Volume I
Geotechnical Investigation Data Report Revision #1

Bayou Bonfouca Marsh Creation Project (PO-104)
St. Tammany Parish, Louisiana

for
State of Louisiana
Coastal Protection and Restoration Authority

August 24, 2012

GeoEngineers
Earth Science + Technology

Volume I
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GeoEngineers

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Geotechnical Investigation Data Report – Revision #1

Bayou Bonfouca Marsh Creation Project (PO-104)
St. Tammany Parish, Louisiana

File No. 16715-023-00

August 24, 2012

Prepared for:

State of Louisiana
Coastal Protection and Restoration Authority
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INTRODUCTION

This report provides geotechnical engineering data for the Bayou Bonfouca Marsh Creation Project (PO-104) and is prepared in accordance with the scope of services presented in the Office of Coastal Protection and Restoration (OCPR) request dated February 2010 (which was sent to GeoEngineers on July 13, 2011), and our proposal dated July 20, 2011. This data report contains a site plan with boring locations, a site plan with Cone Penetration Test (CPT) sounding locations, laboratory test results, and interpreted geotechnical subsurface profiles (boring and CPT sounding logs). All elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88).

PROJECT UNDERSTANDING AND SITE CONDITIONS

The Bayou Bonfouca Marsh Creation Project is located at the Northeastern corner of Lake Pontchartrain in St. Tammany Parish, Louisiana, west of the city of Slidell, Louisiana. The project will create 522 acres of marsh and nourish an additional 42 acres of existing marsh within Big Branch Marsh National Wildlife Refuge by hydraulically pumping soil from the bottom of Lake Pontchartrain into the marsh creation and nourishment areas and planting marsh grass in the newly created marsh.

Fourteen soil borings (B-1 through B-14) were drilled for the project; ten soil borings were in the marsh creation and containment dike area and the remaining four were drilled in the proposed borrow area. Based on information provided by the Louisiana Coastal Protection and Restoration Authority (CPRA, formerly OCPR), Exxon pipelines run in the north-south direction between the Borings B-1 and B-2. Boring B-11 was performed in an abandoned navigational channel in Lake Pontchartrain as shown on Sheet 1 in Appendix I-A. Water depth in the marsh creation area was less than 3 feet (Borings B-1 through B-9). The water depth in the borrow area in Lake Pontchartrain was less than 10 feet (Borings B-10 through B-14).

Details for the field exploration are provided in the section below. The project vicinity and boring locations are shown on Figures 1 and 2. The Appendix B has individual boring logs with detailed description of soil encountered. A summary of boring location details are provided in Table 1.

Table 1 Soil Boring Information

Boring No.	Total Depth (Below Mudline) (feet)	Latitude	Longitude	Sample Spacing (Below Mudline)	
				Continuous (feet)	5-foot Centers (feet)
1	40	N30° 15′ 15.1″	W89° 53′ 5.3″	0-20	20-40
2	40	N30° 15′ 8.4″	W89° 52′ 3.6″	0-20	20-40
3	40	N30° 15′ 32.9″	W89° 51′ 33.5″	0-20	20-40
4	40	N30° 15′ 30.6″	W89° 51′ 12.8″	0-20	20-40
5	60	N30° 15′ 30.4″	W89° 50′ 55.7″	0-20	20-60

Boring No.	Total Depth (Below Mudline) (feet)	Latitude	Longitude	Sample Spacing (Below Mudline)	
				Continuous (feet)	5-foot Centers (feet)
6	60	N30° 14′ 37.9″	W89° 51′ 37.9″	0-20	20-60
7	40	N30° 14′ 50.2″	W89° 51′ 31.9″	0-20	20-40
8	40	N30° 14′ 42.9″	W89° 50′ 59.2″	0-20	20-40
9	60	N30° 14′ 31.7″	W89° 50′ 36.0″	0-20	20-60
10	20	N30° 14′ 13.0″	W89° 52′ 20.0″	0-20	-
11	20	N30° 14′ 10.6″	W89° 51′ 56.1″	0-20	-
12	20	N30° 13′ 52.0″	W89° 52′ 6.0″	0-20	-
13	20	N30° 13′ 39.0″	W89° 52′ 25.0″	0-20	-
14	20	N30° 13′ 31.6″	W89° 52′ 4.5″	0-20	-

Between July 24 and July 26, 2012 twenty-four CPT soundings were conducted in the general vicinity of borings B-3 and B-4. During CPT exploration, water depth ranged from 1 foot to 2.5 feet at the sounding locations. CPT sounding locations are shown in Figure 3. Details of CPT sounding locations are summarized in Table 2.

Table 2 CPT Sounding Information

Sounding Id.	Total Depth (Below Mudline) (feet)	Latitude	Longitude
CPT B-3	29.9	N30° 15' 32.7"	W89° 51' 33.7"
CPT B-4	10.7	N30° 15' 30.7"	W89° 51' 12.4"
CPT 3	11.8	N30° 15' 30.5"	W89° 51' 22.7"
CPT 4	33.5	N30° 15' 31.3"	W89° 51' 27.3"
CPT 5	17.7	N30° 15' 31.7"	W89° 51' 24.6"
CPT 6	17.7	N30° 15' 34.6"	W89° 51' 24.5"
CPT 7	32.7	N30° 15' 34.7"	W89° 51' 29.4"
CPT 8	28.1	N30° 15' 34.7"	W89° 51' 26.2"
CPT 9	23.6	N30° 15' 34.7"	W89° 51' 25.1"
CPT 10	28.6	N30° 15' 36.8"	W89° 51' 24.5"
CPT 11	21.4	N30° 15' 37.5"	W89° 51' 26.7"
CPT 12	22.4	N30° 15' 37.5"	W89° 51' 30.5"
CPT 13	18.6	N30° 15' 40.2"	W89° 51' 30.2"

Sounding Id.	Total Depth (Below Mudline) (feet)	Latitude	Longitude
CPT 14	30.9	N30° 15' 40.3"	W89° 51' 26.1"
CPT 15	32.0	N30° 15' 28.5"	W89° 51' 30.1"
CPT 16	12.5	N30° 15' 28.3"	W89° 51' 26.1"
CPT 17	23.0	N30° 15' 28.6"	W89° 51' 28.2"
CPT 18	26.0	N30° 15' 25.3"	W89° 51' 27.5"
CPT 19	19.3	N30° 15' 25.4"	W89° 51' 24.6"
CPT 20	24.1	N30° 15' 23.4"	W89° 51' 26.7"
CPT 21	16.8	N30° 15' 23.3"	W89° 51' 23.7"
CPT 22	12.4	N30° 15' 29.8"	W89° 51' 26.1"
CPT 23	26.4	N30° 15' 30.2"	W89° 51' 31.3"
CPT 24	20.4	N30° 15' 32.8"	W89° 51' 30.5"

FIELD EXPLORATION

Field exploration was conducted after receiving the Coastal Use Authorization (C.U.P No. P20110891) from the Department of Natural Resources Office of Coastal Management. A magnetometer survey was performed in the general project area and at the proposed boring locations prior to our field investigation to minimize the potential for damaging any existing pipelines. Magnetometer hot spots in the borrow area were avoided by repositioning the borings as required. All boring locations were approved by CPRA.

Soil conditions were evaluated in the project area by advancing fourteen soil borings to a depth varying from 20 to 60 feet below the mudline. All borings were sampled continuously in the upper soil profile to a depth of 20 feet below the mudline and thereafter at 5-foot centers to boring completion depths.

The soil borings were completed between August 30 and September 13, 2011 using a marsh buggy and pontoon barge-mounted drill rig, as required. A field representative from GeoEngineers managed the drilling on a full time basis, examined and classified the soils encountered, obtained representative samples, and prepared a log of each borehole. The approximate soil boring locations are shown in Figure 2.

Borehole sampling was conducted in general accordance with applicable ASTM specifications. High-quality, undisturbed, cohesive, semi-cohesive soil (clayey silt, clayey sand) and granular soil (silty sand, silt) specimens suitable for laboratory strength testing were obtained using a 30-inch-long, 3-inch outside diameter (O.D.), thin-walled steel Shelby tube sampler. The sampler was hydraulically pushed into the ground a distance not exceeding 24 inches per specimen. When a Shelby tube was not able to recover a sample, a split-spoon sampler was driven to collect a

disturbed sample. There were instances during the field exploration where no soil sample was recovered by both the methods mentioned above.

Immediately upon recovery, each sample was classified in the field by our 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 our Baton Rouge laboratory to minimize sample disturbance. Upon completion of sampling, all boreholes were backfilled with cement-bentonite grout in the upper 25 feet. Detailed boring logs are attached in Appendix B.

Upon completion of soil borings B-2 through B-9, the drill rig was repositioned adjacent to each completed boring and a GEONOR H-10 vane borer instrument was used to perform field shear vane tests at various depths in general accordance with ASTM D 2573. The test consisted of placing a four-blade vane at the required depth in the in-situ soil and rotating it from aboard the drill rig to determine the torque required to shear a cylindrical soil surface with the vane. The resulting torque was used to determine the in-situ undrained shear strength.

Laboratory testing was performed on selected soil samples and the results are presented in Appendix C. Settling column test and self weight consolidation tests were conducted on five composite samples that were homogenized from tube samples taken from Borings B-10, through B-14, respectively. Based on the quantity of the samples obtained at each boring, further combination and mixing of the five samples were performed at the Louisiana State University (LSU) geotechnical laboratory, resulting in three composite samples for subsequent testing. The results for the settling column test and self weight consolidation tests are provided in Appendix C.

Soil conditions in marsh creation cell 2, which consists of the open-water and broken-marsh area east of Bayou Liberty and north of Bayou Bonfouca, were further assessed by conducting 24 CPT soundings on the west half of the cell. CPT exploration was authorized by the US Army Corps of Engineers under Category I of the Programmatic General Permit (MVN-2012-1645-EFF). Soil behavior type (SBT) was estimated using a correlation published in 1986 by Robertson and Campanella. Logs of CPT soundings are provided in Appendix I-D.

LIMITATIONS

The information presented in this report is based on the soil borings and soil testing completed for this study, and judgments made by the certifying engineers. This report is specific to this site and should not be used other than for the design of the Bayou Bonfouca Marsh Creation (PO-104) project located in St. Tammany Parish, Louisiana. We have provided the requested information for the geotechnical investigation data report in Volume I. A detailed engineering report and other project related information are provided in Volumes II and III, respectively.

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 express or implied should be understood.

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

FIGURES

GeoEngineers

P:\16\16715023\00\CAD\Vicinity Map.dwg\TAB:Layout1 modified on Oct 31, 2011 - 7:39am

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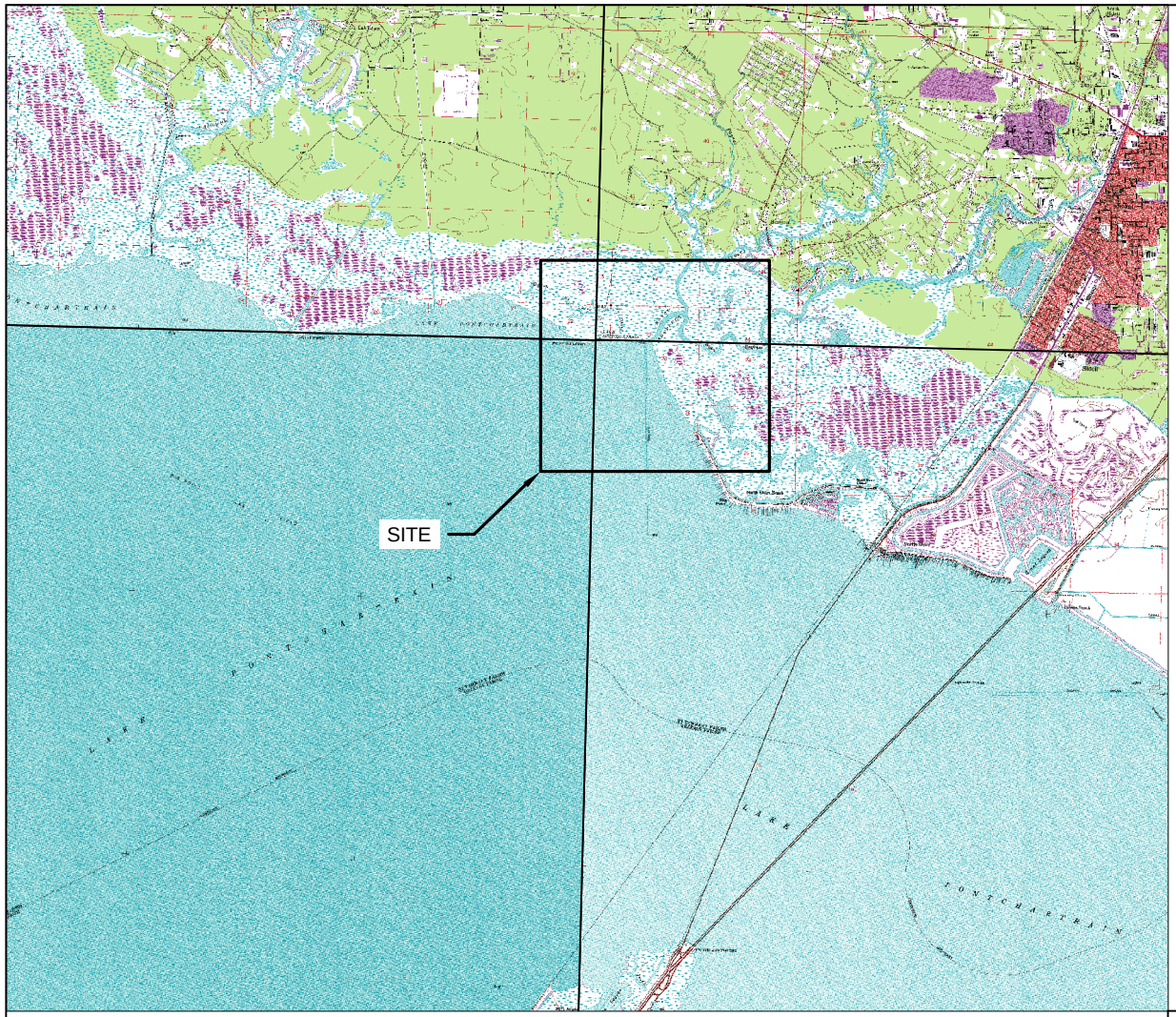

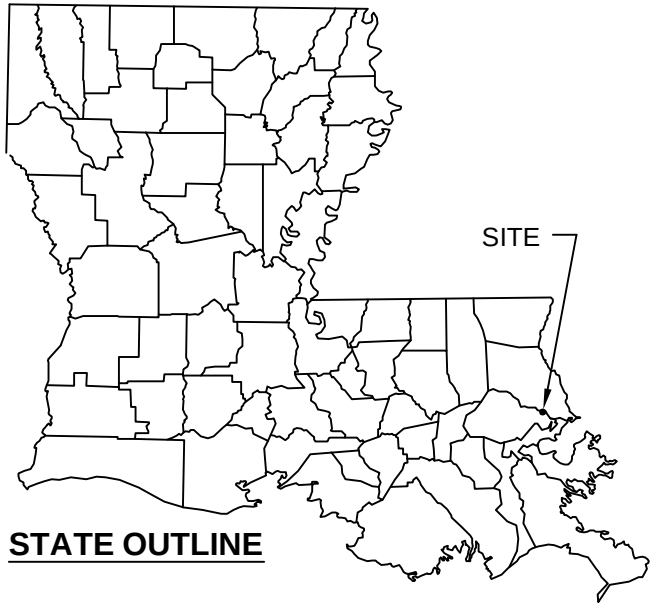

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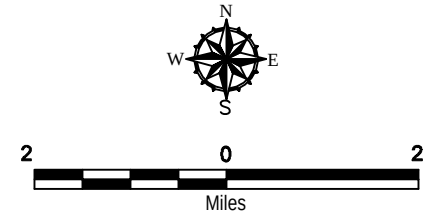


Notes:
1. The locations of all features shown are approximate.
2. This drawing is for information purposes. It is intended to assist in showing features discussed in an attached document. GeoEngineers, Inc. can not guarantee the accuracy and content of electronic files. The master file is stored by GeoEngineers,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

Reference: Topographic map taken from USGS, 24K Template, Quads: North Shore, South Point, Slidell and Lacombe, Dated: 1994

VICINITY MAP

Bayou Bonfouca Marsh Creation Project (PO-104)
St. Tammany Parish, Louisiana

GeoEngineers

Figure 1

P:\16\16715023\00\CAD\Boring Location Plan.dwg\TAB:Layout1 modified on Oct 31, 2011 - 10:19am JMP : KMC

Legend

B-1 Borehole Location

N
W E
S

3000 0 3000
FEET

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.

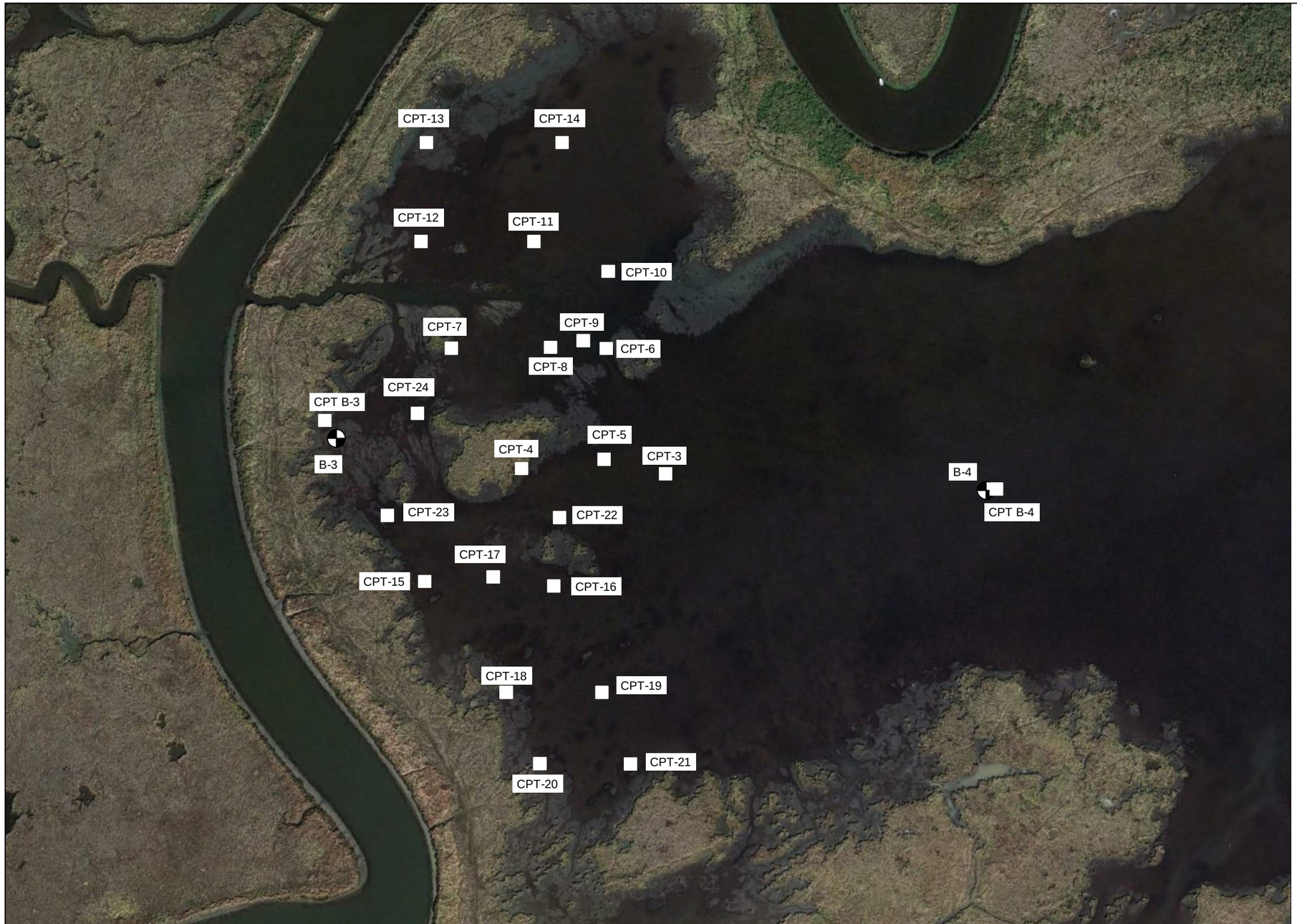
Reference: Aerial image taken form Google Earth Pro, Licensed to GeoEngineers Inc., Dated 3/22/2010

BORING LOCATION PLAN

Bayou Bonfouca Marsh Creation Project (PO-104)
St. Tammany Parish, Louisiana

GeoEngineers

Figure 2



CPT DETAILS		
CPT #	LATITUDE	LONGITUDE
CPT B-3	N 30° 15' 32.7"	W 89° 51' 33.7"
CPT B-4	N 30° 15' 30.7"	W 89° 51' 12.4"
CPT-3	N 30° 15' 30.5"	W 89° 51' 22.7"
CPT-4	N 30° 15' 31.3"	W 89° 51' 27.3"
CPT-5	N 30° 15' 31.7"	W 89° 51' 24.6"
CPT-6	N 30° 15' 34.6"	W 89° 51' 24.5"
CPT-7	N 30° 15' 34.7"	W 89° 51' 29.4"
CPT-8	N 30° 15' 34.7"	W 89° 51' 26.2"
CPT-9	N 30° 15' 34.7"	W 89° 51' 25.1"
CPT-10	N 30° 15' 36.8"	W 89° 51' 24.5"
CPT-11	N 30° 15' 37.5"	W 89° 51' 26.7"
CPT-12	N 30° 15' 37.5"	W 89° 51' 30.5"
CPT-13	N 30° 15' 40.2"	W 89° 51' 30.2"
CPT-14	N 30° 15' 40.3"	W 89° 51' 26.1"
CPT-15	N 30° 15' 28.5"	W 89° 51' 30.1"
CPT-16	N 30° 15' 28.3"	W 89° 51' 26.1"
CPT-17	N 30° 15' 28.6"	W 89° 51' 28.2"
CPT-18	N 30° 15' 25.3"	W 89° 51' 27.5"
CPT-19	N 30° 15' 25.4"	W 89° 51' 24.6"
CPT-20	N 30° 15' 23.4"	W 89° 51' 26.7"
CPT-21	N 30° 15' 23.3"	W 89° 51' 23.7"
CPT-22	N 30° 15' 29.8"	W 89° 51' 26.1"
CPT-23	N 30° 15' 30.2"	W 89° 51' 31.3"
CPT-24	N 30° 15' 32.8"	W 89° 51' 30.5"

Legend

B-1 Existing Borehole Location

CPT-1 CPT Location

N
W E
S

300 0 300
FEET

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: 1. Aerial image taken form Google Earth Pro, Licensed to GeoEngineers Inc., Dated 11/29/2011
2. Pleistocene data was taken from 2011 survey by CPRA and CPT data collected by Geoengineers, Survey provided 10/2011, CPT Data dated 7/24-26/2012

CPT SOUNDING LOCATION PLAN

Bayou Bonfouca Marsh Creation Project (PO-104)
St. Tammany Parish, Louisiana

GeoEngineers

Figure 3

JMP : KMC

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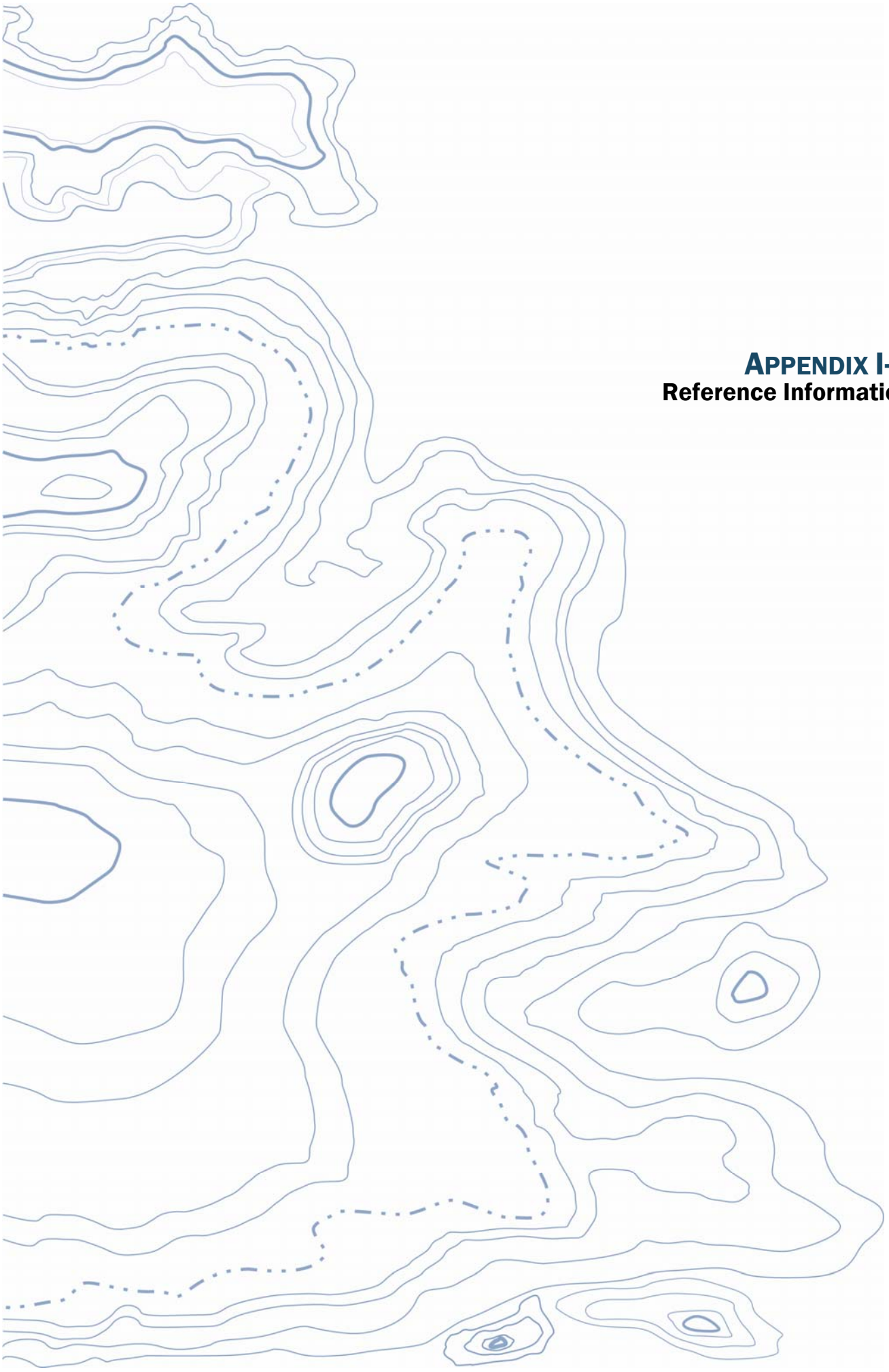
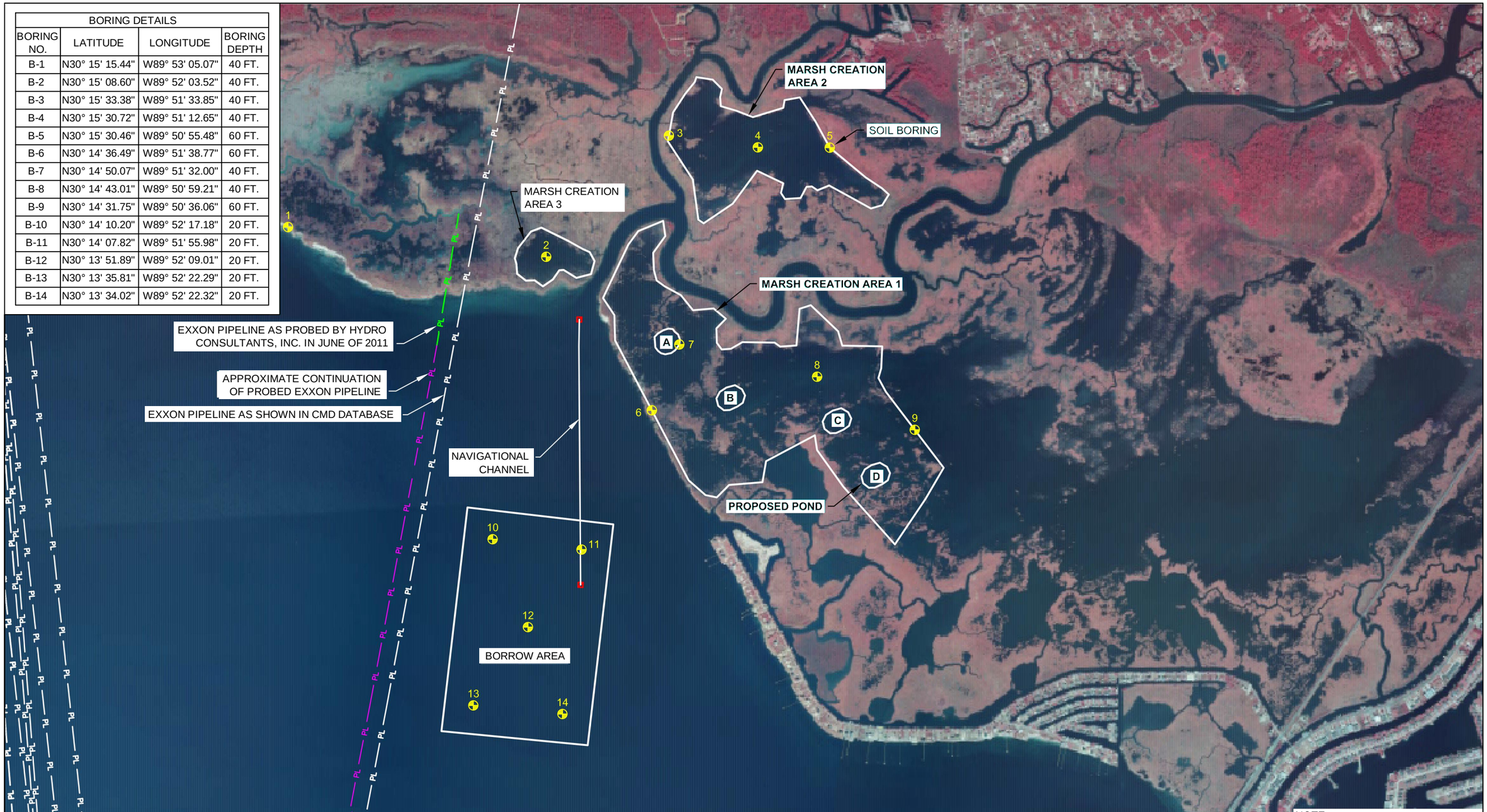
APPENDICES

GeoEngineers



APPENDIX I-A
Reference Information

BORING DETAILS			
BORING NO.	LATITUDE	LONGITUDE	BORING DEPTH
B-1	N30° 15' 15.44"	W89° 53' 05.07"	40 FT.
B-2	N30° 15' 08.60"	W89° 52' 03.52"	40 FT.
B-3	N30° 15' 33.38"	W89° 51' 33.85"	40 FT.
B-4	N30° 15' 30.72"	W89° 51' 12.65"	40 FT.
B-5	N30° 15' 30.46"	W89° 50' 55.48"	60 FT.
B-6	N30° 14' 36.49"	W89° 51' 38.77"	60 FT.
B-7	N30° 14' 50.07"	W89° 51' 32.00"	40 FT.
B-8	N30° 14' 43.01"	W89° 50' 59.21"	40 FT.
B-9	N30° 14' 31.75"	W89° 50' 36.06"	60 FT.
B-10	N30° 14' 10.20"	W89° 52' 17.18"	20 FT.
B-11	N30° 14' 07.82"	W89° 51' 55.98"	20 FT.
B-12	N30° 13' 51.89"	W89° 52' 09.01"	20 FT.
B-13	N30° 13' 35.81"	W89° 52' 22.29"	20 FT.
B-14	N30° 13' 34.02"	W89° 52' 22.32"	20 FT.



Notes:
1. The locations of all features shown are approximate.
Reference: Figure provided by OCPR as part of scope of services for geotechnical investigation & engineering services for the Bayou Bonfouca Marsh Creation Project (PO-104). Original figure titled "Survey Layout", Dated June 2011.

N
W E
S

2000 0 2000
Feet

BORING LOCATION PLAN

BAYOU BONFOUCA MARSH CREATION PROJECT

GEOENGINEERS

Sheet 1

DEPARTMENT OF NATURAL RESOURCES
OFFICE OF COASTAL MANAGEMENT
P.O. BOX 44487
BATON ROUGE, LOUISIANA 70804-4487

(225) 342-7591
1-800-267-4019

COASTAL USE AUTHORIZATION/CONSISTENCY DETERMINATION

C.U.P No.: **P20110891**

NAME : **LOUISIANA OFFICE OF COASTAL PROTECTION AND RESTORATION**
LOUISIANA OFFICE OF COASTAL PROTECTION AND RESTORATION
P.O. BOX 44027
BATON ROUGE, LA 70804

LOCATION: **Saint Tammany Parish, LA**
Approximately six miles southwest of Slidell, Sections 14,15, 22, 23, 24, & 25 T9S-R13E. Near Bayou Bonfouca, centralized point at Lat 30º 14' 36.49"N / Long -89º 51' 38.77"W, for specific locations of each boring see the attached plats.

DESCRIPTION: Proposed project to obtain geotechnical data for the design of the CWPPRA marsh creation project (PO-104). Fourteen (14) borings will occur, boring numbers 1, 2, 4, 5, 7, & 8 are located on the Big Branch Marsh National Wildlife Refuge and will be reviewed by Consistency. Approximately .82 cubic yards of native material will be excavated and filled. No other excavation or fill will be required.

Pursuant to the Louisiana Administrative Code, Title 43, §723.E, you are hereby notified that the referenced activity is authorized by Coastal Use Permit(s) GP - 14. As stated in condition 12.I.D. of GP - 14, Office of Coastal Management may issue approval under the authority of this General Permit with additional Operating Conditions. This authorization is valid, therefore, only if the permittee adheres to the following condition(s):

a. As-built drawings shall be submitted within 30 days of completion of this project to the Louisiana Department of Natural Resources, Office of Coastal Management, PO Box 44487, Baton Rouge, LA 70804-4487.

b. The applicant shall make the minimum number of passes and access the site via the least damaging route, make one trip, and remove the equipment at the other end via the least damaging route.

c. The applicant shall submit the access route and equipment to be used for this proposed project at least ten (10) days prior to the initiation of activities covered under this authorization.

d. Access routes shall be planned to have minimum impact to wetlands. An environmental and safety meeting shall be conducted at project start-up. Supervisors, and subcontractors must understand and relate to field workers what is required to minimize impacts of the equipment. Maximize use of open water, dikes, existing roads and trails, and previously disturbed areas or areas which will be impacted by the project such as spoil disposal areas; minimize crossing of undisturbed marsh. Also, if marsh buggies are to be used, all turns shall be made at a radius large enough to avoid the tracks from locking during turns.

e. Boats, marsh buggies, airboats, or other types of marsh vehicles must be used in such a way as to cause the minimum disturbance or damage to fish, wildlife, vegetation, and the environment.

f.

The proposed project may impact the gulf sturgeon (Acipenser oxyrhynchus desotoi) and its designated critical habitat. The gulf sturgeon is listed as threatened on both the federal and state species list. Major population limiting factors are thought to include barriers to spawning habitats and habitat loss associated with the construction of water control structures, including dams and sills. Other threats identified include modification to habitat associated with dredged material disposal and poor water quality associated with contamination.

g. The requirement for compensatory mitigation for impacts to marsh habitat resulting from proposed project will be determined after one full growing season (March 1 to November 1) following the completion of the permitted activities. This assessment shall include both primary impacts and secondary impacts which may result from the permitted activities.

Permittee shall provide on-ground pre- and post-construction photographic documentation at a scale that clearly shows the entire permitted work area. The pre- and post-construction photos should be taken at the same location to approximate the same scale. The post-construction documentation shall be acquired (photos actually taken) and submitted within 60 days of the end of the first full growing season following completion of the project. Permittee shall notify OCM of the date of completion of permitted activities within 5 working days of completion.

If OCM determines that compensatory mitigation is required, permittee shall submit a compensatory mitigation plan for approval within 30 days of notification of the compensatory mitigation requirements by OCM. All necessary approvals shall be obtained for the compensatory mitigation plan and the plan shall be implemented as directed by OCM. Permittee should be aware that compensatory mitigation projects may be required to be maintained for as many as 20 years for marsh mitigation projects and 50 years for forested wetland mitigation projects. A processing fee will be assessed for the determination of compensatory mitigation requirements and evaluation of the proposed compensatory mitigation plan in accordance with LAC Title 43, Part I, Chapter 7, §724.D. This fee shall apply regardless of which compensatory mitigation option is selected and does not include the cost incurred to implement the required compensatory mitigation.

This determination is valid for two (2) years from the date of this letter. If the proposed activity is not initiated within this two year period, this determination will expire. The applicant will notify the Office of Coastal Management of the date on which initiation of the proposed activity began by entering a commencement date through the online system, or by mailing said information to OCM. Initiation does not include preparatory activities, such as movement of equipment onto the Coastal Use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, Permittee must, in good faith and with due diligence, reasonably progress toward completion of the project once the Coastal Use has been initiated. If the Coastal Use is not initiated within this two (2) year period, an extension may be granted pursuant to the requirements contained in the Rules and Procedures for Coastal Use Permits (Title 43:I.723.D). Please note that a request for permit extension MUST be made no sooner than one hundred eighty (180) days and no later than sixty (60) days prior to the expiration of the permit.

This determination has been made based on the information provided in your application showing that either no dredging or limited dredging would be necessary to access to the work site. Dredging beyond that described in your application, including prop washing, wheel washing, or otherwise displacing water bottom material is not authorized by this determination. If site conditions are such that dredging beyond that authorized is necessary, a revised determination including agency or public notice if applicable, will be required.

This determination has been made on the basis of information provided by your application. If it is later established that you furnished erroneous data, you may be directed to alter or modify your plans, to remove structures you have installed, and/or to restore the work area to pre-project conditions at your own expense. If

it is established that you knowingly furnished erroneous data, you could also be subject to legal action.

This determination does not eliminate the need to obtain a permit from the United States Army, Corps of Engineers or any other Federal, state or local approval that may be required by law. The drawings submitted with your referenced application are attached hereto and made a part of the record. If you have any questions regarding this authorization, please contact our office (225) 342-7591 or (800) 267-4019.

******* End of Determination *******

By accepting this determination the applicant agrees to its terms and conditions.

I affix my signature and issue this determination this 27th day of July, 2011.

DEPARTMENT OF NATURAL RESOURCES

Karl L Morgan

_____

Karl L. Morgan, Acting Administrator
Office of Coastal Management

This agreement becomes binding when signed by the Administrator of
the Office of Coastal Management Permits/Mitigation Division, Department of Natural Resources.

Attachments

Final Plats:

1) P20110891 Final Plats 07/18/2011

cc: Pete Serio, COE w/attachments
Dave Butler, LDWF w/attachments
Peggy Rooney, OCM w/attachments
Tim Killeen, OCM/FI w/attachments
Saint Tammany Parish w/attachments

GP-14 Conditions

In accordance with the rules and regulations of the Louisiana Coastal Resources Program and Louisiana R.S. 49, Sections 214.21 to 214.41, the State and Local Coastal Resources Management Act of 1978, as amended, the permitted agrees to:

1. Carry out, perform, operate and maintain the use in accordance with the permit conditions, plans and specifications approved by the Department of Natural Resources.
2. Comply with any permit conditions imposed by the Department of Natural Resources.
3. Adjust, alter, or remove any structure or other physical evidence of the permitted use if, in the opinion of the Department of Natural Resources, it proves to be beyond the scope of the use as approved or is abandoned.
4. Provide, if required by the Department of Natural Resources, an acceptable surety bond in an appropriate amount to ensure adjustment, alteration, or removal should the Department of Natural Resources determine it necessary.
5. Hold and save the State of Louisiana, the local government, the department, and their officers and employees harmless from any damage to persons or property which might result from the use, including the work, activity, or structure permitted.
6. Certify that the use has been completed in an acceptable and satisfactory manner and in accordance with the plans and specifications approved by the Department of Natural Resources. The Department of Natural Resources may, when appropriate, require such certification to be given by a registered professional engineer.
7. All terms of the permit shall be subject to all applicable federal and state laws and regulations.
8. This permit, or a copy thereof, shall be available for inspection at the site of work at all times during operations.
9. The applicant will notify the Office of Coastal Management of the date on which initiation of the permitted activity described under the "Coastal Use Description" began. The applicant shall notify the Coastal Management Division by mailing the enclosed green initiation card on the date of initiation of the coastal use.
10. Unless specified elsewhere in this permit, this permit authorizes the initiation of the coastal use described under "Coastal Use Description" for two years from the date of the signature of the Secretary or his designee. If the coastal use is not initiated within this two year period, then this permit will expire and the applicant will be required to submit a new application. Initiation of the coastal use, for purposes of this permit, means the actual physical beginning of the use of activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the coastal use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, the permitted must, in good faith and with due diligence, reasonably progress toward completion of the project once the coastal use has been initiated.
11. The following special conditions must also be met in order for the use to meet the guidelines of the Coastal Resources Program:

I. General Conditions

A. The Secretary of DNR has determined that full individual permit processing by OCM is in the public interest in order to determine whether proposed activities qualify for authorization under this General Permit. This full individual permit processing will consist of review by the staff of OCM of each authorization request. Therefore, pursuant to the Rules and Procedures for Coastal Use Permits, Title 43, Subpart 723.C.3.a, of the Louisiana Code of Administrative Procedure, an application fee will be assessed for activities proposed for authorization under the authority of this General Permit and, if appropriate, processing fees and appropriate mitigation plan processing fees will also be assessed for activities approved under the authority of this General Permit.

B. A standard Joint Application Form shall be completed and submitted to OCM along with drawings depicting the location and character of work proposed for approval under the authority of this General Permit. The applicant shall submit a complete application packet (forms and plats) to OCM. The application shall be accompanied by a $100.00 application fee or the application fee in effect at the time of application submittal. This General Permit shall not apply if the proposed work is determined not to meet the criteria. The applicant shall be advised by letter within five (5) calendar days of receipt of the complete application that the application shall be processed as an individual CUP if the determination is made that the proposed activity is not consistent with this General Permit.

C. Individual written approvals from OCM must be obtained prior to the commencement of any individual activity proposed under the authority of this General Permit.

D. Should OCM deem that they may have an interest in the project, prior to issuance of authorization for individual activities under the authority of this General Permit, the following agencies shall have a five (5) calendar day period to review the proposed activity: the Louisiana Departments of Wildlife and Fisheries; Health and Hospitals; Environmental Quality; Culture Recreation and Tourism; Transportation and Development; State Land Office; the Office of Coastal Protection and Restoration and the approved Parish Local Program, if applicable. OCM may issue authorization for the activity after the five-day review period or after receiving notification by each of the agencies, either in writing or by telephone, that there are no objections to the proposed activity. However, the final decision for the issuance of authorization for individual activities under the authority of this General Permit, to issue approval with modifications or additional Operating Conditions, or to deny approval for the proposed work, shall be made by the Secretary of DNR.

E. Should it be deemed in the public interest, the Secretary shall deny authorization to perform work under the authority of this General Permit and require the applicant to obtain an individual CUP for the proposed activity.

F. Authorization for work under the authority of this General Permit shall expire if the work is not initiated and completed within two (2) years from the date of issuance of the original written approval. Initiation of the Coastal Use, for purposes of this General Permit, means the actual physical beginning of the use or activity for which the permit is required. Initiation does not include preparatory activities, such as movement of equipment onto the Coastal Use site, expenditure of funds, contracting out of work, or performing activities which by themselves do not require a permit. In addition, the permittee must, in good faith and with due

diligence, reasonably progress toward completion of the project once the Coastal Use has been initiated. All activities authorized under the authority of this General Permit must be completed within 90 days of initiation of the work, with a one-time mobilization, unless a different time schedule is specifically approved by OCM.

G. The Term of this General Permit shall be five (5) years from the date of issuance, except as provided for in LAC 43 Subpart 723.E.3.b. The term of individual authorizations issued under the authority of this General Permit shall be two years from the date of issuance of the original individual authorization.

H. The permittee shall notify OCM of commencement of work which is authorized under the authority of this General Permit. The permittee shall notify OCM by either providing the information in writing or entering the information through the online system, within three (3) days of the date of initiation of the authorized work.

I. Issuance of approval under the authority of this General Permit does not relieve the applicant of obtaining other lawfully required permits (local, state, or federal) before commencing work.

J. The permittee shall allow representatives of OCM or authorized agents to make periodic, unannounced inspections to assure the activity is being performed in accordance with the conditions of the permit.

K. Work carried out under the authority of this General Permit shall conform to all appropriate state and federal safety regulations.

L. An authorization issued under the authority of this General Permit may not be transferred to another party without giving prior notice to, and receiving written approval from, the OCM Administrator. A transfer form can be downloaded at http://dnr.louisiana.gov/crm/coastmgt/permitsmitigation/permitsmitigation.asp, through the online system or can be provided upon request.

M. Work carried out under the authority of this General Permit shall be performed in full compliance with the rules and regulations of DNR which exist at the time of approval for that work.

II. Operating Conditions

A. All logs and stumps unearthed during dredging shall be buried beneath the bottom of the waterway or removed to a disposal site on land.

B. Spoil shall not be placed in and shall not block any tidal sloughs.

C. The activities covered by this General Permit shall not adversely affect any threatened or endangered species. Adverse impacts on fish, wildlife and the environment shall be minimized.

D. This permit does not convey any property rights, mineral rights, or exclusive privileges; nor does it authorize injury to property.

E. The applicant shall notify the landowner(s), upon whose property the proposed work shall occur, of the fact that the application will be submitted and also provide the results of OCM's review. Copies of the initial notification letters sent to the landowner(s) shall be provided to OCM with the authorization request.

F. If archaeological, historical, or other cultural resources are encountered during activities authorized under the authority of this General Permit, work shall cease and the applicant shall immediately notify the Division of Archaeology, Louisiana Department of Culture, Recreation, and Tourism (P. O. Box 44247, Baton Rouge, LA 70804) and OCM (P. O. Box 44487, Baton Rouge, LA 70804-4487, (225) 342-7591). Work may not resume until written approval is obtained from OCM.

G. The applicant shall insure that all sanitary sewage and/or related domestic wastes generated during the subject project activity and at the site, thereafter, as may become necessary shall receive the equivalent of secondary treatment (30 mg/l BOD5) with disinfection prior to discharge into any of the streams or adjacent waters of the area or, in the case of total containment, shall be disposed of in approved sewerage and sewage treatment facilities, as is required by the State Sanitary Code. Such opinion as may be served by those comments offered herein shall not be construed to suffice as any more formal approval(s) which may be required of possible sanitary details (i.e. provisions) scheduled to be associated with the subject activity. Such shall generally require that appropriate plans and specifications be submitted to the Department of Health and Hospitals for purpose of review and approval prior to any utilization of such provisions.

H. The permittee shall comply with all applicable laws regarding the need to contact the Louisiana One Call System ([800] 272-3020) to locate any buried cables and pipelines.

I. All activities, involving any discharge of pollutants, must be consistent with applicable water quality standards and any necessary permits issued through the Department of Environmental Quality/Office of Water Resources must be obtained.

J. Dredging and/or filling activities authorized under the authority of this General Permit shall not exceed the volume specified in the work statement of the individual authorization.

K. Activities authorized under the authority of this General Permit shall be carried out on a one-time basis, during a one-time mobilization, except in situations where sequential phases (e.g., use of different types of dredging techniques) may be specified in the work statement of the individual authorization. Additional authorizations may be necessary for maintenance activities or work beyond the scope of the authorized activities.

