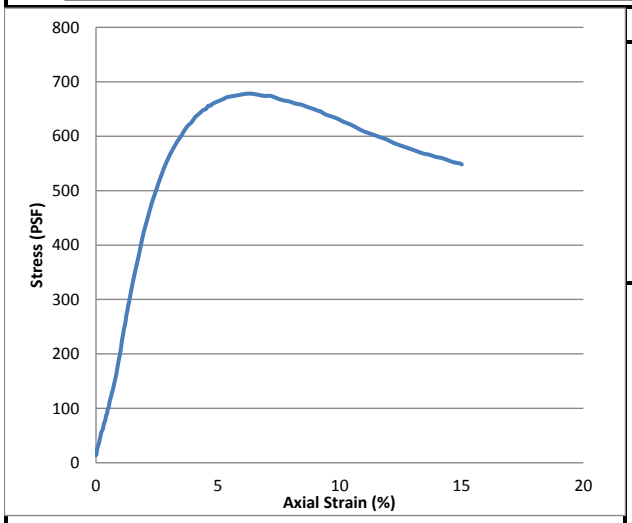


RESULTS	
C, PSF	339
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	202.21			
	DRY DENSITY, PCF	29.70			
	WET DENSITY, PCF	89.76			
	SATURATION %	117.25			
	VOID RATIO	4.57			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.69	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	6.16	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft dark gray organic clay with silt lenses, and organic matter (OH)				
BORING NO.	B-3	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	28 - 30		
TESTED BY	TRC//	CHECKED BY	CLP///		

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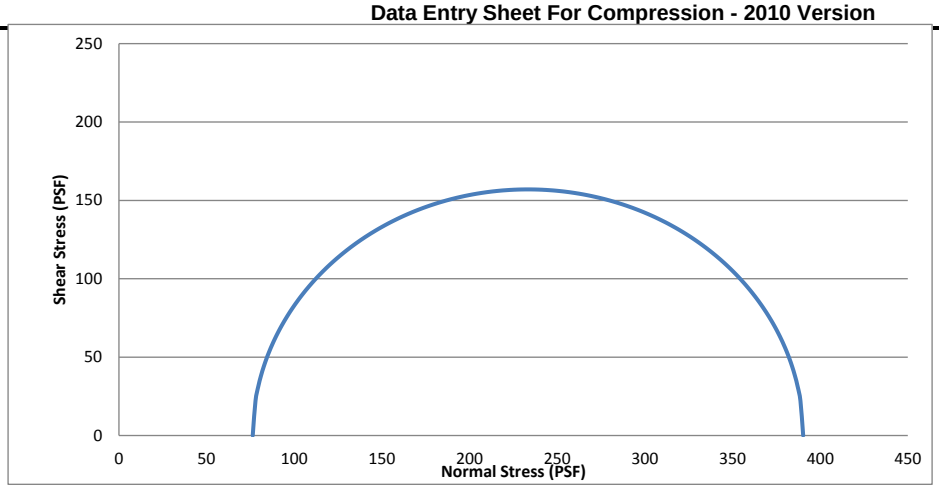
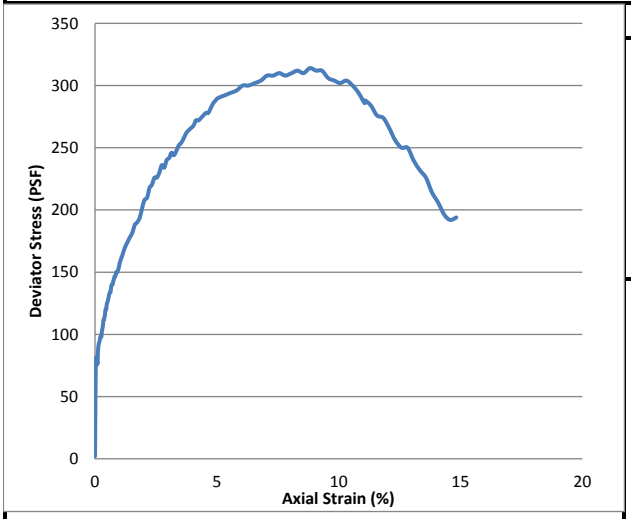


RESULTS	
C, PSF	157
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	318.10			
	DRY DENSITY, PCF	18.56			
	WET DENSITY, PCF	77.59			
	SATURATION %	106.51			
	VOID RATIO	7.91			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.81
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.75
	365	87	278	CELL PRESSURE, PSI	0.53
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	314.00
REMARKS				STRAIN, %	8.82
0				ULTIMATE DEVIATOR STRESS, PSF	268.00
				σ_1 FAILURE, PSF	390.32
				σ_3 FAILURE, PSF	76.32

SAMPLE DESCRIPTION	Very soft brown peat with 3" organic clay layer and organic matter (PT)				
BORING NO.	B-4	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	0 - 2		
TESTED BY	TRC//	CHECKED BY	SLC///		

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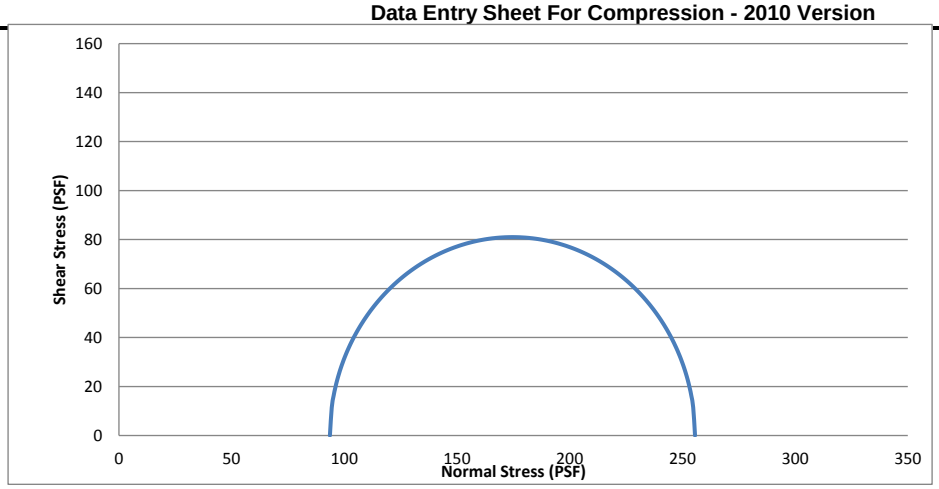
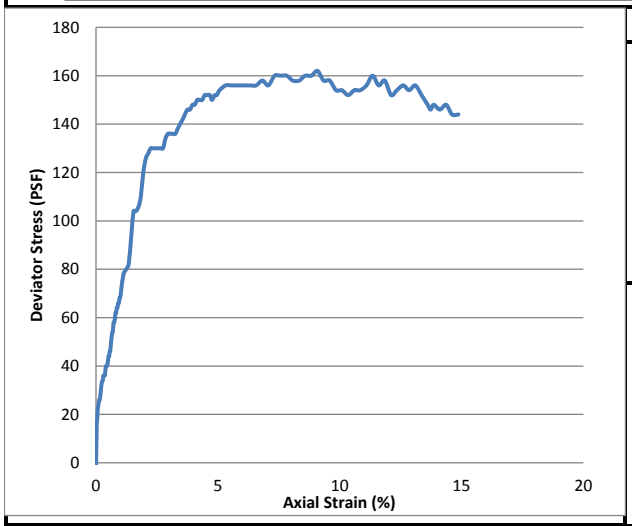


RESULTS	
C, PSF	81
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	61.08			
	DRY DENSITY, PCF	64.08			
	WET DENSITY, PCF	103.22			
	SATURATION %	102.33			
	VOID RATIO	1.58			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.27
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.75
				CELL PRESSURE, PSI	0.65
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	162.00
REMARKS				STRAIN, %	9.09
0				ULTIMATE DEVIATOR STRESS, PSF	218.00
				σ_1 FAILURE, PSF	255.60
				σ_3 FAILURE, PSF	93.60

SAMPLE DESCRIPTION	Very soft gray clay with 2" sand layer at bottom and organic matter (CH)				
BORING NO.	B-4	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/26/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	TRC//	CHECKED BY	SLC///		

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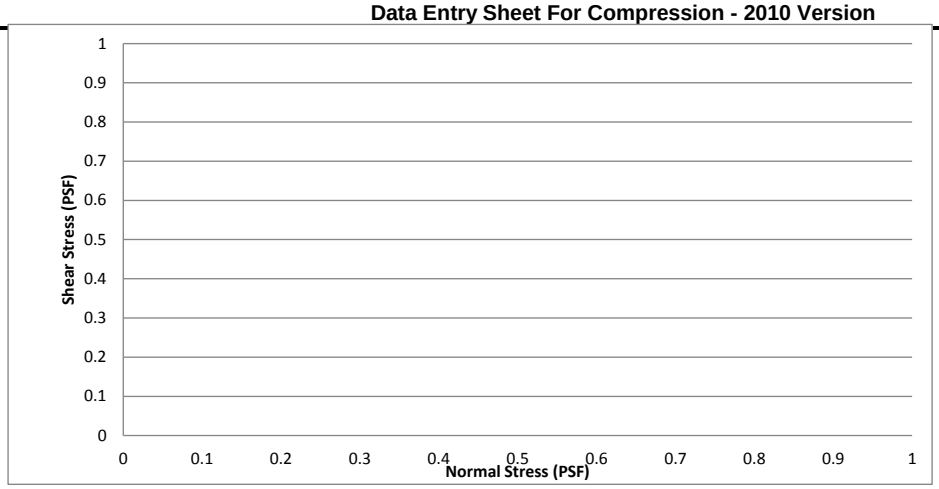
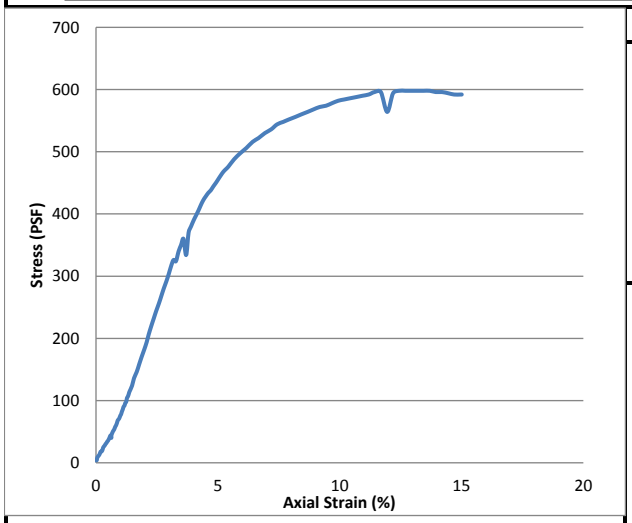


RESULTS	
C, PSF	299
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



		Specimen No.	1			
INITIAL		WATER CONTENT %	91.64			
		DRY DENSITY, PCF	61.55			
		WET DENSITY, PCF	117.96			
		SATURATION %	143.89			
		VOID RATIO	1.69			
AT TEST		WATER CONTENT %				
		DRY DENSITY, PCF				
		WET DENSITY, PCF				
		SATURATION %				
		VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.26	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.74	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	13.70	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft gray clay with silt lenses (CH)				
BORING NO.	B-4	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/27/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	18 - 20		
TESTED BY	TRC//	CHECKED BY	SLC///		

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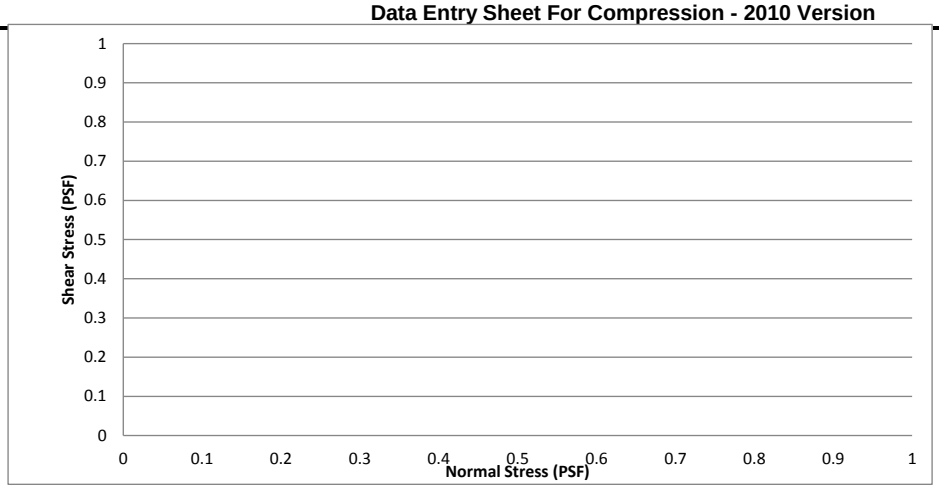
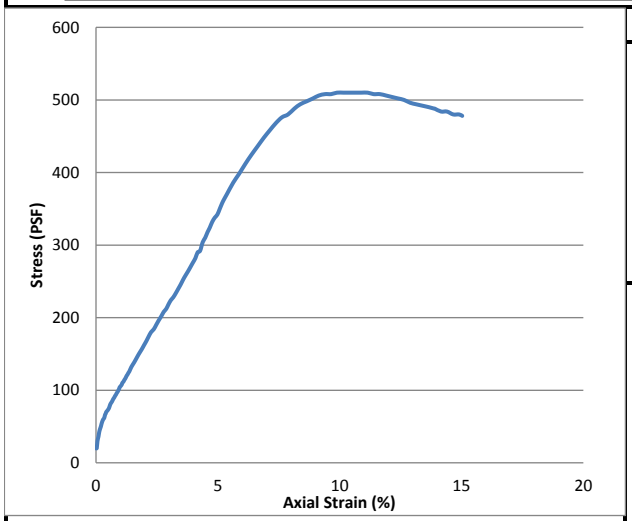