L. When adverse impacts to vegetated wetlands may result from the proposed activity, and/or when otherwise determined necessary by OCM, the applicant and OCM shall negotiate, in consultation with the owner(s) of land on which the permitted activity is proposed to occur, and those other natural resource agencies deemed appropriate by OCM, a compensatory mitigation plan, and the applicant shall implement that plan. That plan shall fulfill the requirements of Louisiana Revised Statute 49:214.41 and those rules and regulations adopted thereunder. The compensatory mitigation plan shall be developed prior to the issuance of approval under the authority of this General Permit. The expiration of the term of this General Permit, or the revocation or expiration of approval to perform work under the authority of this General Permit, shall not absolve the permittee, its transferees, or assignees from the obligation and responsibility of implementing and maintaining

the compensatory mitigation plan.

M. The applicant shall adhere to the following conditions if the project is within the boundaries of a public oyster seed ground:

1) Applicant shall be liable for, and shall compensate the state for, any damages to the oyster seed grounds caused by Applicant or Applicant's contractors during any work done under this permit. Prior to commencement of the permitted activity, Applicant will also provide LDWF with the name of an individual in authority who can be contacted regarding any work done under the permit.

2) Compensation for impacts to the public oyster seed grounds shall be in the form of the planting of cultch material (i.e. crushed concrete, limestone, oyster shell, etc) at the rate of 1 cubic yard per acre of impacted area for barren, non-supportive areas of the seed grounds, 50 cubic yards per acre of impacted area for supportive areas, and 187 cubic yards per acre of impacted area for reef areas plus the value of any living oyster resources destroyed. Applicant shall bear the expense of acquisition and deposition of cultch. The cultch shall be deposited by the Applicant, Applicant's contractor, or sub-contractor, under the direct supervision of LDWF, and shall be deposited at a time, place, and in a manner prescribed by the Department. In lieu of planting cultch material, the Applicant may make payment directly to the Public Oyster Seed Ground Development Account.

3) Applicant shall not discharge any drilling and/or workover effluent except for flocculated filtered water into the waters in the areas of the proposed activity. Discharge rate of water shall not exceed the rate of filtering.

4) Applicant shall not discharge any produced waters into the waters in the areas of proposed activity.

5) Applicant, Applicant's contractors and sub-contractors shall not discharge any human waste from any vessel that does not meet or exceed the requirements of the Department of Health and Hospitals.

6) If access route traverses a currently productive public oyster area, the Applicant shall secure approval of the access route from LDWF and shall ingress and egress to the project location only along the approved route.

7) Applicant shall establish and maintain, until the project is complete, along the access route appropriate access route markings for vessels traveling to and from the project location. These markings may be subject to applicable local, state, and federal navigation requirements. These markings shall be sufficient to be used during day and night operations as well as in any climatic and sea condition which may occur during permitted activities.

8) Applicant shall provide legal representation and indemnification to LDWF for any and all lawsuits and legal claims that may be filed or made against LDWF as a result of the activities by Applicant.

9) This permit specifically does not authorize prop washing, wheel washing, dredging, or jetting beyond what is shown in the application and drawings. Any changes or variances in the location, access route, volume of material moved and/or magnitude of the area of impact shall require formal application to, and prior written authorization from, DNR. The decision by DNR whether to authorize those changes will require consultation by DNR with LDWF in strict adherence to all applicable provisions of the February 3, 2005 Memorandum of Agreement between those two agencies.

10) Applicant shall have at the project location float booms for containing any spills.

11) At the discretion of the Secretary or Deputy Assistant Secretary of the Louisiana Department of Wildlife and Fisheries, any activities may be suspended until more favorable conditions prevail.

12) Applicant shall provide a letter of completion and as-built drawings of the completed project to the Department no later than 60 days following completion of the permitted activity.

13) At the discretion of LDWF, a post-project bottom contour and side-scan survey may be required. The results of these surveys will be made available to the Department, upon request.

14) Applicant shall remove or spread any dredged material which is greater than 0.5 feet above original bottom contours.

15) At the discretion of LDWF, the Applicant may be required to return all or part of water bottoms to pre-project conditions.

16) All vessels utilized under this permit shall be of such size and loaded in such a manner as to not impact the water bottoms over which they pass.

17) Applicant shall provide to the Louisiana Department of Wildlife and Fisheries a water bottom assessment (unless waived by LDWF) that meets LDWF water bottom assessment sampling protocol prior to commencement of permitted activity.

N. If the project authorized under the authority of this General Permit is located on the aboriginal homelands of the Chitimacha Tribe of Louisiana and/or at any time during the course of work any traditional cultural properties are discovered, the permittee shall immediately contact Kimberly S. Walden (Cultural Director) or Melanie Aymond (Research Coordinator) at (337) 923-9923 or (337) 923-4395. Office hours are Monday through Thursday from 7:30 AM - 5:00 PM. and on Friday between 7:30 AM and 11:30 AM. If traditional cultural properties are discovered on the weekend or after business hours, the notification shall be made the next business morning.

III. This General Permit does not apply in the following locations without prior written authorization from the appropriate agencies:

A. Work under the authority of this General Permit shall not be approved in the following areas, without prior written approval of the Louisiana Department of Wildlife and Fisheries (LDWF):

1. Within one-quarter mile of the boundary of or within a currently productive oyster seed ground, oyster seed reservation or public oyster harvesting area; or

2. Within the boundaries of an LDWF-owned or managed wildlife refuge or wildlife management area; or

3. Within 1,500 feet, or other distance deemed appropriate by LDWF, of a known bald eagle nest; or

4. Within 1,500 feet, or other distance deemed appropriate by LDWF, of a known bird rookery area.

B. Work under the authority of this General Permit shall not be approved in the following areas, unless the applicant first provides a letter of no objection from the Louisiana Department of Culture, Recreation, and Tourism.

1. Within a State Park, State Recreation Area or State Commemorative Area; or

2. Within any known historic or archaeological site or within the boundaries of an historical district.

C. Within 1,000 feet of an established navigation channel or fairway constructed, owned, operated, or maintained by federal, state, or local governments, or with federal, state, or local government funds, without written consent of each appropriate agency or governing body. An authorization request that is not accompanied by such written permission shall be processed as an application for an individual CUP. If, however, there is a physical barrier at the project site that isolates the Coastal Use from the navigation channel or fairway and effectively prevents any interchange between the two, this restriction does not apply.

D. Within 1,000 feet of a levee or other flood control facility constructed, owned, operated or maintained by federal, state or local governments, or with federal, state or local government funds, without the written consent of each appropriate agency or governing body.

E. Within 1,500 feet of a barrier island, barrier island features, cheniers or other coastal feature without the approval of the appropriate resource agencies that OCM determines to have programmatic interests.

IV. This General Permit does NOT apply in the following situations:

A. Within the officially designated critical habitat of a threatened or endangered species.

B. Within 1,000 feet of an area determined to be an unique ecological feature by the Secretary of DNR.

C. Within Special Significance Areas designated pursuant to R. S. 49:214.41(F) and those rules and regulations adopted thereunder, where applicable.

D. Within the boundaries of a national park or monument, national wildlife refuge or established buffer zone for any such national site.

V. Special Conditions

A. This General Permit authorizes the following:

1. Construction of a temporary trench for the installation and maintenance of cables, conduit, and/or pipes for water pipelines, with maximum dimensions of five (5) feet deep and six (6) feet in top width;

2. Installation of utility poles within new or existing right-of-way corridors;

3. Clearing of new and existing rights-of-way of an adequate width to permit safe working conditions but not to exceed a total width of 100 feet, new clearing shall be limited to 1500 linear feet;

4. Installation of manholes requiring the excavation of an area 7 feet wide x 16 feet long x 12 feet deep and buried 24 inches below grade;

5. Crossings of manmade and natural waterways by aerial, buried, submerged, and directionally drilled methods.

6. Installation of telecommunication cabinets installed to grade on 40 feet x 50 feet sites on a 14 feet x 20 feet concrete pad or raised on a 20 feet x 20 feet platform using pilings:

7. Drilling geotechnical boreholes, up to six (6) inches in diameter and 300 feet deep, returning spoil to the borehole and filling with concrete as needed. Minimization and avoidance of impacts to vegetated wetlands and other resources due the drilling, placement of equipment and/or spoil and access shall be required. Unavoidable impacts shall require compensatory mitigation.

B. This General Permit does not authorize the construction or installation of permanent roads, parking lots, towers, office buildings or equipment buildings larger than 14 feet X 20 feet.

C. The permittee shall provide OCM with the following information for each individual maintenance operation proposed for authorization under the authority of this General Permit:

1. Plat showing access route(s) to be used;

2. Description of the type of equipment to be utilized;

3. Specific dredging locations, dimensions of area to be dredged, and anticipated date of proposed installation and/or maintenance;

4. Proposed dredging method;

5. Anticipated volume of dredged material; and

6. Specific spoil disposal techniques and locations relative to existing uplands, wetland and open water areas.

D. Spoil may be temporarily stored immediately adjacent to the site of removal but must be used as backfill. The dredged area and spoil storage areas shall be restored to as near pre-project conditions as possible. Pre-project aerial photos of the project area must be taken in order to assess the need for mitigation. Aerial photographs shall be taken in accordance with OCM specifications that will be determined on a case by case basis.

E. Representative drawings showing the areas dredged and the placement of spoil, clearings, and/or buildings shall be submitted within thirty (30) days of completion of individual installation and/or maintenance activities authorized by this permit to the Louisiana Department of Natural Resources, Office of Coastal Management, P. O. Box 44487, Baton Rouge, LA 70804-4487.

OFFICE OF COASTAL PROTECTION & RESTORATION
BAYOU BONFOUCA MARSH CREATION (PO-104)
TOPOGRAPHIC, BATHYMETRIC, AND MAGNETOMETER SURVEY
ST. TAMMANY PARISH, LOUISIANA

SURVEYED BY C&C TECHNOLOGIES INC.
DATUMS
HORIZONTAL: NAD 1983 LA. SOUTH ZONE 1702 FEET
VERICAL: NAVD 88 FEET

DATA FORMAT:
PT#,X,Y,Z,DESCRIPTION

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612-2625,3746154.06,642774.12,0.39,PROP DRILL SITE 3
612-2624,3748016.03,642529.59,-1.51,PROP DRILL SITE 4
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612-2621,3751302.44,636615.12,0.83,PROP BORE SITE 9

OFFICE OF COASTAL PROTECTION & RESTORATION
BAYOU BONFOUCA MARSH CREATION (PO-104)
TOPOGRAPHIC, BATHYMETRIC, AND MAGNETOMETER SURVEY
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DATUMS
HORIZONTAL: NAD 1983 LA. SOUTH ZONE 1702 FEET
VERICAL: NAVD 88 FEET

;MARSH CREATION AREA NO. 1
;0.61' AVG TOP WATER
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612-5189,3747735.02,635484.56,0.60,EDGE MARSH
612-5187,3747731.80,635484.61,-0.05,WB 0.66' WATER
612-5186,3747712.21,635483.19,-0.43,WB 1.04' WATER
612-5185,3747688.37,635480.71,-0.44,WB 1.05' WATER
612-5184,3747663.42,635481.83,0.03,WB 0.58' WATER
612-5183,3747655.46,635479.36,0.17,WB 0.44' WATER
612-5181,3747653.55,635479.37,0.59,EDGE MARSH
612-5180,3747638.17,635477.80,0.79,MB
612-5179,3747613.04,635476.31,0.57,MB
612-5178,3747589.37,635474.35,0.59,MB
612-5177,3747563.78,635469.79,0.49,MB
612-5176,3747551.99,635466.75,0.53,EDGE MARSH
612-5174,3747548.51,635468.25,0.14,WB 0.47' WATER
612-5173,3747540.14,635468.90,-0.07,WB 0.68' WATER
612-5171,3747538.97,635469.26,0.57,EDGE MARSH
612-5170,3747513.74,635468.26,0.60,MB
612-5169,3747489.01,635465.11,0.78,MB
612-5168,3747463.47,635462.77,0.75,MB
612-5167,3747439.29,635460.84,0.82,MB
612-5166,3747412.42,635459.08,0.60,MB
612-5165,3747396.14,635442.70,0.71,MB
612-5164,3747379.08,635425.22,0.81,MB
612-5163,3747360.66,635407.35,0.59,MB
612-5162,3747342.96,635389.63,0.76,MB
612-5161,3747325.67,635370.54,0.72,MB
612-5160,3747308.25,635352.44,0.74,MB
612-5159,3747299.44,635338.51,0.56,EDGE MARSH
612-5157,3747298.26,635337.55,-0.93,WB 1.54' WATER
612-5156,3747291.63,635334.66,-2.97,WB 3.58' WATER
612-5155,3747286.61,635330.14,-0.01,WB 0.62' WATER
612-5153,3747285.15,635328.18,0.78,EDGE MARSH
612-5152,3747272.81,635316.93,0.63,MB
612-5151,3747257.05,635298.27,0.26,MB
612-5150,3747250.06,635291.95,0.44,EDGE MARSH
612-5148,3747249.34,635290.44,0.13,WB 0.48' WATER
612-5147,3747240.83,635282.19,0.20,WB 0.41' WATER
612-5145,3747239.71,635280.14,0.35,EDGE MARSH
612-5144,3747223.25,635262.77,0.56,MB

612-5143,3747203.57,635244.88,0.57,MB
612-5142,3747186.89,635226.76,0.54,MB
612-5141,3747182.27,635224.48,0.56,EDGE MARSH
612-5139,3747181.39,635223.89,0.25,WB 0.36' WATER
612-5138,3747167.97,635210.45,-0.10,WB 0.71' WATER
612-5137,3747162.15,635204.99,0.03,WB 0.58' WATER
612-5135,3747160.41,635203.50,0.35,EDGE MARSH
612-5134,3747156.62,635199.30,0.38,MB
612-5133,3747148.55,635200.73,0.58,MB
612-5132,3747123.32,635205.64,0.53,MB
612-5131,3747098.82,635209.11,0.61,MB
612-5130,3747074.11,635213.70,0.86,MB
612-5129,3747050.98,635220.25,0.60,MB
612-5128,3747025.38,635224.73,0.52,MB
612-5127,3747000.98,635229.24,0.49,MB
612-5126,3746977.70,635234.40,0.26,MB
612-5125,3746956.10,635239.92,0.29,EDGE MARSH
612-5123,3746951.71,635241.22,-0.26,WB 0.87' WATER
612-5122,3746926.17,635242.85,-0.25,WB 0.86' WATER
612-5121,3746920.06,635244.76,0.19,WB 0.42' WATER
612-5119,3746919.32,635246.07,0.34,EDGE MARSH
612-5118,3746905.58,635256.72,0.56,MB
612-5117,3746894.49,635266.84,0.36,EDGE MARSH
612-5115,3746893.46,635268.20,0.21,WB 0.40' WATER
612-5114,3746886.79,635272.87,0.27,WB 0.34' WATER
612-5113,3746869.85,635289.86,-0.04,WB 0.65' WATER
612-5112,3746849.91,635305.85,-0.31,WB 0.92' WATER
612-5111,3746832.06,635319.19,-0.29,WB 0.90' WATER
612-5110,3746817.17,635340.30,-0.18,WB 0.79' WATER
612-5108,3746813.38,635340.87,0.35,EDGE MARSH
612-5107,3746794.41,635356.25,0.32,MB
612-5106,3746772.90,635370.50,0.47,MB
612-5105,3746759.98,635386.23,0.35,EDGE MARSH
612-5103,3746757.28,635389.90,-0.20,WB 0.81' WATER
612-5102,3746738.89,635404.98,-0.34,WB 0.95' WATER
612-5101,3746718.70,635419.17,0.19,WB 0.42' WATER
612-5099,3746717.17,635421.48,0.44,EDGE MARSH
612-5098,3746699.99,635440.43,0.11,MB
612-5097,3746678.03,635457.78,0.40,EDGE MARSH
612-5095,3746676.71,635460.25,0.14,WB 0.47' WATER
612-5094,3746663.35,635471.61,-0.47,WB 1.08' WATER
612-5093,3746659.65,635472.58,-0.15,WB 0.76' WATER
612-5091,3746658.78,635473.66,0.56,EDGE MARSH
612-5090,3746644.91,635487.54,0.33,MB
612-5089,3746625.21,635506.01,0.38,MB
612-5088,3746607.02,635520.08,0.79,MB
612-5087,3746585.96,635536.36,0.21,MB
612-5086,3746579.77,635541.08,0.64,EDGE MARSH
612-5084,3746578.33,635543.53,0.02,WB 0.59' WATER
612-5083,3746568.05,635555.30,0.17,WB 0.44' WATER
612-5081,3746565.78,635557.71,0.80,EDGE MARSH
612-5080,3746562.82,635563.77,0.42,EDGE MARSH
612-5078,3746562.79,635565.90,0.23,WB 0.38' WATER
612-5077,3746557.71,635576.05,0.23,WB 0.38' WATER
612-5075,3746547.15,635592.40,-0.16,WB 0.77' WATER
612-5073,3746546.03,635594.29,0.49,EDGE MARSH
612-5072,3746544.47,635598.35,0.52,MB
612-5071,3746532.98,635620.31,0.71,MB
612-5070,3746521.83,635641.78,0.76,MB
612-5069,3746509.19,635664.23,0.90,MB
612-5068,3746497.81,635687.81,0.76,MB
612-5067,3746486.10,635709.10,0.86,MB
612-5066,3746475.24,635730.84,0.86,MB

612-5065,3746464.21,635753.47,0.85,MB
612-5064,3746452.18,635775.37,0.73,MB
612-5063,3746440.30,635797.64,0.60,MB
612-5062,3746428.98,635820.14,0.79,MB
612-5061,3746417.06,635841.72,0.84,MB
612-5060,3746405.11,635863.64,0.73,MB
612-5059,3746393.19,635884.92,0.71,MB
612-5058,3746382.04,635907.44,0.86,MB
612-5057,3746370.11,635929.75,1.00,MB
612-5056,3746358.94,635952.46,0.67,MB
612-5055,3746347.11,635974.71,0.75,MB
612-5054,3746335.15,635995.96,1.08,MB
612-5053,3746323.90,636019.44,0.85,MB
612-5052,3746312.36,636040.99,0.66,MB
612-5051,3746301.06,636063.80,0.87,MB
612-5050,3746289.58,636085.05,1.01,MB
612-5049,3746276.79,636107.56,0.99,MB
612-5048,3746265.59,636129.64,0.76,MB
612-5047,3746253.71,636151.45,0.52,MB
612-5046,3746242.04,636173.28,0.67,MB
612-5045,3746230.74,636195.55,0.47,MB
612-5044,3746218.93,636217.72,0.67,MB
612-5043,3746207.62,636239.30,0.47,MB
612-5042,3746196.12,636261.76,1.05,MB
612-5041,3746183.49,636283.85,1.90,MB
612-5040,3746171.66,636306.68,0.71,MB
612-5039,3746160.84,636329.27,1.03,MB
612-5038,3746149.16,636350.18,0.68,MB
612-5037,3746139.04,636372.33,1.48,MB
612-5036,3746126.92,636395.12,0.70,MB
612-5035,3746115.15,636417.59,0.78,MB
612-5034,3746103.58,636438.57,0.73,MB
612-5033,3746092.72,636461.67,0.54,MB
612-5032,3746079.81,636485.99,0.86,MB
612-5031,3746068.40,636505.61,0.83,MB
612-5030,3746058.70,636527.84,0.86,MB
612-5029,3746045.56,636549.11,0.64,MB
612-5028,3746035.01,636564.46,0.72,EDGE MARSH
612-5026,3746034.29,636565.63,0.19,WB 0.42' WATER
612-5025,3746032.90,636572.77,0.07,WB 0.54' WATER
612-5024,3746021.74,636593.21,0.08,WB 0.53' WATER
612-5023,3746021.06,636596.86,0.20,WB 0.41' WATER
612-5021,3746020.75,636598.56,0.78,EDGE MARSH
612-5020,3746010.88,636615.99,0.53,MB
612-5019,3745998.46,636639.23,0.77,MB
612-5018,3745986.81,636660.20,0.34,MB
612-5017,3745980.41,636673.35,0.71,EDGE MARSH
612-5015,3745979.43,636674.07,0.21,WB 0.40' WATER
612-5014,3745972.66,636682.51,-0.14,WB 0.75' WATER
612-5013,3745970.43,636692.36,0.01,WB 0.60' WATER
612-5011,3745968.84,636693.56,0.61,EDGE MARSH
612-5010,3745961.98,636704.33,0.67,MB
612-5009,3745951.25,636726.56,0.55,MB
612-5008,3745939.86,636749.21,0.89,MB
612-5007,3745930.21,636769.43,0.82,EDGE MARSH
612-5005,3745929.62,636771.25,0.10,WB 0.51' WATER
612-5004,3745916.58,636791.76,0.06,WB 0.55' WATER
612-5002,3745916.36,636793.62,0.68,EDGE MARSH
612-5001,3745904.76,636814.63,1.23,MB
612-5000,3745893.64,636837.50,0.81,MB
612-4999,3745880.66,636859.52,0.79,MB
612-4998,3745869.95,636881.92,0.86,MB
612-4997,3745857.68,636904.06,0.91,MB

612-4996,3745846.73,636926.09,0.71,MB
612-4995,3745834.31,636948.24,0.74,MB
612-4994,3745824.00,636970.22,0.79,MB
612-4993,3745811.72,636992.33,0.94,MB
612-4992,3745799.43,637014.84,0.97,MB
612-4991,3745788.99,637036.53,0.89,MB
612-4990,3745777.49,637059.11,0.84,MB
612-4989,3745765.56,637080.04,0.91,MB
612-4988,3745755.06,637103.24,0.90,MB
612-4987,3745742.01,637125.46,0.71,MB
612-4986,3745730.50,637146.69,0.50,MB
612-4985,3745719.55,637169.15,1.53,MB
612-4984,3745717.03,637171.89,1.06,EDGE MARSH
612-4982,3745716.60,637173.73,-0.53,WB 1.14' WATER
612-4981,3745712.93,637180.36,-0.47,WB 1.08' WATER
612-4979,3745711.63,637182.56,0.71,MB
612-4978,3745707.71,637191.19,1.67,MB
612-4977,3745695.10,637213.71,1.28,MB
612-4976,3745683.42,637236.14,0.40,MB
612-4975,3745672.24,637258.13,0.02,MB
612-4974,3745661.12,637279.59,0.49,MB
612-4973,3745648.40,637301.67,0.91,MB
612-4972,3745638.57,637322.79,0.98,EDGE MARSH
612-4970,3745637.07,637325.50,0.30,WB 0.31' WATER
612-4969,3745626.90,637346.29,-0.02,WB 0.63' WATER
612-4968,3745614.68,637370.61,-0.21,WB 0.82' WATER
612-4967,3745604.63,637390.50,-0.19,WB 0.80' WATER
612-4966,3745591.67,637414.20,-0.14,WB 0.75' WATER
612-4965,3745580.29,637436.12,-0.11,WB 0.72' WATER
612-4964,3745567.76,637456.84,-0.02,WB 0.63' WATER
612-4963,3745557.64,637477.96,-0.08,WB 0.69' WATER
612-4962,3745546.35,637501.50,0.05,WB 0.56' WATER
612-4961,3745533.63,637523.02,0.17,WB 0.44' WATER
612-4960,3745522.74,637545.42,0.29,WB 0.32' WATER
612-4959,3745510.33,637568.42,0.09,WB 0.52' WATER
612-4958,3745498.15,637590.96,-0.20,WB 0.81' WATER
612-4957,3745487.48,637611.87,-1.70,WB 2.31' WATER
612-4956,3745474.19,637633.44,-0.24,WB 0.85' WATER
612-4955,3745464.78,637654.89,0.21,WB 0.40' WATER
612-4953,3745463.91,637655.76,0.70,EDGE MARSH
612-4952,3745462.57,637656.28,0.74,MB
612-4951,3745458.16,637664.59,0.59,EDGE MARSH
612-4949,3745457.19,637668.83,0.29,WB 0.32' WATER
612-4948,3745452.37,637678.20,0.38,WB 0.23' WATER
612-4946,3745448.52,637683.86,1.08,EDGE MARSH
612-4945,3745438.69,637700.23,0.64,MB
612-4944,3745429.84,637718.27,0.70,EDGE MARSH
612-4942,3745428.11,637722.87,0.12,WB 0.49' WATER
612-4941,3745416.98,637744.54,-0.67,WB 1.28' WATER
612-4940,3745403.97,637767.19,0.01,WB 0.60' WATER
612-4939,3745393.24,637790.90,0.01,WB 0.60' WATER
612-4938,3745382.62,637811.16,0.11,WB 0.50' WATER
612-4937,3745375.79,637819.85,0.35,WB 0.26' WATER
612-4935,3745374.69,637823.87,1.18,EDGE MARSH
612-4934,3745369.43,637833.56,1.17,MB
612-4933,3745358.26,637854.94,0.94,MB
612-4932,3745347.49,637877.64,1.68,MB
612-4931,3745335.38,637899.78,1.44,MB
612-4930,3745323.83,637921.48,1.69,MB
612-4929,3745312.09,637943.51,0.81,MB
612-4928,3745305.86,637956.17,0.52,EDGE MARSH
612-4926,3745305.45,637958.70,0.00,WB 0.61' WATER
612-4925,3745302.31,637963.98,-0.37,WB 0.98' WATER

612-4923,3745300.21,637965.76,0.73,EDGE MARSH
612-4922,3745289.11,637987.87,0.44,MB
612-4921,3745275.97,638010.43,0.66,MB
612-4920,3745265.05,638032.76,1.00,MB
612-4919,3745253.77,638054.80,0.28,MB
612-4918,3745244.92,638070.15,0.49,EDGE MARSH
612-4916,3745244.29,638071.93,0.11,WB 0.50' WATER
612-4915,3745242.92,638077.79,0.12,WB 0.49' WATER
612-4914,3745230.54,638100.21,0.26,WB 0.35' WATER
612-4913,3745219.29,638118.73,-0.34,WB 0.95' WATER
612-4911,3745218.46,638120.37,0.86,EDGE MARSH
612-4910,3745206.78,638143.14,0.61,MB
612-4909,3745196.07,638165.01,0.71,MB
612-4908,3745184.49,638188.06,0.61,MB
612-4907,3745172.41,638209.77,0.69,MB
612-4906,3745161.08,638230.96,0.82,MB
612-4905,3745148.79,638253.33,1.41,MB
612-4904,3745146.56,638257.09,0.83,EDGE MARSH
612-4902,3745144.24,638264.62,0.39,WB 0.22' WATER
612-4901,3745137.55,638275.69,0.33,WB 0.28' WATER
612-4900,3745125.54,638297.82,0.17,WB 0.44' WATER
612-4899,3745115.80,638315.29,0.49,WB 0.12' WATER
612-4897,3745113.06,638320.14,1.08,EDGE MARSH
612-4896,3745102.18,638341.39,0.95,MB
612-4895,3745090.91,638364.60,0.67,MB
612-4894,3745080.76,638385.73,-0.66,MB
612-4893,3745068.19,638408.27,1.74,MB
612-4892,3745056.35,638431.43,0.76,MB
612-4891,3745043.88,638451.94,0.49,MB
612-4890,3745032.59,638474.46,0.46,MB
612-4889,3745026.56,638486.78,0.83,MB
612-4888,3745022.89,638496.81,0.70,EDGE MARSH
612-4886,3745024.05,638498.81,-0.02,WB 0.63' WATER
612-4885,3745025.61,638522.30,-0.47,WB 1.08' WATER
612-4884,3745025.04,638535.95,-0.20,WB 0.81' WATER
612-4882,3745024.90,638538.89,0.48,EDGE MARSH
612-4881,3745023.88,638548.65,0.49,MB
612-4880,3745023.91,638573.32,0.62,MB
612-4879,3745023.43,638598.82,0.63,MB
612-4878,3745023.00,638623.05,0.62,MB
612-4877,3745021.67,638649.10,0.68,MB
612-4876,3745021.52,638673.10,0.61,MB
612-4875,3745020.20,638697.63,0.61,MB
612-4874,3745017.38,638722.49,0.23,MB
612-4873,3745019.21,638748.91,0.60,MB
612-4872,3745017.81,638773.36,0.53,MB
612-4871,3745017.15,638797.73,0.87,MB
612-4870,3745016.06,638822.51,0.60,MB
612-4869,3745017.26,638849.05,0.83,MB
612-4868,3745016.10,638873.95,0.60,MB
612-4867,3745014.11,638897.28,0.58,EDGE MARSH
612-4865,3745014.60,638899.47,0.27,WB 0.34' WATER
612-4864,3745015.01,638921.36,0.25,WB 0.36' WATER
612-4863,3745014.55,638935.90,-0.09,WB 0.70' WATER
612-4861,3745014.98,638938.64,0.83,EDGE MARSH
612-4860,3745014.85,638947.37,0.71,MB
612-4859,3745013.25,638973.78,0.45,MB
612-4858,3745011.22,638997.50,0.60,MB
612-4857,3745009.90,639007.64,0.70,EDGE MARSH
612-4855,3745011.55,639009.30,0.29,WB 0.32' WATER
612-4854,3745011.79,639015.45,-0.06,WB 0.67' WATER
612-4853,3745006.72,639022.21,-0.07,WB 0.68' WATER
612-4852,3744994.94,639043.21,-0.44,WB 1.05' WATER

612-4851,3744991.58,639046.67,-0.20,WB 0.81' WATER
612-4849,3744989.37,639048.74,0.81,EDGE MARSH
612-4848,3744978.60,639063.32,0.53,MB
612-4847,3744966.06,639084.82,0.74,MB
612-4846,3744950.94,639104.30,1.00,MB
612-4845,3744938.60,639122.64,0.37,EDGE MARSH
612-4843,3744936.62,639124.44,0.24,WB 0.37' WATER
612-4842,3744923.69,639147.34,-0.25,WB 0.86' WATER
612-4841,3744911.38,639168.98,0.03,WB 0.58' WATER
612-4840,3744905.95,639174.12,-0.22,WB 0.83' WATER
612-4838,3744904.28,639175.83,0.52,EDGE MARSH
612-4837,3744896.16,639187.80,0.60,MB
612-4836,3744882.50,639209.75,0.63,MB
612-4835,3744868.16,639230.40,0.37,EDGE MARSH
612-4833,3744866.34,639232.00,-0.35,WB 0.96' WATER
612-4832,3744854.09,639250.61,-0.34,WB 0.95' WATER
612-4831,3744852.19,639255.40,-0.28,WB 0.89' WATER
612-4829,3744851.22,639257.98,0.78,MB
612-4828,3744839.91,639271.11,0.30,MB
612-4827,3744826.69,639292.27,-0.38,MB
612-4826,3744812.84,639312.34,0.66,MB
612-4825,3744799.63,639333.26,0.62,MB
612-4824,3744785.76,639354.79,0.71,MB
612-4823,3744773.32,639372.90,0.76,MB
612-4822,3744774.44,639375.21,0.72,MB
612-4821,3744785.89,639398.63,0.81,MB
612-4820,3744795.76,639420.31,0.55,MB
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612-4818,3744817.87,639465.77,0.47,MB
612-4817,3744827.46,639488.83,0.67,MB
612-4816,3744839.35,639511.64,0.64,MB
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612-4811,3744891.44,639624.82,0.93,MB
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612-4808,3744923.46,639691.68,0.93,MB
612-4807,3744934.89,639714.74,1.23,MB
612-4806,3744944.98,639737.83,0.98,MB
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612-4804,3744967.10,639782.95,1.46,MB
612-4803,3744978.43,639806.14,1.20,MB
612-4802,3744989.01,639827.70,1.01,MB
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612-4800,3745009.91,639873.03,0.96,MB
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612-4798,3745031.89,639917.60,0.73,MB
612-4797,3745041.42,639941.16,1.01,MB
612-4796,3745052.90,639962.94,1.10,MB
612-4795,3745063.07,639986.53,0.90,MB
612-4794,3745074.34,640008.20,0.93,MB
612-4793,3745084.15,640030.36,1.08,MB
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612-4790,3745115.91,640098.69,0.83,MB
612-4789,3745127.09,640120.88,0.87,MB
612-4788,3745137.96,640143.73,0.79,MB
612-4787,3745149.37,640167.15,0.77,MB
612-4786,3745159.16,640189.05,0.83,MB
612-4785,3745169.86,640211.48,0.74,MB
612-4784,3745181.25,640234.86,0.48,MB

612-4783,3745192.10,640257.54,0.52,MB
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612-4781,3745213.00,640302.18,0.69,MB
612-4780,3745223.73,640325.22,0.51,MB
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612-4778,3745245.29,640371.17,0.56,MB
612-4777,3745255.49,640392.99,0.87,MB
612-4776,3745266.37,640415.46,0.55,MB
612-4775,3745277.36,640438.06,0.68,MB
612-4774,3745287.98,640460.26,0.68,MB
612-4773,3745298.58,640482.44,0.69,MB
612-4772,3745302.67,640491.07,0.58,MB
612-4771,3745311.65,640503.58,0.70,MB
612-4770,3745327.62,640524.04,0.68,MB
612-4769,3745341.55,640545.30,0.81,EDGE MARSH
612-4767,3745342.73,640546.21,-0.03,WB 0.64' WATER
612-4766,3745355.95,640564.61,-0.23,WB 0.84' WATER
612-4765,3745370.82,640584.87,-0.03,WB 0.64' WATER
612-4764,3745384.66,640605.76,0.04,WB 0.57' WATER
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612-4762,3745416.69,640644.07,0.03,WB 0.58' WATER
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612-4759,3745430.19,640665.23,0.58,MB
612-4758,3745445.13,640685.30,0.66,MB
612-4757,3745459.54,640705.11,0.52,MB
612-4756,3745476.05,640725.67,0.69,MB
612-4755,3745489.98,640746.24,0.83,MB
612-4754,3745504.61,640765.72,0.76,MB
612-4753,3745510.52,640774.58,0.99,MB
612-4752,3745525.16,640779.95,0.87,MB
612-4751,3745547.46,640789.38,0.82,MB
612-4750,3745571.41,640799.25,0.72,MB
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612-4747,3745640.07,640827.28,0.69,MB
612-4746,3745662.72,640836.48,0.35,MB
612-4745,3745686.35,640847.08,0.22,MB
612-4744,3745710.10,640856.34,0.68,MB
612-4743,3745732.53,640865.82,0.66,MB
612-4742,3745756.31,640875.87,0.48,MB
612-4741,3745778.10,640884.57,0.84,MB
612-4740,3745791.29,640891.09,0.37,EDGE MARSH
612-4738,3745793.68,640892.03,0.29,WB 0.32' WATER
612-4737,3745801.40,640894.33,0.10,WB 0.51' WATER
612-4736,3745825.92,640900.97,0.14,WB 0.47' WATER
612-4735,3745847.68,640912.17,0.02,WB 0.59' WATER
612-4734,3745869.99,640922.67,0.27,WB 0.34' WATER
612-4732,3745871.27,640923.76,0.64,EDGE MARSH
612-4731,3745893.46,640932.96,0.77,MB
612-4730,3745917.04,640942.72,0.91,MB
612-4729,3745940.67,640951.42,0.54,MB
612-4728,3745962.62,640961.57,0.80,MB
612-4727,3745986.03,640970.90,0.73,MB
612-4726,3746008.93,640980.35,0.83,MB
612-4725,3746032.08,640990.58,1.20,MB
612-6171,3746033.58,640975.62,0.64,MB
612-6170,3746037.55,640950.52,0.57,MB
612-6169,3746040.61,640926.29,0.17,MB
612-6168,3746045.75,640900.30,0.24,MB
612-6167,3746047.83,640875.77,0.63,MB
612-6166,3746051.27,640850.47,0.86,MB
612-6165,3746053.74,640827.71,0.88,MB
612-6164,3746057.74,640802.06,1.10,MB

612-6163,3746060.22,640778.07,1.06,MB
612-6162,3746064.42,640753.92,0.84,MB
612-6161,3746068.24,640730.22,0.47,MB
612-6160,3746072.07,640706.22,0.43,MB
612-6159,3746073.85,640702.58,0.47,EDGE MARSH
612-6157,3746073.39,640700.89,0.38,WB 0.23' WATER
612-6156,3746075.68,640673.29,0.32,WB 0.29' WATER
612-6155,3746066.48,640656.08,0.06,WB 0.55' WATER
612-6154,3746056.41,640643.03,0.04,WB 0.57' WATER
612-6152,3746052.18,640636.99,0.44,MB
612-6151,3746039.39,640617.59,0.40,MB
612-6150,3746022.93,640598.58,0.23,MB
612-6149,3746007.69,640576.33,0.41,MB
612-6148,3745993.32,640557.06,0.52,MB
612-6147,3745979.72,640537.19,0.85,MB
612-6146,3745964.63,640515.76,0.48,MB
612-6145,3745950.77,640495.74,0.85,MB
612-6144,3745935.85,640475.01,0.48,MB
612-6143,3745920.82,640457.41,0.69,MB
612-6142,3745907.27,640433.35,0.50,MB
612-6141,3745892.14,640414.38,0.18,MB
612-6140,3745875.92,640393.51,0.64,MB
612-6139,3745860.89,640374.30,0.49,MB
612-6138,3745849.47,640357.18,0.74,EDGE MARSH
612-6136,3745847.73,640356.09,0.24,WB 0.37' WATER
612-6135,3745838.67,640341.50,-0.27,WB 0.88' WATER
612-6134,3745826.31,640319.77,-0.34,WB 0.95' WATER
612-6133,3745823.50,640310.89,-0.23,WB 0.84' WATER
612-6132,3745825.05,640285.49,-0.24,WB 0.85' WATER
612-6131,3745824.89,640261.06,-0.22,WB 0.83' WATER
612-6130,3745826.26,640236.06,-0.20,WB 0.81' WATER
612-6129,3745828.06,640207.99,-0.11,WB 0.72' WATER
612-6128,3745830.57,640184.72,0.19,WB 0.42' WATER
612-6126,3745830.92,640184.83,0.57,EDGE MARSH
612-6125,3745833.69,640152.58,0.51,EDGE MARSH
612-6123,3745833.30,640152.12,0.10,WB 0.51' WATER
612-6122,3745831.11,640137.44,0.02,WB 0.59' WATER
612-6121,3745833.54,640110.04,-0.02,WB 0.63' WATER
612-6120,3745835.67,640084.53,-0.10,WB 0.71' WATER
612-6119,3745834.20,640059.38,-0.41,WB 1.02' WATER
612-6118,3745834.96,640034.24,-0.03,WB 0.64' WATER
612-6116,3745835.57,640032.10,0.55,EDGE MARSH
612-6115,3745835.86,640009.54,0.57,MB
612-6114,3745836.97,639992.80,0.80,EDGE MARSH
612-6112,3745838.75,639989.70,0.17,WB 0.44' WATER
612-6111,3745838.74,639959.43,-0.47,WB 1.08' WATER
612-6110,3745846.75,639932.28,-0.11,WB 0.72' WATER
612-6108,3745846.69,639930.59,0.65,EDGE MARSH
612-6107,3745848.13,639909.68,0.64,MB
612-6106,3745854.69,639887.19,0.67,MB
612-6105,3745862.21,639863.97,0.30,MB
612-6104,3745867.91,639841.96,0.92,MB
612-6103,3745874.35,639824.32,0.82,EDGE MARSH
612-6101,3745874.18,639823.64,0.36,WB 0.25' WATER
612-6100,3745875.58,639816.48,0.13,WB 0.48' WATER
612-6099,3745882.89,639791.80,-0.47,WB 1.08' WATER
612-6098,3745886.06,639782.48,-0.20,WB 0.81' WATER
612-6096,3745886.23,639779.96,0.75,EDGE MARSH
612-6095,3745890.10,639768.24,0.68,MB
612-6094,3745897.63,639738.88,0.54,MB
612-6093,3745902.92,639737.83,0.80,EDGE MARSH
612-6091,3745903.66,639736.94,-0.02,WB 0.63' WATER
612-6090,3745913.91,639727.94,-0.73,WB 1.34' WATER

612-6089,3745930.45,639716.38,-0.10,WB 0.71' WATER
612-6087,3745931.50,639715.64,0.55,EDGE MARSH
612-6086,3745933.46,639713.17,0.31,MB
612-6085,3745954.97,639697.39,0.46,MB
612-6084,3745976.89,639682.21,0.51,MB
612-6083,3745996.27,639669.32,0.74,EDGE MARSH
612-6081,3745996.52,639668.29,-0.25,WB 0.86' WATER
612-6080,3746016.01,639654.03,-0.43,WB 1.04' WATER
612-6079,3746035.02,639640.60,-0.49,WB 1.10' WATER
612-6078,3746057.90,639623.47,-0.38,WB 0.99' WATER
612-6077,3746068.52,639615.76,-0.10,WB 0.71' WATER
612-6075,3746069.38,639615.24,0.77,EDGE MARSH
612-6074,3746076.85,639612.28,0.70,MB
612-6073,3746096.95,639603.90,0.38,MB
612-6072,3746120.79,639590.96,0.44,MB
612-6071,3746143.85,639574.72,0.88,MB
612-6070,3746164.98,639563.40,0.59,MB
612-6069,3746187.21,639551.55,0.52,MB
612-6068,3746210.37,639539.91,0.73,MB
612-6067,3746229.74,639527.34,0.65,MB
612-6066,3746253.25,639514.63,0.78,MB
612-6065,3746274.02,639509.41,0.65,EDGE MARSH
612-6063,3746275.98,639506.99,-0.49,WB 1.10' WATER
612-6173,3746299.83,639493.52,-8.41,WB 9.02' WATER
612-6062,3746319.23,639479.84,0.08,WB 0.53' WATER
612-6060,3746320.60,639478.83,0.57,EDGE MARSH
612-6059,3746362.78,639456.63,0.78,MB
612-6058,3746382.10,639444.67,0.89,MB
612-6057,3746404.59,639431.67,0.74,EDGE MARSH
612-6055,3746405.35,639431.07,0.23,WB 0.38' WATER
612-6054,3746424.91,639416.27,0.23,WB 0.38' WATER
612-6053,3746435.60,639390.95,-0.52,WB 1.13' WATER
612-6052,3746452.54,639372.92,-0.24,WB 0.85' WATER
612-6051,3746463.02,639361.59,0.04,WB 0.57' WATER
612-6050,3746479.96,639337.59,0.05,WB 0.56' WATER
612-6049,3746498.57,639308.11,0.26,WB 0.35' WATER
612-6047,3746500.54,639307.52,0.54,EDGE MARSH
612-6046,3746515.95,639294.60,0.49,MB
612-6045,3746528.41,639274.57,0.59,MB
612-6044,3746544.59,639258.06,0.95,EDGE MARSH
612-6042,3746545.82,639255.86,-0.27,WB 0.88' WATER
612-6041,3746562.03,639235.56,-0.31,WB 0.92' WATER
612-6040,3746578.70,639215.62,-0.32,WB 0.93' WATER
612-6039,3746582.58,639210.34,-0.29,WB 0.90' WATER
612-6037,3746583.38,639208.02,0.85,EDGE MARSH
612-6036,3746593.63,639197.68,0.72,EDGE MARSH
612-6034,3746594.06,639196.69,0.21,WB 0.40' WATER
612-6033,3746604.01,639182.48,-0.09,WB 0.70' WATER
612-6031,3746605.06,639180.80,0.17,EDGE MARSH
612-6030,3746607.89,639176.76,0.46,MB
612-6029,3746623.54,639157.97,0.54,MB
612-6028,3746641.49,639138.08,0.58,MB
612-6027,3746658.95,639116.92,0.45,MB
612-6026,3746678.55,639117.57,0.45,MB
612-6025,3746702.41,639122.76,0.76,MB
612-6024,3746732.72,639128.76,0.49,MB
612-6023,3746752.21,639125.93,0.61,MB
612-6022,3746782.29,639129.77,0.53,MB
612-6021,3746802.18,639129.98,0.55,MB
612-6020,3746829.87,639134.61,0.54,MB
612-6019,3746854.72,639134.26,0.45,MB
612-6018,3746882.75,639137.08,0.83,MB
612-6017,3746906.57,639139.35,0.08,MB

612-6016,3746931.51,639140.86,0.50,MB
612-6015,3746948.66,639142.31,0.80,EDGE MARSH
612-6013,3746950.60,639142.94,0.44,WB 0.17' WATER
612-6012,3746959.34,639141.30,-0.06,WB 0.67' WATER
612-6011,3746981.16,639146.15,0.01,WB 0.60' WATER
612-6010,3747006.61,639148.22,0.08,WB 0.53' WATER
612-6009,3747027.14,639148.87,0.16,WB 0.45' WATER
612-6007,3747029.44,639148.98,0.82,EDGE MARSH
612-6006,3747031.06,639149.36,1.02,MB
612-6005,3747052.29,639151.44,0.56,MB
612-6004,3747077.30,639153.56,0.77,MB
612-6003,3747090.03,639154.25,0.49,MB
612-6002,3747102.10,639146.09,0.89,EDGE MARSH
612-6000,3747102.58,639144.79,0.13,WB 0.48' WATER
612-5999,3747120.00,639130.41,0.01,WB 0.60' WATER
612-5998,3747139.81,639112.27,-0.01,WB 0.62' WATER
612-5997,3747159.58,639097.40,0.02,WB 0.59' WATER
612-5996,3747179.18,639081.39,0.15,WB 0.46' WATER
612-5995,3747198.64,639064.22,-0.33,WB 0.94' WATER
612-5994,3747223.99,639042.13,0.51,WB 0.10' WATER
612-5992,3747224.73,639041.24,0.66,EDGE MARSH
612-5991,3747230.96,639033.23,0.78,MB
612-5990,3747243.34,639022.59,0.73,EDGE MARSH
612-5988,3747244.78,639021.61,0.19,WB 0.42' WATER
612-5987,3747253.43,639016.33,0.45,WB 0.16' WATER
612-5986,3747273.58,638999.95,0.15,WB 0.46' WATER
612-5985,3747295.37,638984.97,-0.46,WB 1.07' WATER
612-5984,3747312.08,638968.41,-0.34,WB 0.95' WATER
612-5983,3747326.93,638947.10,-0.55,WB 1.16' WATER
612-5982,3747344.77,638939.02,-0.17,WB 0.78' WATER
612-5981,3747325.03,638918.24,-0.30,WB 0.91' WATER
612-5980,3747307.98,638899.86,-0.37,WB 0.98' WATER
612-5979,3747289.28,638883.47,-0.34,WB 0.95' WATER
612-5978,3747271.66,638864.98,-0.28,WB 0.89' WATER
612-5977,3747254.07,638844.73,0.03,WB 0.58' WATER
612-5976,3747236.26,638828.25,-0.19,WB 0.80' WATER
612-5975,3747228.53,638820.62,0.11,WB 0.50' WATER
612-5973,3747227.05,638818.51,0.50,EDGE MARSH
612-5972,3747220.20,638811.63,0.67,MB
612-5971,3747202.62,638794.89,0.92,MB
612-5970,3747194.99,638785.82,0.93,EDGE MARSH
612-5968,3747194.28,638785.85,0.34,WB 0.27' WATER
612-5967,3747184.73,638774.33,-0.11,WB 0.72' WATER
612-5966,3747167.50,638758.09,-0.21,WB 0.82' WATER
612-5965,3747155.50,638744.47,0.25,WB 0.36' WATER
612-5963,3747155.41,638742.01,0.65,EDGE MARSH
612-5962,3747147.87,638735.37,0.55,MB
612-5961,3747151.20,638716.07,0.61,MB
612-5960,3747152.24,638697.53,0.80,EDGE MARSH
612-5958,3747150.68,638695.22,-0.30,WB 0.91' WATER
612-5957,3747148.91,638690.08,-0.39,WB 1.00' WATER
612-5956,3747148.73,638664.45,-0.49,WB 1.10' WATER
612-5955,3747149.53,638650.88,0.07,WB 0.54' WATER
612-5953,3747149.64,638649.23,0.80,EDGE MARSH
612-5952,3747148.88,638636.95,0.65,EDGE MARSH
612-5950,3747148.14,638635.18,0.34,WB 0.27' WATER
612-5949,3747150.80,638618.26,-0.12,WB 0.73' WATER
612-5948,3747150.54,638613.74,0.14,WB 0.47' WATER
612-5946,3747150.71,638612.70,0.54,EDGE MARSH
612-5945,3747151.39,638587.72,0.57,MB
612-5944,3747153.07,638565.47,0.39,MB
612-5943,3747154.48,638529.49,0.82,EDGE MARSH
612-5941,3747154.25,638528.41,0.14,WB 0.47' WATER