RESULTS	
C, PSF	255
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	70.70			
	DRY DENSITY, PCF	59.38			
	WET DENSITY, PCF	101.35			
	SATURATION %	104.88			
	VOID RATIO	1.79			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.22	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.81	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	10.89	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft gray clay with silt lenses and sand pockets (CH)				
BORING NO.	B-4	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	28 - 30		
TESTED BY	TRC//	CHECKED BY	SLC///		

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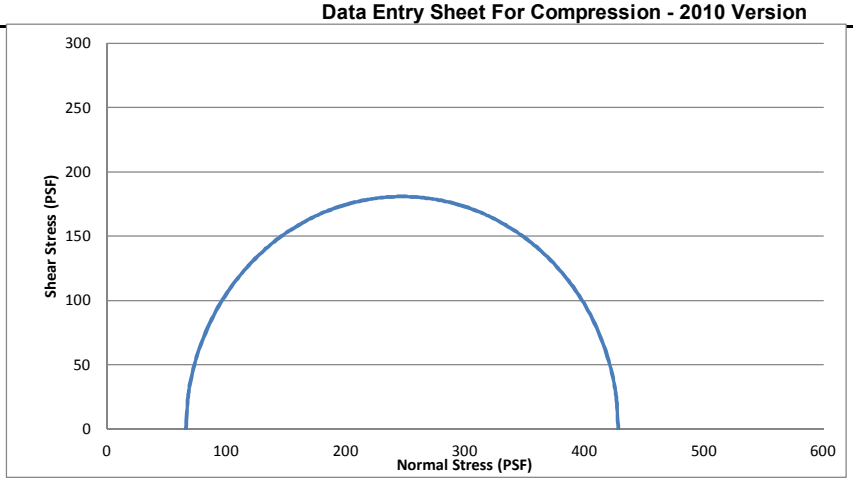
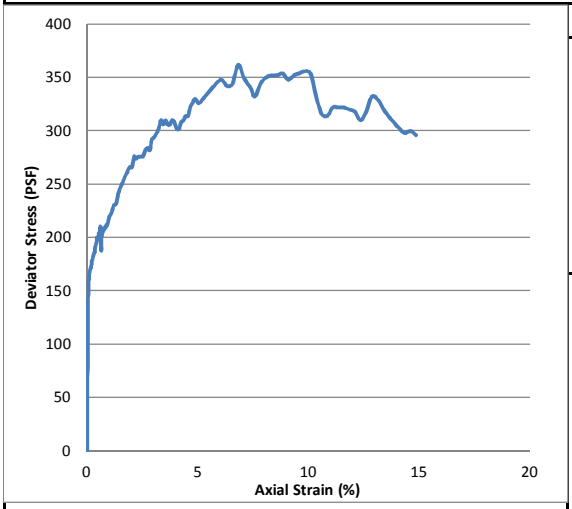


RESULTS	
C, PSF	181
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	225.77			
	DRY DENSITY, PCF	25.26			
	WET DENSITY, PCF	82.28			
	SATURATION %	107.79			
	VOID RATIO	5.55			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.93		
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80		
				CELL PRESSURE, PSI	0.46		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	362.00		
REMARKS				STRAIN, %	6.83		
0				ULTIMATE DEVIATOR STRESS, PSF	370.00		
				σ_1 FAILURE, PSF	428.24		
				σ_3 FAILURE, PSF	66.24		

SAMPLE DESCRIPTION	Very soft brown peat with gray organic clay layer (PT)				
BORING NO.	B-5	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/16/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	0 - 2		
TESTED BY	TRC//	CHECKED BY	CLP///		

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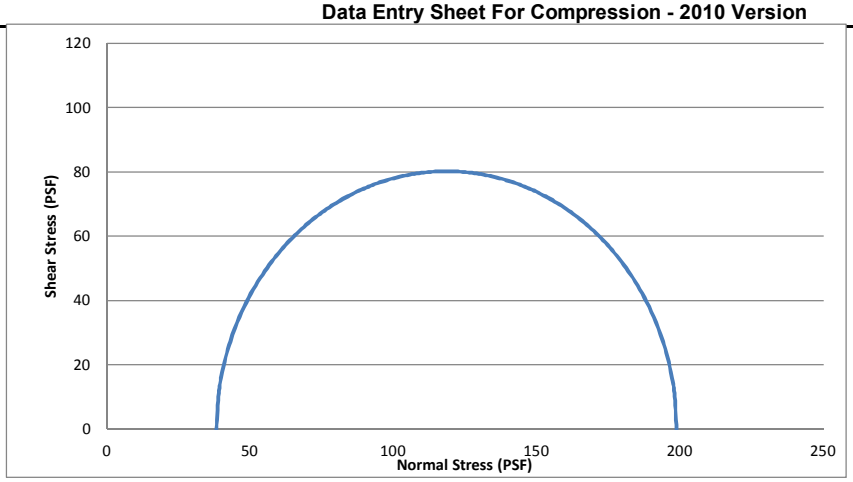
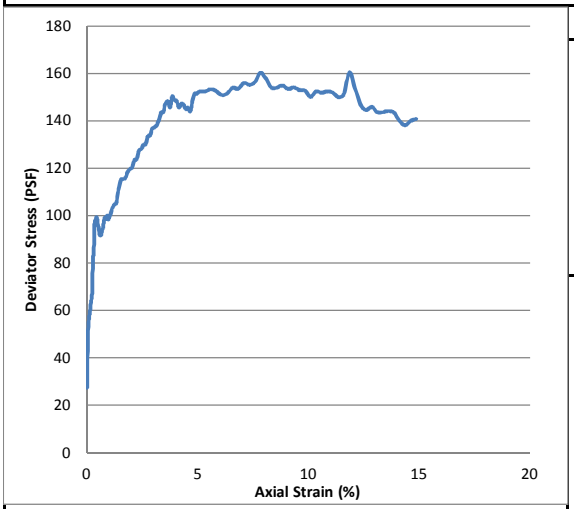


RESULTS	
C, PSF	80
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	261.52			
	DRY DENSITY, PCF	20.99			
	WET DENSITY, PCF	75.90			
	SATURATION %	100.73			
	VOID RATIO	6.88			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	4.60	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.87	
				CELL PRESSURE, PSI	0.27	
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF ($\sigma_1 - \sigma_3$)	160.53	
REMARKS				STRAIN, %	11.85	
0				ULTIMATE DEVIATOR STRESS, PSF	212.46	
				σ_1 FAILURE, PSF	198.78	
				σ_3 FAILURE, PSF	38.26	

SAMPLE DESCRIPTION	Very soft brown peat with organic clay layer (PT)				
BORING NO.	B-5	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	TRC//	CHECKED BY	CLP///		

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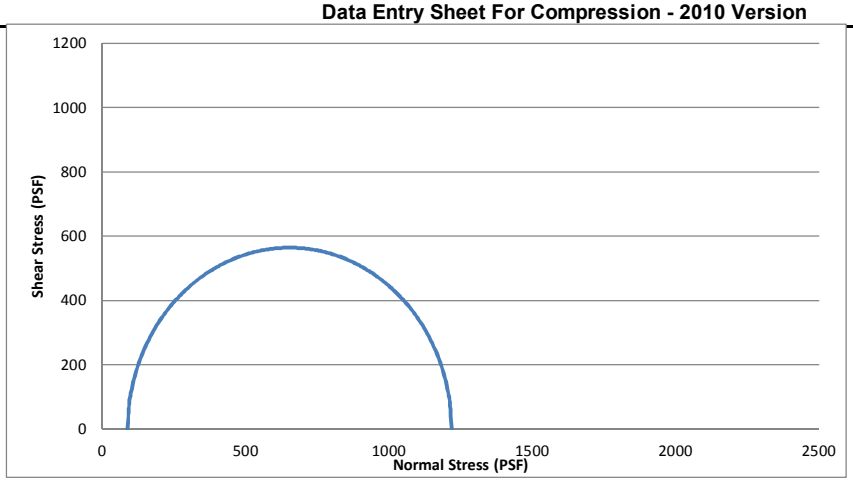
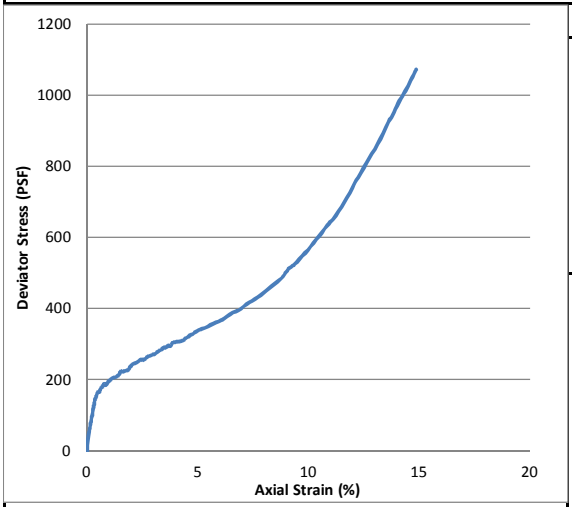


RESULTS	
C, PSF	536
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	68.63			
	DRY DENSITY, PCF	70.72			
	WET DENSITY, PCF	119.25			
	SATURATION %	135.79			
	VOID RATIO	1.34			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.52	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.88	
				CELL PRESSURE, PSI	0.61	
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF ($\sigma_1 - \sigma_3$)	1130.24	
REMARKS				STRAIN, %	15.37	
0				ULTIMATE DEVIATOR STRESS, PSF	1144.56	
				σ_1 FAILURE, PSF	1217.72	
				σ_3 FAILURE, PSF	87.47	

SAMPLE DESCRIPTION	Medium gray clay with sand layers (CH)				
BORING NO.	B-5	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/16/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	4 - 6		
TESTED BY	TRC//	CHECKED BY	CLP///		

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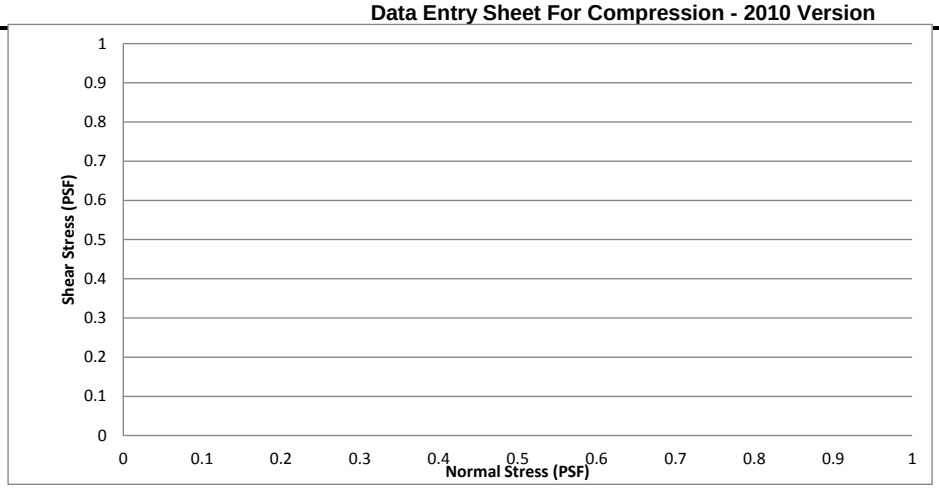
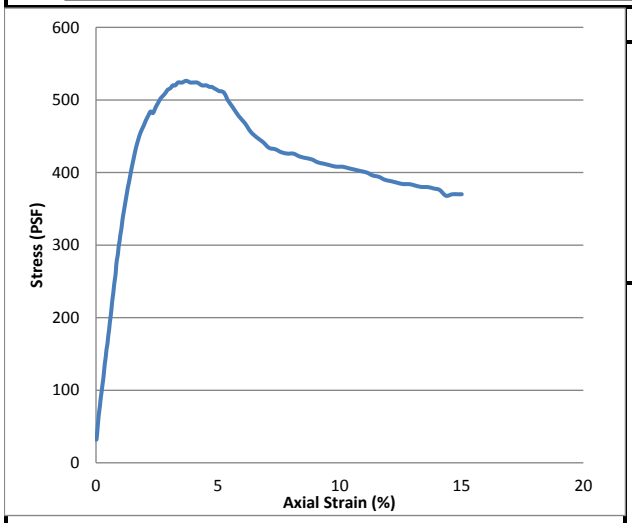


RESULTS	
C, PSF	263
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	95.45			
	DRY DENSITY, PCF	50.13			
	WET DENSITY, PCF	97.99			
	SATURATION %	109.99			
	VOID RATIO	2.30			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.44	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.84	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	3.65	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft gray clay with sand lenses and shell fragments (CH)				
BORING NO.	B-5	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/30/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	16 - 18		
TESTED BY	TRC//	CHECKED BY	CLp///		

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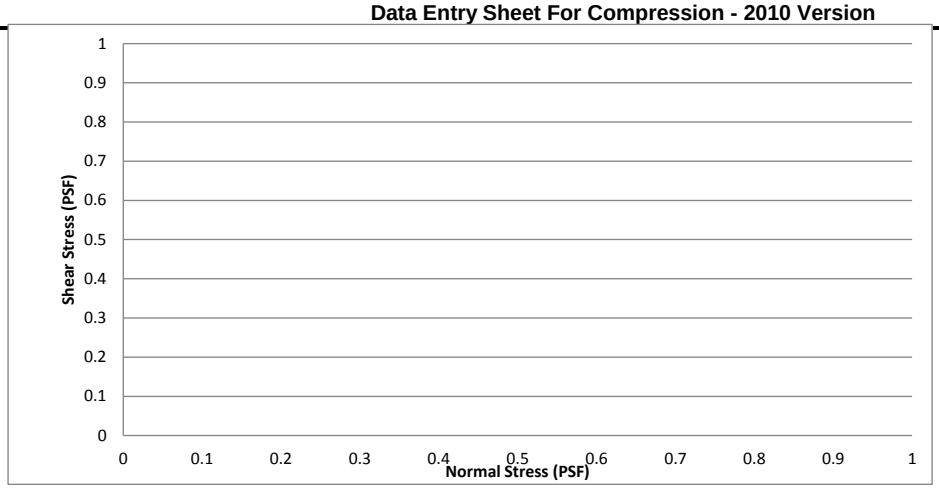
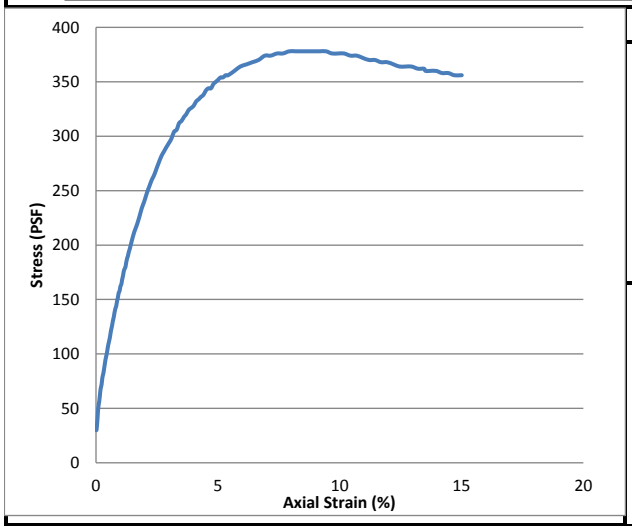


RESULTS	
C, PSF	189
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	50.30			
	DRY DENSITY, PCF	70.11			
	WET DENSITY, PCF	105.38			
	SATURATION %	98.05			
	VOID RATIO	1.36			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.66	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.85	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	8.69	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Very soft gray silty clay with silt lenses and shell fragments (CL)				
BORING NO.	B-5	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/16/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	18 - 20		
TESTED BY	TRC//	CHECKED BY	CLP///		

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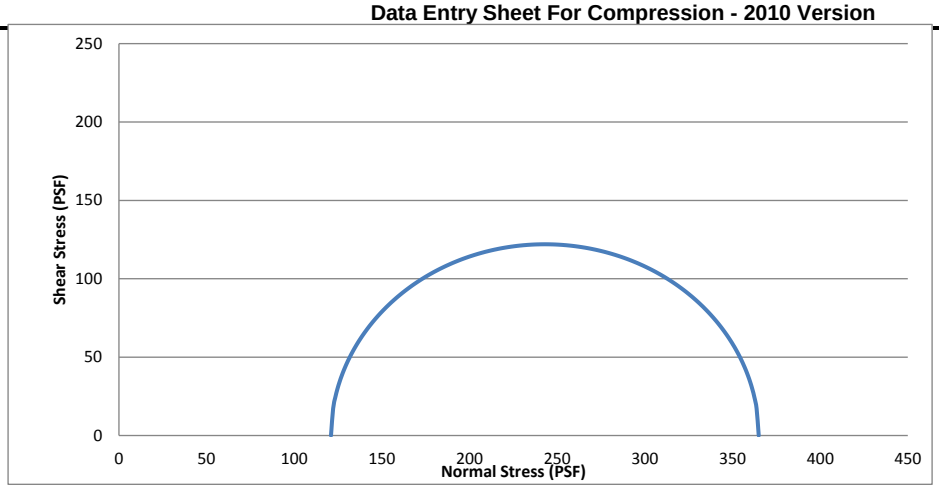
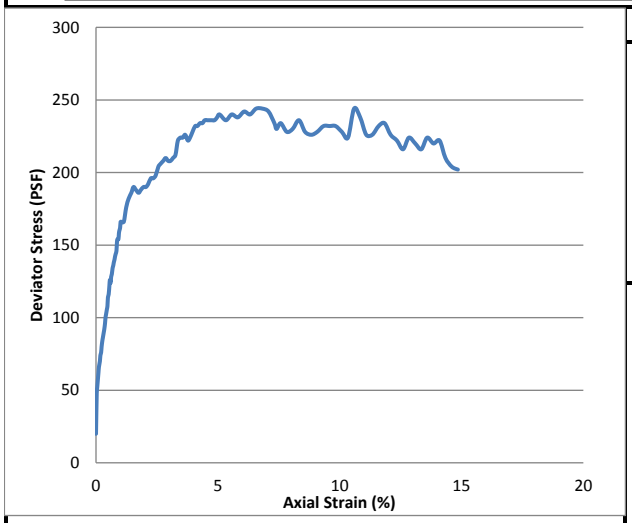


RESULTS	
C, PSF	122
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	70.40			
	DRY DENSITY, PCF	65.07			
	WET DENSITY, PCF	110.89			
	SATURATION %	120.98			
	VOID RATIO	1.54			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.54	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.75	
				CELL PRESSURE, PSI	0.84	
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	244.00	
REMARKS				STRAIN, %	6.57	
0				ULTIMATE DEVIATOR STRESS, PSF	276.00	
				σ_1 FAILURE, PSF	364.96	
				σ_3 FAILURE, PSF	120.96	

SAMPLE DESCRIPTION	Very soft dark gray silty clay with silt lenses (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/31/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	kkb//	CHECKED BY	CLP///		

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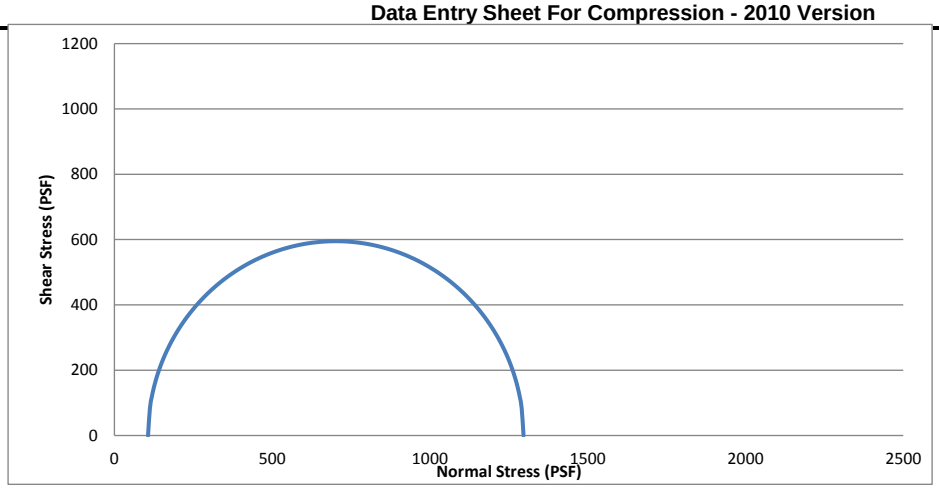
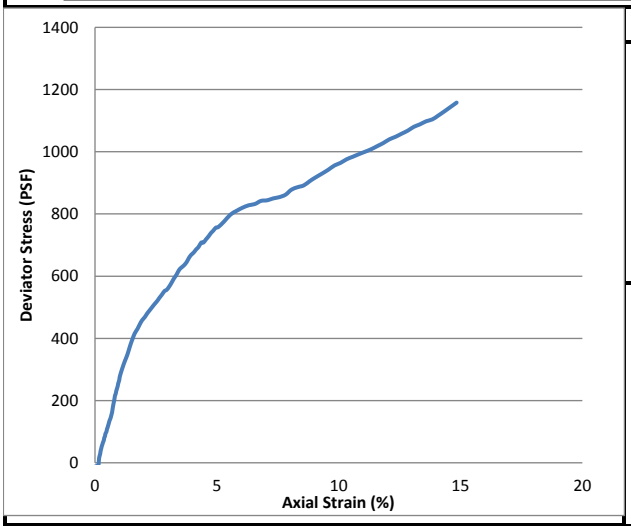


RESULTS	
C, PSF	579
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	28.64			
	DRY DENSITY, PCF	103.76			
	WET DENSITY, PCF	133.48			
	SATURATION %	127.70			
	VOID RATIO	0.59			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.73
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.73
	33	18	15	CELL PRESSURE, PSI	0.74
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	1190.00
REMARKS				STRAIN, %	15.34
0				ULTIMATE DEVIATOR STRESS, PSF	1232.00
				σ_1 FAILURE, PSF	1296.56
				σ_3 FAILURE, PSF	106.56

SAMPLE DESCRIPTION	Medium gray very sandy clay with silt (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	4 - 5		
TESTED BY	kkb//	CHECKED BY	CLP///		

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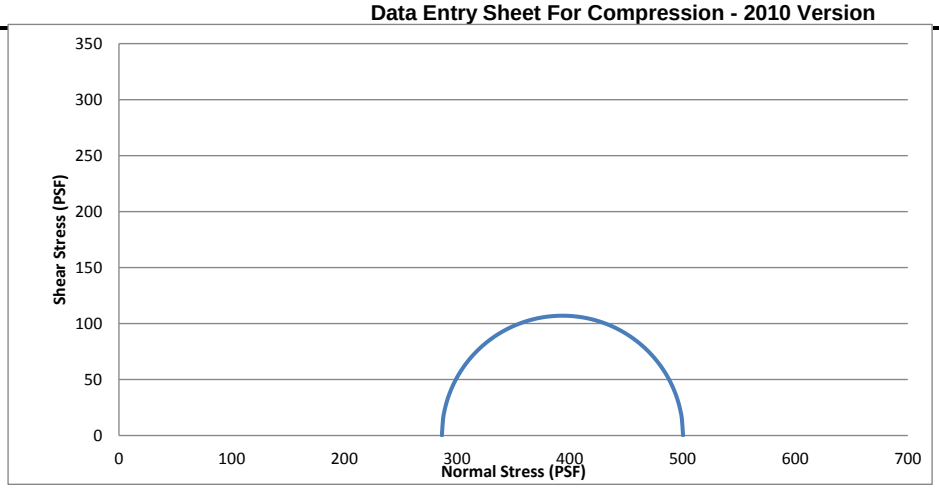
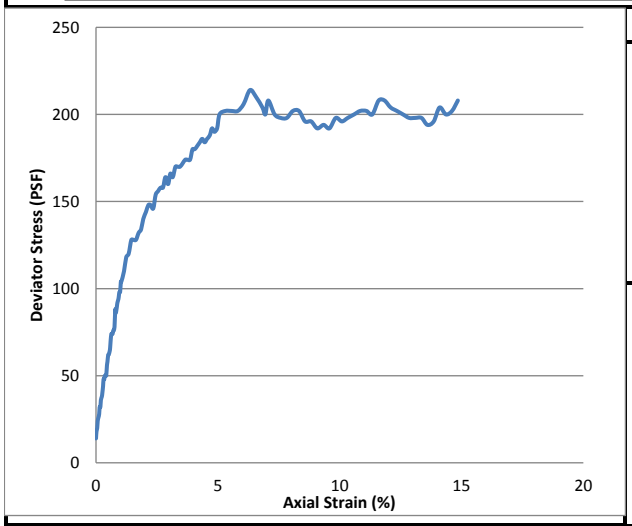


RESULTS	
C, PSF	104
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	60.61			
	DRY DENSITY, PCF	71.92			
	WET DENSITY, PCF	115.50			
	SATURATION %	123.51			
	VOID RATIO	1.30			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.55				
INITIAL DIAMETER, IN	2.81				
CELL PRESSURE, PSI	1.99				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	214.00				
STRAIN, %	6.32				
ULTIMATE DEVIATOR STRESS, PSF	280.00				
σ_1 FAILURE, PSF	500.56				
σ_3 FAILURE, PSF	286.56				

SAMPLE DESCRIPTION	Very soft gray silty clay (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	4/14/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	5 - 6		
TESTED BY	TRC//	CHECKED BY	SLC///		