612-5940,3747154.21,638514.23,-0.16,WB 0.77' WATER
612-5939,3747154.81,638489.98,-0.16,WB 0.77' WATER
612-5938,3747155.09,638466.37,-0.22,WB 0.83' WATER
612-5937,3747157.89,638436.39,-0.16,WB 0.77' WATER
612-5936,3747170.54,638417.70,0.36,WB 0.25' WATER
612-5934,3747170.83,638416.51,1.11,EDGE MARSH
612-5933,3747182.81,638399.56,0.67,MB
612-5932,3747199.97,638378.31,0.56,MB
612-5931,3747213.41,638361.08,0.65,MB
612-5930,3747229.75,638340.77,0.70,MB
612-5929,3747240.51,638317.33,0.41,MB
612-5928,3747260.05,638297.17,0.76,MB
612-5927,3747281.49,638297.91,0.70,MB
612-5926,3747304.33,638302.42,0.45,MB
612-5925,3747321.47,638303.20,0.45,EDGE MARSH
612-5923,3747323.59,638302.95,0.37,WB 0.24' WATER
612-5922,3747333.15,638302.84,-0.36,WB 0.97' WATER
612-5921,3747355.65,638304.10,0.10,WB 0.51' WATER
612-5919,3747357.56,638303.68,0.82,EDGE MARSH
612-5918,3747382.16,638304.46,0.57,MB
612-5917,3747405.78,638306.98,0.66,MB
612-5916,3747433.15,638308.73,0.67,MB
612-5915,3747453.30,638310.19,0.84,MB
612-5914,3747457.46,638313.44,0.73,MB
612-5913,3747472.74,638323.48,0.60,EDGE MARSH
612-5911,3747474.76,638324.67,0.01,WB 0.60' WATER
612-5910,3747479.15,638326.18,0.08,WB 0.53' WATER
612-5909,3747498.03,638338.13,0.07,WB 0.54' WATER
612-5908,3747504.62,638342.96,0.14,WB 0.47' WATER
612-5906,3747509.95,638343.71,0.88,EDGE MARSH
612-5905,3747522.29,638350.32,0.51,MB
612-5904,3747545.15,638360.00,0.61,MB
612-5903,3747564.19,638372.77,0.82,MB
612-5902,3747583.08,638385.09,0.71,MB
612-5901,3747607.69,638399.24,0.72,MB
612-5900,3747629.73,638411.86,0.83,MB
612-5899,3747647.47,638428.89,0.97,MB
612-5898,3747651.88,638431.22,0.82,EDGE MARSH
612-5896,3747653.43,638431.22,-0.01,WB 0.62' WATER
612-5895,3747672.52,638438.27,-0.01,WB 0.62' WATER
612-5894,3747696.89,638449.17,-0.04,WB 0.65' WATER
612-5893,3747719.06,638448.97,-0.37,WB 0.98' WATER
612-5892,3747745.13,638450.46,-0.38,WB 0.99' WATER
612-5891,3747771.16,638448.41,-0.28,WB 0.89' WATER
612-5890,3747794.50,638453.28,-0.06,WB 0.67' WATER
612-5889,3747819.90,638448.40,0.22,WB 0.39' WATER
612-5888,3747844.55,638448.47,-0.25,WB 0.86' WATER
612-5887,3747871.04,638452.81,0.05,WB 0.56' WATER
612-5886,3747895.28,638447.44,-0.24,WB 0.85' WATER
612-5885,3747920.06,638446.51,-0.18,WB 0.79' WATER
612-5884,3747944.77,638445.78,0.05,WB 0.56' WATER
612-5883,3747968.60,638446.43,0.22,WB 0.39' WATER
612-5882,3747971.73,638446.01,0.28,WB 0.33' WATER
612-5879,3747994.26,638445.22,0.59,MB
612-5878,3748018.24,638444.17,0.80,MB
612-5877,3748042.69,638445.37,0.76,MB
612-5876,3748069.47,638443.86,0.84,MB
612-5875,3748093.83,638443.41,0.85,MB
612-5874,3748118.84,638442.77,0.65,MB
612-5873,3748137.13,638445.52,0.72,EDGE MARSH
612-5871,3748138.33,638445.23,0.34,WB 0.27' WATER
612-5870,3748143.64,638443.79,0.34,WB 0.27' WATER
612-5869,3748170.11,638440.03,0.07,WB 0.54' WATER

612-5868,3748196.64,638442.97,0.00,WB 0.61' WATER
612-5867,3748216.72,638442.67,-0.11,WB 0.72' WATER
612-5866,3748245.33,638442.04,-0.24,WB 0.85' WATER
612-5865,3748271.27,638441.80,-0.03,WB 0.64' WATER
612-5864,3748295.19,638441.70,0.18,WB 0.43' WATER
612-5863,3748320.34,638441.22,-0.06,WB 0.67' WATER
612-5862,3748344.90,638440.87,-0.06,WB 0.67' WATER
612-5861,3748368.70,638441.50,-0.07,WB 0.68' WATER
612-5860,3748388.98,638424.92,0.07,WB 0.54' WATER
612-5859,3748408.53,638411.29,0.36,WB 0.25' WATER
612-5858,3748416.57,638407.38,0.41,WB 0.20' WATER
612-5856,3748417.65,638405.95,0.91,EDGE MARSH
612-5855,3748429.44,638394.06,0.57,MB
612-5854,3748450.56,638380.85,0.69,MB
612-5853,3748470.77,638366.01,0.68,MB
612-5852,3748482.50,638357.93,0.61,MB
612-5851,3748515.74,638357.06,0.80,MB
612-5850,3748541.07,638359.57,0.85,MB
612-5849,3748564.24,638362.49,0.82,MB
612-5848,3748591.05,638362.61,0.79,MB
612-5847,3748616.18,638366.22,0.71,MB
612-5846,3748641.56,638368.40,0.41,MB
612-5845,3748666.15,638372.62,0.74,MB
612-5844,3748691.97,638371.27,0.93,MB
612-5843,3748717.07,638371.67,0.21,MB
612-5842,3748741.37,638373.40,0.62,MB
612-5841,3748765.93,638375.68,0.92,MB
612-5840,3748777.55,638375.47,0.73,EDGE MARSH
612-5838,3748779.06,638375.30,0.29,WB 0.32' WATER
612-5837,3748792.61,638377.07,0.22,WB 0.39' WATER
612-5836,3748824.85,638380.38,0.03,WB 0.58' WATER
612-5835,3748827.78,638400.04,0.18,WB 0.43' WATER
612-5833,3748828.24,638400.91,0.82,EDGE MARSH
612-5832,3748828.31,638420.97,0.57,MB
612-5831,3748833.59,638444.56,0.32,MB
612-5830,3748833.13,638469.32,0.61,MB
612-5829,3748834.18,638495.32,0.63,MB
612-5828,3748836.73,638521.66,0.65,MB
612-5827,3748836.68,638547.08,0.52,MB
612-5826,3748841.47,638570.51,0.55,MB
612-5825,3748840.75,638577.81,0.60,EDGE MARSH
612-5823,3748841.47,638579.63,0.36,WB 0.25' WATER
612-5822,3748842.17,638598.25,-0.06,WB 0.67' WATER
612-5821,3748842.90,638619.69,0.06,WB 0.55' WATER
612-5820,3748845.54,638642.30,0.53,WB 0.08' WATER
612-5818,3748846.65,638643.55,0.60,EDGE MARSH
612-5817,3748847.37,638646.00,0.97,MB
612-5816,3748848.40,638668.16,0.75,MB
612-5815,3748849.53,638694.48,0.60,MB
612-5814,3748852.89,638721.69,0.48,MB
612-5813,3748856.06,638745.90,0.54,MB
612-5812,3748857.94,638752.07,0.66,EDGE MARSH
612-5810,3748857.07,638754.27,0.43,WB 0.18' WATER
612-5809,3748855.85,638771.81,0.31,MB 0.30' WATER
612-5808,3748857.23,638795.08,-0.04,WB 0.65' WATER
612-5807,3748860.61,638822.51,0.17,WB 0.44' WATER
612-5805,3748861.31,638823.61,0.92,EDGE MARSH
612-5804,3748864.32,638844.79,0.66,MB
612-5803,3748866.68,638868.80,0.69,MB
612-5802,3748869.60,638895.32,0.33,MB
612-5801,3748869.22,638924.52,0.56,MB
612-5800,3748870.14,638947.38,0.52,MB
612-5799,3748871.50,638968.65,0.74,MB

612-5798,3748873.08,638990.70,0.48,MB
612-5797,3748878.17,639019.07,0.51,MB
612-5796,3748880.60,639045.26,0.71,MB
612-5795,3748879.86,639071.13,0.78,MB
612-5794,3748883.74,639094.71,0.87,MB
612-5793,3748887.48,639118.74,0.69,MB
612-5792,3748889.12,639145.55,0.94,MB
612-5791,3748911.17,639154.06,0.74,MB
612-5790,3748949.04,639165.88,0.72,MB
612-5789,3748976.34,639175.03,0.85,MB
612-5788,3749002.72,639182.18,1.02,MB
612-5787,3749030.13,639190.68,0.48,MB
612-5786,3749047.09,639199.14,0.84,EDGE MARSH
612-5784,3749048.03,639199.69,0.20,WB 0.41' WATER
612-5783,3749051.60,639199.39,0.07,MB
612-5782,3749063.32,639204.40,0.05,MB
612-5780,3749064.12,639204.00,0.20,EDGE MARSH
612-5779,3749075.28,639208.06,0.80,MB
612-5778,3749099.89,639215.56,0.61,MB
612-5777,3749122.59,639224.60,0.56,MB
612-5776,3749141.84,639207.37,0.62,MB
612-5775,3749159.26,639190.14,0.75,MB
612-5774,3749178.00,639173.68,0.69,MB
612-5773,3749194.57,639155.19,0.95,MB
612-5772,3749215.55,639138.73,0.59,MB
612-5771,3749231.61,639121.71,0.85,MB
612-5770,3749249.95,639103.50,0.92,MB
612-5769,3749267.13,639086.53,1.01,MB
612-5768,3749286.64,639068.64,0.97,MB
612-5767,3749304.41,639052.14,0.92,MB
612-5766,3749323.07,639034.39,1.12,MB
612-5765,3749341.01,639018.52,0.92,MB
612-5764,3749358.60,639000.88,0.76,MB
612-5763,3749377.68,638983.19,1.08,MB
612-5762,3749394.90,638966.64,1.01,MB
612-5761,3749411.26,638949.56,0.77,MB
612-5760,3749431.02,638931.20,0.81,MB
612-5759,3749448.48,638913.79,0.97,MB
612-5758,3749467.69,638896.37,0.85,MB
612-5757,3749485.01,638878.86,1.27,MB
612-5756,3749503.86,638861.58,0.73,MB
612-5755,3749521.52,638846.02,0.84,MB
612-5754,3749539.58,638828.29,1.05,MB
612-5753,3749557.66,638810.44,0.90,MB
612-5752,3749576.12,638792.32,0.86,MB
612-5751,3749593.22,638775.89,1.03,MB
612-5750,3749612.77,638760.16,0.95,MB
612-5749,3749629.52,638742.56,0.26,MB
612-5748,3749648.02,638723.92,0.95,MB
612-5747,3749666.67,638706.44,0.68,MB
612-5746,3749683.95,638689.93,0.78,MB
612-5745,3749697.87,638670.57,0.87,MB
612-5744,3749705.41,638646.38,1.19,MB
612-5743,3749712.60,638621.46,0.97,MB
612-5742,3749719.65,638598.59,0.89,MB
612-5741,3749728.51,638574.48,1.26,MB
612-5740,3749734.33,638551.14,1.25,MB
612-5739,3749739.99,638526.76,0.84,MB
612-5738,3749746.15,638502.39,1.15,MB
612-5737,3749754.86,638478.60,0.83,MB
612-5736,3749761.95,638453.97,0.71,MB
612-5735,3749768.05,638429.82,0.66,MB
612-5734,3749775.66,638405.57,1.09,MB

612-5733,3749783.22,638383.44,0.57,MB
612-5732,3749784.86,638376.58,0.90,MB
612-5731,3749804.75,638375.51,1.03,MB
612-5730,3749828.70,638374.43,0.67,MB
612-5729,3749853.97,638376.18,1.10,MB
612-5728,3749879.24,638374.64,0.52,MB
612-5727,3749903.47,638374.72,0.60,MB
612-5726,3749927.89,638374.06,0.75,MB
612-5725,3749954.29,638373.94,0.70,MB
612-5724,3749978.79,638374.11,0.47,MB
612-5723,3750002.42,638373.06,0.90,MB
612-5722,3750026.05,638372.27,0.82,MB
612-5721,3750054.21,638372.11,0.70,MB
612-5720,3750078.41,638371.87,0.65,MB
612-5719,3750103.13,638370.72,0.67,MB
612-5718,3750128.37,638371.47,0.51,MB
612-5717,3750152.97,638370.30,0.72,MB
612-5716,3750178.15,638369.84,0.92,MB
612-5715,3750203.23,638369.37,0.82,MB
612-5714,3750228.69,638369.88,0.73,MB
612-5713,3750253.23,638368.16,0.83,MB
612-5712,3750276.46,638368.25,0.52,MB
612-5711,3750291.11,638368.94,0.98,EDGE MARSH
612-5709,3750292.94,638368.32,-0.03,WB 0.64' WATER
612-5708,3750304.64,638367.43,-0.15,MB
612-5707,3750328.27,638367.54,-0.26,MB
612-5706,3750352.35,638365.72,-0.22,MB
612-5705,3750378.75,638368.00,-0.07,MB
612-5704,3750403.74,638366.67,-0.12,MB
612-5703,3750431.20,638364.89,-0.16,MB
612-5702,3750447.31,638362.91,-0.16,MB
612-5701,3750480.33,638364.67,-0.26,MB
612-5700,3750499.83,638365.81,-0.07,MB
612-5699,3750528.09,638365.72,0.51,MB
612-5698,3750537.88,638364.22,0.31,WB
612-5696,3750538.41,638363.88,0.46,EDGE MARSH
612-5695,3750553.64,638363.56,0.28,MB
612-5694,3750578.65,638362.92,0.83,MB
612-5693,3750602.67,638362.93,1.24,MB
612-5692,3750621.32,638362.20,0.90,MB
612-5691,3750621.50,638355.73,0.79,MB
612-5690,3750619.56,638330.61,1.16,MB
612-5689,3750618.58,638305.69,0.35,MB
612-5685,3750619.98,638279.14,0.67,MB
612-5684,3750619.88,638275.89,0.91,EDGE MARSH
612-5682,3750619.74,638273.91,-0.41,WB 1.02' WATER
612-5681,3750616.17,638254.97,-0.72,WB 1.33' WATER
612-5680,3750614.95,638229.89,-0.86,WB 1.47' WATER
612-5679,3750615.17,638204.28,-0.89,WB 1.50' WATER
612-5678,3750613.33,638177.88,-0.93,WB 1.54' WATER
612-5677,3750613.38,638155.54,-1.19,WB 1.80' WATER
612-5676,3750612.29,638128.56,-1.34,WB 1.95' WATER
612-5675,3750613.12,638104.61,-1.31,WB 1.92' WATER
612-5674,3750608.36,638080.74,-1.27,WB 1.88' WATER
612-5673,3750611.18,638055.17,-1.60,WB 2.21' WATER
612-5672,3750606.98,638029.96,-1.43,WB 2.04' WATER
612-5671,3750604.66,638005.56,-1.19,WB 1.80' WATER
612-5670,3750606.88,637982.04,-1.03,WB 1.64' WATER
612-5669,3750603.85,637955.23,-0.99,WB 1.60' WATER
612-5668,3750601.14,637929.83,-1.18,WB 1.79' WATER
612-5667,3750599.96,637902.72,-1.17,WB 1.78' WATER
612-5666,3750597.86,637881.19,-0.86,WB 1.47' WATER
612-5665,3750589.78,637855.10,-1.34,WB 1.95' WATER

612-5664,3750582.61,637833.50,-1.42,WB 2.03' WATER
612-5663,3750580.09,637808.04,-1.51,WB 2.12' WATER
612-5662,3750570.57,637784.49,-1.04,WB 1.65' WATER
612-5661,3750560.86,637761.00,-0.94,WB 1.55' WATER
612-5660,3750551.42,637736.49,-1.07,WB 1.68' WATER
612-5659,3750543.66,637710.00,-1.09,WB 1.70' WATER
612-5658,3750540.76,637698.94,-0.81,WB 1.42' WATER
612-5657,3750547.31,637690.90,-0.96,WB 1.57' WATER
612-5656,3750558.68,637667.19,-0.91,WB 1.52' WATER
612-5655,3750571.53,637645.54,-0.73,WB 1.34' WATER
612-5654,3750581.61,637626.47,-0.77,WB 1.38' WATER
612-5653,3750595.77,637599.28,-0.69,WB 1.30' WATER
612-5652,3750606.58,637581.97,-0.61,WB 1.22' WATER
612-5651,3750619.36,637558.66,-0.71,WB 1.32' WATER
612-5650,3750631.74,637535.09,-0.75,WB 1.36' WATER
612-5649,3750642.13,637512.19,-0.55,WB 1.16' WATER
612-5648,3750653.84,637491.74,-0.76,WB 1.37' WATER
612-5647,3750665.23,637469.57,-0.54,WB 1.15' WATER
612-5646,3750677.57,637447.60,-0.49,WB 1.10' WATER
612-5645,3750691.09,637424.34,0.10,WB 0.51' WATER
612-5644,3750698.45,637410.21,-0.43,WB 1.04' WATER
612-5643,3750702.82,637406.60,-0.45,WB 1.06' WATER
612-5642,3750717.88,637383.79,-0.28,WB 0.89' WATER
612-5641,3750732.25,637364.01,-0.31,WB 0.92' WATER
612-5640,3750748.96,637344.70,-0.32,WB 0.93' WATER
612-5639,3750761.54,637325.99,0.35,WB 0.26' WATER
612-5638,3750778.24,637304.08,-0.06,WB 0.67' WATER
612-5637,3750793.85,637285.54,-0.19,WB 0.80' WATER
612-5636,3750810.02,637266.24,-0.01,WB 0.62' WATER
612-5635,3750813.10,637263.63,0.07,WB 0.54' WATER
612-5633,3750815.32,637262.13,0.44,EDGE MARSH
612-5632,3750823.05,637247.71,0.80,MB
612-5631,3750833.19,637234.98,0.51,EDGE MARSH
612-5629,3750835.14,637233.53,-0.55,WB 1.16' WATER
612-5628,3750840.37,637227.81,-0.78,WB 1.39' WATER
612-5627,3750854.35,637205.62,-0.53,WB 1.14' WATER
612-5626,3750869.33,637182.88,-0.57,WB 1.18' WATER
612-5625,3750885.21,637166.63,-0.96,WB 1.57' WATER
612-5624,3750899.25,637145.72,-0.91,WB 1.52' WATER
612-5623,3750915.04,637127.21,-1.20,WB 1.81' WATER
612-5622,3750931.10,637106.18,-1.16,WB 1.77' WATER
612-5621,3750945.35,637085.04,-1.11,WB 1.72' WATER
612-5620,3750962.36,637063.92,-1.28,WB 1.89' WATER
612-5619,3750975.53,637048.79,-1.24,WB 1.85' WATER
612-5618,3750989.76,637023.42,-1.22,WB 1.83' WATER
612-5617,3751005.65,637006.52,-1.23,WB 1.84' WATER
612-5616,3751022.07,636984.06,-1.28,WB 1.89' WATER
612-5615,3751035.72,636967.07,-1.19,WB 1.80' WATER
612-5614,3751051.23,636943.94,-1.09,WB 1.70' WATER
612-5613,3751065.68,636926.17,-1.13,WB 1.74' WATER
612-5612,3751082.03,636906.77,-0.92,WB 1.53' WATER
612-5611,3751094.98,636887.76,-0.94,WB 1.55' WATER
612-5610,3751112.13,636868.37,-0.88,WB 1.49' WATER
612-5609,3751125.84,636848.70,-0.79,WB 1.40' WATER
612-5608,3751145.08,636828.36,-0.69,WB 1.30' WATER
612-5607,3751159.67,636807.62,-0.92,WB 1.53' WATER
612-5606,3751173.67,636788.44,-1.00,WB 1.61' WATER
612-5605,3751189.10,636770.59,-1.02,WB 1.63' WATER
612-5604,3751203.77,636746.93,-1.19,WB 1.80' WATER
612-5603,3751218.59,636728.81,-1.28,WB 1.89' WATER
612-5602,3751233.87,636708.67,-1.45,WB 2.06' WATER
612-5601,3751245.29,636688.32,-1.49,WB 2.10' WATER
612-5600,3751267.83,636669.24,-1.43,WB 2.04' WATER

612-5599,3751276.53,636644.68,-1.56,WB 2.17' WATER
612-5598,3751295.94,636634.93,-1.36,WB 1.97' WATER
612-5597,3751311.82,636611.87,-1.36,WB 1.97' WATER
612-5596,3751325.02,636591.24,-1.37,WB 1.98' WATER
612-5595,3751337.55,636568.50,-1.29,WB 1.90' WATER
612-5594,3751354.58,636550.03,-1.29,WB 1.90' WATER
612-5593,3751369.12,636528.07,-1.17,WB 1.78' WATER
612-5592,3751384.02,636510.80,-1.07,WB 1.68' WATER
612-5591,3751399.95,636490.24,-1.18,WB 1.79' WATER
612-5590,3751415.16,636469.18,-1.06,WB 1.67' WATER
612-5589,3751429.07,636451.41,-1.00,WB 1.61' WATER
612-5588,3751444.03,636432.24,-1.11,WB 1.72' WATER
612-5587,3751459.99,636409.95,-1.13,WB 1.74' WATER
612-5586,3751476.53,636389.03,-1.19,WB 1.80' WATER
612-5585,3751491.63,636372.92,-1.31,WB 1.92' WATER
612-5584,3751506.36,636354.43,-1.07,WB 1.68' WATER
612-5583,3751520.13,636330.32,-0.96,WB 1.57' WATER
612-5582,3751536.04,636309.73,-0.90,WB 1.51' WATER
612-5581,3751550.18,636288.66,-0.98,WB 1.59' WATER
612-5580,3751566.35,636272.54,-0.93,WB 1.54' WATER
612-5579,3751580.96,636249.17,-0.88,WB 1.49' WATER
612-5578,3751595.23,636231.88,-0.72,WB 1.33' WATER
612-5577,3751612.72,636210.46,-0.88,WB 1.49' WATER
612-5576,3751628.39,636188.55,-0.88,WB 1.49' WATER
612-5575,3751641.62,636171.22,-0.84,WB 1.45' WATER
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612-5572,3751688.47,636110.29,-0.89,WB 1.50' WATER
612-5571,3751701.24,636090.58,-0.84,WB 1.45' WATER
612-5570,3751715.92,636069.44,-0.71,WB 1.32' WATER
612-5569,3751731.91,636052.18,-0.75,WB 1.36' WATER
612-5568,3751746.46,636033.56,-0.77,WB 1.38' WATER
612-5567,3751762.01,636010.68,-0.71,WB 1.32' WATER
612-5566,3751779.61,635992.24,-0.54,WB 1.15' WATER
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612-5563,3751822.42,635934.96,-0.80,WB 1.41' WATER
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612-5561,3751854.97,635896.76,-0.84,WB 1.45' WATER
612-5560,3751871.63,635873.80,-0.76,WB 1.37' WATER
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612-5554,3751880.35,635770.14,-0.84,WB 1.45' WATER
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612-5548,3751802.61,635640.96,-1.03,WB 1.64' WATER
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612-5542,3751727.93,635509.93,-1.07,WB 1.68' WATER
612-5541,3751714.32,635486.91,-1.08,WB 1.69' WATER
612-5540,3751700.86,635467.41,-1.07,WB 1.68' WATER
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612-5538,3751677.11,635424.35,-0.95,WB 1.56' WATER
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612-5536,3751651.91,635381.06,-0.92,WB 1.53' WATER
612-5535,3751640.65,635360.69,-1.14,WB 1.75' WATER
612-5534,3751624.21,635338.14,-0.60,WB 1.21' WATER
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612-5532,3751600.05,635293.32,-0.97,WB 1.58' WATER
612-5531,3751588.64,635271.32,-1.13,WB 1.74' WATER
612-5530,3751575.95,635248.41,-1.11,WB 1.72' WATER
612-5529,3751563.19,635228.29,-0.93,WB 1.54' WATER
612-5528,3751551.19,635207.57,-0.96,WB 1.57' WATER
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612-5526,3751525.31,635165.49,-0.93,WB 1.54' WATER
612-5525,3751511.67,635144.12,-1.01,WB 1.62' WATER
612-5524,3751496.91,635123.81,-0.90,WB 1.51' WATER
612-5523,3751482.29,635102.13,-1.00,WB 1.61' WATER
612-5522,3751470.93,635080.70,-1.06,WB 1.67' WATER
612-5521,3751454.78,635059.08,-1.01,WB 1.62' WATER
612-5520,3751440.73,635040.66,-0.89,WB 1.50' WATER
612-5519,3751426.23,635019.52,-0.97,WB 1.58' WATER
612-5518,3751411.74,634997.99,-0.94,WB 1.55' WATER
612-5517,3751399.33,634975.40,-0.82,WB 1.43' WATER
612-5516,3751386.74,634956.11,-1.10,WB 1.71' WATER
612-5515,3751374.42,634935.59,-1.15,WB 1.76' WATER
612-5514,3751359.61,634917.00,-1.18,WB 1.79' WATER
612-5513,3751344.54,634893.89,-1.13,WB 1.74' WATER
612-5512,3751330.58,634873.91,-1.13,WB 1.74' WATER
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612-5493,3751148.53,634600.67,-0.82,WB 1.43' WATER
612-5492,3751134.27,634584.16,-0.31,WB 0.92' WATER
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612-5489,3751092.38,634520.61,-1.08,WB 1.69' WATER
612-5488,3751079.72,634502.18,-1.05,WB 1.66' WATER
612-5487,3751066.06,634478.96,-1.21,WB 1.82' WATER
612-5486,3751053.30,634458.12,-1.26,WB 1.87' WATER
612-5485,3751035.38,634438.90,-1.17,WB 1.78' WATER
612-5484,3751024.48,634416.80,-1.23,WB 1.84' WATER
612-5483,3751008.61,634395.77,-1.08,WB 1.69' WATER
612-5482,3750995.74,634375.59,-0.98,WB 1.59' WATER
612-5481,3750980.85,634356.56,-0.93,WB 1.54' WATER
612-5480,3750967.71,634334.56,-0.92,WB 1.53' WATER
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612-5477,3750924.18,634271.38,-0.53,WB 1.14' WATER
612-5476,3750914.16,634253.04,-0.81,WB 1.42' WATER
612-5475,3750896.87,634231.46,-0.98,WB 1.59' WATER
612-5474,3750882.04,634212.53,-1.02,WB 1.63' WATER
612-5473,3750868.77,634235.00,-0.95,WB 1.56' WATER
612-5472,3750846.28,634249.98,-1.04,WB 1.65' WATER

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612-5462,3750764.88,634350.56,-0.31,WB 0.92' WATER
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612-5460,3750733.37,634383.24,-1.02,WB 1.63' WATER
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612-5458,3750698.53,634422.63,-0.74,WB 1.35' WATER
612-5457,3750691.91,634427.85,-0.50,WB 1.11' WATER
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612-5451,3750677.37,634443.56,-0.49,WB 1.10' WATER
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612-5434,3750531.37,634607.16,0.42,EDGE MARSH
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612-5421,3750418.28,634736.33,0.42,EDGE MARSH
612-5419,3750415.81,634738.30,-0.24,WB 0.85' WATER
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612-5416,3750367.15,634795.40,-0.09,WB 0.70' WATER
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612-5410,3750343.51,634819.49,-0.42,WB 1.03' WATER
612-5409,3750334.04,634830.58,0.05,WB 0.56' WATER
612-5408,3750316.03,634849.77,-0.45,WB 1.06' WATER
612-5407,3750299.01,634869.20,-0.72,WB 1.33' WATER
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612-5404,3750287.53,634882.44,0.80,EDGE MARSH
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612-5402,3750266.76,634907.47,0.51,MB
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612-5396,3750220.82,634962.71,-0.44,WB 1.05' WATER
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612-5387,3750149.32,635037.10,-2.46,WB 3.07' WATER
612-5386,3750133.15,635055.43,-0.69,WB 1.30' WATER
612-5385,3750116.38,635074.70,-0.15,WB 0.76' WATER
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612-5380,3750067.85,635134.32,1.02,MB
612-5379,3750063.29,635138.92,0.71,EDGE MARSH
612-5377,3750061.13,635139.69,0.04,WB 0.57' WATER
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612-5372,3750017.77,635186.47,0.85,MB
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612-5370,3749986.08,635227.02,0.87,EDGE MARSH
612-5369,3749984.51,635225.96,-0.10,WB 0.71' WATER
612-5368,3749980.99,635229.96,0.00,WB 0.61' WATER
612-5366,3749979.68,635231.02,1.04,EDGE MARSH
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612-5281,3748896.14,636329.90,0.93,EDGE MARSH
612-5279,3748893.61,636331.13,-0.16,WB 0.77' WATER
612-5278,3748875.08,636325.25,-1.10,WB 1.71' WATER
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;MARSH CREATION AREA 1 TOP WATER SHOTS
4733,3745869.92,640923.08,0.50,TOP WATER
4739,3745794.75,640891.95,0.50,TOP WATER
4761,3745416.86,640647.63,0.61,TOP WATER
4768,3745342.91,640546.75,0.44,TOP WATER
4830,3744851.62,639256.78,0.54,TOP WATER
4834,3744866.71,639232.39,0.53,TOP WATER
4839,3744905.50,639174.82,0.52,TOP WATER
4844,3744936.73,639123.27,0.51,TOP WATER
4850,3744990.22,639047.70,0.53,TOP WATER
4856,3745011.84,639010.70,0.62,TOP WATER
4862,3745014.36,638936.41,0.61,TOP WATER
4866,3745014.24,638899.46,0.63,TOP WATER
4883,3745024.63,638537.04,0.59,TOP WATER
4887,3745025.26,638499.45,0.61,TOP WATER
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4903,3745144.25,638264.56,0.65,TOP WATER
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;
;MARSH CREATION AREA NO. 2
;0.62' AVG TOP WATER
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612-3390,3750362.51,641258.71,0.75,MB
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612-3392,3750320.25,641287.22,0.48,MB
612-3393,3750296.48,641296.61,0.85,MB
612-3394,3750273.67,641308.98,-0.34,MB
612-3395,3750251.92,641318.43,-0.29,MB
612-3396,3750228.19,641328.84,-0.68,MB
612-3397,3750203.85,641340.90,0.54,MB
612-3398,3750185.81,641355.16,0.91,MB
612-3399,3750162.86,641368.94,0.94,MB
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612-3405,3750079.49,641420.59,-0.51,WB 1.13' WATER
612-3406,3750074.50,641421.08,0.08,WB 0.54' WATER
612-3408,3750072.25,641422.16,0.66,EDGE MARSH
612-3409,3750056.80,641431.02,0.38,MB
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612-3414,3749988.50,641463.22,-0.37,WB 0.99' WATER
612-3415,3749965.05,641474.92,-0.61,WB 1.23' WATER
612-3416,3749961.74,641478.49,-0.41,WB 1.03' WATER
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612-3449,3749596.79,641680.85,-1.33,WB 1.95' WATER
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612-3462,3749469.97,641716.03,-0.22,WB 0.84' WATER
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612-3465,3749458.97,641716.30,0.72,MB
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612-3501,3749135.92,641710.82,0.13,WB 0.49' WATER
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612-3521,3748983.32,641606.14,-0.57,WB 1.19' WATER
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612-3525,3748934.24,641518.79,-0.76,WB 1.38' WATER
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612-3596,3748347.69,641870.34,-0.05,WB 0.67' WATER
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612-3619,3748152.03,641966.38,0.84,EDGE MARSH
612-3620,3748134.38,641973.79,0.72,MB
612-3621,3748112.90,641981.66,0.55,MB
612-3622,3748088.93,641994.95,0.77,MB
612-3623,3748068.74,642006.03,0.63,MB
612-3624,3748050.96,642015.81,0.67,EDGE MARSH
612-3626,3748048.76,642016.47,0.43,WB 0.19' WATER
612-3627,3748044.74,642016.63,-0.28,WB 0.90' WATER
612-3628,3748023.47,642028.35,-0.70,WB 1.32' WATER
612-3629,3748014.05,642032.82,-0.65,WB 1.27' WATER
612-3631,3748011.68,642033.58,0.71,EDGE MARSH
612-3632,3747998.82,642037.74,0.50,MB
612-3633,3747985.53,642016.93,0.75,MB
612-3634,3747969.78,641998.06,0.97,MB
612-3635,3747959.20,641981.10,0.99,EDGE MARSH
612-3637,3747958.07,641978.97,-0.41,WB 1.03' WATER
612-3638,3747939.00,641957.92,-0.60,WB 1.22' WATER
612-3639,3747923.87,641938.25,-0.60,WB 1.22' WATER
612-3640,3747907.08,641918.50,-0.32,WB 0.94' WATER
612-3641,3747895.72,641898.40,-0.27,WB 0.89' WATER
612-3642,3747878.55,641878.80,-0.11,WB 0.73' WATER
612-3643,3747877.47,641875.72,1.06,EDGE MARSH
612-3644,3747867.43,641857.42,0.08,MB
612-3645,3747850.81,641839.25,0.12,MB
612-3646,3747838.95,641816.08,0.46,EDGE MARSH
612-3648,3747837.70,641813.94,-0.06,WB 0.68' WATER
612-3649,3747818.96,641800.06,-0.69,WB 1.31' WATER
612-3650,3747804.65,641778.06,-0.61,WB 1.23' WATER
612-3651,3747791.44,641756.50,-0.62,WB 1.24' WATER
612-3652,3747776.71,641738.21,-0.84,WB 1.46' WATER
612-3653,3747763.75,641715.98,-0.78,WB 1.40' WATER
612-3654,3747748.30,641698.96,-0.76,WB 1.38' WATER
612-3655,3747730.85,641678.40,-0.35,WB 0.97' WATER
612-3656,3747728.44,641672.54,-0.06,WB 0.68' WATER
612-3658,3747728.83,641670.23,0.61,EDGE MARSH
612-3659,3747715.16,641657.22,0.52,EDGE MARSH
612-3661,3747714.96,641656.36,0.25,WB 0.37' WATER
612-3662,3747702.34,641636.26,-0.67,WB 1.29' WATER
612-3663,3747686.42,641617.84,-0.74,WB 1.36' WATER
612-3664,3747674.67,641595.37,-0.26,WB 0.88' WATER
612-3665,3747657.18,641582.60,0.07,WB 0.55' WATER
612-3667,3747655.82,641579.85,0.42,EDGE MARSH
612-3668,3747654.95,641576.15,0.69,MB
612-3669,3747641.87,641555.67,0.59,MB
612-3670,3747626.29,641537.51,0.75,MB
612-3671,3747611.88,641517.36,0.47,MB
612-3672,3747595.79,641498.91,0.77,MB
612-3673,3747582.82,641475.61,0.70,MB
612-3674,3747569.90,641455.86,0.65,MB
612-3675,3747552.84,641437.61,0.34,MB
612-3676,3747538.30,641416.31,0.80,MB

612-3677,3747520.64,641396.84,0.78,EDGE MARSH
612-3679,3747519.19,641393.72,-0.08,WB 0.70' WATER
612-3680,3747507.78,641377.82,-0.30,WB 0.92' WATER
612-3681,3747497.23,641364.02,-0.29,WB 0.91' WATER
612-3683,3747495.33,641361.31,0.53,EDGE MARSH
612-3684,3747495.96,641354.04,0.75,MB
612-3685,3747491.26,641349.63,0.91,MB
612-3686,3747476.21,641340.17,0.94,MB
612-3690,3747453.47,641326.51,0.39,MB
612-3691,3747433.54,641309.85,0.59,MB
612-3692,3747422.89,641302.96,0.89,EDGE MARSH
612-3694,3747421.90,641302.90,-0.25,WB 0.87' WATER
612-3695,3747412.86,641297.60,-0.14,WB 0.76' WATER
612-3696,3747393.44,641284.41,-0.23,WB 0.85' WATER
612-3697,3747383.34,641275.62,0.33,WB 0.29' WATER
612-3699,3747381.00,641274.95,0.57,EDGE MARSH
612-3700,3747371.36,641270.29,0.70,MB
612-3702,3747350.27,641255.26,0.70,MB
612-3704,3747343.12,641250.11,0.50,EDGE MARSH
612-3705,3747342.04,641249.36,0.34,WB 0.28' WATER
612-3707,3747330.15,641241.00,-0.32,WB 0.94' WATER
612-3708,3747327.26,641238.92,0.68,EDGE MARSH
612-3709,3747309.29,641228.99,1.04,MB
612-3710,3747286.61,641214.41,0.66,MB
612-3711,3747268.79,641201.75,0.95,MB
612-3713,3747246.64,641187.82,0.56,EDGE MARSH
612-3714,3747245.66,641186.53,0.10,WB 0.52' WATER
612-3715,3747229.16,641172.40,-0.33,WB 0.95' WATER
612-3716,3747207.87,641155.16,-0.04,WB 0.66' WATER
612-3717,3747185.02,641143.39,-0.64,WB 1.26' WATER
612-3718,3747166.26,641131.37,-0.73,WB 1.35' WATER
612-3719,3747144.84,641115.91,-0.76,WB 1.38' WATER
612-3720,3747123.67,641101.19,-0.61,WB 1.23' WATER
612-3721,3747103.48,641087.58,-0.24,WB 0.86' WATER
612-3723,3747090.56,641076.04,-0.02,WB 0.64' WATER
612-3724,3747088.92,641074.28,0.61,EDGE MARSH
612-3725,3747081.30,641071.62,0.68,MB
612-3726,3747061.52,641059.36,0.53,MB
612-3728,3747048.12,641051.07,0.44,EDGE MARSH
612-3729,3747046.34,641050.52,0.22,WB 0.40' WATER
612-3730,3747038.75,641047.65,-0.10,WB 0.72' WATER
612-3731,3747018.48,641033.54,-0.30,WB 0.92' WATER
612-3732,3746998.96,641017.79,-0.31,WB 0.93' WATER
612-3734,3746982.90,641005.39,-0.26,WB 0.88' WATER
612-3735,3746981.58,641004.25,0.59,EDGE MARSH
612-3736,3746980.46,641003.74,0.46,MB
612-3738,3746973.02,640998.61,0.44,EDGE MARSH
612-3739,3746972.06,640998.85,0.11,WB 0.51' WATER
612-3740,3746955.64,640991.18,-0.30,WB 0.92' WATER
612-3741,3746935.97,640975.30,-0.36,WB 0.98' WATER
612-3742,3746915.97,640960.10,0.01,WB 0.61' WATER
612-3744,3746894.66,640950.67,-0.21,WB 0.83' WATER
612-3745,3746892.20,640947.87,0.49,EDGE MARSH
612-3746,3746881.03,640937.82,1.27,MB
612-3748,3746876.79,640940.40,0.53,EDGE MARSH
612-3749,3746873.85,640942.47,-0.09,WB 0.71' WATER
612-3750,3746853.25,640955.86,-0.26,WB 0.88' WATER
612-3751,3746831.95,640969.00,-0.44,WB 1.06' WATER
612-3752,3746812.96,640985.26,-0.60,WB 1.22' WATER
612-3753,3746792.12,640998.83,-0.49,WB 1.11' WATER
612-3754,3746783.58,641004.64,-0.22,WB 0.84' WATER
612-3756,3746782.04,641005.02,0.69,EDGE MARSH

612-3757,3746772.28,641012.09,0.81,MB
612-3758,3746769.49,641013.45,1.09,MB
612-3759,3746768.42,641035.89,0.18,MB
612-3760,3746762.10,641060.34,0.00,MB
612-3761,3746760.27,641082.15,0.48,EDGE MARSH
612-3763,3746759.53,641082.45,-0.02,WB 0.64' WATER
612-3764,3746758.30,641087.49,-0.04,WB 0.66' WATER
612-3765,3746754.45,641108.06,-0.16,WB 0.78' WATER
612-3766,3746751.60,641123.21,-0.12,WB 0.74' WATER
612-3768,3746750.76,641124.92,0.55,EDGE MARSH
612-3769,3746752.49,641135.36,0.83,MB
612-3770,3746754.93,641149.15,0.47,EDGE MARSH
612-3772,3746754.62,641150.69,0.30,WB 0.32' WATER
612-3773,3746754.81,641161.63,-0.08,WB 0.70' WATER
612-3774,3746744.85,641183.87,0.02,WB 0.60' WATER
612-3775,3746741.85,641204.33,-0.08,WB 0.70' WATER
612-3777,3746741.35,641207.62,0.40,EDGE MARSH
612-3778,3746740.57,641209.57,0.26,MB
612-3779,3746736.57,641235.26,0.50,MB
612-3780,3746736.15,641259.29,0.62,MB
612-3781,3746733.19,641284.40,0.55,MB
612-3782,3746731.01,641308.72,0.46,MB
612-3783,3746726.56,641333.31,0.79,MB
612-3784,3746723.74,641350.33,0.43,EDGE MARSH
612-3786,3746722.89,641351.99,-0.15,WB 0.77' WATER
612-3787,3746723.40,641357.05,-0.46,WB 1.08' WATER
612-3788,3746719.93,641384.05,-0.11,WB 0.73' WATER
612-3789,3746715.76,641407.21,-0.39,WB 1.01' WATER
612-3790,3746711.90,641432.56,0.27,WB 0.35' WATER
612-3791,3746712.27,641444.22,0.25,WB 0.37' WATER
612-3793,3746711.76,641445.31,0.52,EDGE MARSH
612-3794,3746707.88,641458.08,0.50,EDGE MARSH
612-3796,3746706.92,641460.90,-0.08,WB 0.70' WATER
612-3797,3746704.99,641482.82,-0.37,WB 0.99' WATER
612-3798,3746702.69,641506.65,0.20,WB 0.42' WATER
612-3800,3746702.19,641507.64,0.49,EDGE MARSH
612-3801,3746698.01,641533.44,0.13,MB
612-3802,3746692.42,641556.31,0.60,MB
612-3803,3746690.37,641580.06,0.30,MB
612-3804,3746691.13,641604.55,0.53,MB
612-3805,3746687.59,641631.07,0.74,MB
612-3806,3746682.25,641655.85,0.58,MB
612-3807,3746678.21,641681.18,0.54,MB
612-3808,3746675.00,641705.52,0.11,MB
612-3809,3746672.34,641730.89,0.76,MB
612-3810,3746668.98,641753.16,0.57,MB
612-3811,3746666.37,641778.26,0.59,MB
612-3812,3746661.29,641801.45,0.69,MB
612-3813,3746659.19,641828.46,0.34,MB
612-3814,3746655.35,641852.49,0.63,MB
612-3815,3746654.85,641854.30,0.42,MB
612-3816,3746642.90,641875.77,0.20,MB
612-3817,3746630.34,641896.78,0.46,MB
612-3818,3746615.39,641918.66,0.13,MB
612-3819,3746601.79,641934.14,0.19,EDGE MARSH
612-3821,3746600.55,641934.43,-0.23,WB 0.85' WATER
612-3822,3746593.73,641951.09,-0.28,WB 0.90' WATER
612-3824,3746592.63,641953.38,0.71,EDGE MARSH
612-3825,3746588.61,641960.92,0.61,MB
612-3826,3746580.75,641971.00,0.61,EDGE MARSH
612-3828,3746579.92,641972.23,-0.15,WB 0.77' WATER
612-3829,3746574.78,641980.28,-0.42,WB 1.04' WATER
612-3830,3746561.59,641999.89,-0.65,WB 1.27' WATER

612-3831,3746546.47,642021.08,-0.29,WB 0.91' WATER
612-3832,3746533.95,642043.20,-0.46,WB 1.08' WATER
612-3833,3746521.74,642064.30,-0.45,WB 1.07' WATER
612-3834,3746505.88,642085.00,-0.77,WB 1.39' WATER
612-3835,3746493.35,642105.71,-0.72,WB 1.34' WATER
612-3836,3746477.24,642127.05,-0.72,WB 1.34' WATER
612-3837,3746466.76,642146.88,-0.64,WB 1.26' WATER
612-3838,3746455.87,642162.69,-0.39,WB 1.01' WATER
612-3840,3746454.62,642163.34,0.32,EDGE MARSH
612-3841,3746449.46,642167.48,0.65,MB
612-3842,3746444.31,642180.32,0.13,EDGE MARSH
612-3844,3746443.29,642181.59,-0.16,WB 0.78' WATER
612-3845,3746439.75,642187.40,-0.61,WB 1.23' WATER
612-3846,3746424.73,642209.96,-0.13,WB 0.75' WATER
612-3848,3746422.59,642211.10,0.38,EDGE MARSH
612-3849,3746409.85,642230.44,0.44,MB
612-3850,3746397.92,642255.06,0.60,MB
612-3851,3746385.02,642262.30,0.41,EDGE MARSH
612-3853,3746385.15,642264.08,-0.12,WB 0.74' WATER
612-3854,3746379.59,642271.25,-0.27,WB 0.89' WATER
612-3855,3746368.69,642292.78,-0.48,WB 1.10' WATER
612-3856,3746355.30,642312.60,-0.32,WB 0.94' WATER
612-3857,3746341.70,642335.75,-0.21,WB 0.83' WATER
612-3858,3746327.80,642354.81,-0.14,WB 0.76' WATER
612-3860,3746325.75,642356.88,0.51,EDGE MARSH
612-3861,3746312.33,642376.84,0.83,MB
612-3862,3746297.89,642398.32,0.81,MB
612-3863,3746295.68,642400.48,0.55,EDGE MARSH
612-3865,3746295.12,642401.43,-0.18,WB 0.80' WATER
612-3866,3746287.45,642421.43,-0.32,WB 0.94' WATER
612-3867,3746274.09,642440.76,-0.41,WB 1.03' WATER
612-3868,3746258.15,642463.09,-0.66,WB 1.28' WATER
612-3869,3746246.83,642480.85,-0.41,WB 1.03' WATER
612-3870,3746233.14,642502.51,-0.58,WB 1.20' WATER
612-3871,3746219.99,642522.99,-0.33,WB 0.95' WATER
612-3872,3746203.02,642544.93,0.00,WB 0.62' WATER
612-3874,3746199.43,642547.48,0.33,EDGE MARSH
612-3875,3746187.43,642562.87,0.58,MB
612-3876,3746184.37,642570.12,0.43,EDGE MARSH
612-3878,3746184.34,642571.09,0.13,WB 0.49' WATER
612-3879,3746176.33,642583.13,0.09,WB 0.53' WATER
612-3881,3746175.14,642584.57,0.76,EDGE MARSH
612-3882,3746162.52,642608.08,0.41,EDGE MARSH
612-3884,3746162.15,642610.01,0.03,WB 0.59' WATER
612-3885,3746161.40,642629.26,-0.45,WB 1.07' WATER
612-3887,3746149.06,642631.26,0.47,EDGE MARSH
612-3888,3746135.76,642649.48,0.39,MB
612-3889,3746133.16,642653.50,0.72,MB
612-3890,3746135.45,642673.95,1.07,MB
612-3891,3746137.10,642697.73,0.61,MB
612-3892,3746144.97,642722.63,0.70,MB
612-3893,3746148.23,642745.06,0.63,MB
612-3894,3746152.82,642771.63,0.70,MB
612-3895,3746158.38,642796.66,0.72,MB
612-3896,3746161.41,642822.52,1.38,MB
612-3897,3746170.34,642844.07,0.94,MB
612-3898,3746170.54,642870.94,0.39,MB
612-3899,3746173.83,642893.02,0.52,MB
612-3900,3746178.42,642920.07,0.56,MB
612-3901,3746188.94,642945.80,0.80,MB
612-3902,3746188.56,642968.53,0.54,MB
612-3903,3746190.21,642988.71,0.50,MB
612-3904,3746194.99,643019.63,0.60,MB