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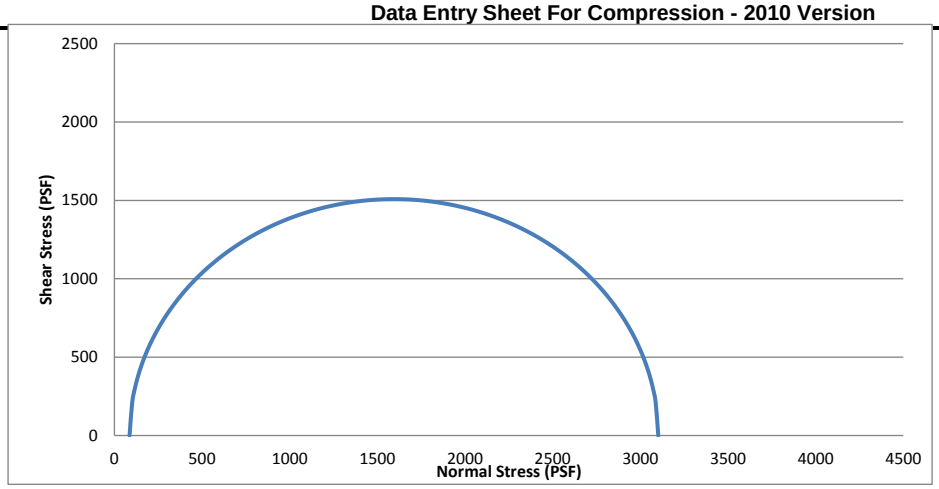
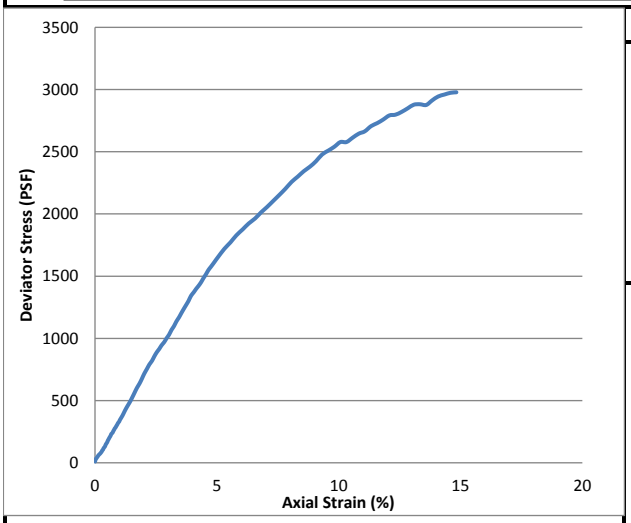


RESULTS	
C, PSF	1489
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	46.75			
	DRY DENSITY, PCF	82.63			
	WET DENSITY, PCF	121.25			
	SATURATION %	123.61			
	VOID RATIO	1.00			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.82				
INITIAL DIAMETER, IN	2.89				
CELL PRESSURE, PSI	0.60				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	3016.00				
STRAIN, %	15.34				
ULTIMATE DEVIATOR STRESS, PSF	3050.00				
σ_1 FAILURE, PSF	3102.40				
σ_3 FAILURE, PSF	86.40				

SAMPLE DESCRIPTION	Stiff gray sandy clay with silt and organic matter (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/31/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	6 - 7		
TESTED BY	kkb//	CHECKED BY	CLP///		

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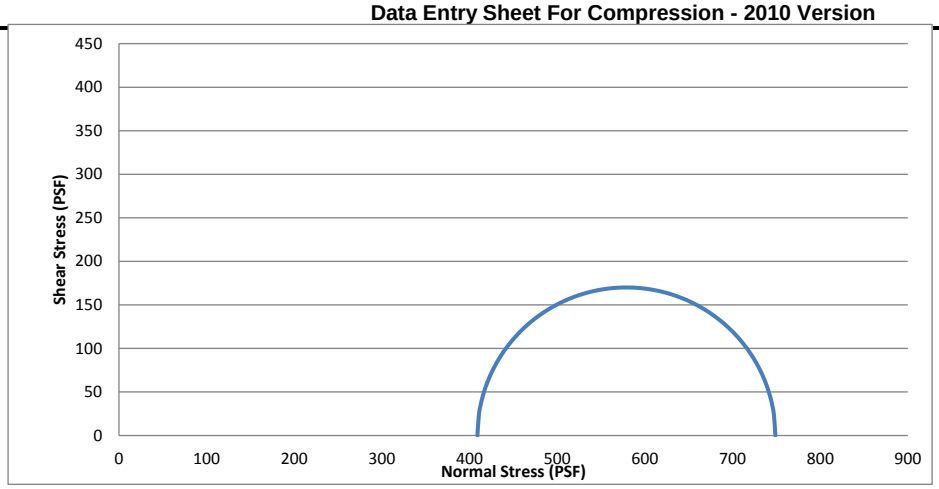
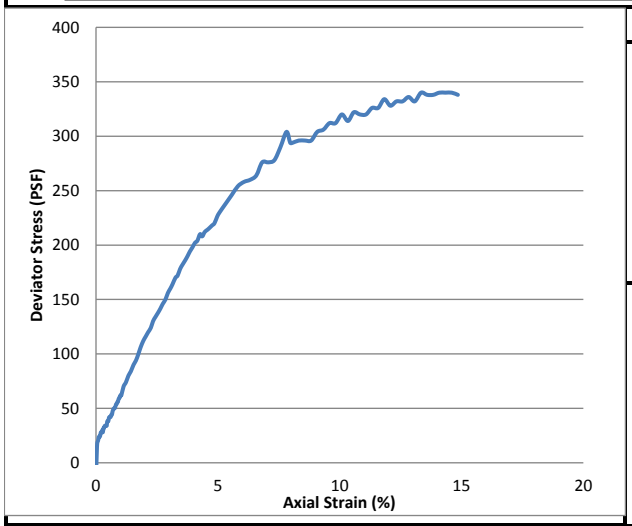


RESULTS	
C, PSF	169
Sample 1 Failure	Yield
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	47.50			
	DRY DENSITY, PCF	77.93			
	WET DENSITY, PCF	114.94			
	SATURATION %	112.09			
	VOID RATIO	1.12			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.82				
INITIAL DIAMETER, IN	2.76				
CELL PRESSURE, PSI	2.84				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	340.00				
STRAIN, %	13.34				
ULTIMATE DEVIATOR STRESS, PSF	412.00				
σ_1 FAILURE, PSF	748.96				
σ_3 FAILURE, PSF	408.96				

SAMPLE DESCRIPTION	Very soft gray sandy silty clay (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	4/8/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	7 - 8		
TESTED BY	TCJ//	CHECKED BY	SLC///		

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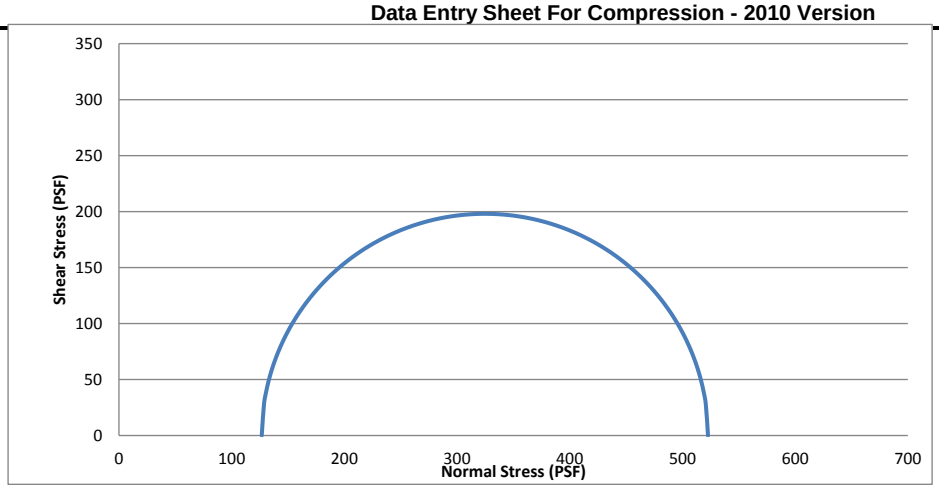
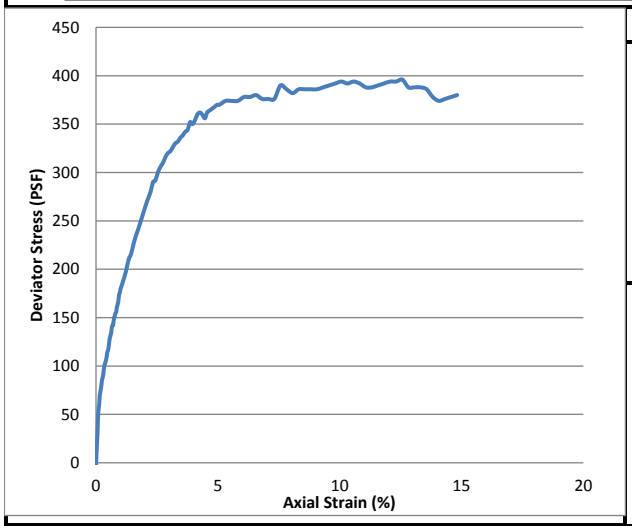


RESULTS	
C, PSF	198
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	43.98			
	DRY DENSITY, PCF	74.96			
	WET DENSITY, PCF	107.92			
	SATURATION %	96.54			
	VOID RATIO	1.21			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.90
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.86
	38	16	22	CELL PRESSURE, PSI	0.88
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	396.00
REMARKS				STRAIN, %	12.57
0				ULTIMATE DEVIATOR STRESS, PSF	452.00
				σ_1 FAILURE, PSF	522.72
				σ_3 FAILURE, PSF	126.72

SAMPLE DESCRIPTION	Very soft gray silty clay with organic lens (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/31/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	8 - 10		
TESTED BY	kkb//	CHECKED BY	CLP///		

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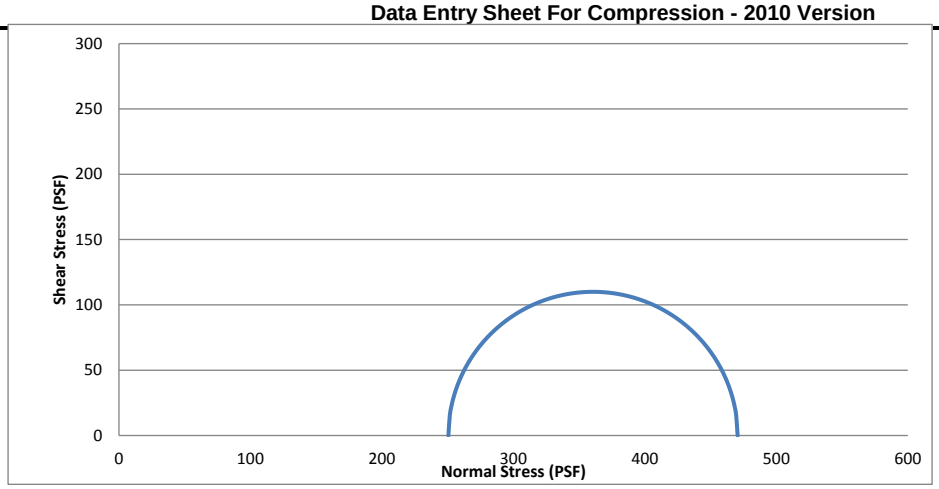
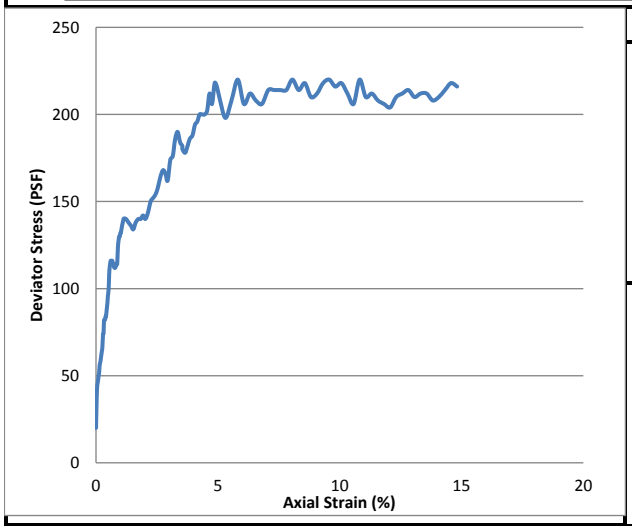


RESULTS	
C, PSF	110
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	49.14			
	DRY DENSITY, PCF	77.89			
	WET DENSITY, PCF	116.16			
	SATURATION %	115.86			
	VOID RATIO	1.12			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.81				
INITIAL DIAMETER, IN	2.75				
CELL PRESSURE, PSI	1.74				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	220.00				
STRAIN, %	5.82				
ULTIMATE DEVIATOR STRESS, PSF	290.00				
σ_1 FAILURE, PSF	470.56				
σ_3 FAILURE, PSF	250.56				

SAMPLE DESCRIPTION	Very soft gray very sandy clay with silt (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/31/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	16 - 17		
TESTED BY	kkb//	CHECKED BY	CLP///		