612-3905,3746202.52,643040.69,0.47,EDGE MARSH
612-3907,3746200.63,643041.61,-3.97,WB 4.59' WATER
612-3908,3746206.02,643076.79,-5.67,WB 6.29' WATER
612-3910,3746206.25,643080.02,0.54,EDGE MARSH
612-3911,3746207.12,643092.92,0.78,MB
612-3912,3746210.93,643115.81,0.51,MB
612-3913,3746215.80,643139.75,0.66,MB
612-3914,3746224.57,643164.29,0.62,MB
612-3915,3746226.94,643191.34,0.77,MB
612-3916,3746231.39,643214.39,0.79,MB
612-3917,3746234.94,643239.50,0.91,MB
612-3918,3746238.85,643259.84,0.58,MB
612-3919,3746241.15,643264.41,0.89,MB
612-3920,3746251.02,643277.98,0.48,EDGE MARSH
612-3922,3746251.03,643280.71,0.04,WB 0.58' WATER
612-3923,3746255.33,643284.03,-0.45,WB 1.07' WATER
612-3924,3746267.05,643305.54,-0.09,WB 0.71' WATER
612-3926,3746268.06,643306.89,0.62,EDGE MARSH
612-3927,3746282.85,643320.28,0.46,EDGE MARSH
612-3929,3746283.18,643321.33,-0.12,WB 0.74' WATER
612-3930,3746283.19,643326.47,0.25,WB 0.37' WATER
612-3931,3746299.15,643345.83,-0.05,WB 0.67' WATER
612-3932,3746303.65,643358.48,0.09,WB 0.53' WATER
612-3934,3746304.03,643359.96,0.43,EDGE MARSH
612-3935,3746309.16,643368.22,0.85,MB
612-3936,3746323.44,643388.85,0.82,MB
612-3937,3746335.35,643409.99,0.67,MB
612-3938,3746349.44,643430.78,0.72,MB
612-3939,3746365.19,643451.53,0.30,MB
612-3940,3746377.70,643470.63,0.58,EDGE MARSH
612-3942,3746378.39,643472.32,0.09,WB 0.53' WATER
612-3943,3746390.53,643494.90,0.75,WB
612-3944,3746398.56,643500.38,0.18,WB 0.44' WATER
612-3946,3746400.32,643501.92,0.50,EDGE MARSH
612-3947,3746407.85,643513.16,0.67,MB
612-3948,3746410.46,643516.75,0.82,EDGE MARSH
612-3950,3746412.20,643518.79,-0.10,WB 0.72' WATER
612-3951,3746418.66,643537.78,0.09,WB 0.53' WATER
612-3952,3746432.47,643555.16,-0.18,WB 0.80' WATER
612-3953,3746446.72,643577.36,-0.14,WB 0.76' WATER
612-3954,3746459.49,643598.55,-0.02,WB 0.64' WATER
612-3955,3746474.55,643619.39,-0.19,WB 0.81' WATER
612-3956,3746487.97,643637.97,-0.28,WB 0.90' WATER
612-3958,3746489.05,643639.29,0.53,EDGE MARSH
612-3959,3746504.38,643660.32,0.62,MB
612-3960,3746517.36,643681.18,0.23,MB
612-3961,3746534.52,643701.06,0.91,MB
612-3962,3746550.25,643717.68,0.68,MB
612-3963,3746566.47,643736.55,0.80,MB
612-3964,3746580.30,643757.33,0.78,MB
612-3965,3746597.32,643775.77,0.79,MB
612-3966,3746612.22,643795.96,0.73,MB
612-3967,3746627.36,643815.97,0.68,MB
612-3968,3746643.62,643834.61,0.64,MB
612-3969,3746660.81,643853.42,0.60,MB
612-3970,3746676.27,643872.94,0.50,MB
612-3971,3746692.20,643892.32,0.18,MB
612-3972,3746697.74,643901.38,0.26,MB
612-3973,3746695.93,643902.85,0.26,MB
612-3974,3746697.15,643906.90,0.24,EDGE MARSH
612-3976,3746698.06,643907.64,-0.28,WB 0.90' WATER
612-3977,3746697.71,643914.86,-0.12,WB 0.74' WATER
612-3978,3746708.79,643939.70,0.07,WB 0.55' WATER

612-3979,3746716.56,643962.74,-0.13,WB 0.75' WATER
612-3980,3746722.15,643985.22,0.14,WB 0.48' WATER
612-3981,3746730.07,643999.09,0.33,WB 0.29' WATER
612-3982,3746741.25,644000.06,0.12,WB 0.50' WATER
612-3983,3746754.73,643994.94,0.20,WB 0.42' WATER
612-3985,3746756.88,643994.31,0.71,EDGE MARSH
612-3986,3746763.67,643991.19,1.24,MB
612-3987,3746769.17,643992.03,0.52,EDGE MARSH
612-3989,3746770.46,643991.96,0.12,WB 0.50' WATER
612-3990,3746788.57,643990.88,0.23,WB 0.39' WATER
612-3991,3746814.07,643988.20,0.24,WB 0.38' WATER
612-3992,3746838.86,643981.96,0.21,WB 0.41' WATER
612-3993,3746862.85,643979.85,0.05,WB 0.57' WATER
612-3994,3746888.56,643975.38,-0.10,WB 0.72' WATER
612-3995,3746911.33,643970.28,-0.15,WB 0.77' WATER
612-3996,3746937.30,643964.99,0.54,WB 0.08' WATER
612-3997,3746961.45,643962.48,0.15,WB 0.47' WATER
612-3998,3746985.91,643959.08,0.11,WB 0.51' WATER
612-3999,3747011.31,643955.30,0.12,WB 0.50' WATER
612-4000,3747028.86,643956.26,0.37,WB 0.25' WATER
612-4002,3747030.67,643956.14,0.62,EDGE MARSH
612-4003,3747036.69,643954.94,0.58,EDGE MARSH
612-4005,3747038.39,643953.70,0.30,WB 0.32' WATER
612-4006,3747059.66,643946.92,0.13,WB 0.49' WATER
612-4007,3747070.30,643945.92,-0.35,WB 0.97' WATER
612-4008,3747080.67,643935.89,0.06,WB 0.56' WATER
612-4009,3747099.55,643917.34,0.06,WB 0.56' WATER
612-4010,3747115.99,643900.02,0.01,WB 0.61' WATER
612-4011,3747133.62,643884.45,0.17,WB 0.45' WATER
612-4012,3747150.08,643864.22,0.15,WB 0.47' WATER
612-4013,3747169.74,643846.99,0.02,WB 0.60' WATER
612-4014,3747189.54,643831.44,-0.36,WB 0.98' WATER
612-4015,3747204.77,643810.79,-0.17,WB 0.79' WATER
612-4016,3747224.40,643795.20,0.46,WB 0.16' WATER
612-4017,3747240.99,643778.70,-0.44,WB 1.06' WATER
612-4018,3747259.06,643760.74,-0.66,WB 1.28' WATER
612-4019,3747264.91,643751.28,-0.35,WB 0.97' WATER
612-4020,3747259.46,643738.40,-0.83,WB 1.45' WATER
612-4022,3747260.19,643713.47,-0.93,WB 1.55' WATER
612-4023,3747249.58,643690.49,-0.60,WB 1.22' WATER
612-4024,3747247.19,643664.55,-0.30,WB 0.92' WATER
612-4025,3747240.51,643639.10,-0.72,WB 1.34' WATER
612-4026,3747229.07,643615.32,-0.70,WB 1.32' WATER
612-4027,3747228.03,643592.23,-0.58,WB 1.20' WATER
612-4028,3747226.43,643580.93,-0.58,WB 1.20' WATER
612-4029,3747227.11,643567.34,-0.22,WB 0.84' WATER
612-4031,3747226.33,643561.66,0.39,EDGE MARSH
612-4032,3747230.56,643541.96,0.68,MB
612-4033,3747231.21,643516.98,0.69,MB
612-4034,3747232.86,643492.71,0.99,MB
612-4035,3747233.41,643467.16,0.72,MB
612-4036,3747236.96,643441.34,0.03,MB
612-4037,3747238.14,643417.09,0.59,MB
612-4038,3747240.49,643397.46,0.49,EDGE MARSH
612-4040,3747240.49,643394.41,-0.11,WB 0.73' WATER
612-4041,3747242.12,643391.56,-0.46,WB 1.08' WATER
612-4042,3747241.23,643393.00,0.19,WB 0.43' WATER
612-4043,3747257.58,643385.19,-0.02,WB 0.64' WATER
612-4045,3747259.00,643385.07,0.69,EDGE MARSH
612-4046,3747262.84,643382.59,0.57,MB
612-4047,3747267.08,643380.75,0.75,EDGE MARSH
612-4049,3747267.55,643379.87,0.13,WB 0.49' WATER
612-4050,3747289.04,643376.16,0.04,WB 0.58' WATER

612-4051,3747311.30,643369.09,0.13,WB 0.49' WATER
612-4052,3747324.44,643365.99,0.21,WB 0.41' WATER
612-4054,3747328.47,643365.65,0.68,EDGE MARSH
612-4055,3747335.32,643363.30,0.74,MB
612-4056,3747359.28,643355.82,0.86,MB
612-4057,3747384.07,643350.86,0.55,MB
612-4058,3747407.09,643341.82,0.78,MB
612-4059,3747431.53,643334.24,0.68,MB
612-4060,3747455.77,643328.43,0.69,MB
612-4061,3747478.72,643321.27,0.69,MB
612-4062,3747503.44,643313.48,0.67,MB
612-4063,3747526.73,643306.50,0.59,MB
612-4064,3747550.71,643300.07,0.75,MB
612-4065,3747554.10,643298.88,0.45,EDGE MARSH
612-4067,3747573.03,643294.74,0.03,WB 0.59' WATER
612-4068,3747577.27,643293.46,-0.04,WB 0.66' WATER
612-4069,3747598.65,643284.14,-0.14,WB 0.76' WATER
612-4070,3747622.13,643272.62,-0.34,WB 0.96' WATER
612-4071,3747625.99,643271.97,-0.31,WB 0.93' WATER
612-4073,3747628.43,643270.15,0.58,EDGE MARSH
612-4074,3747645.02,643265.10,0.55,MB
612-4075,3747668.46,643255.99,0.41,MB
612-4076,3747692.03,643249.20,0.63,MB
612-4077,3747714.47,643238.63,0.41,MB
612-4078,3747739.51,643229.44,0.34,MB
612-4079,3747761.64,643220.88,0.52,MB
612-4080,3747763.92,643219.97,0.19,EDGE MARSH
612-4082,3747765.02,643219.33,-0.18,WB 0.80' WATER
612-4083,3747785.17,643211.12,-0.38,WB 1.00' WATER
612-4084,3747795.16,643207.35,-0.16,WB 0.78' WATER
612-4086,3747797.97,643207.14,0.47,EDGE MARSH
612-4087,3747808.34,643203.11,0.46,MB
612-4088,3747831.87,643195.33,0.45,MB
612-4089,3747840.88,643191.45,0.45,EDGE MARSH
612-4091,3747841.53,643190.92,-0.15,WB 0.77' WATER
612-4092,3747857.39,643185.44,-0.44,WB 1.06' WATER
612-4093,3747878.22,643176.43,-0.38,WB 1.00' WATER
612-4094,3747902.81,643168.23,-0.68,WB 1.30' WATER
612-4095,3747913.39,643162.68,-0.77,WB 1.39' WATER
612-4096,3747926.63,643163.61,-0.66,WB 1.28' WATER
612-4097,3747947.51,643174.96,-0.12,WB 0.74' WATER
612-4099,3747948.26,643175.46,0.38,EDGE MARSH
612-4100,3747973.42,643180.18,0.74,MB
612-4101,3747997.03,643187.16,0.80,MB
612-4102,3748020.87,643195.55,0.76,MB
612-4103,3748045.94,643201.70,0.79,MB
612-4104,3748068.79,643208.80,0.73,MB
612-4105,3748093.33,643216.69,0.77,MB
612-4106,3748116.85,643224.46,0.76,MB
612-4107,3748140.52,643230.36,0.87,MB
612-4108,3748163.71,643238.82,1.34,MB
612-4109,3748177.27,643242.73,1.00,EDGE MARSH
612-4111,3748178.94,643243.91,-0.25,WB 0.87' WATER
612-4112,3748188.30,643247.65,-0.16,WB 0.78' WATER
612-4113,3748212.50,643253.48,-0.16,WB 0.78' WATER
612-4114,3748234.72,643261.60,-0.29,WB 0.91' WATER
612-4115,3748248.53,643265.95,-0.08,WB 0.70' WATER
612-4117,3748252.65,643267.50,0.78,EDGE MARSH
612-4118,3748259.87,643268.74,0.71,MB
612-4119,3748283.48,643275.34,0.65,MB
612-4120,3748307.43,643282.96,0.96,MB
612-4121,3748331.74,643291.02,0.91,MB
612-4122,3748356.10,643298.64,0.76,MB

612-4123,3748379.06,643305.71,1.08,MB
612-4124,3748403.27,643314.01,1.03,MB
612-4125,3748427.27,643318.99,0.76,MB
612-4126,3748451.84,643326.85,0.88,MB
612-4127,3748474.48,643334.29,0.53,MB
612-4128,3748500.46,643342.18,0.85,MB
612-4129,3748522.99,643349.06,0.64,MB
612-4130,3748547.30,643356.84,0.55,MB
612-4131,3748551.75,643380.84,0.68,MB
612-4132,3748557.34,643405.30,0.68,MB
612-4133,3748558.82,643431.61,0.57,EDGE MARSH
612-4135,3748559.50,643431.40,-0.04,WB 0.66' WATER
612-4136,3748566.65,643454.05,-0.22,WB 0.84' WATER
612-4137,3748570.15,643478.84,0.17,WB 0.45' WATER
612-4138,3748573.92,643503.86,-0.09,WB 0.71' WATER
612-4139,3748575.93,643513.67,0.10,WB 0.52' WATER
612-4141,3748576.42,643514.90,0.35,EDGE MARSH
612-4142,3748576.57,643517.02,0.94,MB
612-4143,3748587.99,643519.72,0.78,MB
612-4144,3748611.80,643525.13,0.77,MB
612-4145,3748636.50,643529.12,0.72,MB
612-4146,3748660.72,643533.72,0.30,MB
612-4147,3748685.51,643537.25,0.78,MB
612-4148,3748710.59,643542.62,0.71,MB
612-4149,3748734.96,643545.89,0.72,MB
612-4150,3748738.75,643546.99,0.47,EDGE MARSH
612-4152,3748741.65,643546.89,0.20,WB 0.42' WATER
612-4153,3748759.93,643551.24,-0.07,WB 0.69' WATER
612-4154,3748784.30,643555.40,-0.17,WB 0.79' WATER
612-4155,3748809.51,643559.92,-0.11,WB 0.73' WATER
612-4156,3748814.12,643560.69,-0.02,WB 0.64' WATER
612-4158,3748814.81,643561.11,0.89,EDGE MARSH
612-4159,3748830.97,643564.19,0.65,EDGE MARSH
612-4161,3748831.50,643563.98,-0.12,WB 0.74' WATER
612-4166,3748836.92,643566.06,-0.26,WB 0.88' WATER
612-4167,3748858.08,643567.50,-0.28,WB 0.90' WATER
612-4168,3748883.02,643570.77,-0.18,WB 0.80' WATER
612-4169,3748896.11,643574.17,0.01,WB 0.61' WATER
612-4170,3748904.47,643565.46,-0.09,WB 0.71' WATER
612-4171,3748915.25,643544.03,-0.36,WB 0.98' WATER
612-4172,3748931.14,643525.55,-0.64,WB 1.26' WATER
612-4173,3748942.00,643501.04,-0.96,WB 1.58' WATER
612-4174,3748960.99,643482.88,-1.07,WB 1.69' WATER
612-4175,3748967.58,643459.10,-1.07,WB 1.69' WATER
612-4176,3748984.57,643438.39,-1.15,WB 1.77' WATER
612-4177,3748997.81,643420.40,-1.27,WB 1.89' WATER
612-4178,3749012.29,643398.64,-0.92,WB 1.54' WATER
612-4179,3749022.24,643373.91,-0.74,WB 1.36' WATER
612-4180,3749039.99,643355.59,-0.41,WB 1.03' WATER
612-4181,3749052.71,643335.78,-0.30,WB 0.92' WATER
612-4182,3749062.97,643321.26,-0.09,WB 0.71' WATER
612-4184,3749065.75,643313.82,0.10,WB 0.52' WATER
612-4185,3749073.19,643301.52,0.43,WB 0.19' WATER
612-4186,3749074.12,643300.51,1.06,EDGE MARSH
612-4187,3749078.77,643292.75,0.99,MB
612-4188,3749081.83,643288.65,0.93,EDGE MARSH
612-4189,3749082.85,643287.21,0.52,WB 0.10' WATER
612-4191,3749090.91,643269.39,0.12,WB 0.50' WATER
612-4192,3749107.88,643251.71,0.35,WB 0.27' WATER
612-4193,3749120.20,643231.17,0.20,WB 0.42' WATER
612-4195,3749121.39,643227.95,0.66,EDGE MARSH
612-4196,3749135.66,643211.60,0.50,MB
612-4197,3749151.86,643189.98,0.74,MB

612-4198,3749165.84,643169.47,0.84,MB
612-4199,3749178.67,643148.28,0.75,MB
612-4200,3749192.48,643126.52,0.89,MB
612-4201,3749200.13,643100.85,0.75,EDGE MARSH
612-4203,3749200.15,643099.34,0.12,WB 0.50' WATER
612-4204,3749214.45,643082.91,-0.38,WB 1.00' WATER
612-4205,3749232.07,643062.57,-0.33,WB 0.95' WATER
612-4206,3749243.50,643043.31,-0.44,WB 1.06' WATER
612-4207,3749252.73,643017.90,-0.12,WB 0.74' WATER
612-4208,3749254.93,643013.00,-0.25,WB 0.87' WATER
612-4210,3749254.96,643011.07,-0.40,EDGE MARSH
612-4211,3749265.78,642995.27,0.82,MB
612-4212,3749276.67,642973.05,1.13,MB
612-4213,3749281.91,642963.48,0.98,EDGE MARSH
612-4215,3749282.04,642962.10,0.45,WB 0.17' WATER
612-4216,3749287.65,642952.43,0.17,WB 0.45' WATER
612-4217,3749291.41,642945.48,0.53,WB 0.09' WATER
612-4219,3749291.94,642944.91,1.00,EDGE MARSH
612-4220,3749300.31,642929.98,0.79,MB
612-4221,3749312.70,642907.79,0.86,MB
612-4222,3749325.40,642887.89,0.85,MB
612-4223,3749335.11,642862.80,0.89,MB
612-4224,3749350.04,642842.72,0.69,MB
612-4225,3749359.03,642819.30,0.95,MB
612-4226,3749372.01,642798.53,0.69,MB
612-4227,3749384.06,642775.39,1.01,MB
612-4228,3749396.03,642754.27,1.01,MB
612-4229,3749407.12,642731.60,1.04,MB
612-4230,3749419.56,642709.75,0.91,MB
612-4231,3749432.14,642689.39,1.03,MB
612-4232,3749444.10,642666.19,1.10,MB
612-4233,3749456.65,642644.57,0.52,MB
612-4234,3749468.59,642624.03,0.43,MB
612-4235,3749477.98,642600.60,0.47,MB
612-4236,3749492.79,642578.10,0.54,MB
612-4237,3749504.05,642557.20,0.49,MB
612-4238,3749518.57,642535.85,-0.21,MB
612-4239,3749522.86,642523.27,0.47,MB
612-4240,3749531.94,642514.06,1.08,EDGE MARSH
612-4242,3749532.65,642513.55,0.03,WB 0.59' WATER
612-4243,3749551.31,642501.19,-0.36,WB 0.98' WATER
612-4244,3749572.11,642483.75,-0.18,WB 0.80' WATER
612-4245,3749590.62,642466.25,-0.06,WB 0.68' WATER
612-4246,3749609.04,642451.75,-0.22,WB 0.84' WATER
612-4247,3749619.44,642441.67,0.29,WB 0.33' WATER
612-4249,3749619.76,642440.36,0.94,EDGE MARSH
612-4250,3749628.20,642435.70,0.83,MB
612-4251,3749647.03,642418.50,0.77,MB
612-4252,3749660.69,642408.72,0.85,EDGE MARSH
612-4254,3749661.48,642408.07,-0.11,WB 0.73' WATER
612-4255,3749664.59,642402.16,-0.17,WB 0.79' WATER
612-4256,3749674.04,642398.40,-0.04,WB 0.66' WATER
612-4257,3749674.35,642397.57,0.70,EDGE MARSH
612-4258,3749686.09,642388.09,0.87,MB
612-4259,3749705.08,642371.71,1.00,MB
612-4260,3749723.30,642355.68,0.74,MB
612-4261,3749741.93,642339.25,0.93,MB
612-4262,3749761.02,642323.99,1.04,MB
612-4263,3749781.39,642307.85,0.91,MB
612-4264,3749799.24,642294.05,0.76,MB
612-4265,3749822.07,642276.30,1.13,MB
612-4266,3749840.72,642262.30,1.05,MB
612-4267,3749857.59,642243.25,0.99,MB

612-4268,3749877.17,642228.88,1.10,MB
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612-4270,3749914.18,642197.23,0.89,MB
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612-4273,3749972.45,642148.70,0.97,MB
612-4274,3749994.18,642132.87,1.10,MB
612-4275,3750012.74,642116.03,0.92,MB
612-4276,3750030.04,642099.93,1.47,MB
612-4277,3750049.02,642080.63,0.29,MB
612-4278,3750068.79,642067.96,0.93,MB
612-4279,3750090.89,642054.48,1.08,MB
612-4280,3750111.63,642037.57,1.12,MB
612-4281,3750129.33,642023.15,1.05,MB
612-4282,3750146.81,642005.08,0.97,MB
612-4283,3750166.14,641990.90,1.05,MB
612-4284,3750185.58,641974.54,0.94,MB
612-4285,3750204.89,641956.43,0.99,MB
612-4286,3750227.04,641943.29,0.11,MB
612-4287,3750244.60,641926.90,0.54,MB
612-4288,3750261.35,641909.67,0.53,MB
612-4289,3750274.17,641899.82,0.90,EDGE MARSH
612-4291,3750275.41,641898.90,0.07,WB 0.55' WATER
612-4292,3750281.17,641893.73,0.26,WB 0.36' WATER
612-4293,3750302.65,641882.00,-0.59,WB 1.21' WATER
612-4294,3750324.29,641866.52,-0.36,WB 0.98' WATER
612-4295,3750344.34,641854.27,-0.57,WB 1.19' WATER
612-4296,3750364.87,641838.07,-0.41,WB 1.03' WATER
612-4297,3750387.28,641824.32,-0.14,WB 0.76' WATER
612-4298,3750409.90,641811.52,-0.26,WB 0.88' WATER
612-4299,3750419.57,641803.35,0.36,WB 0.26' WATER
612-4301,3750420.36,641803.23,0.92,EDGE MARSH
612-4302,3750427.82,641796.84,0.85,MB
612-4303,3750449.09,641783.40,0.77,MB
612-4304,3750470.40,641770.10,0.66,MB
612-4305,3750490.13,641752.98,0.38,MB
612-4306,3750511.72,641740.31,0.40,MB
612-4307,3750530.40,641724.26,0.70,MB
612-4308,3750552.29,641715.39,0.88,MB
612-4309,3750572.32,641698.50,0.85,MB
612-4310,3750589.93,641686.73,0.83,EDGE MARSH
612-4312,3750590.43,641685.99,-0.29,WB 0.91' WATER
612-4313,3750596.32,641683.71,-0.22,WB 0.84' WATER
612-4314,3750615.00,641668.98,0.07,WB 0.55' WATER
612-4316,3750618.58,641669.34,0.74,EDGE MARSH
612-4317,3750635.13,641653.37,0.45,MB
612-4318,3750657.45,641641.76,0.75,MB
612-4319,3750670.99,641621.84,0.23,MB
612-4320,3750689.70,641606.30,0.85,MB
612-4321,3750709.62,641591.88,0.36,MB
612-4322,3750728.21,641572.85,0.74,MB
612-4323,3750745.88,641555.21,0.24,MB
612-4324,3750759.23,641541.87,0.56,MB
612-4325,3750754.64,641535.03,0.48,MB
612-4326,3750741.56,641516.84,0.86,MB
612-4327,3750728.46,641494.16,0.91,MB
612-4328,3750725.14,641489.17,0.85,EDGE MARSH
612-4330,3750724.59,641487.94,0.01,WB 0.61' WATER
612-4331,3750718.42,641475.08,-0.59,WB 1.21' WATER
612-4332,3750704.09,641450.98,-0.10,WB 0.72' WATER
612-4334,3750703.16,641450.52,0.85,EDGE MARSH
612-4335,3750690.43,641431.16,1.03,MB
612-4336,3750680.28,641406.97,0.75,EDGE MARSH

612-4338,3750678.48,641405.51,-0.16,WB 0.78' WATER
612-4339,3750660.65,641386.90,0.21,WB 0.41' WATER
612-4340,3750652.95,641366.17,0.38,WB 0.24' WATER
612-4341,3750641.57,641344.92,-0.32,WB 0.94' WATER
612-4342,3750626.47,641331.96,0.30,WB 0.32' WATER
612-4344,3750625.68,641330.77,0.51,EDGE MARSH
612-4345,3750623.01,641325.74,0.11,MB
612-4346,3750622.14,641318.65,0.57,MB
612-4347,3750604.13,641314.19,1.08,MB
612-4348,3750577.86,641306.63,0.02,MB
612-4349,3750558.48,641296.51,0.70,MB
612-4350,3750526.59,641292.46,0.97,EDGE MARSH
612-4352,3750526.07,641291.59,-0.16,WB 0.78' WATER
612-4353,3750508.27,641286.79,-0.03,WB 0.65' WATER
612-4354,3750483.06,641278.01,-0.37,WB 0.99' WATER
612-4356,3750481.75,641277.18,0.39,EDGE MARSH
612-4357,3750460.66,641267.11,0.64,MB
612-4358,3750435.98,641263.84,0.85,MB
612-4359,3750412.79,641256.41,0.93,MB
612-4360,3750386.74,641246.30,0.89,MB
612-4361,3750383.46,641248.13,1.06,MB
;
;MARSH CREATION AREA 2 TOP WATER SHOTS
3403,641407.94,3750097.66,0.79,TOP WATER
3407,641421.14,3750074.54,0.78,TOP WATER
3411,641441.26,3750033.05,0.72,TOP WATER
3417,641478.84,3749961.98,0.78,TOP WATER
3422,641511.59,3749911.76,0.79,TOP WATER
3428,641536.14,3749859.49,0.78,TOP WATER
3436,641602.66,3749745.27,0.82,TOP WATER
3444,641665.89,3749632.36,0.79,TOP WATER
3448,641681.78,3749596.71,0.72,TOP WATER
3452,641691.68,3749580.53,0.77,TOP WATER
3459,641730.75,3749501.26,0.82,TOP WATER
3463,641716.16,3749470.17,0.83,TOP WATER
3469,641685.58,3749400.76,0.83,TOP WATER
3476,641649.13,3749316.60,0.85,TOP WATER
3480,641643.49,3749295.06,0.85,TOP WATER
3484,641633.44,3749271.05,0.83,TOP WATER
3489,641643.82,3749238.50,0.82,TOP WATER
3495,641690.90,3749170.95,0.85,TOP WATER
3500,641710.73,3749135.82,0.78,TOP WATER
3504,641708.12,3749111.09,0.78,TOP WATER
3509,641705.65,3749053.81,0.77,TOP WATER
3513,641692.28,3749031.46,0.80,TOP WATER
3518,641632.71,3748998.50,0.80,TOP WATER
3539,641451.69,3748661.57,0.73,TOP WATER
3543,641450.04,3748623.40,0.71,TOP WATER
3552,641542.38,3748522.70,0.76,TOP WATER
3556,641562.68,3748508.48,0.80,TOP WATER
3560,641585.78,3748501.96,0.86,TOP WATER
3565,641624.53,3748511.23,0.78,TOP WATER
3569,641653.76,3748521.21,0.77,TOP WATER
3577,641773.67,3748548.78,0.78,TOP WATER
3587,641841.98,3748413.93,0.75,TOP WATER
3595,641870.44,3748347.53,0.75,TOP WATER
3599,641877.37,3748332.52,0.76,TOP WATER
3604,641906.96,3748280.78,0.79,TOP WATER
3608,641914.91,3748259.97,0.84,TOP WATER
3611,641920.03,3748243.82,0.77,TOP WATER
3618,641965.89,3748153.57,0.75,TOP WATER
3625,642016.21,3748048.60,0.65,TOP WATER
3630,642032.97,3748013.73,0.75,TOP WATER

3636,641979.05,3747957.94,0.74,TOP WATER
3647,641813.84,3747837.56,0.53,TOP WATER
3657,641672.41,3747728.82,0.60,TOP WATER
3660,641656.40,3747714.99,0.65,TOP WATER
3666,641582.73,3747657.30,0.58,TOP WATER
3678,641393.58,3747519.15,0.68,TOP WATER
3682,641364.12,3747497.28,0.67,TOP WATER
4165,643565.79,3748836.59,0.69,TOP WATER
4183,643321.22,3749062.93,0.72,TOP WATER
4190,643287.00,3749082.90,0.78,TOP WATER
4194,643231.19,3749120.04,0.72,TOP WATER
4202,643099.34,3749200.09,0.77,TOP WATER
4209,643013.21,3749254.78,0.68,TOP WATER
4214,642962.51,3749282.08,0.66,TOP WATER
4218,642945.74,3749291.37,0.66,TOP WATER
4241,642513.61,3749532.28,0.61,TOP WATER
4248,642441.55,3749619.30,0.78,TOP WATER
4253,642410.05,3749661.22,0.73,TOP WATER
4290,641898.79,3750274.49,0.62,TOP WATER
4300,641803.42,3750419.47,0.64,TOP WATER
4311,641686.30,3750590.16,0.64,TOP WATER
4315,641668.98,3750617.06,0.60,TOP WATER
4329,641487.93,3750724.64,0.70,TOP WATER
4333,641451.00,3750704.07,0.70,TOP WATER
4337,641405.59,3750678.53,0.75,TOP WATER
4343,641332.00,3750626.64,0.66,TOP WATER
4351,641291.52,3750525.92,0.62,TOP WATER
4355,641277.77,3750481.96,0.70,TOP WATER
4363,640142.74,3744590.33,0.66,TOP WATER
4376,639874.92,3744519.99,0.66,TOP WATER
4382,639849.80,3744443.99,0.56,TOP WATER
4387,639843.29,3744394.61,0.56,TOP WATER
4394,639814.66,3744280.79,0.54,TOP WATER
4403,639828.92,3744164.84,0.44,TOP WATER
4410,639881.02,3744080.07,0.53,TOP WATER
4418,639956.81,3743960.68,0.54,TOP WATER
4427,639938.18,3743847.39,0.52,TOP WATER
4435,639812.94,3743758.70,0.57,TOP WATER
4439,639774.11,3743731.62,0.57,TOP WATER
4445,639732.33,3743674.87,0.60,TOP WATER
4455,639630.08,3743533.50,0.51,TOP WATER
4463,639663.97,3743451.61,0.54,TOP WATER
4467,639678.93,3743429.44,0.52,TOP WATER
4472,639703.66,3743399.00,0.50,TOP WATER
4484,639740.32,3743216.17,0.56,TOP WATER
4488,639740.00,3743192.67,0.62,TOP WATER
4495,639774.35,3743111.47,0.40,TOP WATER
4499,639785.67,3743095.64,0.37,TOP WATER
4507,639861.94,3743000.24,0.34,TOP WATER
4511,639871.73,3742987.85,0.38,TOP WATER
4518,639942.97,3742971.52,0.36,TOP WATER
4522,639974.17,3742968.85,0.34,TOP WATER
4526,640009.24,3742965.68,0.34,TOP WATER
4529,640029.09,3742966.46,0.34,TOP WATER
4534,640075.05,3742961.00,0.41,TOP WATER
4538,640101.41,3742956.77,0.31,TOP WATER
4551,640306.52,3742957.70,0.30,TOP WATER
4555,640341.42,3742968.44,0.31,TOP WATER
4560,640385.31,3742983.40,0.35,TOP WATER
4564,640401.77,3742988.20,0.32,TOP WATER
4569,640454.60,3743022.59,0.35,TOP WATER
4573,640465.82,3743031.49,0.38,TOP WATER
4579,640534.19,3743087.22,0.27,TOP WATER

4584,640599.66,3743136.69,0.29,TOP WATER
4587,640609.83,3743144.38,0.28,TOP WATER
4593,640673.40,3743193.01,0.26,TOP WATER
4601,640768.91,3743274.06,0.33,TOP WATER
4607,640805.78,3743357.58,0.36,TOP WATER
4614,640841.24,3743463.43,0.28,TOP WATER
4625,640771.13,3743640.17,0.33,TOP WATER
4628,640760.62,3743665.98,0.29,TOP WATER
4633,640730.12,3743724.50,0.37,TOP WATER
4637,640714.40,3743746.07,0.32,TOP WATER
4641,640701.75,3743777.17,0.40,TOP WATER
4648,640653.38,3743871.50,0.34,TOP WATER
4656,640594.70,3743998.23,0.30,TOP WATER
4659,640588.99,3744010.95,0.31,TOP WATER
4664,640567.92,3744050.04,0.21,TOP WATER
4669,640534.52,3744113.98,0.35,TOP WATER
4673,640517.84,3744141.14,0.45,TOP WATER
4683,640429.54,3744301.12,0.32,TOP WATER
4688,640411.97,3744328.69,0.36,TOP WATER
4691,640398.27,3744352.99,0.33,TOP WATER
4696,640369.48,3744415.48,0.31,TOP WATER
4699,640362.37,3744435.47,0.31,TOP WATER
4708,640277.54,3744524.32,0.40,TOP WATER
4711,640251.02,3744540.39,0.33,TOP WATER
4715,640212.57,3744559.98,0.38,TOP WATER
4720,640153.70,3744589.80,0.34,TOP WATER
;
;MARSH CREATION AREA NO. 3
;0.40' AVG TOP WATER
612-4362,3744596.80,640148.32,-0.33,WB 0.73' WATER
612-4364,3744589.30,640122.53,-0.50,WB 0.90' WATER
612-4365,3744582.08,640099.87,-0.74,WB 1.14' WATER
612-4366,3744576.00,640074.78,-0.23,WB 0.63' WATER
612-4367,3744570.24,640051.71,0.00,WB 0.40' WATER
612-4368,3744563.52,640026.54,-0.31,WB 0.71' WATER
612-4369,3744555.91,640002.81,-0.77,WB 1.17' WATER
612-4370,3744547.96,639977.74,-0.32,WB 0.72' WATER
612-4371,3744542.26,639954.48,0.11,WB 0.29' WATER
612-4372,3744537.20,639930.98,0.00,WB 0.40' WATER
612-4373,3744531.17,639905.86,0.15,WB 0.25' WATER
612-4374,3744523.80,639881.59,0.27,WB 0.13' WATER
612-4375,3744522.70,639875.28,0.12,WB 0.28' WATER
612-4377,3744517.23,639874.96,0.43,EDGE MARSH
612-4378,3744505.82,639870.67,0.73,MB
612-4379,3744480.88,639865.92,0.28,MB
612-4380,3744456.36,639857.01,0.53,MB
612-4381,3744444.83,639850.47,0.40,EDGE MARSH
612-4383,3744443.51,639852.21,-0.03,WB 0.43' WATER
612-4384,3744433.13,639854.45,-0.23,WB 0.63' WATER
612-4385,3744407.21,639851.04,-0.02,WB 0.42' WATER
612-4386,3744394.75,639842.96,0.23,WB 0.17' WATER
612-4388,3744393.37,639842.64,0.55,EDGE MARSH
612-4389,3744358.96,639833.09,0.61,MB
612-4390,3744334.83,639827.55,0.49,MB
612-4391,3744311.91,639821.39,0.45,MB
612-4392,3744284.91,639814.73,0.82,MB
612-4393,3744282.16,639814.24,0.47,EDGE MARSH
612-4395,3744280.58,639814.03,0.17,WB 0.23' WATER
612-4396,3744263.24,639807.00,0.13,WB 0.27' WATER
612-4397,3744239.70,639801.39,0.04,WB 0.36' WATER
612-4398,3744216.40,639796.01,-0.25,WB 0.65' WATER
612-4399,3744215.57,639797.58,-0.26,WB 0.66' WATER
612-4400,3744193.17,639809.74,-0.21,WB 0.61' WATER

612-4401,3744173.94,639822.69,-0.08,WB 0.48' WATER
612-4402,3744165.07,639828.32,-0.12,WB 0.52' WATER
612-4404,3744163.54,639829.30,0.34,EDGE MARSH
612-4405,3744150.66,639837.76,0.34,MB
612-4406,3744129.39,639850.31,0.23,MB
612-4407,3744107.94,639863.29,0.71,MB
612-4408,3744088.42,639875.10,0.64,MB
612-4409,3744081.38,639880.17,0.44,EDGE MARSH
612-4411,3744080.15,639880.82,0.01,WB 0.39' WATER
612-4412,3744065.25,639889.64,-0.14,WB 0.54' WATER
612-4413,3744046.07,639901.29,-0.27,WB 0.67' WATER
612-4414,3744024.56,639914.69,-0.17,WB 0.57' WATER
612-4415,3744005.63,639928.77,-0.21,WB 0.61' WATER
612-4416,3743981.59,639940.92,-0.26,WB 0.66' WATER
612-4417,3743962.29,639955.66,-0.08,WB 0.48' WATER
612-4419,3743959.85,639956.73,0.72,EDGE MARSH
612-4420,3743947.89,639961.49,0.45,MB
612-4421,3743937.48,639959.95,0.48,MB
612-4422,3743913.04,639957.80,0.44,MB
612-4423,3743888.90,639955.41,0.62,MB
612-4424,3743861.86,639954.09,0.61,MB
612-4425,3743858.95,639954.56,0.68,MB
612-4426,3743848.21,639938.89,0.35,EDGE MARSH
612-4428,3743847.19,639937.55,0.11,WB 0.29' WATER
612-4429,3743832.31,639917.07,-0.08,WB 0.48' WATER
612-4430,3743818.43,639897.66,-0.14,WB 0.54' WATER
612-4431,3743804.29,639874.18,-0.09,WB 0.49' WATER
612-4432,3743786.29,639856.61,-0.24,WB 0.64' WATER
612-4433,3743774.07,639837.24,-0.10,WB 0.50' WATER
612-4434,3743759.91,639814.25,0.32,WB 0.08' WATER
612-4436,3743758.37,639812.01,0.90,EDGE MARSH
612-4437,3743746.00,639793.94,0.81,MB
612-4438,3743732.50,639775.49,0.68,EDGE MARSH
612-4440,3743731.62,639773.91,-0.03,WB 0.43' WATER
612-4441,3743724.31,639763.23,-0.32,WB 0.72' WATER
612-4442,3743713.06,639757.20,0.01,WB 0.39' WATER
612-4443,3743692.51,639743.16,0.02,WB 0.38' WATER
612-4444,3743675.08,639731.95,0.38,WB 0.02' WATER
612-4446,3743673.89,639731.37,0.55,EDGE MARSH
612-4447,3743671.92,639729.29,0.45,MB
612-4448,3743652.21,639712.29,0.57,MB
612-4449,3743632.36,639699.59,0.68,MB
612-4450,3743612.97,639685.26,0.56,MB
612-4451,3743591.05,639670.45,0.47,MB
612-4452,3743571.11,639656.54,0.58,MB
612-4453,3743549.36,639641.25,0.51,MB
612-4454,3743535.50,639630.45,0.48,EDGE MARSH
612-4456,3743534.32,639630.10,0.31,WB 0.09' WATER
612-4457,3743528.49,639627.55,0.01,WB 0.39' WATER
612-4458,3743516.04,639618.95,0.19,WB 0.21' WATER
612-4459,3743507.45,639623.24,0.00,WB 0.40' WATER
612-4460,3743488.79,639638.47,-0.03,WB 0.43' WATER
612-4461,3743467.01,639652.69,-0.23,WB 0.63' WATER
612-4462,3743451.92,639663.48,0.00,WB 0.40' WATER
612-4464,3743450.25,639664.69,0.68,EDGE MARSH
612-4465,3743445.84,639667.27,0.36,MB
612-4466,3743431.23,639677.78,0.56,EDGE MARSH
612-4468,3743429.70,639678.74,0.11,WB 0.29' WATER
612-4469,3743426.55,639682.77,0.05,WB 0.35' WATER
612-4470,3743408.59,639697.18,-0.44,WB 0.84' WATER
612-4471,3743398.46,639703.79,-0.17,WB 0.57' WATER
612-4473,3743397.53,639704.31,0.71,EDGE MARSH
612-4474,3743386.11,639710.88,0.77,MB

612-4475,3743364.95,639726.06,0.50,MB
612-4476,3743346.24,639740.71,0.19,MB
612-4477,3743341.99,639743.84,0.64,MB
612-4478,3743321.66,639740.66,-0.06,MB
612-4479,3743296.67,639742.17,0.77,MB
612-4480,3743270.35,639739.73,0.60,MB
612-4481,3743246.53,639739.82,0.69,MB
612-4482,3743222.26,639738.56,0.63,MB
612-4483,3743218.68,639739.74,0.53,EDGE MARSH
612-4485,3743216.97,639740.06,0.28,WB 0.12' WATER
612-4486,3743197.21,639739.43,0.21,WB 0.19' WATER
612-4487,3743192.21,639739.53,0.31,WB 0.09' WATER
612-4489,3743190.74,639739.61,0.64,EDGE MARSH
612-4490,3743173.76,639736.24,0.76,MB
612-4491,3743157.71,639738.05,0.58,MB
612-4492,3743149.86,639744.98,-0.07,MB
612-4493,3743131.54,639759.36,0.37,MB
612-4494,3743113.27,639773.15,0.20,EDGE MARSH
612-4496,3743111.20,639773.99,-0.03,WB 0.43' WATER
612-4497,3743109.38,639774.56,-0.27,WB 0.67' WATER
612-4498,3743095.31,639785.49,-0.01,WB 0.41' WATER
612-4500,3743094.12,639786.17,0.44,EDGE MARSH
612-4501,3743089.89,639790.74,0.26,MB
612-4502,3743070.39,639805.89,0.50,MB
612-4503,3743050.61,639822.66,0.31,MB
612-4504,3743030.43,639836.56,0.56,MB
612-4505,3743013.90,639851.89,0.59,MB
612-4506,3743001.86,639860.03,0.31,EDGE MARSH
612-4508,3743000.37,639860.97,-0.13,WB 0.53' WATER
612-4509,3742992.98,639868.25,-0.48,WB 0.88' WATER
612-4510,3742987.34,639872.17,-0.07,WB 0.47' WATER
612-4512,3742986.19,639873.16,0.57,EDGE MARSH
612-4513,3742972.98,639882.43,0.40,MB
612-4514,3742972.25,639886.61,0.52,MB
612-4515,3742972.69,639908.70,0.72,MB
612-4516,3742970.98,639936.35,0.52,MB
612-4517,3742970.54,639941.33,0.41,EDGE MARSH
612-4519,3742971.24,639943.09,0.08,WB 0.32' WATER
612-4520,3742968.89,639959.69,-0.43,WB 0.83' WATER
612-4521,3742967.97,639975.21,-0.20,WB 0.60' WATER
612-4523,3742967.39,639976.95,0.52,EDGE MARSH
612-4524,3742963.32,639987.39,0.31,MB
612-4525,3742964.53,640007.04,0.74,EDGE MARSH
612-4527,3742965.31,640008.17,-0.06,WB 0.46' WATER
612-4528,3742966.38,640027.47,0.17,WB 0.23' WATER
612-4530,3742966.87,640031.90,0.62,EDGE MARSH
612-4531,3742967.24,640036.38,0.56,MB
612-4532,3742964.81,640060.20,0.73,MB
612-4533,3742961.69,640071.11,0.59,EDGE MARSH
612-4535,3742961.35,640072.55,-0.03,WB 0.43' WATER
612-4536,3742958.32,640084.80,-0.09,WB 0.49' WATER
612-4537,3742956.65,640100.36,-0.05,WB 0.45' WATER
612-4539,3742956.66,640102.68,0.60,EDGE MARSH
612-4540,3742953.52,640111.47,0.64,MB
612-4541,3742945.28,640131.93,-0.11,MB
612-4542,3742938.62,640158.80,0.39,MB
612-4543,3742934.59,640180.97,0.60,MB
612-4544,3742925.93,640203.19,-0.21,MB
612-4545,3742925.13,640206.64,-0.12,MB
612-4546,3742933.00,640229.64,0.54,MB
612-4547,3742941.67,640253.04,0.67,MB
612-4548,3742948.48,640277.99,0.56,MB
612-4549,3742955.80,640302.67,0.00,MB