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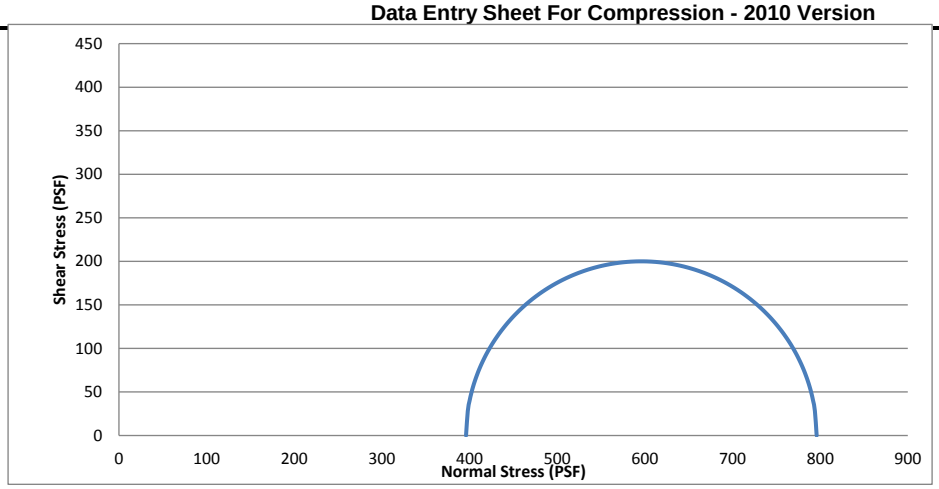
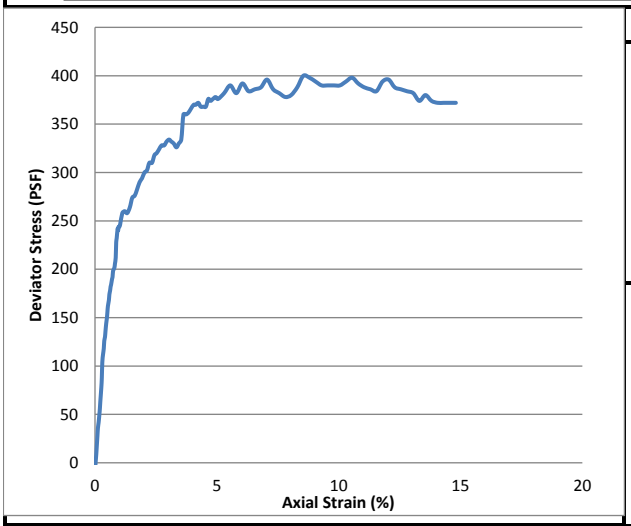


RESULTS	
C, PSF	200
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	76.94			
	DRY DENSITY, PCF	55.67			
	WET DENSITY, PCF	98.51			
	SATURATION %	103.42			
	VOID RATIO	1.97			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.73				
INITIAL DIAMETER, IN	2.85				
CELL PRESSURE, PSI	2.75				
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	400.00				
STRAIN, %	8.55				
ULTIMATE DEVIATOR STRESS, PSF	444.00				
σ_1 FAILURE, PSF	796.00				
σ_3 FAILURE, PSF	396.00				

SAMPLE DESCRIPTION	Very soft gray clay with silty sand pockets and shell fragments (CH)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/31/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	19 - 20		
TESTED BY	kkb//	CHECKED BY	CLP///		

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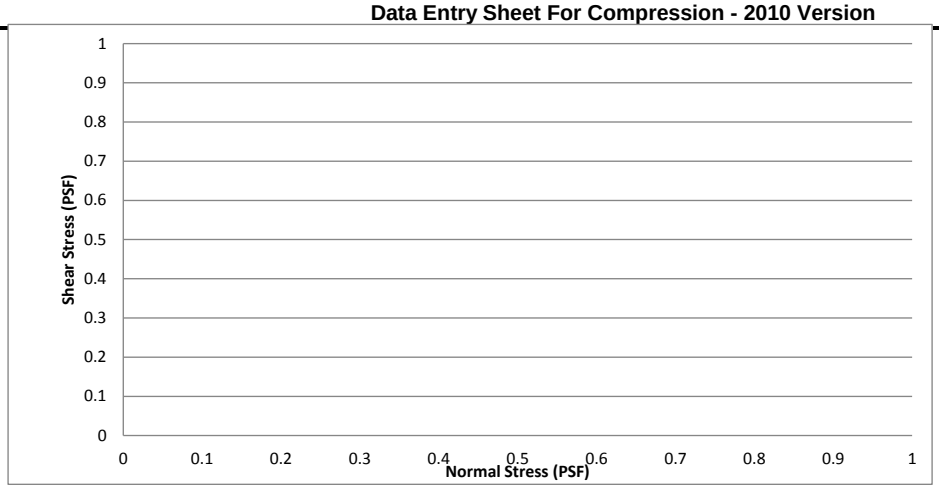
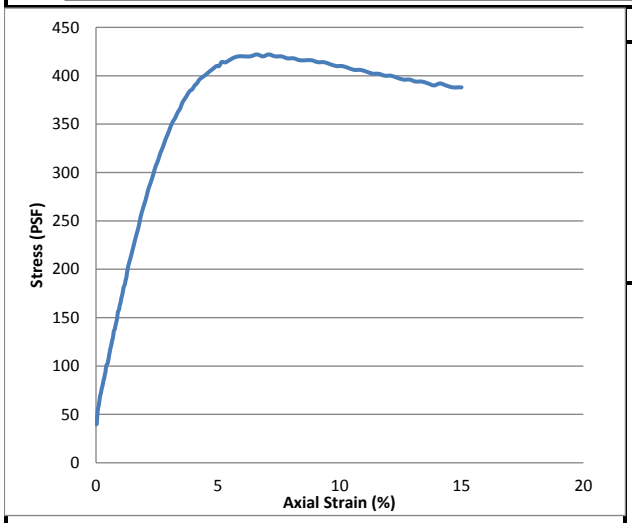


RESULTS	
C, PSF	211
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	40.21			
	DRY DENSITY, PCF	79.24			
	WET DENSITY, PCF	111.10			
	SATURATION %	97.95			
	VOID RATIO	1.09			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC				
ATTERBERG LIMIT	LL	PL	PI		
ASSUMED SPECIFIC GRAVITY	2.65				
REMARKS					
0					

INITIAL HEIGHT, IN	5.66				
INITIAL DIAMETER, IN	2.77				
CELL PRESSURE, PSI					
MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)					
STRAIN, %	6.60				
ULTIMATE DEVIATOR STRESS, PSF					
σ_1 FAILURE, PSF					
σ_3 FAILURE, PSF					

SAMPLE DESCRIPTION	Very soft gray silty clay with silt lenses and silt seams (CL)				
BORING NO.	B-6	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/16/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	23 - 25		
TESTED BY	TRC//	CHECKED BY	CLP///		

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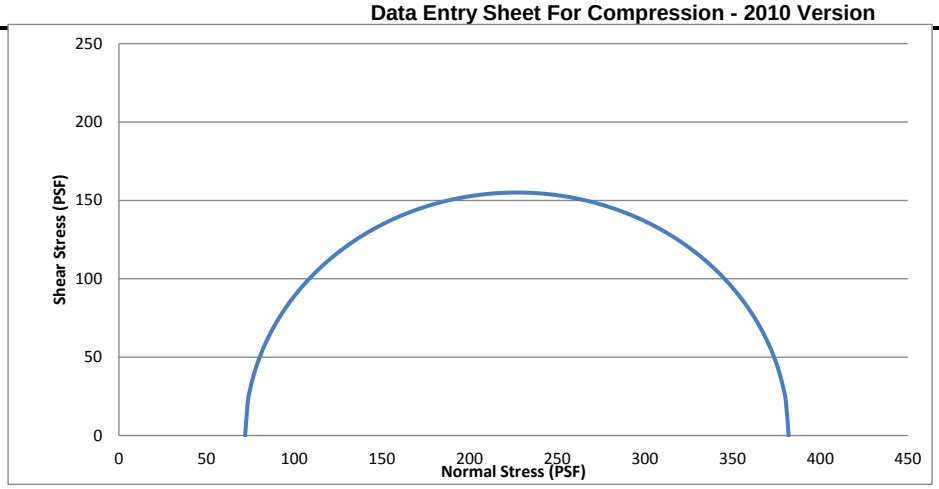
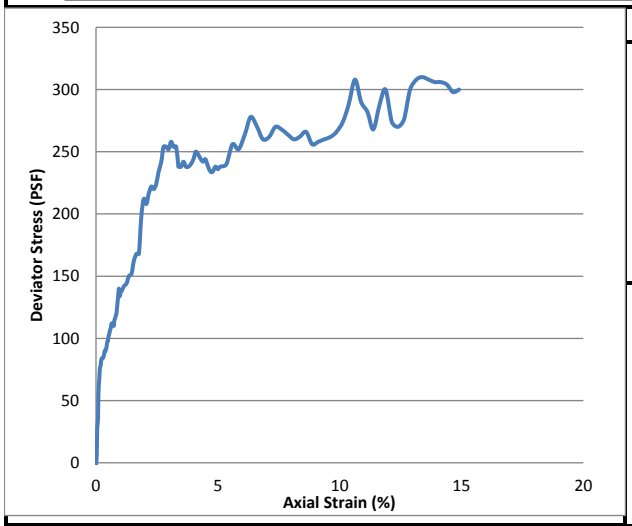


RESULTS	
C, PSF	155
Sample 1 Failure	Slump
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	999.49			
	DRY DENSITY, PCF	5.86			
	WET DENSITY, PCF	64.39			
	SATURATION %	97.20			
	VOID RATIO	27.25			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.96
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.77
				CELL PRESSURE, PSI	0.50
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	310.00
REMARKS				STRAIN, %	13.39
0				ULTIMATE DEVIATOR STRESS, PSF	374.00
				σ_1 FAILURE, PSF	382.00
				σ_3 FAILURE, PSF	72.00

SAMPLE DESCRIPTION	Very soft brown peat with organic clay layer (PT)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	0 - 2		
TESTED BY	TRC//	CHECKED BY	CLP///		

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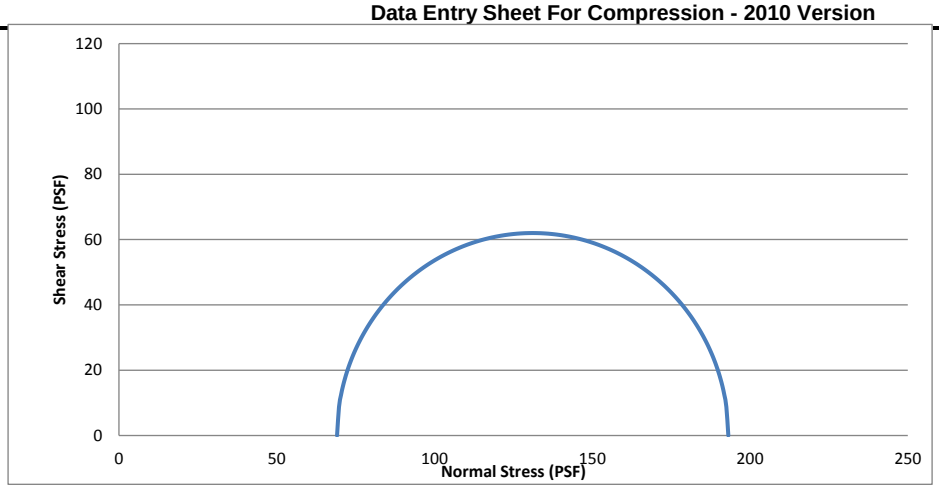
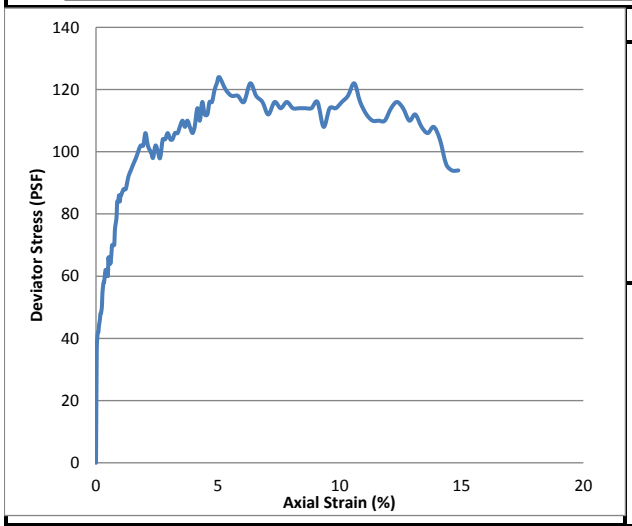


RESULTS	
C, PSF	62
Sample 1 Failure	Slump
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	151.03			
	DRY DENSITY, PCF	32.93			
	WET DENSITY, PCF	82.66			
	SATURATION %	99.46			
	VOID RATIO	4.02			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.90
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80
	164	66	98	CELL PRESSURE, PSI	0.48
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	124.00
REMARKS				STRAIN, %	5.06
0				ULTIMATE DEVIATOR STRESS, PSF	166.00
				σ_1 FAILURE, PSF	193.12
				σ_3 FAILURE, PSF	69.12

SAMPLE DESCRIPTION	Very soft brown and gray organic clay (OH)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	2 - 4		
TESTED BY	TRC//	CHECKED BY	CLP///		

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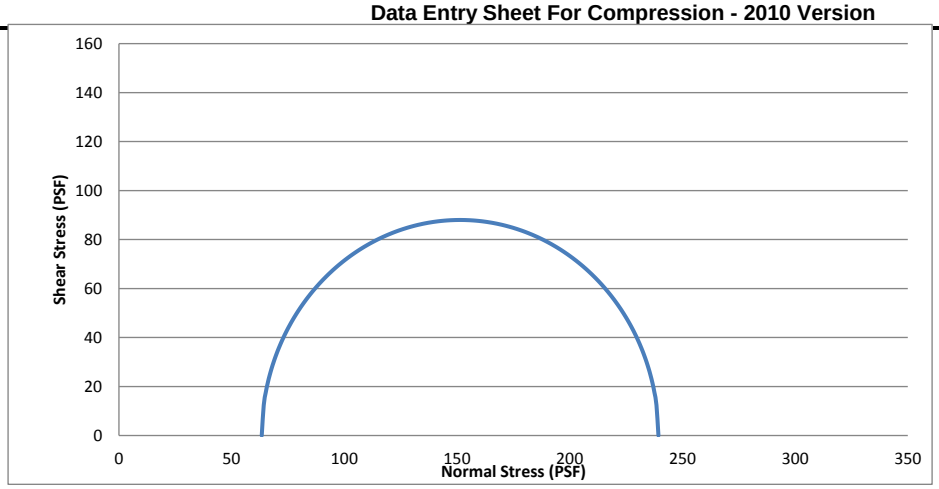
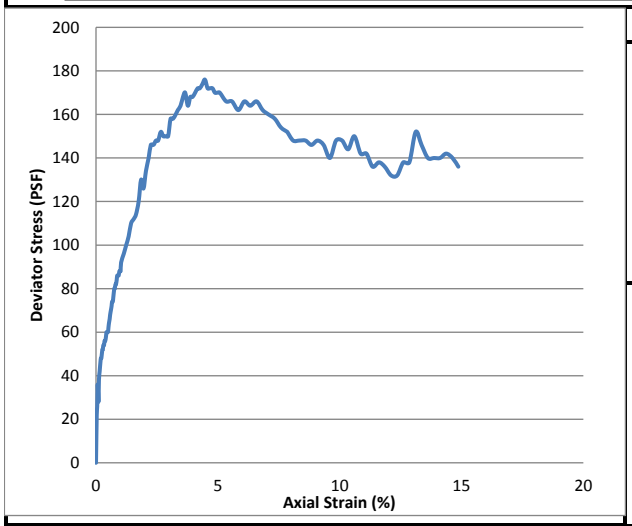


RESULTS	
C, PSF	88
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	302.21			
	DRY DENSITY, PCF	20.07			
	WET DENSITY, PCF	80.71			
	SATURATION %	110.56			
	VOID RATIO	7.24			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.73
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80
	184	57	127	CELL PRESSURE, PSI	0.44
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	176.00
REMARKS				STRAIN, %	4.47
0				ULTIMATE DEVIATOR STRESS, PSF	210.00
				σ_1 FAILURE, PSF	239.36
				σ_3 FAILURE, PSF	63.36

SAMPLE DESCRIPTION	Very soft gray organic clay (OH)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	4 - 6		
TESTED BY	TRC//	CHECKED BY	CLP///		

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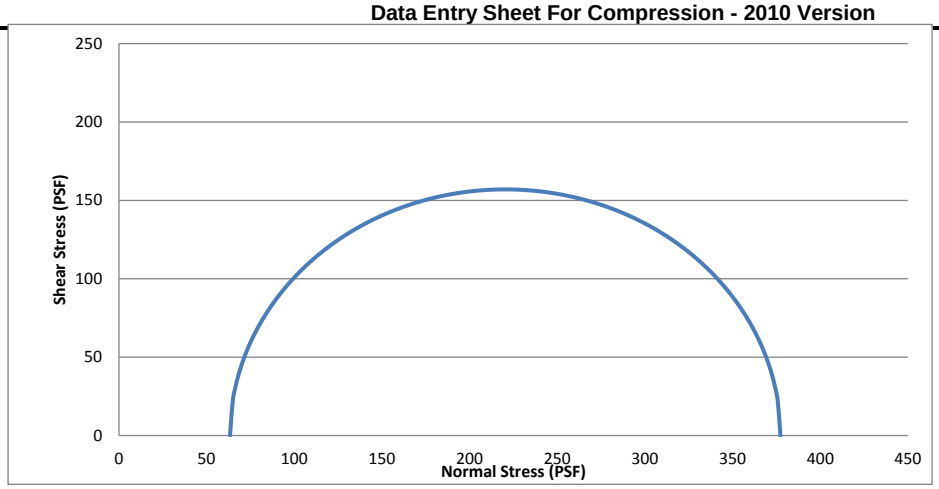
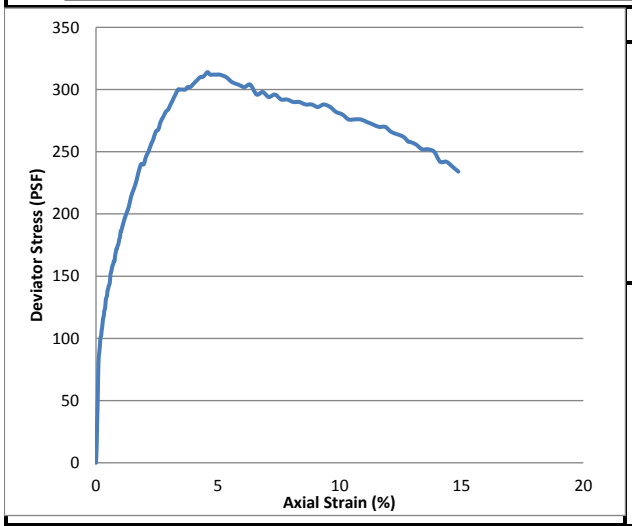


RESULTS	
C, PSF	157
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	185.19			
	DRY DENSITY, PCF	29.38			
	WET DENSITY, PCF	83.79			
	SATURATION %	105.98			
	VOID RATIO	4.63			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.65
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.75
				CELL PRESSURE, PSI	0.44
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	314.00
REMARKS				STRAIN, %	4.58
0				ULTIMATE DEVIATOR STRESS, PSF	308.00
				σ_1 FAILURE, PSF	377.36
				σ_3 FAILURE, PSF	63.36

SAMPLE DESCRIPTION	Very soft gray organic clay (OH)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	6 - 8		
TESTED BY	TRC//	CHECKED BY	CLP///		

11955 Lakeland Park Blvd Suite 100 Baton Rouge, LA 70809 (225)-293-2460

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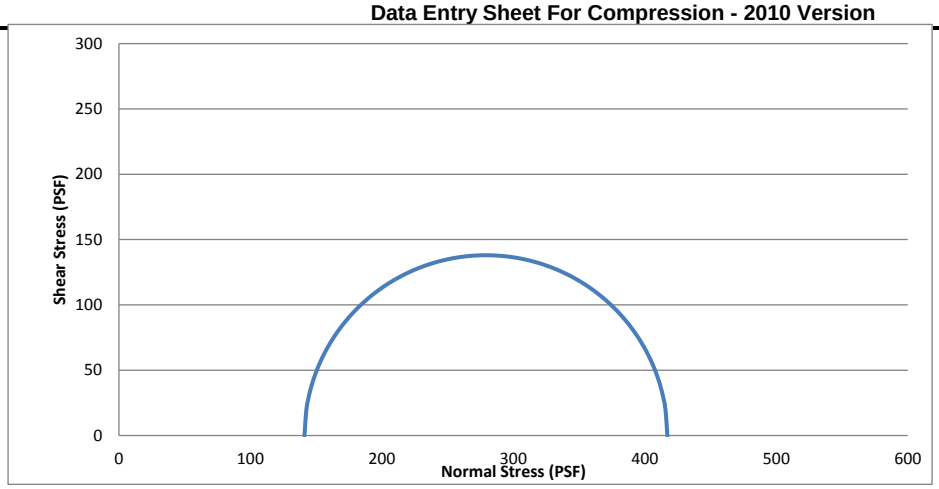
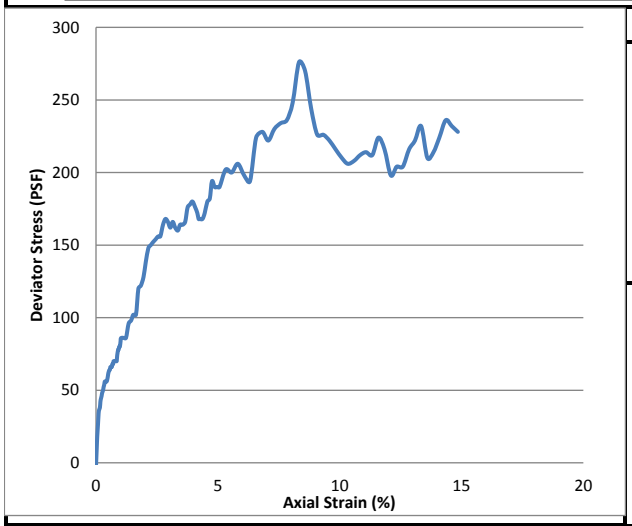
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	138
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	137.74			
	DRY DENSITY, PCF	35.96			
	WET DENSITY, PCF	85.50			
	SATURATION %	101.39			
	VOID RATIO	3.60			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.83
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.80
	136	42	94	CELL PRESSURE, PSI	0.98
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	276.00
REMARKS				STRAIN, %	8.33
0				ULTIMATE DEVIATOR STRESS, PSF	300.00
				σ_1 FAILURE, PSF	417.12
				σ_3 FAILURE, PSF	141.12

SAMPLE DESCRIPTION	Very soft gray clay with organic matter (CH)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/30/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	10 - 12		
TESTED BY	TRC//	CHECKED BY	CLP///		

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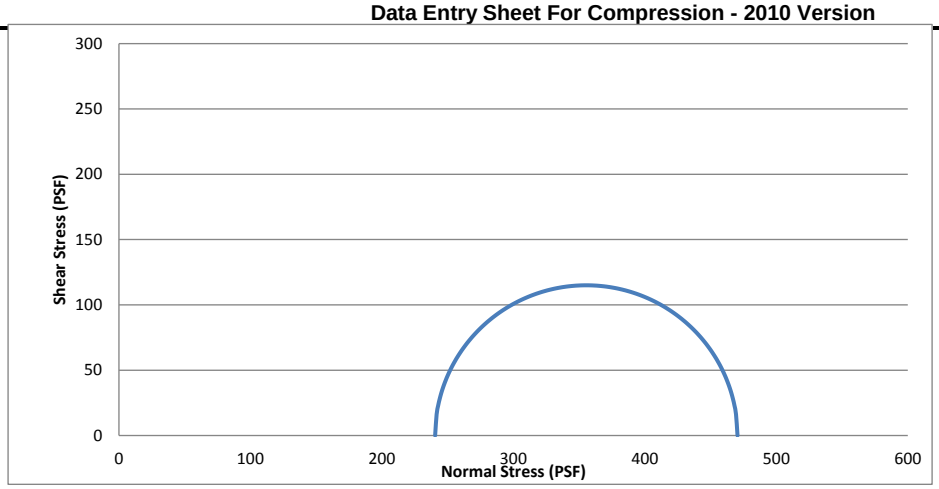
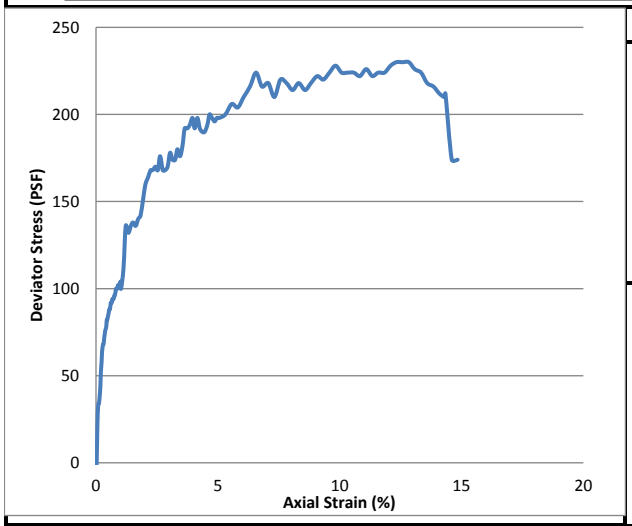
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	115
Sample 1 Failure	Bulge
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	78.90			
	DRY DENSITY, PCF	57.32			
	WET DENSITY, PCF	102.54			
	SATURATION %	110.84			
	VOID RATIO	1.89			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UU			INITIAL HEIGHT, IN	5.75
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.88
	47	26	21	CELL PRESSURE, PSI	1.67
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)	230.00
REMARKS				STRAIN, %	12.33
0				ULTIMATE DEVIATOR STRESS, PSF	246.00
				σ_1 FAILURE, PSF	470.48
				σ_3 FAILURE, PSF	240.48

SAMPLE DESCRIPTION	Very soft gray clay with silt and organic matter (CL)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UU
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/27/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	14 - 16		
TESTED BY	TCJ//	CHECKED BY	CLP///		