612-4550,3742956.70,640303.99,0.34,EDGE MARSH
612-4552,3742957.32,640306.20,-0.26,WB 0.66' WATER
612-4553,3742963.49,640325.64,-0.26,WB 0.66' WATER
612-4554,3742968.50,640342.45,-0.03,WB 0.43' WATER
612-4556,3742969.29,640343.07,0.54,EDGE MARSH
612-4557,3742972.71,640346.44,0.54,MB
612-4558,3742979.20,640372.87,0.52,MB
612-4559,3742982.24,640383.47,0.33,EDGE MARSH
612-4561,3742982.82,640384.60,0.01,WB 0.39' WATER
612-4562,3742985.93,640396.61,-0.29,WB 0.69' WATER
612-4563,3742988.17,640402.66,-0.13,WB 0.53' WATER
612-4565,3742988.90,640403.99,0.35,EDGE MARSH
612-4566,3742993.90,640418.05,0.74,MB
612-4567,3743009.19,640440.37,0.64,MB
612-4568,3743021.68,640454.23,0.53,EDGE MARSH
612-4570,3743022.63,640455.20,-0.36,WB 0.76' WATER
612-4571,3743025.95,640457.01,-0.23,WB 0.63' WATER
612-4572,3743032.93,640467.93,-0.24,WB 0.64' WATER
612-4574,3743033.80,640468.92,0.34,EDGE MARSH
612-4575,3743041.42,640476.20,0.55,MB
612-4576,3743057.51,640495.97,0.18,MB
612-4577,3743070.66,640519.06,0.23,MB
612-4578,3743086.01,640536.56,0.36,EDGE MARSH
612-4580,3743087.48,640537.15,-0.12,WB 0.52' WATER
612-4581,3743102.10,640557.62,-0.60,WB 1.00' WATER
612-4582,3743116.80,640579.43,-0.32,WB 0.72' WATER
612-4583,3743133.40,640596.32,-0.37,WB 0.77' WATER
612-4585,3743138.23,640601.24,0.40,EDGE MARSH
612-4586,3743142.10,640607.54,0.32,EDGE MARSH
612-4588,3743143.53,640609.40,-0.30,WB 0.70' WATER
612-4589,3743148.98,640616.23,-0.41,WB 0.81' WATER
612-4590,3743164.18,640635.82,-0.32,WB 0.72' WATER
612-4591,3743179.09,640654.43,-0.32,WB 0.72' WATER
612-4592,3743191.72,640672.64,-0.29,WB 0.69' WATER
612-4594,3743193.07,640674.59,0.35,EDGE MARSH
612-4595,3743209.86,640696.11,0.29,MB
612-4596,3743226.10,640716.41,0.52,MB
612-4597,3743240.85,640736.98,0.70,MB
612-4598,3743256.90,640754.99,0.48,MB
612-4599,3743264.85,640766.61,0.59,MB
612-4600,3743272.03,640767.79,0.82,EDGE MARSH
612-4602,3743274.14,640769.08,0.04,WB 0.36' WATER
612-4603,3743298.11,640779.05,-0.11,WB 0.51' WATER
612-4604,3743322.20,640787.19,-0.23,WB 0.63' WATER
612-4605,3743344.86,640798.06,-0.17,WB 0.57' WATER
612-4606,3743355.50,640803.18,0.04,WB 0.36' WATER
612-4608,3743358.47,640803.89,0.49,EDGE MARSH
612-4609,3743368.77,640803.20,0.59,MB
612-4610,3743391.15,640815.60,-0.11,MB
612-4611,3743416.46,640823.35,0.58,MB
612-4612,3743438.38,640833.18,0.30,MB
612-4613,3743460.15,640841.26,0.49,EDGE MARSH
612-4615,3743462.25,640841.60,-0.01,WB 0.41' WATER
612-4616,3743481.47,640848.89,0.05,WB 0.35' WATER
612-4617,3743485.42,640847.79,-0.16,WB 0.56' WATER
612-4618,3743506.94,640834.87,0.08,WB 0.32' WATER
612-4619,3743529.05,640825.08,-0.33,WB 0.73' WATER
612-4620,3743551.58,640813.32,-0.04,WB 0.44' WATER
612-4621,3743575.28,640804.22,-0.15,WB 0.55' WATER
612-4622,3743596.67,640791.08,-0.15,WB 0.55' WATER
612-4623,3743618.85,640781.11,-0.01,WB 0.41' WATER
612-4624,3743641.07,640771.18,-0.01,WB 0.41' WATER
612-4626,3743642.80,640770.31,0.73,EDGE MARSH

612-4627,3743663.46,640761.35,0.29,EDGE MARSH
612-4629,3743664.62,640760.70,0.03,WB 0.37' WATER
612-4630,3743686.18,640746.24,-0.17,WB 0.57' WATER
612-4631,3743707.01,640733.43,-0.09,WB 0.49' WATER
612-4632,3743723.24,640730.30,0.21,WB 0.19' WATER
612-4634,3743724.95,640727.43,0.36,EDGE MARSH
612-4635,3743729.97,640722.54,0.38,MB
612-4636,3743742.77,640717.50,0.40,EDGE MARSH
612-4638,3743745.56,640715.60,0.03,WB 0.37' WATER
612-4639,3743755.76,640713.56,-0.02,WB 0.42' WATER
612-4640,3743775.78,640702.87,-0.02,WB 0.42' WATER
612-4642,3743778.52,640701.04,0.55,EDGE MARSH
612-4643,3743800.74,640695.03,0.73,MB
612-4644,3743821.68,640681.07,0.19,MB
612-4645,3743843.50,640668.34,0.45,MB
612-4646,3743864.47,640659.40,0.54,MB
612-4647,3743870.43,640656.69,0.60,EDGE MARSH
612-4649,3743872.25,640654.99,0.09,WB 0.31' WATER
612-4650,3743888.31,640648.25,0.43,WB N/A' WATER
612-4651,3743911.79,640636.99,-0.23,WB 0.63' WATER
612-4652,3743933.23,640626.42,0.11,WB 0.29' WATER
612-4653,3743955.92,640615.99,-0.37,WB 0.77' WATER
612-4654,3743976.87,640603.77,-0.06,WB 0.46' WATER
612-4655,3743999.81,640593.54,0.04,WB 0.36' WATER
612-4657,3744001.48,640592.32,0.38,EDGE MARSH
612-4658,3744007.46,640591.23,0.49,EDGE MARSH
612-4660,3744010.47,640589.87,0.10,WB 0.30' WATER
612-4661,3744022.94,640580.69,-0.21,WB 0.61' WATER
612-4662,3744040.87,640569.50,-0.01,WB 0.41' WATER
612-4663,3744050.51,640567.43,0.06,WB 0.34' WATER
612-4665,3744053.55,640566.03,0.81,EDGE MARSH
612-4666,3744068.19,640561.22,0.81,MB
612-4667,3744090.32,640546.36,0.47,MB
612-4668,3744111.96,640536.11,0.35,EDGE MARSH
612-4670,3744113.32,640535.03,0.13,WB 0.27' WATER
612-4671,3744132.18,640522.36,0.01,WB 0.39' WATER
612-4672,3744142.26,640516.83,0.23,WB 0.17' WATER
612-4674,3744144.57,640515.08,0.52,EDGE MARSH
612-4675,3744155.86,640509.80,0.97,MB
612-4676,3744175.91,640499.31,0.69,MB
612-4677,3744198.87,640485.98,0.60,MB
612-4678,3744219.60,640474.89,0.85,MB
612-4679,3744243.33,640461.73,0.50,MB
612-4680,3744263.76,640449.95,0.62,MB
612-4681,3744287.32,640437.28,0.47,MB
612-4682,3744299.46,640431.16,0.62,EDGE MARSH
612-4684,3744300.30,640430.36,-0.09,WB 0.49' WATER
612-4685,3744307.74,640426.16,-0.10,WB 0.50' WATER
612-4686,3744327.67,640412.38,-0.31,WB 0.71' WATER
612-4687,3744331.25,640410.13,-0.19,WB 0.59' WATER
612-4689,3744332.67,640408.21,0.64,EDGE MARSH
612-4690,3744351.65,640399.40,0.44,EDGE MARSH
612-4692,3744353.06,640398.25,-0.17,WB 0.57' WATER
612-4693,3744373.05,640389.57,-0.51,WB 0.91' WATER
612-4694,3744394.30,640375.87,-0.53,WB 0.93' WATER
612-4695,3744415.34,640369.61,-0.30,WB 0.70' WATER
612-4697,3744417.68,640369.28,0.47,EDGE MARSH
612-4698,3744434.75,640363.51,0.60,EDGE MARSH
612-4700,3744435.61,640362.50,0.04,WB 0.36' WATER
612-4701,3744442.72,640358.67,-0.23,WB 0.63' WATER
612-4702,3744465.17,640349.38,-0.31,WB 0.71' WATER
612-4703,3744487.86,640339.31,0.16,WB 0.24' WATER
612-4704,3744493.88,640335.03,-0.34,WB 0.74' WATER

612-4705,3744502.10,640321.02,-0.13,WB 0.53' WATER
612-4706,3744514.40,640296.00,-0.41,WB 0.81' WATER
612-4707,3744524.19,640278.26,0.13,WB 0.27' WATER
612-4709,3744525.30,640275.47,0.43,EDGE MARSH
612-4710,3744539.96,640252.81,0.45,EDGE MARSH
612-4712,3744540.90,640250.59,0.01,WB 0.39' WATER
612-4713,3744553.41,640233.89,-2.89,WB 3.29' WATER
612-4714,3744561.43,640214.93,-0.05,WB 0.45' WATER
612-4716,3744563.01,640211.60,0.31,EDGE MARSH
612-4717,3744574.71,640186.66,0.32,MB
612-4718,3744584.77,640167.52,0.45,MB
612-4719,3744589.71,640157.10,0.39,EDGE MARSH
612-4721,3744591.18,640154.02,0.20,WB 0.20' WATER
;
;MARSH CREATION AREA 3 TOP WATER SHOTS
612-4363,3744590.33,640142.74,0.66,TOP_WATER
612-4376,3744519.99,639874.92,0.66,TOP_WATER
612-4382,3744443.99,639849.80,0.56,TOP_WATER
612-4387,3744394.61,639843.29,0.56,TOP_WATER
612-4394,3744280.79,639814.66,0.54,TOP_WATER
612-4403,3744164.84,639828.92,0.44,TOP_WATER
612-4410,3744080.07,639881.02,0.53,TOP_WATER
612-4418,3743960.68,639956.81,0.54,TOP_WATER
612-4427,3743847.39,639938.18,0.52,TOP_WATER
612-4435,3743758.70,639812.94,0.57,TOP_WATER
612-4439,3743731.62,639774.11,0.57,TOP_WATER
612-4445,3743674.87,639732.33,0.60,TOP_WATER
612-4455,3743533.50,639630.08,0.51,TOP_WATER
612-4463,3743451.61,639663.97,0.54,TOP_WATER
612-4467,3743429.44,639678.93,0.52,TOP_WATER
612-4472,3743399.00,639703.66,0.50,TOP_WATER
612-4484,3743216.17,639740.32,0.56,TOP_WATER
612-4488,3743192.67,639740.00,0.62,TOP_WATER
612-4495,3743111.47,639774.35,0.40,TOP_WATER
612-4499,3743095.64,639785.67,0.37,TOP_WATER
612-4507,3743000.24,639861.94,0.34,TOP_WATER
612-4511,3742987.85,639871.73,0.38,TOP_WATER
612-4518,3742971.52,639942.97,0.36,TOP_WATER
612-4522,3742968.85,639974.17,0.34,TOP_WATER
612-4526,3742965.68,640009.24,0.34,TOP_WATER
612-4529,3742966.46,640029.09,0.34,TOP_WATER
612-4534,3742961.00,640075.05,0.41,TOP_WATER
612-4538,3742956.77,640101.41,0.31,TOP_WATER
612-4551,3742957.70,640306.52,0.30,TOP_WATER
612-4555,3742968.44,640341.42,0.31,TOP_WATER
612-4560,3742983.40,640385.31,0.35,TOP_WATER
612-4564,3742988.20,640401.77,0.32,TOP_WATER
612-4569,3743022.59,640454.60,0.35,TOP_WATER
612-4573,3743031.49,640465.82,0.38,TOP_WATER
612-4579,3743087.22,640534.19,0.27,TOP_WATER
612-4584,3743136.69,640599.66,0.29,TOP_WATER
612-4587,3743144.38,640609.83,0.28,TOP_WATER
612-4593,3743193.01,640673.40,0.26,TOP_WATER
612-4601,3743274.06,640768.91,0.33,TOP_WATER
612-4607,3743357.58,640805.78,0.36,TOP_WATER
612-4614,3743463.43,640841.24,0.28,TOP_WATER
612-4625,3743640.17,640771.13,0.33,TOP_WATER
612-4628,3743665.98,640760.62,0.29,TOP_WATER
612-4633,3743724.50,640730.12,0.37,TOP_WATER
612-4637,3743746.07,640714.40,0.32,TOP_WATER
612-4641,3743777.17,640701.75,0.40,TOP_WATER
612-4648,3743871.50,640653.38,0.34,TOP_WATER
612-4656,3743998.23,640594.70,0.30,TOP_WATER

612-4659,3744010.95,640588.99,0.31,TOP_WATER
612-4664,3744050.04,640567.92,0.21,TOP_WATER
612-4669,3744113.98,640534.52,0.35,TOP_WATER
612-4673,3744141.14,640517.84,0.45,TOP_WATER
612-4683,3744301.12,640429.54,0.32,TOP_WATER
612-4688,3744328.69,640411.97,0.36,TOP_WATER
612-4691,3744352.99,640398.27,0.33,TOP_WATER
612-4696,3744415.48,640369.48,0.31,TOP_WATER
612-4699,3744435.47,640362.37,0.31,TOP_WATER
612-4708,3744524.32,640277.54,0.40,TOP_WATER
612-4711,3744540.39,640251.02,0.33,TOP_WATER
612-4715,3744559.98,640212.57,0.38,TOP_WATER
612-4720,3744589.80,640153.70,0.34,TOP_WATER

OFFICE OF COASTAL PROTECTION & RESTORATION
BAYOU BONFOUCA MARSH CREATION (PO-104)
TOPOGRAPHIC, BATHYMETRIC, AND MAGNETOMETER SURVEY
ST. TAMMANY PARISH, LOUISIANA

SURVEYED BY C&C TECHNOLOGIES INC.
DATUMS
HORIZONTAL: NAD 1983 LA. SOUTH ZONE 1702 FEET
VERICAL: NAVD 88 FEET

PROPOSED PONDS
;
;POND A
;0.39' AVG TOP WATER
612-6278,3745869.08,638340.52,-1.61,WB 2.00' WATER
612-6179,3745865.91,638366.26,0.29,WB 0.10' WATER
612-6180,3745866.05,638389.81,-1.03,WB 1.42' WATER
612-6181,3745865.03,638416.24,-0.87,WB 1.26' WATER
612-6182,3745861.63,638441.97,-1.28,WB 1.67' WATER
612-6183,3745859.30,638464.70,-1.30,WB 1.99' WATER
612-6184,3745858.94,638488.79,-1.30,WB 1.69' WATER
612-6185,3745855.83,638515.65,-1.17,WB 1.56' WATER
612-6186,3745853.06,638539.65,-1.38,WB 1.77' WATER
612-6187,3745855.27,638558.22,-1.30,WB 1.69' WATER
612-6188,3745872.74,638580.69,0.07,WB 0.32' WATER
612-6189,3745892.35,638598.56,-1.23,WB 1.62' WATER
612-6190,3745910.32,638615.62,-0.13,WB 0.52' WATER
612-6192,3745911.18,638617.35,0.92,EDGE MARSH
612-6193,3745920.69,638629.69,0.57,MB
612-6194,3745928.02,638634.10,0.39,MB
612-6195,3745940.05,638641.10,0.64,EDGE MARSH
612-6197,3745948.99,638641.71,-0.07,WB 0.46' WATER
612-6198,3745950.17,638645.44,-0.42,WB 0.81' WATER
612-6199,3745969.52,638659.85,-0.18,WB 0.57' WATER
612-6200,3745991.05,638672.46,0.06,WB 0.33' WATER
612-6201,3746012.33,638685.21,-0.50,WB 0.89' WATER
612-6202,3746032.35,638695.93,0.34,WB 0.05' WATER
612-6204,3746034.70,638696.68,0.81,EDGE MARSH
612-6205,3746037.78,638699.32,0.60,MB
612-6206,3746053.52,638705.79,0.98,EDGE MARSH
612-6208,3746056.05,638705.90,0.09,WB 0.30' WATER
612-6209,3746058.47,638706.11,-0.09,WB 0.48' WATER
612-6210,3746081.72,638714.12,-0.83,WB 1.22' WATER
612-6211,3746105.10,638722.50,-0.70,WB 1.09' WATER
612-6212,3746125.27,638728.40,-0.13,WB 0.52' WATER
612-6214,3746126.43,638729.49,0.40,EDGE MARSH
612-6215,3746142.61,638733.06,0.89,EDGE MARSH
612-6217,3746144.04,638732.47,-0.87,WB 1.26' WATER
612-6218,3746151.79,638732.03,-0.24,WB 0.63' WATER
612-6220,3746154.61,638731.01,0.40,EDGE MARSH
612-6221,3746176.88,638728.98,0.69,MB
612-6222,3746197.48,638726.50,0.76,EDGE MARSH
612-6224,3746197.26,638726.09,-0.04,WB 0.43' WATER
612-6225,3746203.95,638726.49,-0.28,WB 0.67' WATER
612-6226,3746228.20,638724.07,-0.42,WB 0.81' WATER
612-6227,3746234.94,638722.86,-0.27,WB 0.66' WATER
612-6228,3746246.05,638708.33,-0.64,WB 1.03' WATER
612-6229,3746260.95,638688.42,-0.41,WB 0.80' WATER
612-6230,3746267.18,638677.50,0.08,WB 0.31' WATER
612-6232,3746268.35,638677.44,0.87,EDGE MARSH
612-6233,3746273.68,638671.15,0.61,MB
612-6234,3746276.74,638666.63,0.70,MB
612-6235,3746294.85,638652.06,0.44,MB

612-6236,3746315.63,638636.48,0.53,MB
612-6237,3746332.85,638619.46,0.19,WB 0.20' WATER
612-6239,3746333.25,638620.75,0.91,EDGE MARSH
612-6240,3746345.82,638610.44,-0.65,WB 1.04' WATER
612-6241,3746348.95,638602.08,-1.07,WB 1.46' WATER
612-6242,3746360.12,638578.31,-1.01,WB 1.40' WATER
612-6243,3746369.88,638551.89,-0.94,WB 1.33' WATER
612-6244,3746376.17,638532.10,-1.14,WB 1.53' WATER
612-6245,3746387.94,638507.86,-0.87,WB 1.26' WATER
612-6246,3746383.72,638504.19,-1.03,WB 1.42' WATER
612-6247,3746380.31,638481.07,-1.14,WB 1.53' WATER
612-6248,3746381.28,638457.42,-1.20,WB 1.59' WATER
612-6249,3746373.98,638436.08,-1.36,WB 1.75' WATER
612-6250,3746369.95,638404.89,-1.39,WB 1.78' WATER
612-6251,3746360.62,638387.62,-1.46,WB 1.85' WATER
612-6252,3746348.98,638363.96,-1.55,WB 1.94' WATER
612-6253,3746335.05,638345.60,-1.54,WB 1.93' WATER
612-6254,3746319.76,638323.55,-1.65,WB 2.04' WATER
612-6255,3746302.35,638307.95,-1.60,WB 1.99' WATER
612-6256,3746288.05,638283.82,-1.60,WB 1.99' WATER
612-6257,3746271.25,638269.28,-1.61,WB 2.00' WATER
612-6258,3746248.60,638257.42,-1.69,WB 2.08' WATER
612-6259,3746229.97,638236.06,-1.61,WB 2.00' WATER
612-6260,3746212.60,638225.17,-1.43,WB 1.82' WATER
612-6261,3746204.07,638218.54,-1.58,WB 1.97' WATER
612-6262,3746189.78,638217.13,-1.61,WB 2.00' WATER
612-6263,3746158.78,638211.96,-1.60,WB 1.99' WATER
612-6264,3746135.28,638210.59,-1.71,WB 2.10' WATER
612-6265,3746111.60,638205.15,-1.64,WB 2.03' WATER
612-6266,3746091.20,638200.50,-1.47,WB 1.86' WATER
612-6267,3746078.82,638197.37,-1.53,WB 1.92' WATER
612-6268,3746061.24,638199.71,-1.66,WB 2.05' WATER
612-6269,3746048.57,638206.64,-1.45,WB 1.84' WATER
612-6270,3746013.85,638212.87,-1.64,WB 2.03' WATER
612-6271,3745991.22,638218.12,-1.53,WB 1.92' WATER
612-6272,3745971.68,638237.39,-1.71,WB 2.10' WATER
612-6273,3745952.99,638251.97,-1.45,WB 1.84' WATER
612-6274,3745930.06,638263.08,-1.58,WB 1.97' WATER
612-6275,3745913.02,638283.34,-1.63,WB 2.02' WATER
612-6276,3745898.89,638301.76,-1.58,WB 1.97' WATER
612-6277,3745884.21,638319.64,-1.19,WB 1.58' WATER
;
;POND A TOP WATER SHOTS
612-6178,3745862.60,638332.11,0.31,TOP WATER
612-6191,3745909.86,638615.77,0.35,TOP WATER
612-6196,3745940.82,638642.26,0.40,TOP WATER
612-6203,3746032.18,638695.53,0.43,TOP WATER
612-6207,3746055.74,638705.72,0.39,TOP WATER
612-6213,3746125.90,638728.21,0.40,TOP WATER
612-6216,3746143.75,638732.28,0.36,TOP WATER
612-6219,3746151.90,638731.55,0.38,TOP WATER
612-6223,3746197.77,638726.15,0.41,TOP WATER
612-6231,3746266.97,638677.46,0.42,TOP WATER
612-6238,3746332.60,638619.61,0.40,TOP WATER
612-6279,3745868.13,638349.68,0.40,TOP WATER
;
;
;POND B
;0.46' AVG TOP WATER
612-6280,3747359.01,637500.30,-1.11,WB 1.57' WATER
612-6282,3747339.46,637487.53,-1.35,WB 1.81' WATER
612-6283,3747316.08,637475.75,-1.26,WB 1.72' WATER
612-6284,3747297.08,637453.84,-1.27,WB 1.73' WATER

612-6285,3747278.72,637445.06,-1.25,WB 1.71' WATER
612-6286,3747256.87,637428.17,-1.45,WB 1.91' WATER
612-6287,3747236.57,637415.20,-1.36,WB 1.82' WATER
612-6288,3747220.71,637407.38,-1.39,WB 1.85' WATER
612-6289,3747208.04,637375.95,-1.45,WB 1.91' WATER
612-6290,3747190.48,637358.13,-1.52,WB 1.98' WATER
612-6291,3747181.07,637331.47,-1.48,WB 1.94' WATER
612-6292,3747170.04,637314.15,-1.26,WB 1.72' WATER
612-6293,3747160.27,637292.48,-1.63,WB 2.09' WATER
612-6294,3747149.51,637273.58,-1.60,WB 2.06' WATER
612-6295,3747149.65,637265.28,-1.65,WB 2.11' WATER
612-6296,3747154.86,637242.75,-1.97,WB 2.43' WATER
612-6297,3747161.61,637219.36,-2.02,WB 2.48' WATER
612-6298,3747163.92,637195.73,-1.85,WB 2.31' WATER
612-6299,3747173.60,637172.14,-1.71,WB 2.17' WATER
612-6300,3747180.59,637146.31,-1.73,WB 2.19' WATER
612-6301,3747185.45,637131.61,-1.62,WB 2.08' WATER
612-6302,3747185.11,637115.93,-1.57,WB 2.03' WATER
612-6303,3747204.21,637107.17,-1.45,WB 1.91' WATER
612-6304,3747220.31,637091.49,-1.59,WB 2.05' WATER
612-6305,3747238.54,637071.16,-1.56,WB 2.02' WATER
612-6306,3747266.05,637062.34,-1.68,WB 2.14' WATER
612-6307,3747264.85,637054.95,-1.38,WB 1.84' WATER
612-6308,3747281.85,637042.34,-1.53,WB 1.99' WATER
612-6309,3747298.54,637029.71,-1.57,WB 2.03' WATER
612-6310,3747306.14,637023.80,-1.39,WB 1.85' WATER
612-6311,3747321.70,637021.92,-1.44,WB 1.90' WATER
612-6312,3747346.97,637024.06,-1.51,WB 1.97' WATER
612-6313,3747371.77,637025.07,-1.57,WB 2.03' WATER
612-6314,3747397.74,637026.99,-1.49,WB 1.95' WATER
612-6315,3747421.74,637028.40,-1.63,WB 2.09' WATER
612-6316,3747429.94,637026.79,-1.67,WB 2.13' WATER
612-6317,3747444.46,637036.25,-1.57,WB 2.03' WATER
612-6318,3747469.06,637047.38,-1.82,WB 2.28' WATER
612-6319,3747491.53,637058.12,-1.68,WB 2.14' WATER
612-6320,3747512.73,637067.63,-1.71,WB 2.17' WATER
612-6321,3747536.72,637077.78,-1.72,WB 2.18' WATER
612-6322,3747558.04,637090.04,-1.82,WB 2.28' WATER
612-6323,3747581.07,637101.01,-1.76,WB 2.22' WATER
612-6324,3747589.94,637103.69,-1.71,WB 2.17' WATER
612-6325,3747601.56,637114.99,-1.83,WB 2.29' WATER
612-6326,3747622.96,637126.37,-1.65,WB 2.11' WATER
612-6327,3747642.85,637141.47,-1.77,WB 2.23' WATER
612-6328,3747663.08,637159.15,-1.78,WB 2.24' WATER
612-6329,3747683.66,637169.34,-1.69,WB 2.15' WATER
612-6330,3747699.19,637183.17,-1.65,WB 2.11' WATER
612-6331,3747703.71,637186.06,-1.71,WB 2.17' WATER
612-6332,3747710.79,637210.71,-1.68,WB 2.14' WATER
612-6333,3747716.82,637233.47,-1.59,WB 2.05' WATER
612-6334,3747724.24,637256.71,-1.82,WB 2.28' WATER
612-6335,3747730.75,637282.69,-1.66,WB 2.12' WATER
612-6336,3747740.45,637302.81,-1.78,WB 2.24' WATER
612-6337,3747745.52,637330.00,-1.70,WB 2.16' WATER
612-6338,3747746.82,637332.97,-1.62,WB 2.08' WATER
612-6339,3747738.22,637352.19,-1.66,WB 2.12' WATER
612-6340,3747726.84,637374.28,-1.66,WB 2.12' WATER
612-6341,3747712.27,637397.80,-1.62,WB 2.08' WATER
612-6342,3747707.72,637420.68,-1.59,WB 2.05' WATER
612-6343,3747692.11,637441.12,-1.63,WB 2.09' WATER
612-6344,3747685.02,637465.03,-1.45,WB 1.91' WATER
612-6345,3747666.20,637476.19,-1.43,WB 1.89' WATER
612-6346,3747639.41,637490.73,-1.50,WB 1.96' WATER
612-6347,3747618.59,637501.62,-1.46,WB 1.92' WATER

612-6348,3747596.28,637513.83,-1.48,WB 1.94' WATER
612-6349,3747573.57,637527.18,-1.34,WB 1.80' WATER
612-6350,3747552.17,637536.94,-1.36,WB 1.82' WATER
612-6351,3747539.24,637546.11,-1.30,WB 1.76' WATER
612-6352,3747531.77,637543.65,-1.18,WB 1.64' WATER
612-6353,3747506.63,637541.27,-1.30,WB 1.76' WATER
612-6354,3747484.89,637534.05,-1.24,WB 1.70' WATER
612-6355,3747458.69,637523.10,-1.21,WB 1.67' WATER
612-6356,3747435.72,637520.75,-1.26,WB 1.72' WATER
612-6357,3747410.05,637512.86,-1.29,WB 1.75' WATER
612-6358,3747388.98,637506.32,-1.17,WB 1.63' WATER
612-6359,3747367.24,637498.77,-1.24,WB 1.70' WATER
;
;POND B TOP WATER SHOTS
612-6281,3747339.28,637498.73,0.39,TOP WATER
612-6360,3747349.01,637504.69,0.53,TOP WATER
;
;
;POND C
;0.56' AVG TOP WATER
612-6361,3748879.87,637688.19,-1.30,WB 1.86' WATER
612-6363,3748861.23,637670.80,-1.47,WB 2.03' WATER
612-6364,3748838.94,637660.66,-1.35,WB 1.91' WATER
612-6365,3748818.13,637646.25,-1.49,WB 2.05' WATER
612-6366,3748796.59,637635.76,-1.46,WB 2.02' WATER
612-6367,3748775.27,637620.82,-1.58,WB 2.14' WATER
612-6368,3748754.93,637608.33,-1.45,WB 2.01' WATER
612-6369,3748737.19,637595.36,-1.55,WB 2.11' WATER
612-6370,3748734.75,637590.21,-1.54,WB 2.10' WATER
612-6371,3748727.28,637565.51,-1.60,WB 2.16' WATER
612-6372,3748715.86,637544.84,-1.52,WB 2.08' WATER
612-6373,3748703.23,637523.75,-1.52,WB 2.08' WATER
612-6374,3748692.13,637501.52,-1.62,WB 2.18' WATER
612-6375,3748673.32,637479.74,-1.57,WB 2.13' WATER
612-6376,3748668.89,637454.54,-1.51,WB 2.07' WATER
612-6377,3748674.63,637443.11,-1.46,WB 2.02' WATER
612-6378,3748677.07,637432.81,-1.49,WB 2.05' WATER
612-6379,3748677.62,637407.74,-1.43,WB 1.99' WATER
612-6380,3748683.52,637383.39,-1.32,WB 1.88' WATER
612-6381,3748694.45,637358.60,-1.42,WB 1.98' WATER
612-6382,3748694.26,637333.82,-1.42,WB 1.98' WATER
612-6383,3748701.23,637315.31,-1.35,WB 1.91' WATER
612-6384,3748712.92,637299.18,-1.26,WB 1.82' WATER
612-6385,3748722.25,637295.42,-1.31,WB 1.87' WATER
612-6386,3748725.59,637290.74,-1.32,WB 1.88' WATER
612-6387,3748748.47,637281.76,-1.32,WB 1.88' WATER
612-6388,3748759.40,637263.36,-1.23,WB 1.79' WATER
612-6389,3748783.19,637249.02,-1.25,WB 1.81' WATER
612-6390,3748801.24,637233.32,-1.14,WB 1.70' WATER
612-6391,3748818.52,637217.68,0.38,WB 0.18' WATER
612-6393,3748820.30,637214.57,1.14,EDGE-MARSH
612-6394,3748826.01,637211.47,0.43,MB
612-6395,3748834.12,637212.14,0.49,EDGE-MARSH
612-6397,3748835.58,637212.33,-0.48,WB 1.04' WATER
612-6398,3748843.28,637211.06,-0.35,WB 0.91' WATER
612-6399,3748867.53,637211.75,-0.50,WB 1.06' WATER
612-6400,3748891.68,637214.78,-0.73,WB 1.29' WATER
612-6401,3748917.23,637214.10,-0.80,WB 1.36' WATER
612-6402,3748940.50,637214.25,-0.66,WB 1.22' WATER
612-6403,3748947.06,637214.80,-0.93,WB 1.49' WATER
612-6404,3748965.52,637223.50,-0.67,WB 1.23' WATER
612-6405,3748989.23,637231.87,-1.06,WB 1.62' WATER
612-6406,3749011.04,637244.37,-1.10,WB 1.66' WATER

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612-6407,3749034.04,637253.75,-0.98,WB 1.54' WATER
612-6408,3749055.71,637264.11,-0.56,WB 1.12' WATER
612-6409,3749079.57,637276.95,-0.67,WB 1.23' WATER
612-6410,3749101.61,637284.80,-0.77,WB 1.33' WATER
612-6411,3749108.60,637289.36,-0.90,WB 1.46' WATER
612-6412,3749122.52,637298.21,-1.09,WB 1.65' WATER
612-6413,3749145.52,637315.04,-1.18,WB 1.74' WATER
612-6414,3749163.77,637328.37,-1.22,WB 1.78' WATER
612-6415,3749183.64,637341.84,-1.34,WB 1.90' WATER
612-6416,3749204.97,637355.68,-1.12,WB 1.68' WATER
612-6417,3749221.92,637367.92,-0.83,WB 1.39' WATER
612-6418,3749223.25,637372.86,-1.25,WB 1.81' WATER
612-6419,3749229.83,637397.18,-1.35,WB 1.91' WATER
612-6420,3749238.75,637421.27,-1.30,WB 1.86' WATER
612-6421,3749245.75,637444.74,-1.26,WB 1.82' WATER
612-6422,3749252.04,637469.05,-1.35,WB 1.91' WATER
612-6423,3749257.86,637492.28,-1.22,WB 1.78' WATER
612-6424,3749267.20,637516.39,-1.31,WB 1.87' WATER
612-6425,3749260.42,637541.06,-1.68,WB 2.24' WATER
612-6426,3749247.04,637563.26,-1.63,WB 2.19' WATER
612-6427,3749240.14,637583.33,-1.58,WB 2.14' WATER
612-6428,3749222.88,637605.70,-1.61,WB 2.17' WATER
612-6429,3749212.22,637628.42,-1.71,WB 2.27' WATER
612-6430,3749202.28,637652.11,-1.82,WB 2.38' WATER
612-6431,3749180.25,637662.80,-1.66,WB 2.22' WATER
612-6432,3749152.56,637672.41,-1.64,WB 2.20' WATER
612-6433,3749133.22,637690.26,-1.62,WB 2.18' WATER
612-6434,3749118.70,637701.12,-1.65,WB 2.21' WATER
612-6435,3749096.37,637716.85,-1.41,WB 1.97' WATER
612-6436,3749073.63,637725.85,-1.50,WB 2.06' WATER
612-6437,3749058.88,637736.66,-1.44,WB 2.00' WATER
612-6438,3749052.81,637733.87,-1.50,WB 2.06' WATER
612-6439,3749026.37,637729.69,-1.47,WB 2.03' WATER
612-6440,3749003.73,637722.09,-1.52,WB 2.08' WATER
612-6441,3748978.52,637715.52,-1.56,WB 2.12' WATER
612-6442,3748949.77,637708.17,-1.55,WB 2.11' WATER
612-6443,3748931.38,637699.56,-1.53,WB 2.09' WATER
612-6444,3748906.59,637687.72,-1.51,WB 2.07' WATER
;
;POND C TOP WATER SHOTS
612-6362,3748889.70,637678.89,0.60,TOP WATER
612-6392,3748818.83,637217.20,0.58,TOP WATER
612-6396,3748835.40,637211.82,0.52,TOP WATER
612-6445,3748898.70,637698.38,0.54,TOP WATER
;
;
;POND D
;0.57' AVG TOP WATER
612-6446,3750396.33,635875.08,0.38,MB
612-6447,3750376.89,635860.85,0.60,EDGE MARSH
612-6449,3750375.67,635859.91,-0.22,WB 0.79' WATER
612-6450,3750354.05,635849.10,-1.30,WB 1.87' WATER
612-6451,3750333.00,635837.58,-1.32,WB 1.89' WATER
612-6452,3750310.53,635826.48,-1.43,WB 2.00' WATER
612-6453,3750290.23,635811.68,-1.56,WB 2.13' WATER
612-6454,3750268.49,635797.74,-1.71,WB 2.28' WATER
612-6455,3750253.93,635784.48,-1.62,WB 2.19' WATER
612-6456,3750250.34,635748.47,-1.61,WB 2.18' WATER
612-6457,3750231.77,635730.98,-1.67,WB 2.24' WATER
612-6458,3750222.87,635709.09,-1.67,WB 2.24' WATER
612-6459,3750207.19,635693.56,-1.80,WB 2.37' WATER
612-6460,3750194.79,635666.34,-1.63,WB 2.20' WATER
612-6461,3750182.75,635650.76,-1.69,WB 2.26' WATER
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612-6462,3750185.56,635648.07,-1.64,WB 2.21' WATER
612-6463,3750191.21,635621.54,-1.29,WB 1.86' WATER
612-6464,3750197.47,635597.31,-1.50,WB 2.07' WATER
612-6465,3750203.47,635572.96,-1.74,WB 2.31' WATER
612-6466,3750210.29,635547.91,-1.58,WB 2.15' WATER
612-6467,3750218.83,635525.30,-1.49,WB 2.06' WATER
612-6468,3750220.91,635501.97,-1.69,WB 2.26' WATER
612-6469,3750225.24,635495.88,-1.50,WB 2.07' WATER
612-6470,3750241.07,635486.04,-1.28,WB 1.85' WATER
612-6471,3750257.17,635468.04,-1.47,WB 2.04' WATER
612-6472,3750275.44,635452.05,-1.22,WB 1.79' WATER
612-6473,3750296.26,635436.58,-1.23,WB 1.80' WATER
612-6474,3750316.66,635421.24,-1.51,WB 2.08' WATER
612-6475,3750337.35,635405.22,-1.38,WB 1.95' WATER
612-6476,3750345.75,635399.85,-1.04,WB 1.61' WATER
612-6477,3750358.51,635402.65,-0.79,WB 1.36' WATER
612-6478,3750387.11,635399.61,-0.67,WB 1.24' WATER
612-6479,3750406.61,635401.95,-1.05,WB 1.62' WATER
612-6480,3750432.87,635404.63,-1.11,WB 1.68' WATER
612-6481,3750451.74,635406.09,-0.46,WB 1.03' WATER
612-6483,3750453.90,635406.55,0.75,EDGE MARSH
612-6484,3750465.11,635404.50,0.57,MB
612-6485,3750468.42,635406.35,0.50,EDGE MARSH
612-6487,3750469.41,635407.78,-0.20,WB 0.77' WATER
612-6488,3750481.08,635412.97,-0.23,WB 0.80' WATER
612-6490,3750483.16,635413.73,0.88,EDGE MARSH
612-6491,3750505.96,635421.47,0.57,MB
612-6492,3750525.71,635433.23,0.86,EDGE MARSH
612-6494,3750527.47,635434.85,0.07,WB 0.50' WATER
612-6495,3750550.10,635449.93,-1.00,WB 1.57' WATER
612-6496,3750574.46,635452.79,-0.37,WB 0.94' WATER
612-6498,3750575.99,635452.42,0.78,EDGE MARSH
612-6499,3750595.39,635464.88,0.59,MB
612-6500,3750604.16,635469.12,0.77,EDGE MARSH
612-6502,3750607.04,635469.79,-0.19,WB 0.76' WATER
612-6503,3750618.62,635474.10,-0.30,WB 0.87' WATER
612-6504,3750622.86,635477.03,-1.08,WB 1.65' WATER
612-6505,3750638.83,635487.78,-0.61,WB 1.18' WATER
612-6506,3750642.24,635489.20,-0.13,WB 0.70' WATER
612-6508,3750643.57,635490.15,0.98,EDGE MARSH
612-6509,3750653.87,635498.49,0.94,EDGE MARSH
612-6511,3750655.74,635499.18,-0.65,WB 1.22' WATER
612-6512,3750658.72,635503.22,-0.96,WB 1.53' WATER
612-6513,3750679.84,635518.23,-0.25,WB 0.82' WATER
612-6514,3750701.06,635532.14,-1.42,WB 1.99' WATER
612-6515,3750720.44,635547.98,-1.49,WB 2.06' WATER
612-6516,3750736.93,635556.70,-1.59,WB 2.16' WATER
612-6517,3750740.88,635561.26,-1.63,WB 2.20' WATER
612-6518,3750744.93,635587.16,-1.67,WB 2.24' WATER
612-6519,3750756.58,635608.79,-1.53,WB 2.10' WATER
612-6520,3750759.82,635633.66,-1.49,WB 2.06' WATER
612-6521,3750768.13,635658.23,-1.09,WB 1.66' WATER
612-6522,3750776.34,635683.22,-0.91,WB 1.48' WATER
612-6523,3750781.74,635708.26,-1.04,WB 1.61' WATER
612-6524,3750776.55,635728.32,-1.29,WB 1.86' WATER
612-6525,3750762.83,635749.62,-1.41,WB 1.98' WATER
612-6526,3750749.75,635773.71,-1.49,WB 2.06' WATER
612-6527,3750740.59,635795.75,-1.52,WB 2.09' WATER
612-6528,3750731.21,635819.87,-1.58,WB 2.15' WATER
612-6529,3750716.09,635840.77,-1.27,WB 1.84' WATER
612-6530,3750697.03,635855.30,-1.28,WB 1.85' WATER
612-6531,3750676.03,635866.20,-1.39,WB 1.96' WATER
612-6532,3750654.75,635878.63,-1.45,WB 2.02' WATER
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612-6533,3750633.16,635888.12,-1.36,WB 1.93' WATER
612-6534,3750605.71,635900.58,-1.45,WB 2.02' WATER
612-6535,3750586.46,635915.04,-1.27,WB 1.84' WATER
612-6536,3750573.15,635921.57,-1.01,WB 1.58' WATER
612-6537,3750565.08,635924.68,-1.10,WB 1.67' WATER
612-6538,3750542.51,635909.97,-1.08,WB 1.65' WATER
612-6539,3750519.67,635908.38,-1.13,WB 1.70' WATER
612-6540,3750493.11,635902.81,-0.93,WB 1.50' WATER
612-6541,3750471.89,635896.07,-0.74,WB 1.31' WATER
612-6542,3750445.67,635886.75,-1.01,WB 1.58' WATER
612-6543,3750420.24,635884.38,-0.57,WB 1.14' WATER
612-6544,3750413.15,635882.51,0.11,WB 0.46' WATER
612-6546,3750411.37,635880.94,0.96,EDGE MARSH
;
;POND D TOP WATER SHOTS
612-6448,3750375.67,635860.26,0.57,TOP WATER
612-6482,3750452.61,635405.31,0.53,TOP WATER
612-6486,3750467.70,635408.47,0.52,TOP WATER
612-6489,3750481.79,635412.45,0.58,TOP WATER
612-6493,3750525.77,635434.50,0.58,TOP WATER
612-6497,3750574.22,635452.03,0.50,TOP WATER
612-6501,3750606.85,635469.43,0.56,TOP WATER
612-6507,3750642.48,635488.55,0.60,TOP WATER
612-6510,3750655.85,635498.66,0.56,TOP WATER
612-6545,3750413.40,635881.46,0.66,TOP WATER
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OFFICE OF COASTAL PROTECTION & RESTORATION
BAYOU BONFOUCA MARSH CREATION (PO-104)
TOPOGRAPHIC, BATHYMETRIC, AND MAGNETOMETER SURVEY
ST. TAMMANY PARISH, LOUISIANA

SURVEYED BY C&C TECHNOLOGIES INC.
DATUMS
HORIZONTAL: NAD 1983 LA. SOUTH ZONE 1702 FEET
VERICAL: NAVD 88 FEET

TRANSECTS

;TRANSECT 01
;0.28' AVG TOP WATER
612-6674,3736929.36,641203.87,-3.68,WB 3.96' WATER
612-6673,3736930.47,641226.24,-2.85,WB 3.13' WATER
612-6672,3736928.09,641254.72,-2.34,WB 2.62' WATER
612-6671,3736927.76,641281.65,-1.75,WB 2.03' WATER
612-6670,3736924.90,641304.63,-0.77,WB 1.05' WATER
612-6669,3736926.34,641328.67,0.17,WB 0.11' WATER
612-6668,3736925.93,641335.73,0.27,WB 0.01' WATER
612-6666,3736929.01,641342.23,1.47,EDGE VEG TOP SAND
612-9,3736927.72,641354.36,1.73,EDGE OF MB
612-10,3736926.30,641378.84,0.81,MB
612-11,3736927.99,641404.26,0.73,MB
612-12,3736926.24,641429.16,0.58,MB
612-13,3736926.81,641453.74,0.72,MB
612-14,3736929.25,641479.55,0.54,MB
612-15,3736930.15,641505.01,0.65,MB
612-16,3736929.70,641530.00,0.55,MB
612-17,3736928.72,641555.47,0.67,MB
612-18,3736926.47,641579.31,0.44,MB
612-19,3736927.20,641602.98,0.35,MB
612-20,3736926.27,641628.13,0.34,MB
612-21,3736926.73,641636.17,0.38,TBK
612-22,3736928.12,641642.99,-0.22,WB 0.50' WATER
612-23,3736926.62,641654.10,0.32,WB
612-24,3736927.98,641656.58,0.62,TBK
612-25,3736926.99,641678.69,0.52,MB
612-26,3736927.80,641704.46,0.66,MB
612-27,3736926.93,641728.60,0.52,MB
612-28,3736926.65,641753.66,0.28,MB
612-29,3736926.41,641766.55,0.46,TBK
612-30,3736927.74,641779.39,-0.11,WB 0.39' WATER
612-31,3736927.30,641788.04,-0.24,WB 0.52' WATER
612-32,3736928.86,641799.26,0.01,WB 0.27' WATER
612-33,3736928.42,641805.19,0.01,WB 0.27' WATER
612-34,3736929.03,641819.09,0.49,TBK
612-35,3736929.16,641829.96,0.47,MB
612-36,3736926.54,641853.66,0.49,MB
612-37,3736927.75,641878.29,0.48,MB
612-38,3736927.24,641900.17,0.71,TBK
612-39,3736928.12,641906.40,0.15,WB 0.13' WATER
612-40,3736926.97,641927.16,0.11,WB 0.17' WATER
612-41,3736928.59,641929.58,0.13,WB 0.15' WATER
612-42,3736927.30,641945.51,0.27,WB 0.01' WATER
612-43,3736929.58,641962.90,0.27,WB 0.01' WATER
612-44,3736929.17,641964.74,0.67,TBK
612-45,3736929.40,641978.72,0.81,MB
612-46,3736927.87,642004.56,0.53,MB
612-47,3736926.53,642028.55,0.41,MB
612-48,3736929.14,642054.29,0.38,MB
612-49,3736927.75,642060.00,0.28,TBK

612-51,3736926.41,642079.73,-0.32,WB 0.60' WATER
612-52,3736927.72,642103.80,-0.21,WB 0.49' WATER
612-53,3736926.60,642129.29,0.09,WB 0.19' WATER
612-54,3736927.15,642154.23,-0.04,WB 0.32' WATER
612-55,3736929.31,642179.15,-0.41,WB 0.69' WATER
612-56,3736929.50,642204.30,-0.26,WB 0.54' WATER
612-57,3736929.82,642229.64,0.18,WB 0.10' WATER
612-58,3736929.61,642254.82,0.27,WB 0.01' WATER
612-59,3736928.70,642278.75,0.06,WB 0.22' WATER
612-60,3736928.64,642304.21,0.22,WB 0.06' WATER
612-62,3736929.33,642323.00,0.48,TBK
612-63,3736927.87,642330.25,0.46,MB
612-64,3736930.17,642353.49,0.35,MB
612-65,3736927.36,642372.40,0.35,TBK
612-67,3736930.07,642379.89,0.07,WB 0.21' WATER
612-68,3736929.20,642403.72,0.04,WB 0.24' WATER
612-69,3736928.69,642429.32,0.03,WB 0.25' WATER
612-70,3736927.77,642454.23,-0.18,WB 0.46' WATER
612-71,3736926.05,642480.57,-0.42,WB 0.70' WATER
612-72,3736929.34,642504.41,-0.55,WB 0.83' WATER
612-73,3736928.38,642530.85,-0.48,WB 0.76' WATER
;
;TRANSECT 01 TOP WATER SHOTS
612-61,3736927.44,642318.32,0.23,TOP WATER
612-50,3736928.72,642061.78,0.20,TOP WATER
612-74,3736929.14,642533.42,0.28,TOP WATER
612-66,3736928.82,642377.11,0.33,TOP WATER
;
;
;TRANSECT 02
;0.27' AVG TOP WATER
612-6664,3737431.24,640988.75,-3.20,WB 3.47' WATER
612-6663,3737425.00,641015.92,-2.48,WB 2.75' WATER
612-6662,3737426.77,641039.37,-2.11,WB 2.38' WATER
612-6661,3737428.72,641065.07,-1.40,WB 1.67' WATER
612-6660,3737427.36,641085.26,-0.60,WB 0.87' WATER
612-158,3737429.22,641093.69,0.72,EDGE OF VEG
612-6657,3737428.78,641094.52,0.95,EDGE-MARSH
612-6656,3737427.21,641114.07,1.13,MB
612-6655,3737425.63,641138.24,1.09,MB
612-6654,3737427.45,641143.65,1.71,EDGE-MARSH
612-155,3737425.01,641167.85,1.21,MB
612-154,3737425.10,641189.90,0.76,MB
612-153,3737430.24,641217.01,0.36,MB
612-152,3737428.94,641242.31,0.58,MB
612-151,3737427.27,641266.41,0.77,MB
612-150,3737426.59,641291.84,0.65,MB
612-149,3737425.78,641316.98,0.52,MB
612-148,3737425.49,641341.81,0.14,MB
612-147,3737427.39,641367.85,0.46,MB
612-146,3737427.26,641392.85,0.57,TBK
612-144,3737427.94,641393.66,0.21,WB 0.06' WATER
612-143,3737426.79,641416.60,-1.10,WB 1.37' WATER
612-142,3737429.19,641439.42,-1.25,WB 1.52' WATER
612-141,3737426.17,641466.39,-0.68,WB 0.95' WATER
612-140,3737426.53,641488.52,0.18,WB 0.09' WATER
612-139,3737426.00,641492.80,0.39,TBK
612-138,3737424.73,641496.48,0.36,TBK
612-137,3737424.70,641498.13,-0.10,WB 0.37' WATER
612-136,3737426.75,641517.16,0.28,TBK
612-135,3737427.20,641528.10,0.44,TBK
612-133,3737427.10,641530.20,-0.03,WB 0.30' WATER
612-132,3737425.29,641542.75,-0.49,WB 0.76' WATER