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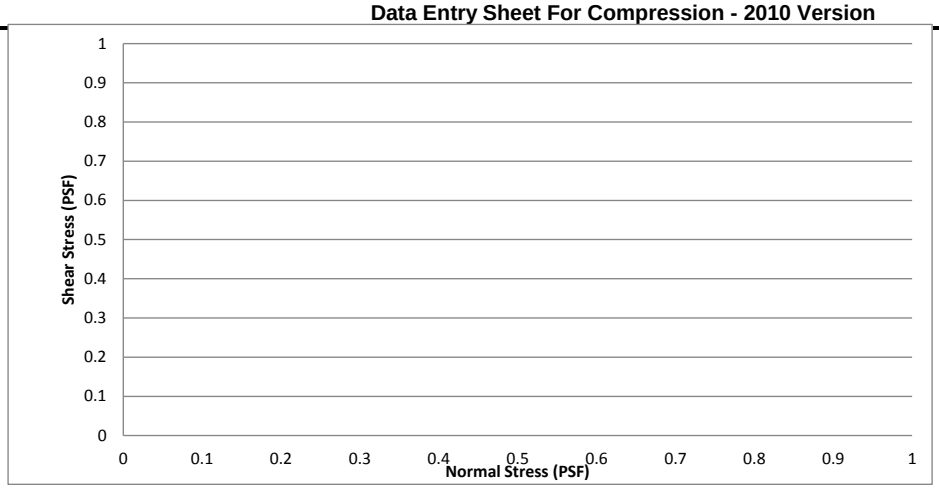
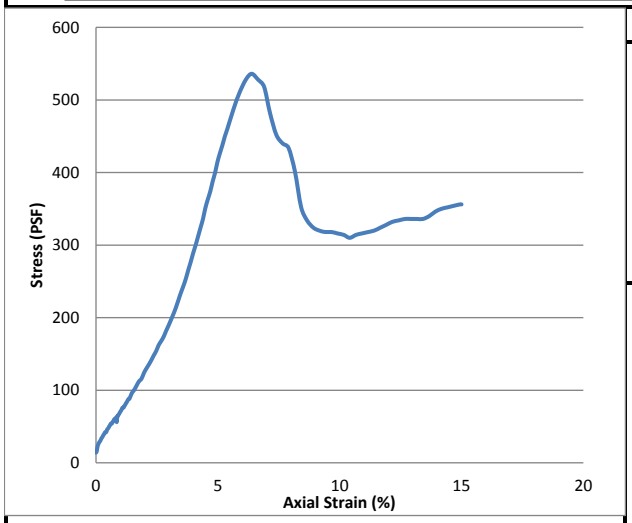
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	268
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



	Specimen No.	1			
INITIAL	WATER CONTENT %	33.52			
	DRY DENSITY, PCF	85.01			
	WET DENSITY, PCF	113.50			
	SATURATION %	93.88			
	VOID RATIO	0.95			
AT TEST	WATER CONTENT %				
	DRY DENSITY, PCF				
	WET DENSITY, PCF				
	SATURATION %				
	VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.65	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.82	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	6.39	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Soft gray very silty clay with 1" silty sand layer (CL)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)		DATED SAMPLED	3/31/2015	
PROJECT NUMBER	16715-040-00	DEPTH FT.	16 - 18		
TESTED BY	TRC//	CHECKED BY	CLP///		

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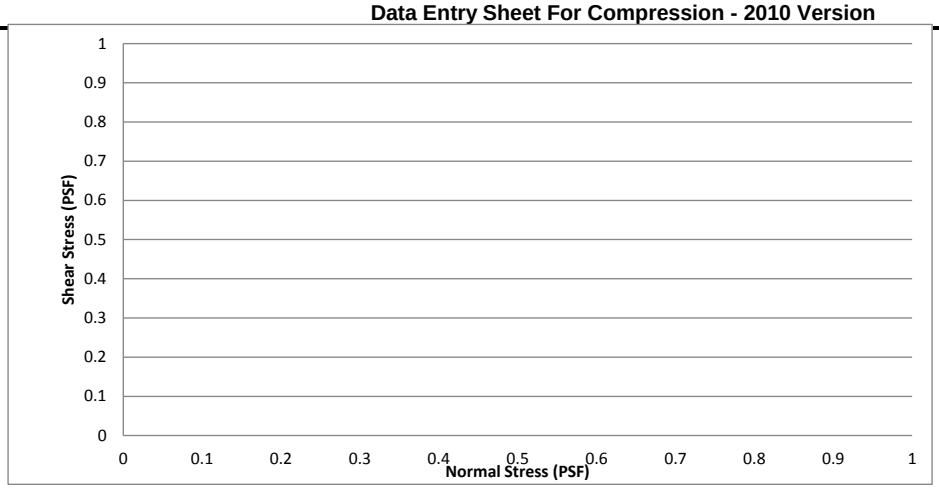
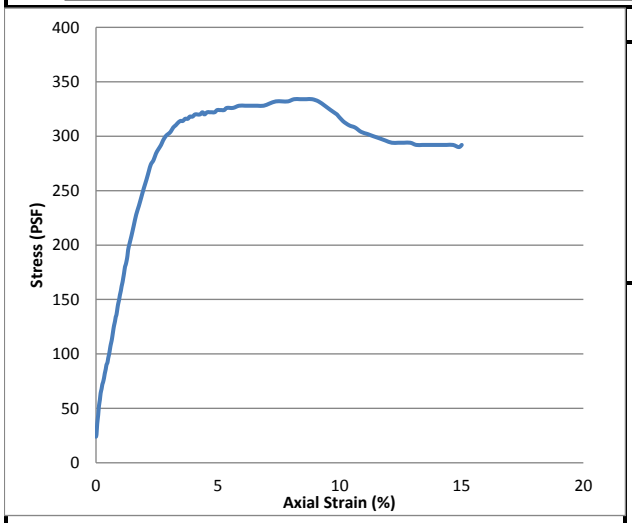
Data Entry Sheet For Compression - 2010 Version



RESULTS	
C, PSF	167
Sample 1 Failure	Multiple Shear
Sample 2 Failure	
Sample 3 Failure	
Sample 4 Failure	



		Specimen No.	1			
INITIAL		WATER CONTENT %	77.45			
		DRY DENSITY, PCF	57.05			
		WET DENSITY, PCF	101.23			
		SATURATION %	108.02			
		VOID RATIO	1.90			
AT TEST		WATER CONTENT %				
		DRY DENSITY, PCF				
		WET DENSITY, PCF				
		SATURATION %				
		VOID RATIO				

TEST TYPE:	UC			INITIAL HEIGHT, IN	5.73	
ATTERBERG LIMIT	LL	PL	PI	INITIAL DIAMETER, IN	2.79	
				CELL PRESSURE, PSI		
ASSUMED SPECIFIC GRAVITY	2.65			MAXIMUM DEVIATOR STRESS, PSF (σ_1 - σ_3)		
REMARKS				STRAIN, %	8.37	
0				ULTIMATE DEVIATOR STRESS, PSF		
				σ_1 FAILURE, PSF		
				σ_3 FAILURE, PSF		

SAMPLE DESCRIPTION	Very soft gray silty clay with silt lenses and silt seams (CL)				
BORING NO.	B-7	SAMPLE NO.	0	TEST TYPE	UC
PROJECT NAME	LDNR-CPRA - Island Road Marsh Creation and Nourishment (TE-117)	DATED SAMPLED	3/31/2015		
PROJECT NUMBER	16715-040-00	DEPTH FT.	18 - 20		
TESTED BY	TRC//	CHECKED BY	CLp///		

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GEOENGINEERS

LABORATORY DATA
Lab Miniature Vane Shear
ASTM D 4648

BORING NUMBER	DEPTH FEET		VANE READING	TORQUE (LB FOOT)	UNDRAINED SHEAR STRENGTH (PSF)	UNDRAINED SHEAR STRENGTH (KSF)
B-1	0.0 -	2.0	55	0.033	124	0.124
B-1	2.0	4.0	54	0.032	122	0.122
B-1	4.0 -	6.0	44	0.026	99	0.099
B-1	8.0	10.0	114	0.068	257	0.257
B-1	10.0	12.0	86	0.051	194	0.194
B-1	12.0	14.0	48	0.029	108	0.108
B-1	14.0	16.0	86	0.051	194	0.194
B-1	16.0	18.0	256	0.153	577	0.577
B-1	18.0	20.0	178	0.106	401	0.401
B-1	23.0	25.0	360	0.215	811	0.811
B-1	28.0	30.0	335	0.200	755	0.755
B-2	0.0	2.0	296	0.177	667	0.667
B-2	2.0	4.0	79	0.047	178	0.178
B-2	4.0	6.0	87	0.052	196	0.196
B-2	6.0	8.0	76	0.045	171	0.171
B-2	8.0	10.0	144	0.086	325	0.325
B-2	10.0	12.0	214	0.128	482	0.482
B-2	14.0	16.0	265	0.158	597	0.597
B-2	16.0	18.0	101	0.060	228	0.228
B-2	18.0	20.0	113	0.068	255	0.255
B-2	23.0	25.0	111	0.066	250	0.250
B-2	28.0	30.0	116	0.069	261	0.261
B-2	33.0	35.0	110	0.066	248	0.248
B-2	38.0	40.0	176	0.105	397	0.397
B-2	43.0	45.0	115	0.069	259	0.259
B-2	48.0	50.0	129	0.077	291	0.291
B-3	0.0	2.0	46	0.027	104	0.104
B-3	2.0	4.0	30	0.018	68	0.068
B-3	4.0	6.0	60	0.036	135	0.135
B-3	6.0	8.0	47	0.028	106	0.106
B-3	8.0	10.0	15	0.009	34	0.034
B-3	10.0	12.0	20	0.012	45	0.045
B-3	12.0	14.0	85	0.051	192	0.192
B-3	14.0	16.0	66	0.039	149	0.149
B-3	16.0	18.0	125	0.075	282	0.282
B-3	18.0	20.0	60	0.036	135	0.135
B-3	23.0	25.0	65	0.039	146	0.146
B-3	28.0	30.0	129	0.077	291	0.291
B-4	0.0	2.0	79	0.047	178	0.178
B-4	2.0	4.0	88	0.053	198	0.198
B-4	4.0	6.0	22	0.013	50	0.050
B-4	6.0	8.0	155	0.093	349	0.349
B-4	8.0	10.0	100	0.060	225	0.225
B-4	10.0	12.0	165	0.099	372	0.372
B-4	12.0	14.0	105	0.063	237	0.237
B-4	14.0	16.0	190	0.114	428	0.428
B-4	16.0	18.0	55	0.033	124	0.124
B-4	18.0	20.0	60	0.036	135	0.135
B-4	23.0	25.0	70	0.042	158	0.158
B-4	28.0	30.0	40	0.024	90	0.090
B-5	0.0	2.0	44	0.026	99	0.099
B-5	2.0	4.0	40	0.024	90	0.090
B-5	4.0	6.0	30	0.018	68	0.068
B-5	6.0	8.0	38	0.023	86	0.086
B-5	8.0	10.0	215	0.128	485	0.485

LABORATORY DATA
Lab Miniature Vane Shear
ASTM D 4648

BORING NUMBER	DEPTH FEET		VANE READING	TORQUE (LB FOOT)	UNDRAINED SHEAR STRENGTH (PSF)	UNDRAINED SHEAR STRENGTH (KSF)
B-5	10.0	12.0	110	0.066	248	0.248
B-5	12.0	14.0	120	0.072	270	0.270
B-5	14.0	16.0	55	0.033	124	0.124
B-5	16.0	18.0	49	0.029	110	0.110
B-5	18.0	20.0	46	0.027	104	0.104
B-6	0.0	2.0	38	0.023	86	0.086
B-6	2.0	4.0	50	0.030	113	0.113
B-6	4.0	6.0	44	0.026	99	0.099
B-6	6.0	8.0	42	0.025	95	0.095
B-6	8.0	10.0	54	0.032	122	0.122
B-6	10.0	12.0	153	0.091	345	0.345
B-6	12.0	14.0	40	0.024	90	0.090
B-6	14.0	16.0	38	0.023	86	0.086
B-6	16.0	18.0	39	0.023	88	0.088
B-6	18.0	20.0	65	0.039	146	0.146
B-6	23.0	25.0	40	0.024	90	0.090
B-6	28.0	30.0	36	0.022	81	0.081
B-7	0.0	2.0	40	0.024	90	0.090
B-7	2.0	4.0	31	0.019	70	0.070
B-7	4.0	6.0	58	0.035	131	0.131
B-7	6.0	8.0	35	0.021	79	0.079
B-7	8.0	10.0	35	0.021	79	0.079
B-7	10.0	12.0	37	0.022	83	0.083
B-7	12.0	14.0	36	0.022	81	0.081
B-7	14.0	16.0	36	0.022	81	0.081
B-7	16.0	18.0	35	0.021	79	0.079
B-7	18.0	20.0	34	0.020	77	0.077

APPENDIX D

Lonnie G. Harper & Associates, Inc. Survey Report

Lonnie G. Harper & Associates, Inc.
CIVIL ENGINEERING AND LAND SURVEYING CONSULTANTS
2697 GRAND CHENIER HIGHWAY • GRAND CHENIER, LOUISIANA • 70643-0229 • PHONE: 337.538.2574 • FAX: 337.538.2596
2746 LOUISIANA HIGHWAY 384 • GRANDLAKE COMMUNITY BRANCH, BELL CITY, LA • 70630-5127 • 337.905.1079 • FAX: 337.905.1076

March 5, 2015

GeoEngineers, Inc.
Attn: Mr. Venu Tammineni, PE
11955 Lakeland Park Blvd
Baton Rouge, LA 70809

Re: TE-117: Island Road Marsh Creation and Nourishment Project
Terrebonne Parish, LA

In accordance with the proposal dated August 20th of 2014, Lonnie G. Harper & Associates, Inc. (LGH) completed all topographical and magnetometer surveys and staking of the Island Road Marsh Creation and Nourishment Project Site.