612-131,3737425.67,641568.87,0.24,WB 0.03' WATER
612-130,3737427.43,641592.55,-0.97,WB 1.24' WATER
612-129,3737427.17,641610.38,-0.05,WB 0.32' WATER
612-128,3737426.41,641613.21,0.41,TBK
612-127,3737427.61,641617.60,0.44,MB
612-126,3737428.47,641638.29,0.34,TBK
612-125,3737426.59,641641.92,-0.86,WB 1.13' WATER
612-123,3737426.67,641658.44,0.53,TBK
612-122,3737426.39,641666.29,0.56,MB
612-121,3737426.47,641692.64,0.77,MB
612-120,3737427.22,641716.70,0.40,MB
612-119,3737425.50,641743.01,0.70,MB
612-118,3737428.35,641765.77,0.31,TBK
612-117,3737428.43,641767.82,0.13,WB 0.14' WATER
612-116,3737430.62,641792.43,-0.36,WB 0.63' WATER
612-114,3737426.56,641807.46,0.50,TBK
612-113,3737426.07,641816.62,0.60,MB
612-112,3737426.31,641821.05,0.43,TBK
612-111,3737426.10,641822.71,-0.18,WB 0.45' WATER
612-110,3737425.73,641842.68,-0.60,WB 0.87' WATER
612-109,3737427.70,641867.04,-0.48,WB 0.75' WATER
612-108,3737427.73,641892.52,-0.16,WB 0.43' WATER
612-107,3737427.22,641916.25,0.53,TBK
612-106,3737427.40,641917.44,0.53,MB
612-105,3737426.89,641942.74,0.51,MB
612-104,3737425.47,641962.11,0.40,TBK
612-102,3737426.10,641967.64,-0.25,WB 0.52' WATER
612-101,3737428.27,641992.71,-0.38,WB 0.65' WATER
612-100,3737431.60,642016.00,-0.37,WB 0.64' WATER
612-99,3737427.44,642042.09,-0.47,WB 0.74' WATER
612-97,3737425.96,642048.42,0.46,TBK
612-96,3737428.43,642066.31,0.47,MB
612-95,3737427.35,642092.10,0.53,MB
612-94,3737426.89,642104.11,0.48,TBK
612-92,3737427.98,642116.11,-0.32,WB 0.59' WATER
612-91,3737428.37,642142.46,-0.21,WB 0.48' WATER
612-90,3737428.26,642167.38,-0.26,WB 0.53' WATER
612-89,3737428.49,642192.15,-0.27,WB 0.54' WATER
612-88,3737428.14,642217.52,-0.21,WB 0.48' WATER
612-87,3737428.16,642241.21,-0.24,WB 0.51' WATER
612-86,3737428.02,642266.92,-0.23,WB 0.50' WATER
612-85,3737427.50,642293.09,-0.17,WB 0.44' WATER
612-84,3737426.90,642318.17,-0.27,WB 0.54' WATER
612-83,3737425.56,642341.64,-0.22,WB 0.49' WATER
612-82,3737427.08,642365.85,-0.26,WB 0.53' WATER
612-81,3737429.91,642391.25,-0.22,WB 0.49' WATER
612-80,3737431.20,642416.85,-0.20,WB 0.47' WATER
612-79,3737430.38,642442.25,-0.23,WB 0.50' WATER
612-78,3737424.90,642467.51,-0.29,WB 0.56' WATER
612-77,3737425.02,642491.24,-0.31,WB 0.58' WATER
612-75,3737428.11,642517.47,-0.30,WB 0.57' WATER
;
;TRANSECT 02 TOP WATER SHOTS
612-145,3737428.27,641394.60,0.29,TOP WATER
612-134,3737427.08,641529.36,0.23,TOP WATER
612-124,3737426.39,641657.81,0.35,TOP WATER
612-115,3737426.70,641807.14,0.28,TOP WATER
612-103,3737425.74,641963.17,0.26,TOP WATER
612-98,3737425.38,642046.61,0.26,TOP WATER
612-93,3737427.26,642106.06,0.29,TOP WATER
612-76,3737428.12,642518.60,0.23,TOP WATER
;
;

;TRANSECT 03
;0.31' AVG TOP WATER
612-6652,3737928.03,640821.81,-1.98,WB 2.29' WATER
612-6651,3737927.54,640849.81,-1.44,WB 1.75' WATER
612-6650,3737928.49,640875.08,-1.07,WB 1.38' WATER
612-6649,3737928.61,640899.96,-0.62,WB 0.93' WATER
612-6648,3737927.94,640923.12,-0.51,WB 0.82' WATER
612-6647,3737927.79,640951.75,-0.52,WB 0.83' WATER
612-160,3737926.47,640973.12,-0.13,WB 0.44' WATER
612-6645,3737927.31,640989.55,0.49,WB
612-6643,3737928.14,640994.19,1.07,EDGE-MARSH
612-162,3737927.64,640998.52,1.05,MB
612-163,3737929.08,641023.26,1.33,MB
612-164,3737928.97,641047.72,2.41,MB
612-165,3737929.91,641074.33,1.17,MB
612-166,3737927.93,641098.04,0.68,MB
612-167,3737927.88,641122.74,0.34,MB
612-168,3737925.97,641149.16,0.43,MB
612-169,3737925.67,641174.92,0.46,MB
612-170,3737926.44,641199.98,0.61,MB
612-171,3737926.05,641223.50,0.61,MB
612-172,3737927.66,641249.88,0.49,MB
612-173,3737927.37,641273.43,0.47,MB
612-174,3737925.64,641300.21,0.67,MB
612-175,3737927.09,641323.59,0.57,MB
612-176,3737926.42,641347.29,0.80,MB
612-177,3737927.49,641373.29,0.57,MB
612-178,3737924.37,641398.87,0.32,MB
612-179,3737926.59,641423.61,0.30,MB
612-180,3737927.09,641437.50,0.31,TBK
612-182,3737927.59,641440.32,-0.35,WB 0.66' WATER
612-183,3737930.37,641448.75,-0.61,WB 0.92' WATER
612-184,3737925.82,641473.72,-0.32,WB 0.63' WATER
612-185,3737927.30,641499.53,-0.42,WB 0.73' WATER
612-186,3737927.91,641524.56,-1.03,WB 1.34' WATER
612-187,3737930.32,641548.35,-0.71,WB 1.02' WATER
612-188,3737927.96,641573.62,-0.46,WB 0.77' WATER
612-189,3737924.63,641598.21,-0.19,WB 0.50' WATER
612-190,3737926.99,641622.79,-0.55,WB 0.86' WATER
612-191,3737926.83,641648.37,0.19,WB 0.12' WATER
612-192,3737929.02,641674.90,0.02,WB 0.29' WATER
612-193,3737927.05,641698.71,-0.13,WB 0.44' WATER
612-194,3737925.29,641723.21,0.23,WB 0.08' WATER
612-195,3737931.45,641737.09,0.04,WB 0.27' WATER
612-196,3737931.02,641739.25,0.36,TBK
612-198,3737926.91,641748.33,0.52,MB
612-199,3737925.98,641772.29,0.55,MB
612-200,3737927.57,641799.56,0.49,MB
612-201,3737927.89,641823.99,0.45,MB
612-202,3737931.46,641849.11,0.58,MB
612-203,3737930.80,641874.53,0.71,MB
612-204,3737929.74,641881.30,0.74,TBK
612-205,3737928.76,641884.89,0.01,WB 0.30' WATER
612-207,3737930.75,641898.60,-0.22,WB 0.53' WATER
612-208,3737926.86,641922.83,-0.38,WB 0.69' WATER
612-209,3737924.23,641948.19,-0.54,WB 0.85' WATER
612-210,3737924.43,641973.09,-0.90,WB 1.21' WATER
612-211,3737924.45,641999.25,-0.80,WB 1.11' WATER
612-212,3737930.42,642022.45,-0.58,WB 0.89' WATER
612-213,3737933.01,642030.05,0.01,WB 0.30' WATER
612-214,3737933.97,642032.03,0.62,TBK
612-216,3737928.13,642048.16,0.61,MB
612-217,3737928.38,642073.67,0.34,MB

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612-218,3737926.13,642097.35,0.11,MB
612-219,3737930.31,642123.77,0.39,MB
612-220,3737929.02,642148.54,0.34,MB
612-221,3737929.37,642173.03,0.65,MB
612-222,3737923.66,642199.45,0.29,MB
612-223,3737928.92,642209.41,0.38,TBK
612-225,3737929.30,642211.65,0.17,WB 0.14' WATER
612-226,3737929.02,642224.75,-0.20,WB 0.51' WATER
612-227,3737931.55,642247.64,-0.21,WB 0.52' WATER
612-228,3737927.39,642274.90,-0.45,WB 0.76' WATER
612-229,3737921.51,642299.40,-0.43,WB 0.74' WATER
612-230,3737930.81,642324.03,-0.46,WB 0.77' WATER
612-231,3737927.29,642346.71,-0.40,WB 0.71' WATER
612-232,3737929.42,642375.26,-0.47,WB 0.78' WATER
612-233,3737931.31,642398.88,-0.37,WB 0.68' WATER
612-234,3737930.07,642423.24,-0.31,WB 0.62' WATER
612-235,3737928.82,642448.12,-0.32,WB 0.63' WATER
612-236,3737925.06,642473.83,-0.29,WB 0.60' WATER
612-237,3737925.50,642499.01,-0.40,WB 0.71' WATER
612-238,3737926.36,642524.18,-0.29,WB 0.60' WATER
612-239,3737926.75,642550.15,-0.16,WB 0.47' WATER
;
;TRANSECT 03 TOP WATER SHOTS
612-240,3737926.17,642550.01,0.33,TOP WATER
612-224,3737929.05,642210.62,0.32,TOP WATER
612-215,3737932.85,642030.52,0.30,TOP WATER
612-206,3737929.01,641883.84,0.34,TOP WATER
612-197,3737931.98,641738.53,0.26,TOP WATER
612-181,3737927.41,641439.00,0.29,TOP WATER
;
;
;TRANSECT 04
;0.29' AVG TOP WATER
612-6641,3738427.60,640482.94,-1.61,WB 1.90' WATER
612-6640,3738428.51,640507.41,-1.77,WB 2.06' WATER
612-6639,3738428.03,640535.30,-1.40,WB 1.69' WATER
612-6638,3738428.41,640557.67,-1.37,WB 1.66' WATER
612-6637,3738427.42,640584.25,-1.29,WB 1.58' WATER
612-6636,3738427.60,640608.15,-0.93,WB 1.22' WATER
612-6635,3738428.22,640635.24,-0.63,WB 0.92' WATER
612-6634,3738424.91,640660.42,-0.78,WB 1.07' WATER
612-6633,3738428.90,640683.67,-0.03,WB 0.32' WATER
612-6632,3738427.99,640707.52,0.48,TOP SAND
612-6630,3738428.15,640715.99,1.67,TOP SAND
612-352,3738428.86,640722.31,2.67,TBK
612-6629,3738426.45,640733.93,2.27,EDGE VEG TOP SAND
612-345,3738425.16,640741.17,3.32,MB
612-344,3738426.98,640767.19,0.72,MB
612-343,3738423.44,640772.77,0.44,TBK
612-341,3738424.36,640775.93,0.12,WB 0.17' WATER
612-340,3738426.82,640792.50,-0.16,WB 0.45' WATER
612-339,3738429.28,640816.13,-0.10,WB 0.39' WATER
612-338,3738429.78,640819.68,0.04,WB 0.25' WATER
612-336,3738429.14,640822.86,0.34,TBK
612-335,3738429.14,640840.50,0.35,MB
612-334,3738427.99,640866.59,0.81,MB
612-333,3738427.86,640890.90,0.82,MB
612-332,3738425.82,640916.18,0.74,MB
612-331,3738428.61,640942.94,0.31,MB
612-330,3738429.01,640972.41,0.43,TBK
612-328,3738428.00,640974.65,-0.02,WB 0.31' WATER
612-327,3738429.35,640992.56,-0.48,WB 0.77' WATER
612-326,3738431.04,641017.82,-0.54,WB 0.83' WATER
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612-325,3738427.68,641041.02,-0.11,WB 0.40' WATER
612-324,3738425.51,641067.53,0.24,WB 0.05' WATER
612-323,3738423.89,641091.48,-0.24,WB 0.53' WATER
612-322,3738429.77,641118.39,-0.52,WB 0.81' WATER
612-321,3738428.36,641142.93,-0.75,WB 1.04' WATER
612-320,3738431.16,641166.26,-0.56,WB 0.85' WATER
612-319,3738429.25,641194.45,-0.61,WB 0.90' WATER
612-318,3738430.36,641218.10,-0.66,WB 0.95' WATER
612-317,3738429.15,641242.66,-0.08,WB 0.37' WATER
612-316,3738428.02,641264.00,-0.07,WB 0.36' WATER
612-315,3738429.21,641290.72,-0.10,WB 0.39' WATER
612-314,3738429.67,641315.61,0.06,WB 0.23' WATER
612-313,3738430.35,641342.28,-0.83,WB 1.12' WATER
612-312,3738431.21,641366.15,-0.80,WB 1.09' WATER
612-311,3738427.98,641390.58,-0.66,WB 0.95' WATER
612-310,3738424.94,641417.26,-0.62,WB 0.91' WATER
612-309,3738431.81,641440.33,0.15,WB 0.14' WATER
612-308,3738430.71,641465.21,0.28,WB 0.01' WATER
612-307,3738430.59,641491.31,0.27,WB 0.02' WATER
612-306,3738430.19,641517.00,-0.79,WB 1.08' WATER
612-305,3738431.35,641541.26,-0.38,WB 0.67' WATER
612-304,3738429.66,641567.87,-0.76,WB 1.05' WATER
612-303,3738430.08,641590.84,-0.87,WB 1.16' WATER
612-302,3738428.76,641616.53,-0.76,WB 1.05' WATER
612-301,3738428.43,641641.89,-0.77,WB 1.06' WATER
612-300,3738428.01,641667.06,0.06,WB 0.23' WATER
612-299,3738431.03,641690.97,0.18,WB 0.11' WATER
612-298,3738431.56,641717.56,-0.82,WB 1.11' WATER
612-297,3738429.69,641739.94,-0.89,WB 1.18' WATER
612-296,3738433.71,641767.83,-0.91,WB 1.20' WATER
612-295,3738430.94,641790.78,-0.78,WB 1.07' WATER
612-294,3738431.03,641817.64,-0.51,WB 0.80' WATER
612-293,3738433.46,641840.14,-0.09,WB 0.38' WATER
612-291,3738433.05,641841.75,0.49,TBK
612-290,3738432.26,641864.51,0.41,MB
612-289,3738431.62,641890.50,0.38,MB
612-288,3738430.44,641915.83,0.51,MB
612-287,3738430.30,641919.82,0.44,TBK
612-285,3738430.72,641923.54,0.14,WB 0.15' WATER
612-284,3738430.65,641943.55,0.15,WB 0.14' WATER
612-283,3738429.63,641965.40,-0.21,WB 0.50' WATER
612-282,3738427.60,641991.40,-0.57,WB 0.86' WATER
612-281,3738427.21,642013.64,0.07,WB 0.22' WATER
612-279,3738427.10,642016.10,0.41,TBK
612-276,3738425.88,642044.39,0.43,TBK
612-275,3738426.39,642066.37,-0.41,WB 0.70' WATER
612-274,3738429.05,642087.73,0.20,WB 0.09' WATER
612-272,3738429.85,642091.64,0.36,TBK
612-271,3738428.68,642117.43,0.38,MB
612-263,3738432.04,642167.20,0.55,TBK
612-262,3738432.19,642168.64,0.14,WB 0.15' WATER
612-261,3738429.39,642190.96,-0.44,WB 0.73' WATER
612-260,3738426.80,642217.12,-0.87,WB 1.16' WATER
612-259,3738423.86,642243.21,-1.00,WB 1.29' WATER
612-258,3738426.55,642267.12,-0.75,WB 1.04' WATER
612-256,3738427.04,642275.05,-0.09,WB 0.38' WATER
612-255,3738426.95,642276.55,0.36,TBK
612-254,3738426.91,642291.67,0.81,MB
612-253,3738427.59,642315.59,0.54,MB
612-252,3738429.23,642342.69,0.51,MB
612-251,3738429.25,642365.50,0.46,MB
612-250,3738429.97,642390.68,0.41,MB
612-249,3738426.18,642417.42,0.38,MB
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612-248,3738426.25,642442.55,0.29,MB
612-247,3738426.37,642466.66,0.43,MB
612-246,3738428.30,642492.81,0.48,MB
612-244,3738428.13,642496.76,0.46,TBK
612-243,3738428.30,642499.40,0.15,WB 0.14' WATER
612-242,3738426.34,642517.66,-0.02,WB 0.31' WATER
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;TRANSECT 04 TOP WATER SHOTS
612-245,3738428.08,642498.33,0.36,TOP WATER
612-257,3738426.87,642275.72,0.22,TOP WATER
612-264,3738432.22,642167.87,0.27,TOP WATER
612-273,3738429.23,642088.12,0.30,TOP WATER
612-277,3738426.85,642046.25,0.22,TOP WATER
612-278,3738427.06,642040.87,0.44,TOP WATER
612-280,3738427.39,642014.02,0.22,TOP WATER
612-286,3738431.31,641923.23,0.30,TOP WATER
612-292,3738433.36,641840.34,0.21,TOP WATER
612-329,3738428.49,640973.95,0.23,TOP WATER
612-337,3738429.11,640821.24,0.24,TOP WATER
612-342,3738423.91,640774.34,0.28,TOP WATER
612-353,3738424.82,640706.00,0.46,TOP WATER
;
;
;TRANSECT 05
;0.31' AVG TOP WATER
612-6627,3738927.35,640242.88,-1.00,WB 1.31' WATER
612-6626,3738927.85,640268.28,-0.76,WB 1.07' WATER
612-6625,3738927.66,640290.98,-0.71,WB 1.02' WATER
612-6624,3738928.38,640317.90,-0.57,WB 0.88' WATER
612-6623,3738928.58,640342.59,-0.44,WB 0.75' WATER
612-6622,3738925.54,640365.38,-0.46,WB 0.77' WATER
612-6621,3738927.78,640393.30,0.26,WB 0.05' WATER
612-6619,3738927.84,640406.36,1.89,TOP_SAND
612-6618,3738929.20,640417.20,1.37,TOP_SAND
612-356,3738927.68,640422.78,2.58,TBK
612-357,3738927.82,640428.69,3.25,EDGE OF VEG
612-6617,3738925.75,640439.45,3.13,TOP_SAND
612-359,3738926.72,640468.74,1.27,MB
612-360,3738928.61,640490.77,0.71,MB
612-361,3738930.46,640516.04,0.54,MB
612-362,3738929.07,640542.57,0.57,MB
612-363,3738927.82,640567.15,0.66,MB
612-364,3738927.40,640592.07,0.53,MB
612-365,3738926.52,640616.17,0.50,MB
612-366,3738927.79,640642.50,0.36,MB
612-367,3738930.29,640666.84,0.49,MB
612-368,3738930.36,640692.12,0.75,MB
612-369,3738929.57,640702.87,0.22,TBK
612-371,3738929.03,640705.78,0.05,WB 0.26' WATER
612-372,3738926.07,640716.97,-0.45,WB 0.76' WATER
612-373,3738927.23,640733.49,-0.18,WB 0.49' WATER
612-375,3738927.30,640735.64,0.44,TBK
612-376,3738928.25,640742.82,0.52,MB
612-377,3738929.87,640767.86,0.39,MB
612-378,3738930.46,640793.27,0.34,MB
612-379,3738928.80,640817.31,0.40,MB
612-380,3738925.74,640844.15,0.17,MB
612-381,3738923.80,640868.80,0.67,MB
612-382,3738927.44,640893.40,0.42,MB
612-383,3738929.51,640919.08,0.33,MB
612-384,3738929.77,640942.84,0.23,MB
612-385,3738926.06,640960.28,0.33,TBK
612-387,3738925.98,640962.05,-0.18,WB 0.49' WATER
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612-388,3738928.53,640967.67,-0.71,WB 1.02' WATER
612-389,3738925.05,640994.02,-0.42,WB 0.73' WATER
612-390,3738929.17,641017.93,-1.01,WB 1.32' WATER
612-391,3738929.11,641043.62,-0.94,WB 1.25' WATER
612-392,3738925.32,641068.65,-0.50,WB 0.81' WATER
612-393,3738926.08,641093.55,0.17,WB 0.14' WATER
612-394,3738929.40,641119.40,-0.91,WB 1.22' WATER
612-395,3738930.39,641142.22,-0.72,WB 1.03' WATER
612-396,3738934.01,641168.26,-0.79,WB 1.10' WATER
612-397,3738928.02,641192.74,-0.62,WB 0.93' WATER
612-398,3738932.83,641216.74,-0.68,WB 0.99' WATER
612-399,3738923.48,641244.58,-0.84,WB 1.15' WATER
612-400,3738925.31,641267.41,-0.82,WB 1.13' WATER
612-401,3738923.81,641292.09,-0.78,WB 1.09' WATER
612-402,3738923.52,641317.98,-0.81,WB 1.12' WATER
612-403,3738923.80,641342.90,-0.58,WB 0.89' WATER
612-404,3738924.74,641366.46,-0.41,WB 0.72' WATER
612-405,3738925.30,641394.29,-0.57,WB 0.88' WATER
612-406,3738925.98,641419.74,-0.53,WB 0.84' WATER
612-407,3738924.87,641443.40,0.23,WB 0.08' WATER
612-408,3738926.82,641469.17,0.23,WB 0.08' WATER
612-409,3738927.32,641493.62,0.19,WB 0.12' WATER
612-410,3738928.42,641519.33,0.13,WB 0.18' WATER
612-411,3738927.32,641543.10,0.17,WB 0.14' WATER
612-412,3738928.91,641567.62,0.21,WB 0.10' WATER
612-413,3738931.20,641593.74,0.14,WB 0.17' WATER
612-414,3738929.56,641604.92,0.51,TBK
612-416,3738928.64,641618.09,0.56,MB
612-417,3738929.40,641643.61,0.31,MB
612-418,3738928.85,641658.38,0.31,TBK 0.00' WATER
612-420,3738929.14,641660.57,-0.03,WB 0.34' WATER
612-421,3738930.87,641667.99,-0.29,WB 0.60' WATER
612-422,3738927.82,641692.87,0.06,WB 0.25' WATER
612-423,3738927.52,641717.08,-0.28,WB 0.59' WATER
612-424,3738931.00,641743.73,0.22,WB 0.09' WATER
612-425,3738928.92,641768.44,-0.20,WB 0.51' WATER
612-426,3738929.73,641792.89,0.03,WB 0.28' WATER
612-427,3738928.52,641816.56,0.30,WB 0.01' WATER
612-428,3738931.06,641835.46,0.45,TBK
612-429,3738928.30,641867.23,0.31,MB
612-430,3738927.37,641893.92,0.32,MB
612-431,3738925.96,641917.10,0.43,MB
612-432,3738927.80,641943.75,0.49,MB
612-433,3738926.52,641955.55,0.38,TBK
612-435,3738927.74,641957.50,-0.01,WB 0.32' WATER
612-436,3738929.19,641966.88,-0.45,WB 0.76' WATER
612-437,3738928.49,641994.46,-0.66,WB 0.97' WATER
612-438,3738926.08,642019.70,-0.92,WB 1.23' WATER
612-439,3738924.28,642043.85,-0.88,WB 1.19' WATER
612-440,3738930.64,642068.58,-0.14,WB 0.45' WATER
612-441,3738932.68,642071.18,0.54,TBK
612-443,3738931.05,642092.54,0.85,MB
612-444,3738924.69,642116.63,0.67,MB
612-445,3738924.39,642143.97,0.97,MB
612-446,3738928.34,642166.80,0.62,MB
612-447,3738929.48,642192.45,0.53,MB
612-448,3738926.67,642217.87,0.52,MB
612-449,3738927.40,642241.99,0.52,MB
612-450,3738928.32,642268.84,0.67,MB
612-451,3738929.13,642293.24,0.31,MB
612-452,3738926.96,642318.98,0.21,MB
612-453,3738924.46,642333.33,0.32,TBK
612-455,3738925.61,642335.69,0.00,WB 0.31' WATER
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612-456,3738926.64,642345.13,-0.14,WB 0.45' WATER
612-457,3738927.78,642368.36,-0.27,WB 0.58' WATER
612-458,3738929.65,642393.43,-0.34,WB 0.65' WATER
612-459,3738927.68,642418.54,-0.35,WB 0.66' WATER
612-460,3738927.06,642442.45,-0.23,WB 0.54' WATER
612-461,3738925.74,642467.52,-0.01,WB 0.32' WATER
612-462,3738926.81,642494.09,0.01,WB 0.30' WATER
612-463,3738927.66,642518.03,-0.04,WB 0.35' WATER
612-464,3738928.65,642542.23,0.07,WB 0.24' WATER
612-465,3738928.81,642567.86,-0.24,WB 0.55' WATER
612-466,3738927.85,642585.66,0.00,WB 0.31' WATER
612-468,3738927.93,642587.72,0.41,TBK
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:TRANSECT 05 TOP WATER SHOTS
612-415,3738929.97,641600.69,0.36,TOP WATER
612-419,3738928.63,641659.74,0.28,TOP WATER
612-434,3738926.92,641956.45,0.27,TOP WATER
612-442,3738931.17,642071.69,0.32,TOP WATER
612-454,3738924.88,642333.65,0.32,TOP WATER
612-355,3738930.58,640401.55,0.39,TOP WATER
612-370,3738929.27,640704.50,0.23,TOP WATER
612-374,3738927.41,640734.92,0.31,TOP WATER
612-386,3738925.77,640960.77,0.25,TOP WATER
612-467,3738927.46,642587.04,0.34,TOP WATER
;
;
;TRANSECT 06
;0.41' AVG TOP WATER
612-6615,3739429.14,639803.56,-2.47,WB 2.87' WATER
612-6614,3739426.41,639827.22,-1.71,WB 2.11' WATER
612-6613,3739427.61,639854.89,-0.85,WB 1.25' WATER
612-6612,3739427.98,639877.49,-0.46,WB 0.86' WATER
612-6611,3739426.63,639904.81,-0.08,WB 0.48' WATER
612-6610,3739428.02,639926.48,-0.17,WB 0.57' WATER
612-6609,3739428.01,639955.14,-0.07,WB 0.47' WATER
612-469,3739428.30,639977.85,0.13,WB 0.27' WATER
612-6607,3739429.18,640003.03,0.51,WB
612-6605,3739428.86,640028.11,1.50,EDGE-MARSH
612-473,3739428.51,640052.70,2.38,MB
612-474,3739425.04,640076.70,2.53,MB
612-475,3739429.10,640102.97,2.24,MB
612-476,3739429.57,640127.80,2.17,MB
612-477,3739424.98,640151.45,1.93,MB
612-478,3739429.05,640177.16,2.16,MB
612-479,3739427.41,640204.66,1.24,MB
612-480,3739426.99,640227.97,0.61,MB
612-481,3739427.51,640252.52,0.61,MB
612-482,3739428.44,640278.31,0.76,MB
612-483,3739425.64,640301.54,0.53,MB
612-484,3739426.78,640325.56,0.54,MB
612-485,3739427.37,640352.69,0.63,MB
612-486,3739427.95,640377.29,0.44,MB
612-487,3739426.26,640402.25,0.37,MB
612-488,3739428.13,640426.81,0.25,MB
612-489,3739429.15,640451.05,0.47,MB
612-490,3739428.50,640477.99,0.60,MB
612-491,3739428.22,640501.31,0.43,MB
612-492,3739429.80,640526.19,0.36,MB
612-493,3739428.29,640552.03,0.55,MB
612-494,3739429.79,640577.51,0.49,MB
612-495,3739426.87,640602.20,0.38,MB
612-496,3739426.25,640627.84,0.40,MB
612-497,3739425.46,640654.52,0.35,MB
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612-500,3739426.68,640723.86,0.63,TBK
612-502,3739425.91,640728.80,0.10,WB 0.30' WATER
612-503,3739427.36,640728.47,0.01,WB 0.39' WATER
612-504,3739428.26,640738.35,0.17,WB 0.23' WATER
612-505,3739427.83,640740.77,0.32,TBK
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612-508,3739427.14,640776.71,0.56,MB
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612-510,3739428.50,640827.82,0.56,MB
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612-513,3739429.93,640855.11,0.18,WB 0.22' WATER
612-514,3739430.29,640878.02,0.20,WB 0.20' WATER
612-515,3739432.44,640900.98,0.29,WB 0.11' WATER
612-516,3739433.99,640927.97,-0.27,WB 0.67' WATER
612-517,3739429.51,640953.27,0.31,WB 0.09' WATER
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612-519,3739428.37,641002.29,-0.64,WB 1.04' WATER
612-520,3739430.74,641028.00,-0.61,WB 1.01' WATER
612-521,3739432.30,641052.25,-0.57,WB 0.97' WATER
612-522,3739431.14,641077.78,-0.64,WB 1.04' WATER
612-523,3739429.15,641102.93,-0.47,WB 0.87' WATER
612-524,3739427.61,641127.07,-0.61,WB 1.01' WATER
612-525,3739427.09,641152.52,-0.73,WB 1.13' WATER
612-526,3739426.22,641176.99,-0.67,WB 1.07' WATER
612-527,3739427.09,641201.44,-0.42,WB 0.82' WATER
612-528,3739427.33,641228.74,-0.42,WB 0.82' WATER
612-529,3739429.46,641251.36,-0.45,WB 0.85' WATER
612-530,3739429.92,641277.76,-0.37,WB 0.77' WATER
612-531,3739430.76,641297.48,0.26,WB 0.14' WATER
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612-542,3739425.86,641503.26,0.62,MB
612-543,3739427.86,641526.47,0.50,MB
612-544,3739428.40,641551.30,0.52,MB
612-545,3739430.05,641565.59,0.56,TBK
612-547,3739430.21,641568.08,-0.04,WB
612-548,3739429.95,641578.71,-0.19,WB
612-549,3739430.09,641601.90,-0.60,WB
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612-553,3739427.71,641666.67,0.92,TBK
612-555,3739428.39,641677.72,1.00,MB
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612-560,3739429.95,641801.28,0.40,MB
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612-562,3739430.23,641852.58,0.08,MB
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612-564,3739426.14,641903.20,0.55,MB
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612-566,3739423.72,641953.34,0.47,MB
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612-567,3739427.59,641977.54,0.56,MB
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612-569,3739428.43,642026.76,-0.15,MB
612-570,3739428.80,642052.71,0.38,MB
612-571,3739426.98,642076.50,0.83,MB
612-572,3739427.09,642103.25,0.61,MB
612-573,3739427.19,642127.58,0.43,MB
612-574,3739427.13,642150.13,0.72,MB
612-575,3739426.42,642177.43,0.54,MB
612-576,3739427.63,642200.32,0.74,MB
612-577,3739429.26,642227.40,0.78,MB
612-578,3739429.51,642252.72,0.45,MB
612-579,3739426.42,642277.01,1.07,MB
612-580,3739427.91,642301.74,0.73,MB
612-581,3739433.39,642327.04,0.58,MB
612-582,3739430.44,642353.16,0.55,MB
612-583,3739428.92,642377.33,0.68,MB
612-584,3739427.13,642402.74,0.58,MB
612-585,3739427.41,642427.30,0.66,MB
612-586,3739428.71,642451.73,0.44,TBK
612-587,3739427.61,642477.30,-0.19,WB 0.59' WATER
612-588,3739430.33,642504.66,-0.40,WB 0.80' WATER
612-589,3739427.15,642530.42,-0.35,WB 0.75' WATER
;
:TRANSECT 06 TOP WATER SHOTS
612-774,3739933.23,641831.97,0.34,TOP WATER
612-783,3739931.85,641987.25,0.45,TOP WATER
612-796,3739932.99,642262.18,0.49,TOP WATER
612-805,3739938.78,642409.49,0.5,TOP WATER
612-809,3739936.98,642474.89,0.51,TOP WATER
612-596,3739936.40,639596.24,0.38,TOP WATER
612-614,3739930.14,639944.24,0.34,TOP WATER
612-618,3739925.13,639973.98,0.39,TOP WATER
612-622,3739933.11,640031.31,0.35,TOP WATER
612-636,3739932.71,640309.37,0.35,TOP WATER
612-650,3739929.88,640619.86,0.41,TOP WATER
612-662,3739933.75,640819.19,0.33,TOP WATER
612-671,3739936.79,641001.96,0.31,TOP WATER
612-677,3739934.09,641101.14,0.4,TOP WATER
612-685,3739936.16,641252.45,0.38,TOP WATER
612-704,3739931.94,641640.71,0.43,TOP WATER
;
;
;TRANSECT 07
;0.40' AVG TOP WATER
612-6603,3739927.77,639482.06,-2.98,WB 3.38' WATER
612-6602,3739927.29,639506.58,-2.63,WB 3.03' WATER
612-6601,3739928.41,639530.85,-2.16,WB 2.56' WATER
612-6600,3739928.10,639561.18,-0.95,WB 1.35' WATER
612-6599,3739926.35,639581.22,-0.40,WB 0.80' WATER
612-6598,3739927.09,639603.12,0.27,WB 0.13' WATER
612-6596,3739928.38,639630.21,1.59,TOP_SAND
612-598,3739928.83,639636.95,1.81,EDGE OF VEG
612-599,3739928.31,639642.99,2.42,TBK
612-600,3739928.49,639655.08,2.59,MB
612-601,3739929.39,639680.06,2.55,MB
612-602,3739926.74,639704.94,0.82,MB
612-603,3739928.45,639729.59,0.63,MB
612-604,3739928.07,639754.61,0.96,MB
612-605,3739926.66,639779.87,0.98,MB
612-606,3739927.47,639804.88,0.84,MB
612-607,3739928.34,639830.55,0.82,MB
612-608,3739928.44,639854.86,0.85,MB
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612-609,3739929.87,639879.88,0.82,MB
612-610,3739929.93,639905.22,0.74,MB
612-611,3739931.23,639930.51,0.56,MB
612-612,3739930.70,639943.76,0.80,TBK
612-613,3739929.59,639944.66,-0.08,WB 0.48' WATER
612-615,3739930.01,639954.93,-0.32,WB 0.72' WATER
612-616,3739926.49,639972.86,-0.08,WB 0.48' WATER
612-617,3739926.06,639975.41,0.44,TBK
612-619,3739924.97,639981.50,0.32,MB 0.08' WATER
612-620,3739923.41,640004.63,0.53,MB
612-621,3739932.89,640030.30,0.38,TBK
612-623,3739933.90,640032.26,-0.03,WB 0.43' WATER
612-624,3739931.50,640055.83,-0.47,WB 0.87' WATER
612-625,3739931.36,640082.31,-0.76,WB 1.16' WATER
612-626,3739931.27,640106.18,-0.70,WB 1.10' WATER
612-627,3739931.66,640130.44,-0.79,WB 1.19' WATER
612-628,3739931.37,640158.07,-0.74,WB 1.14' WATER
612-629,3739932.09,640180.66,-0.63,WB 1.03' WATER
612-630,3739931.13,640204.98,-0.79,WB 1.19' WATER
612-631,3739931.71,640230.89,-0.93,WB 1.33' WATER
612-632,3739932.64,640256.81,-0.86,WB 1.26' WATER
612-633,3739932.51,640280.95,-0.83,WB 1.23' WATER
612-634,3739933.55,640305.57,-0.38,WB 0.78' WATER
612-635,3739933.51,640310.70,0.45,TBK
612-637,3739931.80,640328.50,0.36,MB
612-638,3739928.91,640357.05,-0.65,MB
612-639,3739928.76,640380.44,0.41,MB
612-640,3739928.19,640404.69,0.42,MB
612-641,3739931.59,640430.92,0.50,MB
612-642,3739932.24,640455.98,0.64,MB
612-643,3739929.91,640478.95,0.69,MB
612-644,3739929.19,640504.83,0.50,MB
612-645,3739928.93,640530.04,-0.41,MB
612-646,3739927.66,640550.96,-0.27,MB
612-647,3739928.81,640581.54,0.68,MB
612-648,3739928.20,640605.63,0.42,MB
612-649,3739929.94,640619.35,0.47,TBK
612-651,3739930.43,640622.17,-0.30,WB 0.70' WATER
612-652,3739930.45,640630.94,-0.23,WB 0.63' WATER
612-653,3739929.33,640659.30,-0.06,WB 0.46' WATER
612-654,3739930.17,640681.09,-0.86,WB 1.26' WATER
612-655,3739932.11,640704.98,-1.00,WB 1.40' WATER
612-656,3739932.87,640732.18,-1.66,WB 2.06' WATER
612-657,3739933.13,640757.49,-1.87,WB 2.27' WATER
612-658,3739934.60,640781.75,-1.89,WB 2.29' WATER
612-659,3739935.20,640805.05,-1.26,WB 1.66' WATER
612-660,3739934.80,640818.69,-0.04,WB 0.44' WATER
612-661,3739934.70,640819.46,0.53,TBK
612-663,3739932.51,640828.86,0.64,MB
612-664,3739929.95,640855.84,0.46,MB
612-665,3739933.62,640880.25,0.44,MB
612-666,3739933.57,640907.02,0.52,MB
612-667,3739933.92,640930.77,0.49,MB
612-668,3739933.57,640953.68,0.70,MB
612-669,3739934.91,640979.15,0.19,MB
612-670,3739936.29,641001.48,0.56,TBK
612-672,3739936.51,641004.38,-0.34,WB 0.74' WATER
612-673,3739932.45,641027.71,-0.80,WB 1.20' WATER
612-674,3739929.66,641054.69,-0.79,WB 1.19' WATER
612-675,3739933.70,641080.88,-0.63,WB 1.03' WATER
612-676,3739934.43,641102.27,0.46,TBK
612-678,3739933.38,641107.82,0.43,MB
612-679,3739934.92,641129.81,0.45,MB
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612-680,3739933.93,641154.01,0.29,MB
612-681,3739935.91,641182.16,0.44,MB
612-682,3739935.78,641207.93,0.56,MB
612-683,3739936.76,641231.68,0.45,MB
612-684,3739936.80,641252.06,0.44,TBK
612-686,3739937.06,641255.50,0.11,WB 0.29' WATER
612-687,3739933.83,641280.35,-0.33,WB 0.73' WATER
612-688,3739928.69,641303.25,-0.54,WB 0.94' WATER
612-689,3739927.59,641331.62,0.07,WB 0.33' WATER
612-690,3739936.76,641356.31,-0.38,WB 0.78' WATER
612-691,3739935.51,641380.07,-0.46,WB 0.86' WATER
612-692,3739930.95,641404.49,-0.03,WB 0.43' WATER
612-693,3739929.81,641429.96,0.31,WB 0.09' WATER
612-694,3739931.62,641455.25,-0.14,WB 0.54' WATER
612-695,3739934.09,641482.61,0.36,WB 0.04' WATER
612-696,3739938.12,641504.29,-0.56,WB 0.96' WATER
612-697,3739938.09,641529.15,-0.43,WB 0.83' WATER
612-698,3739936.77,641555.96,-0.59,WB 0.99' WATER
612-699,3739935.27,641580.08,0.33,WB 0.07' WATER
612-700,3739932.98,641605.14,0.27,WB 0.13' WATER
612-701,3739931.28,641631.36,-0.05,WB 0.45' WATER
612-702,3739932.15,641638.24,0.03,WB 0.37' WATER
612-703,3739931.92,641641.52,0.49,TBK
612-765,3739933.46,641645.06,0.38,MB
612-766,3739934.94,641657.30,0.34,MB
612-767,3739927.30,641682.43,0.32,MB
612-768,3739928.98,641706.19,0.49,MB
612-769,3739932.18,641730.32,0.29,MB
612-770,3739935.58,641756.15,0.53,MB
612-771,3739936.33,641781.32,0.56,MB
612-772,3739934.96,641807.28,0.35,MB
612-773,3739933.83,641830.79,0.48,TBK
612-775,3739933.26,641833.04,-0.01,WB 0.41' WATER
612-776,3739933.43,641855.87,0.17,WB 0.23' WATER
612-777,3739932.51,641880.50,0.37,WB 0.03' WATER
612-778,3739929.95,641905.28,0.18,WB 0.22' WATER
612-779,3739928.95,641931.26,0.23,WB 0.17' WATER
612-780,3739932.12,641957.33,0.06,WB 0.34' WATER
612-781,3739932.26,641981.53,0.28,WB 0.12' WATER
612-782,3739931.89,641988.54,0.84,TBK
612-784,3739932.77,642004.23,0.55,MB
612-785,3739933.70,642031.31,0.32,MB
612-786,3739935.13,642056.39,0.36,MB
612-787,3739937.39,642080.91,0.26,MB
612-788,3739939.04,642104.68,0.47,MB
612-789,3739938.41,642134.06,0.48,MB
612-790,3739939.23,642155.13,0.44,MB
612-791,3739935.76,642180.10,0.67,MB
612-792,3739933.39,642205.99,0.47,MB
612-793,3739929.37,642229.79,0.43,MB
612-794,3739931.80,642254.31,0.60,MB
612-795,3739932.69,642261.57,0.61,TBK
612-797,3739933.11,642263.47,0.14,WB 0.26' WATER
612-798,3739934.52,642279.59,0.00,WB 0.40' WATER
612-799,3739935.30,642304.55,0.34,WB 0.06' WATER
612-800,3739940.01,642330.14,0.23,WB 0.17' WATER
612-801,3739937.85,642352.92,-0.47,WB 0.87' WATER
612-802,3739941.82,642379.76,-0.45,WB 0.85' WATER
612-803,3739940.15,642405.17,-0.69,WB 1.09' WATER
612-804,3739939.86,642408.70,0.52,TBK
612-806,3739938.74,642430.49,0.54,MB
612-807,3739933.04,642454.26,0.49,MB
612-808,3739936.40,642474.27,0.90,TBK
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612-810,3739937.38,642476.36,-0.51,WB 0.91' WATER
612-811,3739937.05,642483.78,-0.40,WB 0.80' WATER
612-812,3739936.80,642505.42,-0.86,WB 1.26' WATER
612-813,3739933.25,642531.11,-0.89,WB 1.29' WATER
612-814,3739934.41,642556.69,-0.78,WB 1.18' WATER
;
:TRANSECT 07 TOP WATER SHOTS
612-774,3739933.23,641831.97,0.34,TOP WATER
612-783,3739931.85,641987.25,0.45,TOP WATER
612-796,3739932.99,642262.18,0.49,TOP WATER
612-805,3739938.78,642409.49,0.50,TOP WATER
612-809,3739936.98,642474.89,0.51,TOP WATER
612-596,3739936.40,639596.24,0.38,TOP WATER
612-614,3739930.14,639944.24,0.34,TOP WATER
612-618,3739925.13,639973.98,0.39,TOP WATER
612-622,3739933.11,640031.31,0.35,TOP WATER
612-636,3739932.71,640309.37,0.35,TOP WATER
612-650,3739929.88,640619.86,0.41,TOP WATER
612-662,3739933.75,640819.19,0.33,TOP WATER
612-671,3739936.79,641001.96,0.31,TOP WATER
612-677,3739934.09,641101.14,0.40,TOP WATER
612-685,3739936.16,641252.45,0.38,TOP WATER
612-704,3739931.94,641640.71,0.43,TOP WATER
;
;
;TRANSECT 08
;0.40' AVG TOP WATER
612-6593,3740414.77,639343.86,-2.25,WB 2.65' WATER
612-6592,3740418.78,639362.55,-2.15,WB 2.55' WATER
612-6591,3740418.34,639392.58,-1.62,WB 2.02' WATER
612-6590,3740419.04,639419.04,-0.95,WB 1.35' WATER
612-6589,3740421.10,639441.26,0.06,WB 0.34' WATER
612-6588,3740419.36,639458.97,0.51,TOP_SAND
612-6587,3740419.67,639465.33,0.63,TOP_SAND
612-817,3740421.13,639478.80,1.51,EDGE OF VEG
612-818,3740418.30,639488.59,2.52,TBK
612-819,3740419.24,639491.69,2.37,MB
612-820,3740423.41,639517.81,0.63,MB
612-821,3740423.89,639542.04,0.55,MB
612-822,3740420.36,639568.49,0.66,MB
612-823,3740421.46,639591.08,0.76,MB
612-824,3740421.09,639616.65,0.55,MB
612-825,3740422.53,639643.04,0.74,MB
612-826,3740420.51,639666.16,0.85,MB
612-827,3740417.66,639690.84,1.40,MB
612-828,3740420.36,639716.85,1.36,MB
612-829,3740422.31,639742.58,0.61,MB
612-830,3740421.85,639767.91,0.36,MB
612-831,3740420.39,639792.55,0.32,MB
612-832,3740421.10,639817.49,0.23,TBK
612-834,3740421.58,639819.30,-0.10,WB 0.50' WATER
612-835,3740422.26,639844.37,-0.59,WB 0.99' WATER
612-836,3740421.38,639854.68,0.19,WB 0.21' WATER
612-837,3740421.55,639855.67,0.51,TBK
612-839,3740423.69,639869.05,0.48,MB
612-840,3740425.21,639891.80,0.00,MB
612-841,3740424.23,639916.82,-0.04,MB
612-842,3740420.19,639938.27,0.45,MB
612-844,3740421.92,639943.33,-0.27,WB 0.67' WATER
612-845,3740424.00,639968.78,-0.16,WB 0.56' WATER
612-846,3740429.34,639992.41,0.20,WB 0.20' WATER
612-847,3740426.17,640017.97,-0.83,WB 1.23' WATER
612-848,3740422.09,640042.29,0.20,WB 0.20' WATER
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612-849,3740423.04,640067.53,-0.59,WB 0.99' WATER
612-850,3740425.21,640091.50,-0.66,WB 1.06' WATER
612-851,3740426.80,640117.22,-0.16,WB 0.56' WATER
612-852,3740424.35,640124.21,0.03,WB 0.37' WATER
612-853,3740424.26,640125.48,0.54,TBK
612-855,3740429.28,640145.34,0.34,MB
612-856,3740426.33,640168.28,0.46,MB
612-857,3740424.19,640194.14,0.59,MB
612-858,3740423.83,640217.38,0.44,MB
612-859,3740422.80,640241.35,0.49,TBK
612-861,3740422.99,640245.46,0.25,WB 0.15' WATER
612-862,3740422.51,640267.21,0.08,WB 0.32' WATER
612-863,3740423.56,640292.00,0.26,WB 0.14' WATER
612-864,3740425.17,640317.39,-0.61,WB 1.01' WATER
612-865,3740423.89,640342.61,-0.56,WB 0.96' WATER
612-866,3740422.95,640369.27,-0.61,WB 1.01' WATER
612-867,3740423.77,640391.29,-0.02,WB 0.42' WATER
612-868,3740423.07,640417.77,-0.35,WB 0.75' WATER
612-869,3740422.19,640428.18,-0.09,WB 0.49' WATER
612-870,3740421.73,640430.89,0.45,TBK
612-872,3740419.73,640442.07,0.32,MB
612-873,3740423.98,640467.94,0.30,MB
612-874,3740426.04,640492.85,0.14,MB
612-875,3740429.05,640518.50,0.27,MB
612-876,3740429.57,640542.20,0.37,MB
612-877,3740429.95,640568.10,0.30,MB
612-878,3740429.61,640593.52,0.42,MB
612-879,3740428.83,640619.00,0.53,MB
612-880,3740429.83,640641.31,0.40,MB
612-881,3740429.88,640667.01,0.35,MB
612-882,3740423.87,640692.32,0.66,MB
612-883,3740423.49,640713.92,0.71,TBK
612-885,3740422.24,640714.50,-0.08,WB 0.48' WATER
612-886,3740422.07,640716.86,-0.06,WB 0.46' WATER
612-887,3740419.80,640739.42,-0.91,WB 1.31' WATER
612-888,3740427.19,640768.91,-0.95,WB 1.35' WATER
612-889,3740432.90,640793.13,-1.14,WB 1.54' WATER
612-890,3740432.69,640818.73,-1.79,WB 2.19' WATER
612-891,3740428.45,640845.09,-2.37,WB 2.77' WATER
612-892,3740425.56,640869.00,-2.50,WB 2.90' WATER
612-893,3740422.39,640894.19,-2.97,WB 3.37' WATER
612-894,3740424.59,640917.34,-1.99,WB 2.39' WATER
612-895,3740429.94,640942.16,-1.79,WB 2.19' WATER
612-896,3740433.74,640968.52,-1.54,WB 1.94' WATER
612-897,3740436.31,640992.58,-0.78,WB 1.18' WATER
612-898,3740436.63,640998.70,-0.14,WB 0.54' WATER
612-899,3740435.80,641002.35,0.46,TBK
612-901,3740432.94,641016.40,0.50,MB
612-902,3740433.53,641040.11,0.54,MB
612-903,3740431.95,641067.63,0.43,MB
612-904,3740429.00,641092.39,0.72,MB
612-905,3740428.82,641114.97,0.45,TBK
612-906,3740429.78,641117.09,0.32,WB 0.08' WATER
612-909,3740428.95,641167.65,-0.48,WB 0.88' WATER
612-910,3740428.16,641193.60,0.11,WB 0.29' WATER
612-911,3740431.74,641217.54,-0.71,WB 1.11' WATER
612-912,3740438.39,641243.76,-0.72,WB 1.12' WATER
612-913,3740435.15,641270.55,-0.44,WB 0.84' WATER
612-914,3740434.04,641292.72,-0.73,WB 1.13' WATER
612-915,3740429.13,641315.46,-0.27,WB 0.67' WATER
612-916,3740427.35,641340.80,-0.58,WB 0.98' WATER
612-917,3740431.43,641369.17,-0.62,WB 1.02' WATER
612-918,3740435.94,641393.25,-0.69,WB 1.09' WATER
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612-919,3740438.02,641418.19,-0.54,WB 0.94' WATER
612-920,3740430.90,641442.60,-0.49,WB 0.89' WATER
612-921,3740428.25,641466.87,-0.56,WB 0.96' WATER
612-922,3740428.24,641491.57,-0.47,WB 0.87' WATER
612-923,3740430.41,641517.42,-0.30,WB 0.70' WATER
612-924,3740431.65,641541.96,-0.16,WB 0.56' WATER
612-925,3740431.23,641546.17,0.55,TBK
612-927,3740431.93,641565.09,0.59,TBK
612-929,3740432.50,641566.54,0.02,WB 0.38' WATER
612-930,3740433.74,641591.75,-0.51,WB 0.91' WATER
612-931,3740434.62,641603.73,0.75,TBK
612-932,3740436.95,641617.81,0.55,MB
612-933,3740435.70,641641.66,0.58,MB
612-934,3740433.40,641656.93,0.56,TBK
612-936,3740432.15,641660.38,-0.17,WB 0.57' WATER
612-937,3740430.00,641667.87,-0.13,WB 0.53' WATER
612-938,3740430.36,641692.27,-0.09,WB 0.49' WATER
612-939,3740433.17,641717.95,-0.24,WB 0.64' WATER
612-940,3740438.01,641746.20,-0.38,WB 0.78' WATER
612-941,3740436.69,641768.32,-0.33,WB 0.73' WATER
612-942,3740433.07,641791.76,-0.35,WB 0.75' WATER
612-943,3740431.89,641817.96,-0.29,WB 0.69' WATER
612-944,3740428.95,641842.47,-0.54,WB 0.94' WATER
612-945,3740428.30,641874.00,-0.72,WB 1.12' WATER
612-946,3740433.06,641893.87,-0.71,WB 1.11' WATER
612-947,3740435.75,641917.06,-0.90,WB 1.30' WATER
612-948,3740437.63,641941.41,0.37,WB 0.03' WATER
612-949,3740435.26,641967.28,-0.30,WB 0.70' WATER
612-950,3740432.68,641991.95,-0.43,WB 0.83' WATER
612-951,3740435.19,642018.09,0.34,WB 0.06' WATER
612-952,3740441.49,642041.75,-0.49,WB 0.89' WATER
612-953,3740438.58,642067.21,-0.59,WB 0.99' WATER
612-954,3740434.72,642092.70,-0.60,WB 1.00' WATER
612-955,3740432.98,642118.09,-0.74,WB 1.14' WATER
612-956,3740432.26,642143.79,-0.77,WB 1.17' WATER
612-957,3740434.08,642168.01,-0.89,WB 1.29' WATER
612-958,3740437.15,642190.48,-0.92,WB 1.32' WATER
612-959,3740440.55,642217.72,-0.85,WB 1.25' WATER
612-960,3740442.03,642243.42,-0.88,WB 1.28' WATER
612-961,3740439.11,642271.12,-0.79,WB 1.19' WATER
612-962,3740433.98,642291.39,-0.73,WB 1.13' WATER
612-963,3740432.67,642317.88,-0.92,WB 1.32' WATER
612-964,3740436.50,642343.47,-0.85,WB 1.25' WATER
612-965,3740440.20,642369.54,-0.79,WB 1.19' WATER
612-966,3740439.68,642391.92,-0.62,WB 1.02' WATER
612-967,3740440.11,642417.39,-0.63,WB 1.03' WATER
612-968,3740440.00,642442.35,-0.52,WB 0.92' WATER
612-969,3740440.17,642467.99,-0.56,WB 0.96' WATER
612-970,3740440.18,642492.13,-0.44,WB 0.84' WATER
612-971,3740439.87,642516.00,-0.27,WB 0.67' WATER
612-972,3740438.77,642541.69,-0.26,WB 0.66' WATER
612-973,3740439.26,642567.51,-0.28,WB 0.68' WATER
;
:TRANSECT 08 TOP WATER SHOTS
612-833,3740420.93,639816.75,0.24,TOP WATER
612-838,3740421.71,639854.97,0.36,TOP WATER
612-843,3740420.99,639940.26,0.33,TOP WATER
612-854,3740423.53,640124.51,0.36,TOP WATER
612-860,3740422.36,640242.88,0.36,TOP WATER
612-871,3740421.20,640430.83,0.40,TOP WATER
612-884,3740422.84,640712.68,0.36,TOP WATER
612-900,3740435.40,641001.23,0.37,TOP WATER
612-908,3740429.66,641142.31,0.28,TOP WATER
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612-907,3740429.47,641115.47,0.43,TOP WATER
612-926,3740430.86,641545.32,0.53,TOP WATER
612-928,3740432.32,641565.45,0.40,TOP WATER
612-816,3740420.67,639453.70,0.62,TOP WATER
612-935,3740431.32,641656.42,0.60,TOP WATER
612-974,3740444.31,642554.86,0.43,TOP WATER
;
;
;TRANSECT 09
;0.64' AVG TOP WATER
612-6576,3740936.09,639226.76,-2.30,WB 2.94' WATER
612-6578,3740937.51,639248.82,-2.07,WB 2.71' WATER
612-6579,3740937.55,639276.54,-1.58,WB 2.22' WATER
612-6580,3740935.29,639299.05,-1.23,WB 1.87' WATER
612-6581,3740937.06,639323.57,-1.12,WB 1.76' WATER
612-6582,3740935.72,639348.97,-0.40,WB 1.04' WATER
612-6583,3740935.84,639367.50,0.12,WB 0.52' WATER
612-6585,3740936.30,639373.60,0.68,EDGE-MARSH
612-978,3740936.56,639381.96,1.71,EDGE OF VEG
612-979,3740937.95,639385.73,2.53,TBK
612-980,3740936.40,639400.05,2.29,MB
612-981,3740938.77,639424.85,2.41,MB
612-982,3740941.00,639448.68,0.94,MB
612-983,3740936.88,639474.66,0.78,MB
612-984,3740935.97,639498.91,0.75,MB
612-985,3740938.42,639525.12,0.43,MB
612-986,3740941.37,639552.78,0.76,MB
612-987,3740939.88,639572.09,0.49,MB
612-988,3740937.58,639600.35,0.50,MB
618-1879,3740936.27,639616.73,0.84,MB
618-1878,3740937.11,639642.45,0.78,MB
618-1877,3740936.67,639667.04,0.65,MB
618-1876,3740938.11,639692.58,1.19,MB
618-1875,3740938.07,639716.99,0.48,MB
618-1874,3740939.05,639741.94,0.54,MB
618-1873,3740939.84,639767.09,0.61,MB
618-1871,3740936.50,639791.39,0.69,TBK
618-1870,3740937.38,639817.36,0.12,WB 0.52' WATER
618-1869,3740939.04,639841.70,0.73,WB
618-1868,3740932.55,639866.88,-0.25,WB 0.89' WATER
618-1867,3740928.87,639891.29,-0.28,WB 0.92' WATER
618-1866,3740932.30,639917.38,-0.27,WB 0.91' WATER
618-1865,3740942.21,639941.38,-0.64,WB 1.28' WATER
618-1863,3740940.24,639960.34,0.60,TBK 0.04' WATER
618-1862,3740940.97,639967.04,0.86,MB
618-1861,3740938.81,639992.72,0.86,MB
618-1860,3740935.47,640016.96,1.02,MB
618-1859,3740934.56,640041.56,0.82,MB
618-1858,3740937.42,640066.87,0.80,MB
618-1857,3740936.78,640092.63,0.75,MB
618-1856,3740934.97,640117.50,0.64,MB 0.00' WATER
618-1855,3740935.61,640142.57,0.74,MB
618-1853,3740931.51,640161.70,0.88,TBK
618-1852,3740931.89,640166.92,0.63,WB 0.01' WATER
618-1851,3740934.15,640191.02,0.48,WB 0.16' WATER
618-1850,3740935.09,640218.00,-0.33,WB 0.97' WATER
618-1849,3740930.35,640241.99,0.15,WB 0.49' WATER
618-1848,3740933.22,640267.67,-0.21,WB 0.85' WATER
618-1847,3740934.64,640291.80,-0.31,WB 0.95' WATER
618-1846,3740941.06,640317.09,-0.40,WB 1.04' WATER
618-1845,3740937.96,640341.93,-0.50,WB 1.14' WATER
618-1844,3740936.40,640367.30,-0.39,WB 1.03' WATER
618-1843,3740934.82,640392.24,-0.56,WB 1.20' WATER

618-1842,3740934.15,640417.67,-0.61,WB 1.25' WATER
618-1841,3740933.41,640441.83,-0.63,WB 1.27' WATER
618-1840,3740933.15,640467.31,-0.37,WB 1.01' WATER
618-1839,3740933.47,640491.76,-0.63,WB 1.27' WATER
618-1838,3740927.80,640516.42,-0.20,WB 0.84' WATER
618-1837,3740929.46,640542.02,-0.89,WB 1.53' WATER
618-1836,3740931.65,640566.44,-0.77,WB 1.41' WATER
618-1835,3740933.82,640591.38,-0.69,WB 1.33' WATER
618-1834,3740934.79,640616.71,-0.54,WB 1.18' WATER
618-1833,3740934.05,640641.57,0.45,WB 0.19' WATER
618-1832,3740934.67,640667.05,-0.26,WB 0.90' WATER
618-1831,3740935.99,640692.18,0.31,WB 0.33' WATER
618-1830,3740935.64,640717.74,0.47,WB 0.17' WATER
618-1829,3740928.33,640742.48,0.67,WB
618-1827,3740928.84,640767.51,0.69,TBK
618-1826,3740931.41,640791.33,0.68,MB
618-1825,3740931.15,640817.58,0.64,MB
618-1824,3740931.73,640843.30,0.61,MB
618-1823,3740932.69,640866.65,0.60,MB
618-1822,3740933.52,640891.65,0.56,MB
618-1821,3740936.41,640917.53,0.52,MB
618-1819,3740936.93,640929.61,0.75,TBK
618-1818,3740935.21,640941.26,-0.56,WB 1.20' WATER
618-1817,3740935.32,640966.94,-1.25,WB 1.89' WATER
618-1816,3740935.49,640990.63,-1.20,WB 1.84' WATER
618-1815,3740936.37,641016.17,-2.08,WB 2.72' WATER
618-1814,3740937.94,641041.61,-1.73,WB 2.37' WATER
618-1813,3740938.82,641066.65,-1.16,WB 1.80' WATER
618-1811,3740938.13,641081.78,0.82,TBK
618-1810,3740936.97,641092.59,1.06,MB
618-1809,3740938.99,641116.91,1.12,MB
618-1808,3740938.34,641142.30,0.88,MB
618-1807,3740940.63,641167.35,0.94,MB
618-1806,3740938.85,641192.00,0.79,MB
618-1805,3740939.09,641217.37,0.70,MB
618-1804,3740937.94,641241.88,0.51,MB
618-1803,3740939.74,641266.71,0.67,MB
618-1802,3740939.69,641292.44,0.49,MB
618-1801,3740938.13,641316.74,0.27,MB
618-1800,3740936.64,641342.32,0.87,MB
618-1799,3740936.99,641367.39,1.13,MB
618-1798,3740933.02,641392.06,1.18,MB
618-1796,3740934.78,641396.12,0.71,TBK
618-1795,3740937.26,641417.46,-0.74,WB 1.38' WATER
618-1794,3741435.29,641441.71,-1.43,WB 2.07' WATER
618-1793,3740933.97,641467.39,-1.67,WB 2.31' WATER
618-1792,3740932.85,641492.59,-1.81,WB 2.45' WATER
618-1791,3740931.42,641517.05,-1.71,WB 2.35' WATER
618-1790,3740930.73,641541.83,-0.61,WB 1.25' WATER
618-1789,3740930.38,641567.01,-1.76,WB 2.40' WATER
618-1788,3740932.55,641590.75,-1.29,WB 1.93' WATER
618-1787,3740932.82,641617.75,-0.76,WB 1.40' WATER
618-1786,3740934.14,641642.67,-1.15,WB 1.79' WATER
618-1785,3740936.05,641665.83,-1.01,WB 1.65' WATER
618-1784,3740929.69,641691.81,-0.91,WB 1.55' WATER
618-1783,3740931.26,641717.22,-0.86,WB 1.50' WATER
618-1782,3740931.56,641742.18,-0.71,WB 1.35' WATER
618-1780,3740929.75,641765.43,0.90,TBK
618-1779,3740930.40,641767.36,0.92,MB
618-1778,3740929.88,641791.49,1.10,MB
618-1777,3740931.55,641816.71,0.98,MB
618-1776,3740928.77,641842.26,1.02,MB
618-1775,3740930.44,641866.83,1.15,MB

618-1774,3740929.42,641891.74,1.01,MB
618-1773,3740930.02,641917.33,0.90,MB
618-1772,3740931.24,641941.75,0.63,MB
618-1771,3740932.03,641966.90,0.67,MB
618-1769,3740932.67,641986.76,0.57,TBK
618-1768,3740933.03,641992.01,0.19,WB 0.45' WATER
618-1766,3740932.20,642010.13,0.78,TBK
618-1765,3740931.99,642016.64,0.70,MB
618-1763,3740935.11,642026.22,0.54,TBK
618-1762,3740938.01,642042.04,-0.71,WB 1.35' WATER
618-1761,3740935.59,642067.45,-0.70,WB 1.34' WATER
618-1760,3740937.37,642092.16,-0.51,WB 1.15' WATER
618-1759,3740935.18,642117.16,-0.47,WB 1.11' WATER
618-1758,3740933.47,642141.73,-0.74,WB 1.38' WATER
618-1757,3740934.30,642166.23,-0.78,WB 1.42' WATER
618-1756,3740933.54,642191.04,-0.40,WB 1.04' WATER
618-1755,3740934.95,642216.53,-0.69,WB 1.33' WATER
618-1754,3740934.22,642241.76,-0.71,WB 1.35' WATER
618-1753,3740933.79,642265.94,-0.80,WB 1.44' WATER
618-1752,3740936.03,642291.19,-0.68,WB 1.32' WATER
618-1751,3740935.29,642316.54,-0.75,WB 1.39' WATER
618-1750,3740935.17,642341.45,-0.71,WB 1.35' WATER
618-1749,3740936.92,642367.45,-0.71,WB 1.35' WATER
618-1748,3740934.77,642392.47,-0.27,WB 0.91' WATER
618-1746,3740935.52,642408.03,0.79,TBK
618-1745,3740936.62,642417.60,0.55,MB
618-1744,3740936.33,642442.02,0.66,MB
618-1743,3740937.22,642467.02,0.45,MB
618-1742,3740937.65,642492.04,0.51,MB
618-1741,3740937.59,642517.01,0.53,MB
;
;TRANSECT 09 TOP WATER SHOTS
612-976,3740937.08,639366.58,0.86,TOP WATER
618-1872,3740936.67,639792.44,0.52,TOP WATER
618-1864,3740939.88,639959.56,0.61,TOP WATER
618-1854,3740930.39,640162.84,0.71,TOP WATER
618-1828,3740928.84,640766.72,0.73,TOP WATER
618-1820,3740936.04,640931.16,0.45,TOP WATER
618-1812,3740938.34,641081.78,0.82,TOP WATER
618-1797,3740934.69,641397.56,0.71,TOP WATER
618-1781,3740929.73,641764.45,0.58,TOP WATER
618-1770,3740933.03,641986.86,0.49,TOP WATER
618-1767,3740933.18,642010.11,0.52,TOP WATER
618-1764,3740935.27,642026.42,0.56,TOP WATER
618-1747,3740935.52,642407.67,0.42,TOP WATER
;
;
;TRANSECT 10
;0.42' AVG WATER
618-1739,3741406.47,639392.05,-1.21,WB 1.63' WATER
618-1738,3741400.18,639441.77,-0.55,WB 0.97' WATER
618-1737,3741409.08,639466.85,-0.04,WB 0.46' WATER
618-1736,3741412.00,639471.57,0.76,EDGE MARSH
618-1735,3741407.84,639492.32,2.80,MB
618-1733,3741408.65,639517.35,2.02,MB
618-1732,3741405.31,639542.30,0.96,MB
618-1731,3741407.13,639566.52,1.01,MB
618-1730,3741406.30,639591.78,0.76,MB
618-1729,3741406.86,639617.14,0.85,MB
618-1728,3741408.33,639641.69,0.65,MB
618-1727,3741409.62,639667.36,0.87,MB
618-1726,3741410.39,639691.61,0.61,MB
618-1725,3741411.02,639716.84,0.58,MB

618-1724,3741403.92,639741.92,0.82,MB
618-1723,3741406.23,639767.38,0.76,MB
618-1722,3741408.53,639792.36,0.35,MB
618-1721,3741407.78,639816.79,0.48,MB
618-1720,3741408.97,639842.11,0.83,MB
618-1719,3741409.30,639867.02,0.25,MB
618-1718,3741410.43,639891.91,0.89,MB
618-1717,3741411.60,639917.36,0.49,MB
618-1716,3741413.78,639941.61,0.92,MB
618-1715,3741415.42,639966.76,0.57,MB
618-1714,3741416.13,639991.72,0.14,MB
618-1711,3741416.00,640016.35,-0.69,WB 1.11' WATER
618-1710,3741416.50,640042.05,-0.68,WB 1.10' WATER
618-1709,3741415.70,640067.17,-0.69,WB 1.11' WATER
618-1707,3741413.92,640087.44,0.60,MB
618-1706,3741413.48,640091.71,1.00,MB
618-1705,3741415.13,640116.57,0.87,MB
618-1704,3741415.52,640142.02,0.97,MB
618-1703,3741415.25,640167.20,1.17,MB
618-1702,3741414.23,640192.07,0.75,MB
618-1701,3741412.61,640216.99,0.09,MB
618-1699,3741414.28,640225.95,0.32,MB
618-1698,3741411.95,640246.88,-0.43,WB 0.85' WATER
618-1697,3741414.22,640267.44,-0.48,WB 0.90' WATER
618-1696,3741415.08,640292.08,-0.50,WB 0.92' WATER
618-1695,3741414.70,640317.09,-0.55,WB 0.97' WATER
618-1694,3741414.80,640342.22,-0.87,WB 1.29' WATER
618-1693,3741416.09,640366.60,-0.53,WB 0.95' WATER
618-1692,3741416.01,640392.13,-0.02,WB 0.44' WATER
618-1691,3741419.72,640417.22,-0.38,WB 0.80' WATER
618-1690,3741417.37,640442.01,0.44,WB 0.01' WATER
618-1689,3741418.09,640466.67,-0.27,WB 0.69' WATER
618-1688,3741419.31,640492.17,-0.54,WB 0.96' WATER
618-1687,3741419.08,640517.22,-0.56,WB 0.98' WATER
618-1686,3741419.06,640542.22,-0.67,WB 1.09' WATER
618-1685,3741418.75,640566.85,-0.46,WB 0.88' WATER
618-1684,3741419.18,640591.68,-0.20,WB 0.62' WATER
618-1682,3741419.53,640616.47,0.33,WB 0.09' WATER
618-1681,3741420.22,640642.30,0.36,WB 0.06' WATER
618-1680,3741420.26,640660.95,0.41,MB
618-1679,3741420.01,640666.72,0.54,MB
618-1678,3741421.22,640691.78,0.54,MB
618-1677,3741422.03,640716.37,0.92,MB
618-1676,3741422.51,640741.63,0.64,MB
618-1675,3741422.74,640767.25,0.75,MB
618-1674,3741423.44,640791.96,0.59,MB
618-1673,3741425.01,640816.73,0.37,MB
618-1672,3741425.27,640841.97,0.27,MB
618-1671,3741425.94,640871.81,0.90,MB
618-1670,3741424.01,640891.95,0.39,MB
618-1669,3741424.62,640916.82,0.33,MB
618-1668,3741424.97,640942.40,0.42,MB
618-1667,3741424.84,640966.72,0.99,MB
618-1666,3741424.50,640991.85,0.45,MB
618-1665,3741424.71,641016.93,0.84,MB
618-1664,3741424.94,641042.02,0.69,MB
618-1663,3741425.14,641066.65,0.73,MB
618-1661,3741427.58,641088.99,0.46,MB
618-1660,3741427.72,641091.99,-0.67,WB 1.09' WATER
618-1659,3741428.34,641116.68,-1.42,WB 1.84' WATER
618-1658,3741422.28,641141.97,-1.48,WB 1.90' WATER
618-1657,3741423.23,641166.82,-1.26,WB 1.68' WATER
618-1656,3741428.49,641192.12,-0.31,WB 0.73' WATER

618-1654,3741426.89,641203.43,0.88,MB
618-1653,3741428.92,641216.73,0.83,MB
618-1652,3741428.81,641241.81,1.44,MB
618-1651,3741428.54,641266.56,0.82,MB
618-1650,3741428.53,641291.76,0.66,MB
618-1649,3741428.98,641316.78,0.70,MB
618-1648,3741428.74,641341.63,0.81,MB
618-1647,3741428.76,641366.91,0.80,MB
618-1646,3741428.88,641391.65,0.74,MB
618-1645,3741430.05,641416.86,0.24,MB
618-1644,3741430.34,641441.95,0.52,MB
618-1643,3741429.94,641466.78,0.41,MB
618-1641,3741431.91,641480.80,0.44,MB
618-1640,3741431.77,641491.68,-0.13,WB 0.55' WATER
618-1639,3741431.83,641516.75,0.21,WB 0.21' WATER
618-1638,3741432.04,641542.16,0.35,WB 0.07' WATER
618-1637,3741433.26,641567.03,0.08,WB 0.34' WATER
618-1636,3741434.24,641592.11,-0.08,WB 0.50' WATER
618-1635,3741435.29,641617.03,0.16,WB 0.26' WATER
618-1634,3741435.81,641642.08,-0.47,WB 0.89' WATER
618-1633,3741436.46,641666.69,-0.44,WB 0.86' WATER
618-1632,3741435.35,641691.92,-0.84,WB 1.26' WATER
618-1631,3741438.12,641716.96,-0.88,WB 1.30' WATER
618-1630,3741438.66,641741.78,-0.62,WB 1.04' WATER
618-1629,3741440.81,641766.43,-0.76,WB 1.18' WATER
618-1628,3741440.83,641791.23,-1.03,WB 1.45' WATER
618-1627,3741440.91,641816.29,-0.62,WB 1.04' WATER
618-1626,3741439.54,641841.90,0.08,WB 0.34' WATER
618-1625,3741440.31,641867.15,-0.64,WB 1.06' WATER
618-1624,3741439.24,641891.86,0.38,WB 0.04' WATER
618-1623,3741439.35,641917.06,-0.07,WB 0.49' WATER
618-1622,3741437.39,641941.74,-0.45,WB 0.87' WATER
618-1621,3741443.61,641966.66,-0.61,WB 1.03' WATER
618-1620,3741443.72,641991.85,-0.55,WB 0.97' WATER
618-1619,3741442.79,642017.19,-0.42,WB 0.84' WATER
618-1618,3741440.97,642046.58,-0.66,WB 1.08' WATER
618-1617,3741437.61,642067.09,-0.66,WB 1.08' WATER
618-1616,3741439.40,642091.88,0.54,WB 0.01' WATER
618-1615,3741441.98,642116.77,0.31,WB 0.11' WATER
618-1614,3741442.49,642141.95,-0.48,WB 0.90' WATER
618-1613,3741442.91,642166.11,-0.51,WB 0.93' WATER
618-1612,3741443.54,642192.11,-0.40,WB 0.82' WATER
618-1611,3741443.56,642216.87,-0.71,WB 1.13' WATER
618-1610,3741443.05,642246.84,-0.75,WB 1.17' WATER
618-1609,3741442.70,642267.14,-0.81,WB 1.23' WATER
618-1608,3741445.13,642291.60,-0.74,WB 1.16' WATER
618-1607,3741443.77,642317.08,-0.69,WB 1.11' WATER
618-1606,3741444.04,642341.44,-0.59,WB 1.01' WATER
618-1605,3741442.60,642366.72,-0.13,WB 0.55' WATER
618-1603,3741442.52,642381.06,0.50,MB
618-1602,3741440.79,642392.16,0.47,MB
618-1601,3741441.09,642417.08,0.41,MB
618-1600,3741444.06,642442.03,0.22,MB
618-1599,3741446.77,642447.80,0.47,EDGE DITCH
618-1598,3741445.46,642452.08,-1.36,CL DITCH 1.78' WATER
618-1597,3741444.95,642457.62,0.54,EDGE DITCH
618-1596,3741443.67,642467.04,0.63,WB
618-1595,3741442.71,642492.14,0.58,WB
618-1594,3741442.30,642517.21,0.79,WB
;
:TRANSECT 10 TOP WATER SHOTS
618-1700,3741413.87,640224.77,0.49,TOP WATER
618-1683,3741419.56,640616.36,0.30,TOP WATER

618-1662,3741427.41,641088.86,0.45,TOP WATER
618-1655,3741428.24,641201.26,0.33,TOP WATER
618-1642,3741431.85,641481.94,0.44,TOP WATER
618-1604,3741442.82,642379.36,0.46,TOP WATER
618-1712,3741416.31,639991.46,0.45,TOP WATER
618-1708,3741413.36,640086.18,0.44,TOP WATER
;
;
;TRANSECT 11
;0.43' AVG TOP WATER
618-1593,3741933.98,639442.69,-0.68,WB 1.11' WATER
618-1592,3741930.29,639467.47,-0.51,WB 0.94' WATER
618-1591,3741929.00,639492.35,-0.63,WB 1.06' WATER
618-1590,3741934.47,639514.27,0.76,EDGE MARSH
618-1589,3741934.64,639517.57,0.91,MB
618-1588,3741938.92,639542.14,1.50,MB
618-1587,3741937.06,639567.43,1.27,MB
618-1586,3741931.18,639592.37,1.14,MB
618-1585,3741932.69,639616.38,1.16,MB
618-1584,3741932.37,639642.00,0.92,MB
618-1583,3741927.82,639667.18,0.60,MB
618-1582,3741936.35,639692.22,0.29,MB
618-1581,3741929.52,639716.61,1.03,MB
618-1580,3741931.33,639742.11,0.41,MB
618-1579,3741932.31,639766.60,0.48,MB
618-1578,3741933.19,639792.07,0.33,MB
618-1577,3741932.32,639817.30,0.39,MB
618-1576,3741934.54,639841.90,0.52,MB
618-1575,3741936.57,639866.76,0.54,MB
618-1574,3741936.95,639892.14,0.36,MB
618-1573,3741939.36,639917.20,0.32,MB
618-1572,3741937.90,639941.51,0.34,MB
618-1571,3741936.79,639967.22,0.37,MB
618-1570,3741937.40,639991.75,0.36,MB
618-1569,3741937.01,640016.52,0.50,MB
618-1568,3741936.08,640042.29,0.55,MB
618-1567,3741935.29,640067.02,0.37,MB
618-1566,3741937.02,640091.63,0.60,MB
618-1565,3741936.61,640116.64,0.30,MB
618-1564,3741934.90,640141.68,-0.28,WB
618-1563,3741935.41,640166.91,0.43,MB
618-1561,3741936.16,640182.16,0.50,TBK
618-1560,3741935.43,640191.71,-0.33,WB 0.76' WATER
618-1559,3741934.76,640216.79,-0.37,WB 0.80' WATER
618-1558,3741934.72,640242.01,-0.34,WB 0.77' WATER
618-1557,3741934.47,640267.08,-0.51,WB 0.94' WATER
618-1556,3741934.55,640291.25,-0.61,WB 1.04' WATER
618-1555,3741933.03,640316.84,-0.62,WB 1.05' WATER
618-1554,3741934.78,640342.37,-0.66,WB 1.09' WATER
618-1553,3741939.60,640366.27,-0.63,WB 1.06' WATER
618-1552,3741938.00,640391.93,-0.92,WB 1.35' WATER
618-1551,3741937.05,640417.13,-0.61,WB 1.04' WATER
618-1550,3741936.15,640441.74,-0.88,WB 1.31' WATER
618-1549,3741934.63,640466.65,-0.32,WB 0.75' WATER
618-1548,3741935.02,640492.19,-0.40,WB 0.83' WATER
618-1547,3741934.20,640517.04,0.02,WB 0.41' WATER
618-1546,3741933.64,640527.99,0.55,MB
618-1545,3741933.54,640541.86,0.62,MB
618-1544,3741934.80,640551.53,0.57,MB
618-1542,3741933.26,640566.67,0.63,MB
618-1541,3741934.27,640577.30,0.69,TBK
618-1540,3741939.95,640591.64,0.63,MB
618-1539,3741938.57,640617.39,0.64,MB

618-1538,3741937.67,640642.18,0.71,MB
618-1537,3741938.35,640666.88,0.54,MB
618-1536,3741938.22,640691.89,0.77,MB
618-1535,3741937.36,640716.82,0.64,MB
618-1534,3741936.80,640741.92,0.56,MB
618-1528,3741932.60,640767.34,0.50,MB
618-1527,3741933.91,640792.24,0.46,MB
618-1526,3741934.50,640816.74,0.47,MB
618-1525,3741934.02,640842.02,0.55,MB
618-1524,3741936.07,640867.13,0.60,MB
618-1523,3741938.40,640892.23,0.52,MB
618-1522,3741937.81,640917.01,0.35,MB
618-1521,3741934.75,640942.08,0.42,MB
618-1520,3741935.41,640946.56,0.41,TBK
618-1519,3741937.11,640967.22,-0.29,WB 0.72' WATER
618-1518,3741937.09,640991.90,0.40,WB 0.03' WATER
618-1517,3741937.58,640998.43,0.39,TBK
618-1516,3741936.63,641016.73,0.43,MB
618-1515,3741936.63,641041.75,0.35,MB
618-1514,3741936.38,641067.19,0.82,MB
618-1513,3741936.37,641092.12,0.35,MB
618-1512,3741936.34,641117.08,0.45,MB
618-1511,3741935.83,641141.87,0.52,MB
618-1510,3741935.00,641167.14,0.39,MB
618-1509,3741934.70,641192.07,0.42,MB
618-1508,3741934.06,641217.13,0.47,MB
618-1507,3741933.97,641242.09,0.54,MB
618-1506,3741933.32,641267.03,0.45,MB
618-1505,3741929.99,641288.46,-0.10,EDGE DITCH
618-1504,3741931.56,641292.35,-0.65,WB 1.08' WATER
618-1503,3741927.32,641317.14,-1.68,CL DITCH 2.11' WATER
618-1502,3741928.48,641335.68,1.07,EDGE DITCH
618-1501,3741928.88,641342.05,0.76,MB
618-1500,3741929.55,641366.89,0.84,MB
618-1499,3741930.64,641391.96,0.90,MB
618-1498,3741931.05,641417.22,0.52,MB
618-1497,3741931.50,641442.03,0.67,MB
618-1496,3741931.71,641467.17,0.57,MB
618-1495,3741932.03,641492.26,0.46,MB
618-1494,3741930.39,641516.94,0.52,MB
618-1493,3741929.99,641531.46,0.53,TBK
618-1492,3741928.77,641541.97,0.37,WB 0.06' WATER
618-1491,3741926.07,641567.29,0.40,WB 0.03' WATER
618-1490,3741927.75,641592.25,0.30,WB 0.13' WATER
618-1489,3741928.24,641617.06,0.15,WB 0.28' WATER
618-1488,3741928.62,641642.14,-0.66,WB 1.09' WATER
618-1487,3741929.74,641667.29,-0.20,WB 0.63' WATER
618-1486,3741929.64,641691.98,-0.80,WB 1.23' WATER
618-1485,3741927.47,641716.83,-0.89,WB 1.32' WATER
618-1484,3741927.35,641742.21,-0.70,WB 1.13' WATER
618-1483,3741927.22,641766.74,-0.54,WB 0.97' WATER
618-1482,3741924.78,641791.88,-0.51,WB 0.94' WATER
618-1481,3741924.35,641816.33,-0.59,WB 1.02' WATER
618-1480,3741924.67,641842.28,-0.65,WB 1.08' WATER
618-1479,3741931.53,641867.06,-0.54,WB 0.97' WATER
618-1478,3741924.09,641875.76,0.69,TBK
618-1477,3741930.06,641892.14,0.70,MB
618-1476,3741929.36,641896.15,0.53,TBK
618-1475,3741928.42,641917.42,-0.35,WB 0.78' WATER
618-1474,3741930.56,641934.66,0.92,TBK
618-1473,3741929.89,641942.24,0.65,MB
618-1472,3741931.12,641945.54,0.76,TBK
618-1471,3741929.56,641964.16,0.53,TBK

618-1470,3741929.05,641967.34,0.69,MB
618-1469,3741930.27,641992.05,0.79,MB
618-1468,3741930.58,641995.21,0.64,TBK
618-1467,3741930.43,642016.91,-0.51,WB 0.94' WATER
618-1466,3741931.35,642041.93,-0.53,WB 0.96' WATER
618-1465,3741930.91,642047.84,0.76,TBK
618-1464,3741929.97,642067.43,1.01,MB
618-1463,3741932.21,642080.06,0.46,EDGE DITCH
618-1462,3741933.02,642085.59,-0.72,CL DITCH 1.15' WATER
618-1461,3741932.99,642092.29,0.57,EDGE DITCH
618-1460,3741933.36,642117.02,0.56,MB
618-1459,3741932.93,642141.77,0.32,MB
618-1458,3741929.53,642163.12,0.66,TBK
618-1457,3741929.60,642167.45,-1.00,WB 1.43' WATER
618-1456,3741931.38,642191.92,-1.15,WB 1.58' WATER
618-1455,3741927.97,642217.01,-0.57,WB 1.00' WATER
618-1454,3741931.11,642242.07,-0.31,WB 0.74' WATER
618-1453,3741931.24,642267.20,-0.80,WB 1.23' WATER
618-1452,3741932.24,642291.78,-0.94,WB 1.37' WATER
618-1451,3741932.88,642317.46,-0.63,WB 1.06' WATER
618-1450,3741929.58,642342.05,0.26,WB 0.17' WATER
618-1448,3741926.96,642355.09,0.46,TBK
618-1447,3741930.10,642367.27,0.49,MB
618-1446,3741931.54,642392.24,0.53,MB
618-1445,3741931.11,642417.03,0.58,MB
618-1444,3741930.36,642441.94,0.72,MB
618-1443,3741929.49,642467.11,0.63,MB
618-1442,3741928.68,642491.98,0.57,MB
618-1441,3741928.22,642517.30,0.92,MB
;
:TRANSECT 11 TOP WATER SHOTS
618-1562,3741935.82,640182.66,0.32,TOP WATER
618-1543,3741934.82,640563.02,0.48,TOP WATER
1-1449,3741926.75,642357.08,0.48,TOP WATER
;
;
;TRANSECT 12
;0.37' AVG TOP OF WATER
618-1440,3742437.57,639466.83,-1.08,WB 1.45' WATER
618-1439,3742440.32,639492.14,-0.74,WB 1.11' WATER
618-1438,3742447.47,639516.55,-0.49,WB 0.86' WATER
618-1437,3742443.77,639541.92,-0.17,WB 0.54' WATER
618-1436,3742448.36,639558.52,0.70,EDGE MARSH
618-1435,3742447.44,639567.10,1.32,MB
618-1434,3742448.28,639592.24,1.32,MB
618-1433,3742445.17,639617.00,1.28,MB
618-1432,3742447.98,639641.75,1.23,MB
618-1431,3742448.32,639666.98,0.74,MB
618-1430,3742447.34,639692.11,1.34,MB
618-1428,3742448.10,639717.14,0.87,MB
618-1427,3742451.90,639741.88,0.74,MB
618-1426,3742448.80,639766.24,0.68,MB
618-1425,3742446.52,639791.47,1.11,MB
618-1424,3742443.53,639817.18,0.71,MB
618-1423,3742441.66,639841.97,0.89,MB
618-1422,3742440.85,639866.53,0.72,MB
618-1421,3742437.37,639892.46,1.31,MB
618-1420,3742439.69,639916.73,1.07,MB
618-1419,3742440.58,639941.75,1.04,MB
618-1418,3742440.16,639966.43,0.65,MB
618-1417,3742440.02,639991.97,0.73,MB
618-1416,3742442.14,640016.91,0.77,MB
618-1415,3742441.89,640042.17,0.83,MB