Survey Control

All surveys are referenced the North American Vertical Datum of 1988 (NAVD 88) and the North American Horizontal Datum of 1983 (NAD 83) CORS2011 Epoch 2010, Geoid 12A. In accordance with *"A Contractor's Guide to Minimum Standards For CPRA Contractors Performing GPS Surveys and Determining GPS Derived Orthometric Heights within the Louisiana Coastal Zone"*, LGH performed one, six and one-half hour static occupation on monument TE10-SM-08 to establish a control point for the survey work being performed. LGH survey crews also obtained multiple real time kinematic (RTK) positions on TE10-SM-08 during the course of the surveying activities for quality control. Static occupation files were then post-processed using Trimble Business Center (TBC) by performing a least square network adjustment between known CORS stations to derive the average horizontal and vertical position of the monument. The static files were also post-processed using the Online Positioning User Service (OPUS) for quality assurance purposes. Lastly a final adjustment was performed on the collected data based on the new position and elevation of the monument, resulting in the positions and elevations depicted in the table included herein. Based on the static occupation of the monument utilized by LGH and RTK positions obtained, the updated position of the TE10-SM-08 monument is given below.

TE10-SM-08
N 334,370.453
E 3,562,994.426
+1.26' NAVD88

It is our understanding that a final position of the control monument has not been established for this project by the design engineer. Once the final horizontal and vertical position of the TE10-SM-08 monument has been determined, LGH can re-evaluate the collected data if necessary and make any required adjustments.

Topographic Survey and Staking

All exploration locations were provided in the form of geographical coordinates with an accuracy of .01 seconds of a degree. LGH used a Trimble RTK base station and receivers to collect all horizontal and vertical positions of the exploration locations based on the TBM position as described previously. LGH traveled to each of the exploration sites via airboat and obtained the horizontal and vertical positions at the mudline of each point. Water depths were also recorded at each of these locations. Each location was staked with a cane pole driven into the water bottom and then tagged with the corresponding point name. The horizontal and vertical positions of each point and water depths at each location as displayed in a table at the end of this report.

Magnetometer Survey

LGH utilized a Geometrics Inc. G882 magnetometer mounted on the front of an airboat to perform the hazard survey at the exploration locations provided by GeoEngineers, Inc. A thirty foot radius surrounding each point was investigated for any magnetic anomalies. After processing the collected data it was determined that some of the locations (B3/C8 and C10) provided by GeoEngineers were located in close proximity to existing underground pipelines. These locations were offset approximately 100' and re-evaluated prior to final staking. It was also noted that position C9 was very close to an existing road embankment and adjacent overhead power lines. In anticipation of having this boring moved away from the embankment, we ran the mag in and cleared an area extending 50' southeast of the current location.

Should any questions arise pertaining the surveying methodology utilized in the data collection process, please do not hesitate to contact our office for further discussion. LGH would like to thank GeoEngineers, Inc. for the opportunity to be a part of this project and we look forward to working with your organization on future endeavors.

Sincerely,
Lonnie G. Harper & Associates, Inc.

Leonard Harper, PE

BORING LOCATIONS

BORING #	NORTHING	EASTING	GROUND ELEV.	WATER DEPTH
B1	332259.47	3562256.72	-3.24	3.0
B2	331452.73	3558616.94	-3.07	2.7
** B3	331120.53	3551798.75	-3.40	3.2
B4	328040.64	3556280.39	-3.17	2.8
B5	324904.31	3552094.25	-2.20	2.0
B6	321387.25	3562016.18	-2.81	2.3

CPT LOCATIONS

BORING #	NORTHING	EASTING	GROUND ELEV.	WATER DEPTH
C1	332259.47	3562256.72	-3.24	3.0
C2	330684.94	3561809.83	-2.53	2.3
C3	329955.55	3560955.87	-2.79	2.6
C4	331452.73	3558616.94	-3.07	2.7
C5	329519.35	3558682.35	-2.21	2.0
C6	330142.99	3556653.35	-2.15	2.0
C7	330480.07	3554274.09	-2.54	2.4
** C8	331120.53	3551798.75	-3.40	3.2
C9	332047.18	3551299.60	-3.24	2.4
** C10	330827.74	3549856.30	-2.96	2.3
C11	329087.74	3550835.66	-1.52	3.0
C12	328733.04	3553669.44	-1.63	1.4
C13	328040.64	3556280.39	-3.17	2.8
C14	324904.31	3552094.25	-2.20	2.0
C15	323120.70	3553000.19	-3.06	2.6
C16	320313.20	3555880.09	-11.31	11.0
C17	322335.09	3558570.79	-2.27	2.0
C18	321387.25	3562016.18	-2.81	2.3

GENERAL NOTES

1. ALL DISTANCES AND ELEVATIONS ARE EXPRESSED IN TERMS OF FEET UNLESS OTHERWISE DENOTED.

2. THIS SURVEY IS REFERENCED TO THE NATIONAL GEODETIC NAD 83 HORIZONTAL DATUM LOUISIANA LAMBERT SOUTH ZONE-1702, ALL COORDINATES ARE EXPRESSED IN FEET, AND WERE DERIVED BY RECENT GPS OBSERVATIONS.

3. THIS SURVEY IS REFERENCED TO THE NATIONAL GEODETIC NAVD 88 VERTICAL DATUM USING GEOID MODEL 12A, ALL ELEVATIONS ARE EXPRESSED IN FEET, AND WERE DERIVED BY RECENT GPS OBSERVATIONS.

4. ALL COORDINATE CONVERSIONS FROM NAD 83 TO WGS84 LAT. & LONG. WERE PERFORMED USING NGS NADCON UTILITY SOFTWARE.

5. NO EASEMENTS OR UNDERGROUND STRUCTURES WERE DETERMINED OR LOCATED DURING THIS SURVEY.

6. THIS SURVEY IS REFERENCED TO LDNR MONUMENT "TE10-SM-08" LOCATED AT THE SOUTHERN END OF HIGHWAY 665. THE ADJUSTED POSITION IS REFERENCED TO CORS2011 EPOCH 2010, GEOID12A AND HAS COORDINATES: N= 334,370.453, E = 3,562,994.426, AND ELEV = 1.26.

** DENOTES LOCATIONS ADJUSTED FROM ORIGINAL PLANNED LOCATIONS BASED ON MAGNETOMETER ANOMALIES FOUND IN FIELD.

NORTH ARROW

REVISION DATE	REVISED BY	DESCRIPTION OF REVISION

LONNIE G. HARPER & ASSOCIATES, INC.
CIVIL ENGINEERING & LAND SURVEYING
2746 HWY. NO. 384, BELL CITY, LOUISIANA 70630
PHONE: (337) 905-1079 FAX: (337) 905-1076

SITE PLANS

GEOENGINEERS

AS - STAKED BORING LOCATIONS IN THE HOUMA AREA

SEAL

STATE OF LOUISIANA
LONNIE G. HARPER
REG. NO. 4326
REGISTERED
02/23/2015
LAND SURVEYOR

LONNIE G. HARPER, P.L.S.
REG. NO. 4326
LONNIE G. HARPER & ASSOC., INC.
GRAND CHENIER, LOUISIANA

AGENCY PROJECT NO. TE-117	LGH PROJECT NO. 2015-10
DRAWN BY A.P.H.	DATE 02/23/2015
DESIGNED BY C.L.W.	HOR. SCALE 1" = 2,000'
APPROVED BY L.G.H.	VERT. SCALE N.A.
JOB NUMBER 02/3143/2015	SHEET 1 OF 1

APPENDIX E
Report Limitations and Guidelines for Use

APPENDIX E
REPORT LIMITATIONS AND GUIDELINES FOR USE

This appendix provides information to help you manage your risks with respect to the use of this report.

Geotechnical Services Are Performed for Specific Purposes, Persons and Projects

This report has been prepared for Louisiana Coastal Protection and Restoration Authority (CPRA) and their authorized agents and regulatory agencies. The information contained herein is not applicable to other sites.

GeoEngineers structures our services to meet the specific needs of our clients. No party other than CPRA, may rely on the product of our services unless we agree to such reliance in advance and in writing. This is to provide our firm with reasonable protection against open-ended liability claims by third parties with whom there would otherwise be no contractual limits to their actions. Within the limitations of scope, schedule and budget, our services have been executed in accordance with our Agreement with the Client and generally accepted geotechnical practices in this area at the time this report was prepared. Use of this report is not recommended for any purpose or project except the one originally contemplated.

A Geotechnical Engineering or Geologic Report Is Based on a Unique Set of Project-Specific Factors

This report has been prepared for the Island Road Marsh Creation and Nourishment (TE-117) project located in Terrebonne Parish, Louisiana. GeoEngineers considered a number of unique, project-specific factors when establishing the scope of services for this project and report. Unless GeoEngineers specifically indicates otherwise, it is important not to rely on this report if it was:

- not prepared for you,
- not prepared for your project,
- not prepared for the specific site explored, or
- completed before important project changes were made.

For example, changes that can affect the applicability of this report include those that affect:

- the function of the proposed structure;
- elevation, configuration, location, orientation or weight of the proposed structure;
- composition of the design team; or
- project ownership.

If important changes are made after the date of this report, we recommend that GeoEngineers be given the opportunity to review our interpretations and recommendations. Based on that review, we can provide written modifications or confirmation, as appropriate.

Subsurface Conditions Can Change

This geotechnical or geologic report is based on conditions that existed at the time the study was performed. The findings and conclusions of this report may be affected by the passage of time, by man-made events such as construction on or adjacent to the site, or by natural events such as floods, earthquakes, slope instability or groundwater fluctuations. If more than a few months have passed since issuance of our report or work product, or if any of the described events may have occurred, please contact GeoEngineers before applying this report for its intended purpose so that we may evaluate whether changed conditions affect the continued reliability or applicability of our conclusions and recommendations.

Most Geotechnical and Geologic Findings Are Professional Opinions

Our interpretations of subsurface conditions are based on field observations from widely spaced sampling locations at the site. Site exploration identifies the specific subsurface conditions only at those points where subsurface tests are conducted or samples are taken. GeoEngineers reviewed field and laboratory data and then applied our professional judgment to render an informed opinion about subsurface conditions throughout the site. Actual subsurface conditions may differ, sometimes significantly, from those indicated in this report. Our report, conclusions and interpretations should not be construed as a warranty of the subsurface conditions.

Geotechnical Engineering Report Recommendations Are Not Final

The construction recommendations included in this report are preliminary and should not be considered final. GeoEngineers' recommendations can be finalized only by observing actual subsurface conditions revealed during construction. GeoEngineers is unable to assume responsibility for the recommendations in this report without performing construction observation.

We recommend that you allow sufficient monitoring, testing and consultation during construction by GeoEngineers to confirm that the conditions encountered are consistent with those indicated by the explorations, to provide recommendations for design changes if the conditions revealed during the work differ from those anticipated, and to evaluate whether earthwork activities are completed in accordance with our recommendations. Retaining GeoEngineers for construction observation for this project is the most effective method of managing the risks associated with unanticipated conditions.

A Geotechnical Engineering or Geologic Report Could Be Subject to Misinterpretation

Misinterpretation of this report by members of the design team or by contractors can result in costly problems. GeoEngineers can help reduce the risks of misinterpretation by conferring with appropriate members of the design team after submitting the report, reviewing pertinent elements of the design team's plans and specifications, participating in pre-bid and preconstruction conferences, and providing construction observation.

Do Not Redraw the Exploration Logs

Geotechnical engineers and geologists prepare final boring and testing logs based upon their interpretation of field logs and laboratory data. The logs included in a geotechnical engineering or geologic report should never be redrawn for inclusion in architectural or other design drawings.

Photographic or electronic reproduction is acceptable, but separating logs from the report can create a risk of misinterpretation.

Give Contractors a Complete Report and Guidance

To help prevent costly problems associated with unanticipated subsurface conditions, we recommend giving contractors the complete geotechnical engineering or geologic report, but preface it with a clearly written letter of transmittal. In that letter, advise contractors that the report's accuracy is limited. In addition, encourage them to confer with GeoEngineers and/or to conduct additional study to obtain the specific types of information they need or prefer.

Contractors Are Responsible for Site Safety on Their Own Construction Projects

Our geotechnical recommendations are not intended to direct the contractor's procedures, methods, schedule or management of the work site. The contractor is solely responsible for job site safety and for managing construction operations to minimize risks to on-site personnel and adjacent properties.

Read These Provisions Closely

It is important to recognize that the geoscience practices (geotechnical engineering, geology and environmental science) are less exact than other engineering and natural science disciplines. Without this understanding, there may be expectations that could lead to disappointments, claims and disputes. GeoEngineers includes these explanatory "limitations" provisions in our reports to help reduce such risks. Please confer with GeoEngineers if you need to know more how these "Report Limitations and Guidelines for Use" apply to your project or site.

Biological Pollutants

GeoEngineers' Scope of Work specifically excludes the investigation, detection, prevention or assessment of the presence of Biological Pollutants. Accordingly, this report does not include any interpretations, recommendations, findings or conclusions regarding the detecting, assessing, preventing or abating of Biological Pollutants, and no conclusions or inferences should be drawn regarding Biological Pollutants as they may relate to this project. The term "Biological Pollutants" includes, but is not limited to, molds, fungi, spores, bacteria and viruses, and/or any of their byproducts.

A Client that desires these specialized services is advised to obtain them from a consultant who offers services in this specialized field.

Have we delivered World Class Client Service?

Please let us know by visiting **www.geoengineers.com/feedback**.

GeoEngineers