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618-1414,3742443.38,640067.17,0.66,MB
618-1413,3742444.58,640091.70,0.57,MB
618-1412,3742444.59,640117.10,0.72,MB
618-1411,3742443.99,640141.43,0.96,MB
618-1410,3742442.83,640166.68,0.98,MB
618-1409,3742440.52,640191.84,0.85,MB
618-1408,3742441.95,640217.12,0.74,MB
618-1407,3742441.99,640242.16,1.17,MB
618-1406,3742438.79,640267.15,1.03,MB
618-1405,3742439.90,640292.02,0.62,MB
618-1404,3742438.23,640317.04,0.77,MB
618-1403,3742438.89,640341.57,0.79,MB
618-1402,3742437.30,640366.63,0.97,MB
618-1401,3742436.99,640392.12,1.09,MB
618-1400,3742437.80,640416.88,0.80,MB
618-1399,3742438.35,640442.11,0.80,MB
618-1398,3742437.35,640466.69,0.80,MB
618-1397,3742436.36,640491.66,0.93,MB
618-1396,3742436.65,640516.70,1.06,MB
618-1395,3742437.09,640542.04,1.04,MB
618-1394,3742438.38,640566.37,1.19,MB
618-1393,3742437.81,640591.86,1.54,MB
618-1392,3742439.00,640616.46,1.64,MB
618-1391,3742438.76,640641.86,0.31,MB
618-1390,3742434.20,640666.86,0.96,MB
618-1389,3742435.65,640692.19,0.69,MB
618-1388,3742435.93,640716.34,0.54,MB
618-1387,3742435.68,640741.43,0.61,MB
618-1386,3742435.51,640766.77,0.60,MB
618-1385,3742435.11,640791.75,0.59,MB
618-1384,3742435.16,640816.64,0.77,MB
618-1383,3742436.04,640841.77,0.90,MB
618-1382,3742434.94,640866.85,0.65,MB
618-1381,3742434.59,640891.97,0.74,MB
618-1380,3742433.84,640916.96,0.99,MB
618-1378,3742435.94,640935.42,0.42,EDGE POND
618-1377,3742435.25,640942.15,0.25,WB 0.12' WATER
618-1376,3742435.37,640967.01,-0.50,WB 0.87' WATER
618-1375,3742435.68,640992.27,-0.58,WB 0.95' WATER
618-1374,3742437.18,641007.31,0.40,EDGE POND
618-1373,3742434.88,641016.89,1.09,MB
618-1372,3742435.23,641042.16,0.86,MB
618-1371,3742435.66,641066.50,1.31,MB
618-1370,3742436.38,641092.06,1.29,MB
618-1369,3742437.41,641116.23,1.08,MB
618-1368,3742436.48,641142.28,0.60,MB
618-1367,3742437.00,641150.95,0.30,EDGE DITCH
618-1366,3742440.18,641158.34,-0.43,WB 0.80' WATER
618-1365,3742438.39,641167.08,0.95,EDGE DITCH
618-1364,3742436.89,641191.40,0.84,MB
618-1363,3742435.37,641216.94,0.90,MB
618-1362,3742436.88,641241.89,0.56,MB
618-1361,3742437.00,641266.92,0.55,MB
618-1360,3742436.50,641291.95,0.84,MB
618-1359,3742436.49,641316.65,0.55,MB
618-1358,3742437.65,641342.17,0.95,MB
618-1357,3742436.13,641366.49,0.87,MB
618-1356,3742433.90,641391.81,0.40,MB
618-1355,3742432.16,641416.97,0.74,MB
618-1354,3742429.51,641441.77,0.63,MB
618-1353,3742436.87,641467.02,0.76,MB
618-1352,3742436.40,641491.58,0.39,MB
618-1351,3742430.43,641516.98,0.30,MB
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618-1350,3742434.96,641533.85,0.41,MB
618-1349,3742437.25,641542.49,0.33,EDGE POND
618-1348,3742431.23,641567.12,-0.06,WB 0.43' WATER
618-1347,3742433.80,641591.70,-0.49,WB 0.86' WATER
618-1346,3742436.13,641617.16,-0.42,WB 0.79' WATER
618-1345,3742435.79,641642.10,-0.40,WB 0.77' WATER
618-1344,3742435.53,641667.35,-0.74,WB 1.11' WATER
618-1343,3742434.33,641692.37,-0.26,WB 0.63' WATER
618-1342,3742433.72,641717.43,-0.64,WB 1.01' WATER
618-1341,3742434.56,641742.42,-0.92,WB 1.29' WATER
618-1340,3742435.60,641767.33,-0.66,WB 1.03' WATER
618-1339,3742434.90,641792.37,-0.19,WB 0.56' WATER
618-1338,3742432.29,641801.45,0.32,EDGE POND
618-1337,3742432.32,641816.78,0.26,MB
618-1336,3742435.91,641842.33,0.46,MB
618-1335,3742436.31,641843.26,0.34,EDGE POND 0.03' WATER
618-1334,3742438.06,641861.59,0.32,EDGE POND 0.05' WATER
618-1333,3742435.77,641867.09,0.53,MB
618-1332,3742435.49,641892.03,0.31,MB
618-1331,3742437.37,641916.70,0.56,MB
618-1330,3742435.79,641942.23,0.64,MB
618-1329,3742434.09,641966.46,0.53,MB
618-1328,3742435.55,641992.21,0.53,MB
618-1327,3742433.06,642004.63,0.47,EDGE POND
618-1326,3742434.09,642016.82,-0.10,WB 0.47' WATER
618-1325,3742432.21,642041.80,-1.12,WB 1.49' WATER
618-1324,3742433.35,642066.93,0.20,EDGE POND
618-1323,3742433.59,642091.83,0.70,MB
618-1322,3742433.81,642116.69,0.80,MB
618-1321,3742434.40,642142.17,0.73,MB
618-1320,3742435.24,642167.17,0.87,MB
618-1319,3742435.26,642179.56,0.43,EDGE POND
618-1318,3742432.68,642192.55,-0.86,WB 1.23' WATER
618-1317,3742431.56,642216.54,-1.00,WB 1.37' WATER
618-1316,3742433.32,642242.32,-0.80,WB 1.17' WATER
618-1315,3742433.49,642251.98,0.36,EDGE POND
618-1314,3742433.47,642266.92,0.72,MB
618-1313,3742434.11,642291.75,0.73,MB
618-1312,3742432.98,642316.96,0.37,MB
618-1311,3742432.61,642341.81,0.52,MB
618-1310,3742431.79,642367.01,0.86,MB
618-1309,3742429.01,642391.76,0.53,MB
618-1308,3742434.71,642416.95,0.52,MB
618-1307,3742433.03,642441.72,0.22,MB
618-1306,3742430.96,642466.97,0.65,MB
618-1305,3742431.44,642468.60,0.48,EDGE POND
618-1304,3742429.65,642492.11,-0.89,WB 1.26' WATER
618-1303,3742429.89,642514.57,0.37,EDGE POND
618-1302,3742430.85,642517.14,0.93,MB
;
:TRANSECT 12 TOP WATER SHOTS
618-1378,3742435.94,640935.42,0.42,TOP WATER
618-1374,3742437.18,641007.31,0.40,TOP WATER
618-1349,3742437.25,641542.49,0.33,TOP WATER
618-1338,3742432.29,641801.45,0.32,TOP WATER
618-1335,3742436.31,641843.26,0.34,TOP WATER
618-1334,3742438.06,641861.59,0.32,TOP WATER
618-1327,3742433.06,642004.63,0.47,TOP WATER
618-1324,3742433.35,642066.93,0.20,TOP WATER
618-1319,3742435.26,642179.56,0.43,TOP WATER
618-1315,3742433.49,642251.98,0.36,TOP WATER
618-1305,3742431.44,642468.60,0.48,TOP WATER
618-1303,3742429.89,642514.57,0.37,TOP WATER
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618-1379,3742435.99,640935.57,0.39,TOP WATER
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;TRANSECT 13
;0.37' AVG TOP WATER
618-1301,3742918.69,639459.22,-1.15,WB 1.52' WATER
618-1300,3742916.49,639484.81,-0.90,WB 1.27' WATER
618-1299,3742914.57,639509.39,-0.92,WB 1.29' WATER
618-1298,3742917.93,639534.74,-0.31,WB 0.68' WATER
618-1297,3742918.44,639551.83,0.47,EDGE MARSH
618-1296,3742919.32,639559.80,0.55,MB
618-1295,3742917.45,639585.23,1.18,MB
618-1294,3742915.12,639610.28,1.35,MB
618-1293,3742916.53,639634.74,1.05,MB
618-1292,3742917.72,639660.00,0.85,MB
618-1291,3742917.69,639684.86,0.89,MB
618-1290,3742918.42,639709.92,0.65,MB
618-1289,3742920.08,639734.77,0.77,MB
618-1288,3742919.31,639759.72,0.66,MB
618-1287,3742918.27,639784.66,0.45,MB
618-1286,3742919.85,639809.73,0.74,MB
618-1285,3742920.32,639834.83,0.69,MB
618-1284,3742922.20,639859.79,0.63,MB
618-1283,3742923.17,639884.82,0.58,MB
618-1282,3742918.99,639909.72,-0.02,WB 0.39' WATER
618-1281,3742918.87,639912.17,0.17,MB
618-1280,3742920.40,639934.60,-0.15,WB 0.52' WATER
618-1279,3742921.37,639937.33,0.35,MB
618-1278,3742923.23,639959.74,0.21,WB 0.16' WATER
618-1277,3742920.95,639979.12,0.35,MB
618-1276,3742922.42,639984.92,-0.38,WB 0.75' WATER
618-1275,3742922.15,639996.44,0.36,MB
618-1274,3742921.53,640009.60,0.43,MB
618-1273,3742922.96,640034.57,0.38,MB
618-1272,3742922.54,640043.34,0.52,MB
618-1271,3742921.62,640053.72,-0.36,WB 0.73' WATER
618-1270,3742922.26,640059.65,-0.46,WB 0.83' WATER
618-1269,3742922.60,640066.09,0.57,MB
618-1268,3742924.48,640084.84,0.42,MB
618-1267,3742924.79,640109.96,0.51,MB
618-1266,3742927.82,640134.97,0.92,MB
618-1265,3742927.25,640159.96,0.58,MB
618-1264,3742925.10,640185.01,0.53,MB
618-1263,3742924.39,640197.34,0.35,MB
618-1262,3742924.96,640203.10,-0.22,WB 0.59' WATER
618-1261,3742926.45,640208.33,0.24,MB
618-1260,3742926.61,640210.18,0.39,MB
618-1259,3742929.09,640234.43,0.16,MB
618-1258,3742927.98,640259.53,0.52,MB
618-1257,3742927.76,640279.69,0.07,WB 0.30' WATER
618-1256,3742926.46,640284.62,0.38,MB
618-1255,3742917.65,640306.70,0.31,MB
618-1254,3742917.95,640309.74,-0.32,WB 0.69' WATER
618-1253,3742918.62,640312.25,0.39,MB
618-1252,3742926.93,640335.13,0.87,MB
618-1251,3742926.40,640359.83,0.45,MB
618-1250,3742922.85,640384.64,0.30,WB 0.07' WATER
618-1249,3742923.06,640385.88,0.46,MB
618-1248,3742924.94,640409.76,0.52,MB
618-1247,3742925.36,640434.57,0.45,MB
618-1246,3742920.29,640448.74,0.42,MB
618-1245,3742921.82,640459.74,0.11,WB 0.26' WATER
618-1244,3742924.79,640484.85,0.35,MB
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618-1243,3742925.32,640503.08,0.34,MB
618-1242,3742925.66,640506.88,-0.11,WB 0.48' WATER
618-1241,3742926.03,640509.77,0.04,WB 0.33' WATER
618-1240,3742925.90,640511.62,0.37,MB
618-1239,3742925.76,640522.00,0.45,MB
618-1238,3742926.68,640534.94,-0.24,WB 0.61' WATER
618-1237,3742928.03,640559.90,-0.36,WB 0.73' WATER
618-1236,3742927.18,640584.86,-0.41,WB 0.78' WATER
618-1235,3742924.34,640609.59,-0.40,WB 0.77' WATER
618-1234,3742926.40,640634.67,-0.12,WB 0.49' WATER
618-1232,3742927.90,640637.79,0.32,MB
618-1231,3742924.81,640659.84,0.38,MB
618-1230,3742926.53,640666.06,0.25,MB
618-1229,3742926.62,640678.30,0.34,MB
618-1228,3742926.03,640684.62,0.06,MB
618-1227,3742924.42,640693.13,0.32,MB
618-1226,3742921.25,640706.01,0.36,MB
618-1225,3742921.79,640710.05,0.38,MB
618-1224,3742922.20,640715.36,0.37,MB
618-1223,3742923.91,640734.90,-0.09,WB 0.46' WATER
618-1222,3742924.77,640739.77,0.47,MB
618-1221,3742924.07,640751.35,0.22,MB
618-1220,3742926.21,640759.70,-0.33,WB 0.70' WATER
618-1219,3742925.45,640773.63,0.38,MB
618-1218,3742927.35,640785.07,0.71,MB
618-1217,3742926.67,640810.01,0.55,MB
618-1216,3742928.22,640835.04,0.68,MB
618-1215,3742929.08,640859.79,0.70,MB
618-1214,3742923.04,640884.90,0.58,MB
618-1213,3742926.51,640909.97,0.33,MB
618-1212,3742927.52,640934.83,0.37,MB
618-1211,3742926.99,640941.28,0.38,MB
618-1210,3742925.69,640945.46,0.03,WB 0.34' WATER
618-1209,3742925.80,640948.73,0.19,MB
618-1208,3742924.81,640959.90,0.46,MB
618-1207,3742925.83,640984.46,0.51,MB
;
:TRANSECT 13 TOP WATER SHOTS
618-1279,3742921.37,639937.33,0.35,TOP WATER
618-1277,3742920.95,639979.12,0.35,TOP WATER
618-1275,3742922.15,639996.44,0.36,TOP WATER
618-1251,3742926.40,640359.83,0.45,TOP WATER
618-1249,3742923.06,640385.88,0.46,TOP WATER
618-1246,3742920.29,640448.74,0.42,TOP WATER
618-1244,3742924.79,640484.85,0.35,TOP WATER
618-1232,3742927.90,640637.79,0.32,TOP WATER
618-1230,3742926.53,640666.06,0.25,TOP WATER
618-1229,3742926.62,640678.30,0.34,TOP WATER
618-1227,3742924.42,640693.13,0.32,TOP WATER
618-1226,3742921.25,640706.01,0.36,TOP WATER
618-1224,3742922.20,640715.36,0.37,TOP WATER
618-1222,3742924.77,640739.77,0.47,TOP WATER
618-1221,3742924.07,640751.35,0.22,TOP WATER
618-1219,3742925.45,640773.63,0.38,TOP WATER
618-1233,3742927.46,640638.09,0.33,TOP WATER
;
;
;TRANSECT 14
;0.68' AVG TOP WATER
618-1134,3743426.43,639409.01,-0.99,WB 1.64' WATER
618-1135,3743427.25,639434.03,-0.70,WB 1.35' WATER
618-1136,3743435.89,639458.65,-0.64,WB 1.29' WATER
618-1137,3743433.23,639482.26,0.34,WB 0.31' WATER
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618-1138,3743434.18,639484.16,0.96,EDGE MARSH
618-1139,3743430.01,639507.57,1.34,MB
618-1140,3743430.46,639532.20,1.89,MB
618-1141,3743429.90,639557.54,1.58,MB
618-1142,3743429.68,639582.96,1.17,MB
618-1143,3743428.84,639607.82,0.94,MB
618-1144,3743430.12,639633.03,1.24,MB
618-1145,3743428.76,639650.80,0.30,TBK
618-1146,3743429.18,639657.37,-0.29,WB 0.94' WATER
618-1147,3743427.33,639682.23,-0.08,WB 0.73' WATER
618-1148,3743429.81,639690.18,0.93,TBK
618-1149,3743434.21,639707.47,0.95,TBK
618-1150,3743429.81,639715.91,0.55,WB 0.10' WATER
618-1151,3743429.57,639732.62,0.01,WB 0.64' WATER
618-1152,3743430.21,639735.62,0.56,TBK
618-1153,3743431.57,639745.44,0.61,WB 0.04' WATER
618-1154,3743430.48,639757.45,-0.46,WB 1.11' WATER
618-1155,3743428.12,639783.50,-0.34,WB 0.99' WATER
618-1156,3743425.11,639806.50,-0.31,WB 0.96' WATER
618-1157,3743421.47,639833.14,-0.24,WB 0.89' WATER
618-1158,3743428.56,639857.69,-0.58,WB 1.23' WATER
618-1159,3743430.35,639881.69,-0.51,WB 1.16' WATER
618-1160,3743432.89,639907.77,-0.28,WB 0.93' WATER
618-1161,3743424.44,639933.00,-0.48,WB 1.13' WATER
618-1162,3743429.69,639957.09,-0.58,WB 1.23' WATER
618-1163,3743419.79,639982.55,-0.72,WB 1.37' WATER
618-1164,3743415.27,640010.71,-0.55,WB 1.20' WATER
618-1165,3743421.87,640032.07,-0.33,WB 0.98' WATER
618-1166,3743429.24,640057.92,-0.57,WB 1.22' WATER
618-1167,3743429.94,640082.47,-0.35,WB 1.00' WATER
618-1168,3743432.46,640109.67,-0.87,WB 1.52' WATER
618-1169,3743438.86,640131.49,-0.87,WB 1.52' WATER
618-1170,3743436.91,640158.88,-0.99,WB 1.64' WATER
618-1171,3743423.82,640181.77,-0.55,WB 1.20' WATER
618-1172,3743426.33,640209.58,-0.85,WB 1.50' WATER
618-1173,3743434.60,640232.24,-0.64,WB 1.29' WATER
618-1174,3743435.61,640258.67,-0.82,WB 1.47' WATER
618-1175,3743421.89,640283.62,-0.68,WB 1.33' WATER
618-1176,3743420.85,640309.41,-0.75,WB 1.40' WATER
618-1177,3743436.82,640333.35,-0.59,WB 1.24' WATER
618-1178,3743425.02,640358.19,-0.57,WB 1.22' WATER
618-1179,3743417.07,640384.96,-0.69,WB 1.34' WATER
618-1180,3743425.84,640405.76,-0.80,WB 1.45' WATER
618-1181,3743420.33,640432.81,-0.80,WB 1.45' WATER
618-1182,3743423.45,640458.91,-0.63,WB 1.28' WATER
618-1183,3743421.57,640483.30,-0.71,WB 1.36' WATER
618-1184,3743419.92,640510.50,-0.67,WB 1.32' WATER
618-1185,3743433.81,640533.18,-0.56,WB 1.21' WATER
618-1186,3743424.07,640557.57,-0.60,WB 1.25' WATER
618-1187,3743429.69,640581.32,-0.68,WB 1.33' WATER
618-1188,3743422.23,640608.31,-0.63,WB 1.28' WATER
618-1189,3743421.45,640632.91,-0.72,WB 1.37' WATER
618-1190,3743414.02,640657.21,-0.71,WB 1.36' WATER
618-1191,3743417.36,640681.95,-0.44,WB 1.09' WATER
618-1192,3743416.18,640707.45,-0.63,WB 1.28' WATER
618-1193,3743418.88,640732.59,-0.86,WB 1.51' WATER
618-1194,3743423.30,640757.54,-0.33,WB 0.98' WATER
618-1195,3743426.37,640782.29,-0.24,WB 0.89' WATER
618-1196,3743429.88,640796.61,0.77,TBK
618-1197,3743429.01,640808.04,1.24,MB
618-1198,3743428.56,640833.55,0.41,MB
618-1199,3743428.04,640857.36,0.73,MB
618-1200,3743427.50,640882.91,1.06,MB
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618-1201,3743426.48,640908.15,1.12,MB
618-1202,3743427.15,640932.79,1.27,MB
618-1203,3743427.52,640957.89,0.66,MB
618-1204,3743426.44,640983.10,0.70,MB
;
:TRANSECT 14 TOP WATER SHOTS
618-1152,3743430.21,639735.62,0.56,TOP WATER
618-1149,3743434.21,639707.47,0.95,TOP WATER
618-1148,3743429.81,639690.18,0.93,TOP WATER
618-1145,3743428.76,639650.80,0.30,TOP WATER
;
;
;TRANSECT 15
;0.53' AVG TOP WATER
618-1133,3743910.10,639519.94,-1.33,WB 1.86' WATER
618-1132,3743913.72,639545.52,-1.27,WB 1.80' WATER
618-1131,3743917.82,639570.25,-0.86,WB 1.39' WATER
618-1130,3743920.61,639595.19,-1.07,WB 1.60' WATER
618-1129,3743920.88,639620.14,-0.65,WB 1.18' WATER
618-1128,3743921.57,639645.31,-0.29,WB 0.82' WATER
618-1127,3743923.40,639670.36,0.02,WB 0.51' WATER
618-1126,3743923.71,639695.73,0.11,WB 0.42' WATER
618-1125,3743924.38,639721.26,0.31,WB 0.22' WATER
618-1124,3743921.57,639736.43,1.10,EDGE MARSH
618-1123,3743924.17,639745.41,1.96,MB
618-1122,3743923.29,639770.09,1.44,MB
618-1121,3743922.56,639795.35,0.97,MB
618-1120,3743924.81,639820.74,1.19,MB
618-1119,3743920.43,639845.17,1.08,MB
618-1118,3743924.09,639869.92,0.81,MB
618-1117,3743926.50,639895.42,0.97,MB
618-1116,3743926.84,639920.69,0.37,MB
618-1115,3743924.48,639945.31,0.99,MB
618-1114,3743929.17,639968.33,0.45,TBK
618-1113,3743929.51,639970.39,0.20,WB 0.33' WATER
618-1112,3743927.70,639995.43,-0.27,WB 0.80' WATER
618-1111,3743928.59,640020.57,-0.34,WB 0.87' WATER
618-1110,3743926.80,640044.72,-0.26,WB 0.79' WATER
618-1109,3743925.03,640070.26,-0.55,WB 1.08' WATER
618-1108,3743924.70,640094.89,-0.38,WB 0.91' WATER
618-1107,3743927.54,640120.75,-0.45,WB 0.98' WATER
618-1106,3743926.38,640144.92,-0.56,WB 1.09' WATER
618-1105,3743925.07,640169.79,-0.90,WB 1.43' WATER
618-1104,3743923.40,640195.18,-0.88,WB 1.41' WATER
618-1103,3743921.47,640220.17,-0.89,WB 1.42' WATER
618-1102,3743919.81,640245.41,-0.70,WB 1.23' WATER
618-1101,3743917.24,640269.69,-0.83,WB 1.36' WATER
618-1100,3743919.93,640294.67,-1.00,WB 1.53' WATER
618-1099,3743923.18,640324.50,-0.98,WB 1.51' WATER
618-1098,3743923.12,640345.14,-1.01,WB 1.54' WATER
618-1097,3743923.37,640369.81,-0.85,WB 1.38' WATER
618-1096,3743926.25,640396.28,-0.76,WB 1.29' WATER
618-1095,3743928.62,640420.27,-0.86,WB 1.39' WATER
618-1094,3743930.63,640445.59,-0.80,WB 1.33' WATER
618-1093,3743930.90,640469.29,-0.93,WB 1.46' WATER
618-1092,3743929.55,640495.29,-0.72,WB 1.25' WATER
618-1091,3743927.72,640520.23,-0.68,WB 1.21' WATER
618-1090,3743927.54,640545.58,-0.56,WB 1.09' WATER
618-1089,3743927.92,640570.56,0.03,WB 0.50' WATER
618-1088,3743926.39,640595.62,-0.49,WB 1.02' WATER
618-1087,3743924.71,640620.59,-0.43,WB 0.96' WATER
618-1086,3743922.54,640645.38,-0.12,WB 0.65' WATER
618-1085,3743923.59,640670.53,0.42,WB 0.11' WATER
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618-1084,3743923.87,640695.48,0.35,WB 0.18' WATER
618-1083,3743926.70,640720.10,-0.51,WB 1.04' WATER
618-1082,3743924.37,640745.67,-0.35,WB 0.88' WATER
618-1081,3743925.99,640764.50,0.61,TBK
618-1080,3743928.08,640770.77,0.93,MB
618-1079,3743927.44,640795.31,0.62,MB
618-1078,3743925.24,640820.83,0.69,MB
618-1077,3743922.57,640845.47,0.97,MB
618-1076,3743924.57,640870.63,0.70,MB
618-1075,3743924.74,640895.65,0.70,MB
618-1074,3743926.61,640920.53,0.82,MB
618-1073,3743925.97,640945.29,0.77,MB
618-1072,3743925.37,640970.23,0.63,MB
618-1071,3743929.98,640995.43,0.77,MB
;
:TRANSECT 15 TOP WATER SHOTS
618-1114,3743929.17,639968.33,0.45,TOP WATER
618-1081,3743925.99,640764.50,0.61,TOP WATER
;
;
;TRANSECT 16
;0.55' AVG TOP WATER
618-1009,3744433.15,639594.52,-1.41,WB 1.96' WATER
618-1010,3744424.69,639618.74,-1.40,WB 1.95' WATER
618-1011,3744422.26,639644.33,-1.33,WB 1.88' WATER
618-1012,3744421.10,639669.51,-0.88,WB 1.43' WATER
618-1013,3744419.22,639694.60,-0.21,WB 0.76' WATER
618-1014,3744418.85,639715.11,0.26,EDGE MARSH
618-1015,3744417.84,639718.97,1.32,MB
618-1016,3744422.69,639744.06,1.12,MB
618-1017,3744422.30,639755.99,1.05,TBK
618-1018,3744419.56,639775.36,-1.00,WB 1.55' WATER
618-1019,3744423.48,639781.79,0.74,TB
618-1020,3744426.23,639794.22,0.61,MB
618-1021,3744426.36,639819.77,0.75,MB
618-1022,3744427.47,639838.07,0.51,TBK
618-1023,3744426.30,639844.26,0.05,WB 0.50' WATER
618-1024,3744425.80,639869.20,-0.19,WB 0.74' WATER
618-1025,3744428.07,639894.28,-0.12,WB 0.67' WATER
618-1026,3744425.43,639918.54,-0.15,WB 0.70' WATER
618-1027,3744424.13,639944.60,-0.05,WB 0.60' WATER
618-1028,3744422.12,639968.59,-0.47,WB 1.02' WATER
618-1029,3744426.44,639993.78,-0.04,WB 0.59' WATER
618-1030,3744426.92,640018.01,-0.70,WB 1.25' WATER
618-1031,3744429.49,640045.06,-0.75,WB 1.30' WATER
618-1032,3744428.28,640067.68,-1.07,WB 1.62' WATER
618-1033,3744421.16,640095.12,-1.02,WB 1.57' WATER
618-1034,3744416.27,640118.96,-0.35,WB 0.90' WATER
618-1035,3744412.37,640144.14,-0.51,WB 1.06' WATER
618-1036,3744415.89,640168.89,-0.48,WB 1.03' WATER
618-1037,3744417.07,640193.93,-0.22,WB 0.77' WATER
618-1038,3744418.49,640218.95,-0.46,WB 1.01' WATER
618-1039,3744419.36,640245.16,-0.70,WB 1.25' WATER
618-1040,3744421.49,640270.37,-1.02,WB 1.57' WATER
618-1041,3744425.85,640293.93,-0.42,WB 0.97' WATER
618-1042,3744428.84,640319.35,-0.57,WB 1.12' WATER
618-1043,3744424.22,640343.79,-0.53,WB 1.08' WATER
618-1044,3744423.54,640357.95,0.59,TBK
618-1045,3744424.60,640368.88,0.50,MB
618-1046,3744425.68,640393.90,0.85,MB
618-1047,3744427.62,640418.67,0.51,MB
618-1048,3744422.72,640444.14,0.29,MB
618-1049,3744424.51,640468.65,0.74,MB
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618-1050,3744426.53,640493.76,0.88,MB
618-1051,3744433.88,640518.88,0.71,MB
618-1052,3744436.04,640543.84,0.95,MB
618-1053,3744430.11,640568.52,0.70,MB
618-1054,3744429.37,640594.58,0.85,MB
618-1055,3744425.95,640618.31,1.11,MB
618-1056,3744423.09,640644.30,0.83,MB
618-1057,3744424.86,640668.39,0.79,MB
618-1058,3744426.83,640693.56,0.74,MB
618-1059,3744424.31,640719.41,0.93,MB
618-1060,3744425.34,640744.24,0.87,MB
618-1061,3744428.59,640769.23,0.82,MB
618-1062,3744425.50,640794.04,0.77,MB
618-1063,3744422.68,640819.36,1.29,MB
618-1064,3744425.67,640844.15,1.09,MB
618-1065,3744424.96,640869.12,1.08,MB
618-1066,3744427.11,640894.23,1.00,MB
618-1067,3744428.45,640919.28,0.95,MB
618-1068,3744425.82,640943.93,0.99,MB
618-1069,3744424.84,640969.33,0.90,MB
618-1070,3744425.03,640994.19,0.82,MB
;
:TRANSECT 16 TOP WATER SHOTS
618-1044,3744423.54,640357.95,0.59,TOP WATER
618-1022,3744427.47,639838.07,0.51,TOP WATER
;
;
;TRANSECT 17
;0.65' AVG TOP WATER
612-3329,3744923.82,639630.04,0.73,MB
612-3330,3744924.53,639655.12,0.88,MB
612-3331,3744923.63,639679.88,0.88,MB
612-3332,3744923.07,639704.23,0.61,MB
612-3333,3744922.35,639730.10,0.93,MB
612-3334,3744923.09,639754.32,1.01,MB
612-3335,3744924.24,639779.44,2.60,MB
612-3336,3744925.86,639806.18,1.77,MB
612-3337,3744925.08,639825.41,1.23,EDGE OF VEG
612-3338,3744924.66,639830.16,1.02,TOP_OF_SAND
612-3339,3744925.53,639835.05,0.89,TBK
612-3341,3744924.42,639855.23,0.00,WB 0.65' WATER
612-3342,3744923.81,639879.95,-0.29,WB 0.94' WATER
612-3343,3744924.33,639905.16,-0.91,WB 1.56' WATER
612-3344,3744920.41,639928.38,-1.94,WB 2.59' WATER
612-3345,3744926.01,639955.12,-2.85,WB 3.50' WATER
612-3346,3744925.18,639981.91,-4.94,WB 5.59' WATER
612-3347,3744929.40,640004.44,-6.04,WB 6.69' WATER
612-3348,3744927.13,640028.70,-7.64,WB 8.29' WATER
612-3349,3744923.99,640053.34,-9.37,WB 10.02' WATER
612-3350,3744927.47,640081.06,-10.28,WB 10.93' WATER
612-3351,3744925.87,640102.72,-11.58,WB 12.23' WATER
612-3352,3744924.37,640131.17,-12.74,WB 13.39' WATER
612-3353,3744922.42,640157.76,-13.40,WB 14.05' WATER
612-3354,3744925.18,640180.58,-13.26,WB 13.91' WATER
612-3355,3744926.05,640204.18,-13.81,WB 14.46' WATER
612-3356,3744926.57,640226.08,-13.49,WB 14.14' WATER
612-3357,3744927.06,640253.18,-13.68,WB 14.33' WATER
612-3358,3744925.90,640281.13,-13.28,WB 13.93' WATER
612-3359,3744924.63,640307.13,-12.34,WB 12.99' WATER
612-3360,3744925.17,640330.04,-11.17,WB 11.82' WATER
612-3361,3744922.66,640356.60,-10.23,WB 10.88' WATER
612-3362,3744924.30,640379.74,-9.65,WB 10.30' WATER
612-3363,3744919.32,640405.32,-8.12,WB 8.77' WATER
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612-3364,3744921.42,640427.36,-7.73,WB 8.38' WATER
612-3365,3744929.23,640455.02,-7.04,WB 7.69' WATER
612-3366,3744930.32,640479.77,-6.18,WB 6.83' WATER
612-3367,3744930.56,640508.13,-5.15,WB 5.80' WATER
612-3368,3744929.97,640530.41,-3.79,WB 4.44' WATER
612-3369,3744930.52,640557.85,-1.72,WB 2.37' WATER
618-3884,3744927.75,640583.77,-0.47,WB 1.12' WATER
618-3883,3744928.11,640605.61,-0.13,WB 0.78' WATER
618-3882,3744930.44,640631.50,0.24,WB 0.41' WATER
618-3880,3744927.01,640642.04,1.14,EDGE MARSH
618-3879,3744928.60,640656.35,1.47,MB
618-3878,3744929.27,640681.10,1.51,MB
618-3877,3744930.63,640706.31,1.24,MB
618-3876,3744929.11,640731.24,1.12,MB
618-3875,3744929.97,640755.97,1.36,MB
618-3874,3744927.51,640781.32,1.00,MB
618-3873,3744928.26,640806.16,1.33,MB
618-3872,3744928.70,640831.60,0.95,MB
618-3871,3744929.80,640856.30,0.73,MB
618-3870,3744927.44,640881.15,1.19,MB
618-3869,3744924.02,640906.90,1.22,MB
618-3868,3744923.92,640932.52,1.06,MB
618-3867,3744928.69,640956.25,0.95,MB
618-3866,3744926.46,640982.36,0.88,MB
;
:TRANSECT 17 TOP WATER SHOTS
612-3340,3744925.14,639837.70,0.57,TOP WATER
612-3370,3744934.08,640623.99,0.57,TOP WATER
618-3881,3744928.70,640640.55,0.70,TOP WATER
;
;
;TRANSECT 18
;0.55' AVG TOP WATER
618-1923,3746435.76,643798.16,0.49,EDGE MARSH
618-1922,3746453.30,643805.89,0.92,MB
618-1921,3746475.80,643815.20,1.11,MB
618-1920,3746499.14,643825.39,1.21,MB
618-1919,3746522.87,643833.62,1.40,MB
618-1918,3746571.59,643847.10,0.56,MB
618-1917,3746595.42,643854.26,0.89,MB
618-1916,3746619.43,643862.52,0.74,MB
618-1915,3746640.70,643876.27,1.21,MB
618-1914,3746661.45,643891.59,0.94,MB
618-1912,3746685.56,643897.83,0.24,MB
618-1911,3746699.21,643901.83,0.53,EDGE MARSH
618-1909,3746709.02,643906.50,-0.43,WB 0.98' WATER
618-1908,3746732.93,643915.01,-0.02,WB 0.57' WATER
618-1907,3746755.45,643925.21,-0.37,WB 0.92' WATER
618-1906,3746778.34,643934.80,-0.16,WB 0.71' WATER
618-1905,3746802.56,643943.35,-0.01,WB 0.56' WATER
618-1904,3746824.34,643955.52,-0.22,WB 0.77' WATER
618-1903,3746847.92,643964.74,-0.06,WB 0.61' WATER
618-1902,3746871.51,643972.16,-0.22,WB 0.77' WATER
618-1901,3746895.41,643979.65,-0.38,WB 0.93' WATER
618-1900,3746919.79,643986.90,-0.16,WB 0.71' WATER
618-1898,3746931.07,643990.68,0.95,TBK
618-1897,3746942.96,643994.88,0.80,MB
618-1896,3746966.38,644004.74,1.18,MB
618-1895,3746989.89,644012.25,0.73,MB
618-1894,3747012.04,644024.02,0.86,MB
618-1893,3747036.02,644033.57,0.68,MB
618-1892,3747058.60,644042.77,1.18,MB
618-1891,3747081.62,644052.34,0.88,MB

618-1890,3747104.76,644061.28,0.85,MB
618-1889,3747128.89,644070.26,1.46,MB
618-1888,3747151.50,644080.00,0.95,MB
618-1887,3747174.86,644088.36,0.79,MB
618-1886,3747197.46,644099.13,0.98,MB
618-1885,3747220.90,644107.44,1.15,MB
618-1884,3747243.57,644119.43,0.93,MB
618-1883,3747250.79,644121.82,0.59,EDGE MARSH
;
:TRANSECT 18 TOP WATER SHOTS
618-1910,3746702.04,643902.46,0.50,TOP WATER
618-1899,3746930.26,643989.66,0.60,TOP WATER
;
;
;TRANSECT 19
;0.60' AVG.TOP WATER
618-1990,3746037.43,643199.30,0.14,EDGE MARSH
618-1989,3746059.62,643202.32,0.94,MB
618-1988,3746080.19,643216.20,1.34,MB
618-1987,3746126.77,643234.84,0.98,MB
618-1986,3746150.93,643241.57,1.02,MB
618-1985,3746172.75,643254.89,0.70,MB
618-1984,3746196.92,643263.20,0.88,MB
618-1983,3746222.33,643266.67,0.87,MB
618-1982,3746245.36,643275.96,0.72,MB
618-1980,3746251.01,643279.68,0.73,TBK
618-1979,3746267.80,643286.64,-0.39,WB 0.99' WATER
618-1978,3746290.74,643295.47,-0.46,WB 1.06' WATER
618-1977,3746313.77,643305.12,-0.33,WB 0.93' WATER
618-1976,3746336.91,643315.91,-0.55,WB 1.15' WATER
618-1975,3746359.61,643325.94,-0.60,WB 1.20' WATER
618-1974,3746380.51,643336.21,-0.63,WB 1.23' WATER
618-1973,3746405.84,643347.79,-0.80,WB 1.40' WATER
618-1972,3746427.84,643358.23,-0.56,WB 1.16' WATER
618-1971,3746450.03,643367.94,-0.47,WB 1.07' WATER
618-1970,3746473.79,643378.54,-0.58,WB 1.18' WATER
618-1969,3746497.17,643388.01,-0.58,WB 1.18' WATER
618-1968,3746521.08,643395.82,-0.52,WB 1.12' WATER
618-1967,3746543.55,643405.49,-0.48,WB 1.08' WATER
618-1966,3746566.74,643414.97,-0.44,WB 1.04' WATER
618-1965,3746589.29,643424.06,-0.50,WB 1.10' WATER
618-1964,3746613.37,643432.62,-0.60,WB 1.20' WATER
618-1963,3746636.27,643442.32,-0.60,WB 1.20' WATER
618-1962,3746659.54,643452.59,-0.64,WB 1.24' WATER
618-1961,3746682.84,643462.08,-0.72,WB 1.32' WATER
618-1960,3746705.55,643471.16,-0.70,WB 1.30' WATER
618-1959,3746728.53,643480.46,-0.69,WB 1.29' WATER
618-1958,3746752.24,643490.52,-0.76,WB 1.36' WATER
618-1957,3746774.81,643499.92,-0.82,WB 1.42' WATER
618-1956,3746797.82,643511.69,-0.70,WB 1.30' WATER
618-1955,3746818.78,643522.36,-0.74,WB 1.34' WATER
618-1954,3746844.35,643531.14,-0.95,WB 1.55' WATER
618-1953,3746867.19,643538.89,-0.82,WB 1.42' WATER
618-1952,3746889.41,643548.53,-0.83,WB 1.43' WATER
618-1951,3746913.23,643556.80,-1.00,WB 1.60' WATER
618-1950,3746937.25,643566.01,-0.91,WB 1.51' WATER
618-1949,3746959.98,643577.73,-1.06,WB 1.66' WATER
618-1948,3746982.89,643586.03,-1.23,WB 1.83' WATER
618-1947,3747007.35,643593.56,-1.21,WB 1.81' WATER
618-1946,3747030.07,643602.81,-1.22,WB 1.82' WATER
618-1945,3747052.90,643612.61,-1.17,WB 1.77' WATER
618-1944,3747076.51,643620.77,-1.04,WB 1.64' WATER
618-1943,3747099.94,643629.73,-1.09,WB 1.69' WATER

618-1942,3747122.31,643641.17,-0.66,WB 1.26' WATER
618-1941,3747145.62,643651.33,-0.61,WB 1.21' WATER
618-1940,3747168.85,643656.93,-0.97,WB 1.57' WATER
618-1939,3747193.63,643664.57,-1.10,WB 1.70' WATER
618-1938,3747217.56,643672.34,-0.93,WB 1.53' WATER
618-1937,3747240.65,643680.85,-0.76,WB 1.36' WATER
618-1934,3747264.59,643689.08,-0.06,WB 0.66' WATER
618-1936,3747268.57,643690.70,-0.47,WB 1.07' WATER
618-1931,3747287.69,643698.71,0.75,MB
618-1930,3747311.58,643706.98,0.83,MB
618-1929,3747334.37,643716.46,0.80,MB
618-1928,3747357.40,643726.53,0.98,MB
618-1927,3747380.34,643736.28,1.03,MB
618-1926,3747404.44,643743.39,1.09,MB
618-1925,3747428.48,643751.72,1.34,MB
618-1924,3747431.67,643753.44,0.60,MB
;
:TRANSECT 19 TOP WATER SHOTS
618-1981,3746250.83,643281.79,0.64,TOP WATER
618-1933,3747267.64,643689.22,0.56,TOP WATER
;
;
;TRANSECT 20
;0.58' AVG TOP WATER
618-2075,3745946.50,642622.51,0.40,EDGE MARSH
618-2074,3745956.66,642627.75,0.82,MB
618-2073,3745980.12,642636.13,1.00,MB
618-2072,3746002.90,642647.04,1.52,MB
618-2071,3746025.33,642657.51,1.08,MB
618-2070,3746048.39,642667.88,1.00,MB
618-2069,3746071.59,642676.63,0.79,MB
618-2068,3746095.33,642685.57,0.53,MB
618-2067,3746117.99,642694.45,0.99,MB
618-2066,3746142.04,642702.26,0.87,MB
618-2064,3746143.86,642702.58,0.47,TBK
618-2063,3746164.59,642713.69,-0.28,WB 0.86' WATER
618-2062,3746188.08,642723.69,-0.60,WB 1.18' WATER
618-2061,3746211.31,642733.70,-0.64,WB 1.22' WATER
618-2060,3746235.43,642741.05,-0.71,WB 1.29' WATER
618-2059,3746257.98,642750.82,-0.72,WB 1.30' WATER
618-2058,3746280.29,642759.86,-0.75,WB 1.33' WATER
618-2057,3746304.64,642768.87,-0.69,WB 1.27' WATER
618-2056,3746327.41,642778.62,-0.69,WB 1.27' WATER
618-2055,3746349.30,642789.78,-0.65,WB 1.23' WATER
618-2054,3746375.38,642793.63,-0.90,WB 1.48' WATER
618-2053,3746398.08,642802.60,-0.94,WB 1.52' WATER
618-2052,3746421.00,642812.67,-0.72,WB 1.30' WATER
618-2051,3746445.57,642822.19,-0.60,WB 1.18' WATER
618-2050,3746467.36,642831.54,-0.59,WB 1.17' WATER
618-2049,3746492.75,642840.79,-0.54,WB 1.12' WATER
618-2048,3746514.76,642848.91,-0.65,WB 1.23' WATER
618-2047,3746538.32,642858.20,-0.76,WB 1.34' WATER
618-2046,3746561.13,642868.24,-0.81,WB 1.39' WATER
618-2045,3746583.08,642880.45,-0.50,WB 1.08' WATER
618-2044,3746604.41,642894.25,-0.66,WB 1.24' WATER
618-2043,3746627.60,642900.93,-0.72,WB 1.30' WATER
618-2042,3746651.91,642908.33,-0.96,WB 1.54' WATER
618-2041,3746676.70,642917.25,-1.88,WB 2.46' WATER
618-2040,3746700.49,642921.93,-0.73,WB 1.31' WATER
618-2039,3746724.88,642932.28,-0.74,WB 1.32' WATER
618-2038,3746746.55,642941.13,-0.66,WB 1.24' WATER
618-2037,3746768.99,642953.42,-0.72,WB 1.30' WATER
618-2036,3746790.25,642966.50,-0.80,WB 1.38' WATER

618-2035,3746814.93,642972.61,-0.78,WB 1.36' WATER
618-2034,3746838.03,642984.37,-0.99,WB 1.57' WATER
618-2033,3746861.97,642991.72,-0.78,WB 1.36' WATER
618-2032,3746884.32,643001.77,-0.82,WB 1.40' WATER
618-2031,3746908.56,643008.94,-0.59,WB 1.17' WATER
618-2030,3746932.22,643019.04,-0.63,WB 1.21' WATER
618-2029,3746954.82,643027.46,-0.66,WB 1.24' WATER
618-2028,3746978.14,643035.45,-0.63,WB 1.21' WATER
618-2027,3747000.50,643048.03,-0.76,WB 1.34' WATER
618-2026,3747042.85,643073.63,-0.76,WB 1.34' WATER
618-2025,3747090.80,643087.81,-0.71,WB 1.29' WATER
618-2024,3747114.80,643096.97,-0.50,WB 1.08' WATER
618-2023,3747138.72,643106.37,-0.45,WB 1.03' WATER
618-2022,3747162.02,643115.30,-0.24,WB 0.82' WATER
618-2021,3747185.26,643124.37,-0.33,WB 0.91' WATER
618-2020,3747208.61,643133.17,0.01,WB 0.57' WATER
618-2019,3747232.40,643141.16,-0.09,WB 0.67' WATER
618-2018,3747257.46,643145.83,0.12,WB 0.46' WATER
618-2017,3747262.96,643148.46,0.53,TBK
618-2015,3747280.82,643153.64,0.73,MB
618-2014,3747303.66,643163.74,0.53,MB
618-2013,3747326.12,643176.39,0.37,MB
618-2012,3747349.67,643184.39,0.71,MB
618-2011,3747367.42,643193.03,0.64,TBK
618-2009,3747372.05,643194.68,0.56,WB 0.02' WATER
618-2008,3747395.62,643203.78,0.63,WB 0.01' WATER
618-2007,3747418.77,643211.99,0.68,WB 0.01' WATER
618-2006,3747442.32,643220.46,0.27,WB 0.31' WATER
618-2005,3747465.76,643230.41,-0.45,WB 1.03' WATER
618-2004,3747488.78,643240.78,0.33,WB 0.25' WATER
618-2003,3747512.44,643249.52,-0.61,WB 1.19' WATER
618-2002,3747536.42,643256.37,-0.13,WB 0.71' WATER
618-2001,3747558.88,643267.51,-0.26,WB 0.84' WATER
618-2000,3747581.49,643278.04,-0.25,WB 0.83' WATER
618-1999,3747604.86,643287.34,-0.07,WB 0.65' WATER
618-1998,3747627.52,643297.48,0.42,WB 0.16' WATER
618-1996,3747634.64,643299.07,0.59,TBK
618-1995,3747651.98,643304.05,1.06,MB
618-1994,3747673.36,643317.48,0.67,MB
618-1993,3747696.40,643327.81,1.48,MB
618-1992,3747720.11,643336.27,1.09,MB
618-1991,3747744.25,643344.71,1.10,MB
;
:TRANSECT 20 TOP WATER SHOTS
618-2076,3745946.59,642622.46,0.61,TOP WATER
618-2065,3746144.54,642703.15,0.53,TOP WATER
618-2016,3747263.08,643148.35,0.51,TOP WATER
618-2010,3747367.40,643193.08,0.64,TOP WATER
618-1997,3747634.59,643299.40,0.62,TOP WATER
;
;
;TRANSECT 21
;0.50' AVG TOP WATER
618-2216,3746087.16,642163.17,0.47,EDGE MARSH
618-2215,3746099.08,642168.54,1.12,MB
618-2214,3746122.56,642177.16,1.46,MB
618-2213,3746146.15,642185.05,0.75,MB
618-2212,3746169.38,642195.52,0.63,MB
618-2211,3746192.72,642205.18,0.80,MB
618-2210,3746214.96,642214.27,0.81,MB
618-2209,3746238.73,642223.62,0.76,MB
618-2208,3746261.62,642233.37,0.82,MB
618-2207,3746285.69,642240.20,0.84,MB

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618-2206,3746309.95,642247.67,0.72,MB
618-2205,3746332.71,642258.61,0.79,MB
618-2204,3746354.21,642270.66,0.41,MB
618-2202,3746358.77,642273.24,0.00,TBK
618-2201,3746377.25,642281.98,-0.59,WB 1.09' WATER
618-2200,3746401.14,642290.70,-0.89,WB 1.39' WATER
618-2199,3746424.20,642301.35,-0.87,WB 1.37' WATER
618-2198,3746446.98,642309.56,-0.65,WB 1.15' WATER
618-2197,3746470.16,642317.86,-0.90,WB 1.40' WATER
618-2196,3746493.51,642327.07,-0.88,WB 1.38' WATER
618-2195,3746516.79,642335.30,-0.96,WB 1.46' WATER
618-2194,3746540.40,642344.29,-0.91,WB 1.41' WATER
618-2193,3746563.78,642352.90,-0.88,WB 1.38' WATER
618-2192,3746587.33,642361.65,-1.04,WB 1.54' WATER
618-2191,3746611.82,642370.57,-0.79,WB 1.29' WATER
618-2190,3746635.32,642378.75,-0.69,WB 1.19' WATER
618-2189,3746658.44,642387.76,-0.85,WB 1.35' WATER
618-2188,3746681.06,642397.73,-0.87,WB 1.37' WATER
618-2187,3746704.41,642407.16,-0.86,WB 1.36' WATER
618-2186,3746726.99,642416.43,-0.82,WB 1.32' WATER
618-2185,3746750.69,642425.27,-0.91,WB 1.41' WATER
618-2184,3746773.44,642435.31,-0.88,WB 1.38' WATER
618-2183,3746796.02,642445.89,-0.92,WB 1.42' WATER
618-2182,3746819.39,642454.62,-0.93,WB 1.43' WATER
618-2181,3746843.45,642462.67,-0.95,WB 1.45' WATER
618-2180,3746867.29,642470.68,-0.80,WB 1.30' WATER
618-2179,3746890.26,642481.42,-0.84,WB 1.34' WATER
618-2178,3746912.56,642491.83,-0.84,WB 1.34' WATER
618-2177,3746936.07,642501.76,-0.84,WB 1.34' WATER
618-2176,3746959.05,642510.40,-0.80,WB 1.30' WATER
618-2175,3746981.46,642518.54,-0.87,WB 1.37' WATER
618-2174,3747004.57,642527.50,-0.88,WB 1.38' WATER
618-2173,3747029.47,642537.83,-0.80,WB 1.30' WATER
618-2172,3747051.77,642545.80,-0.84,WB 1.34' WATER
618-2171,3747075.28,642557.12,-0.81,WB 1.31' WATER
618-2170,3747097.85,642566.17,-0.82,WB 1.32' WATER
618-2169,3747121.22,642574.90,-0.92,WB 1.42' WATER
618-2168,3747145.24,642584.84,-0.72,WB 1.22' WATER
618-2167,3747167.42,642592.98,-0.85,WB 1.35' WATER
618-2166,3747189.71,642602.18,-0.93,WB 1.43' WATER
618-2165,3747215.02,642612.25,-1.18,WB 1.68' WATER
618-2164,3747237.19,642620.86,-1.03,WB 1.53' WATER
618-2163,3747260.55,642632.25,-1.06,WB 1.56' WATER
618-2162,3747282.02,642644.50,-0.84,WB 1.34' WATER
618-2161,3747309.38,642644.41,-1.01,WB 1.51' WATER
618-2160,3747330.16,642656.52,-0.92,WB 1.42' WATER
618-2159,3747355.56,642663.71,-1.02,WB 1.52' WATER
618-2158,3747377.34,642675.41,-1.27,WB 1.77' WATER
618-2157,3747398.07,642690.54,-1.31,WB 1.81' WATER
618-2156,3747422.86,642696.83,-1.23,WB 1.73' WATER
618-2155,3747447.11,642704.56,-1.14,WB 1.64' WATER
618-2154,3747469.50,642711.66,-1.24,WB 1.74' WATER
618-2153,3747494.73,642720.53,-1.32,WB 1.82' WATER
618-2152,3747518.38,642726.09,-1.12,WB 1.62' WATER
618-2151,3747541.08,642737.61,-1.12,WB 1.62' WATER
618-2150,3747563.48,642750.59,-1.09,WB 1.59' WATER
618-2149,3747584.64,642762.99,-1.16,WB 1.66' WATER
618-2148,3747611.03,642764.03,-1.05,WB 1.55' WATER
618-2147,3747633.59,642775.64,-0.95,WB 1.45' WATER
618-2146,3747656.44,642784.88,-0.85,WB 1.35' WATER
618-2145,3747679.69,642794.80,-0.76,WB 1.26' WATER
618-2144,3747702.93,642803.08,-0.76,WB 1.26' WATER
618-2143,3747726.57,642813.53,-0.69,WB 1.19' WATER
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618-2142,3747749.77,642822.65,-0.94,WB 1.44' WATER
618-2141,3747774.20,642829.90,-0.89,WB 1.39' WATER
618-2140,3747795.30,642842.57,-0.83,WB 1.33' WATER
618-2139,3747819.08,642850.79,-0.81,WB 1.31' WATER
618-2138,3747822.24,642853.38,-0.04,WB 0.54' WATER
618-2132,3747842.88,642857.57,-0.77,WB 1.27' WATER
618-2131,3747866.40,642867.06,-0.90,WB 1.40' WATER
618-2130,3747890.22,642875.85,-0.83,WB 1.33' WATER
618-2129,3747912.82,642885.93,-0.75,WB 1.25' WATER
618-2128,3747935.83,642894.28,-0.92,WB 1.42' WATER
618-2127,3747959.60,642904.10,-0.89,WB 1.39' WATER
618-2126,3747982.78,642913.79,-1.13,WB 1.63' WATER
618-2125,3748006.02,642922.85,-1.31,WB 1.81' WATER
618-2124,3748029.06,642930.63,-0.99,WB 1.49' WATER
618-2123,3748052.58,642942.01,-0.90,WB 1.40' WATER
618-2122,3748075.36,642950.54,-0.95,WB 1.45' WATER
618-2121,3748099.07,642959.25,-0.74,WB 1.24' WATER
618-2120,3748121.44,642970.69,-0.69,WB 1.19' WATER
618-2119,3748144.96,642980.12,-0.58,WB 1.08' WATER
618-2118,3748168.11,642987.31,-0.53,WB 1.03' WATER
618-2117,3748191.89,642997.73,-0.73,WB 1.23' WATER
618-2116,3748214.32,643008.08,-0.73,WB 1.23' WATER
618-2115,3748238.54,643014.11,-0.55,WB 1.05' WATER
618-2114,3748260.82,643025.04,-0.41,WB 0.91' WATER
618-2113,3748284.29,643033.48,-0.43,WB 0.93' WATER
618-2112,3748307.50,643042.85,-0.45,WB 0.95' WATER
618-2111,3748329.90,643052.03,-0.66,WB 1.16' WATER
618-2110,3748354.53,643059.75,-0.77,WB 1.27' WATER
618-2109,3748376.48,643069.53,-0.85,WB 1.35' WATER
618-2108,3748400.34,643079.33,-0.74,WB 1.24' WATER
618-2107,3748424.36,643088.26,-0.93,WB 1.43' WATER
618-2106,3748447.40,643096.04,-1.01,WB 1.51' WATER
618-2105,3748470.34,643106.55,-0.84,WB 1.34' WATER
618-2104,3748492.28,643117.82,-0.92,WB 1.42' WATER
618-2103,3748516.77,643123.94,-0.54,WB 1.04' WATER
618-2102,3748538.99,643138.54,-0.71,WB 1.21' WATER
618-2101,3748562.59,643146.77,-1.09,WB 1.59' WATER
618-2100,3748586.07,643153.70,-1.49,WB 1.99' WATER
618-2099,3748610.36,643161.22,-1.48,WB 1.98' WATER
618-2098,3748632.07,643173.77,-1.50,WB 2.00' WATER
618-2097,3748656.18,643182.07,-1.43,WB 1.93' WATER
618-2096,3748679.22,643190.55,-1.36,WB 1.86' WATER
618-2095,3748703.23,643198.73,-1.27,WB 1.77' WATER
618-2094,3748725.51,643209.68,-1.34,WB 1.84' WATER
618-2093,3748732.10,643216.88,-1.31,WB 1.81' WATER
618-2092,3748771.01,643229.55,-1.37,WB 1.87' WATER
618-2091,3748793.36,643241.11,-1.20,WB 1.70' WATER
618-2090,3748817.36,643247.92,-0.86,WB 1.36' WATER
618-2089,3748841.16,643256.48,-1.33,WB 1.83' WATER
618-2088,3748866.17,643263.59,-0.53,WB 1.03' WATER
618-2087,3748886.05,643278.21,-0.56,WB 1.06' WATER
618-2086,3748911.37,643285.30,-0.71,WB 1.21' WATER
618-2085,3748938.20,643295.86,-0.70,WB 1.20' WATER
618-2084,3748957.66,643302.57,-0.67,WB 1.17' WATER
618-2083,3748980.14,643313.73,-0.50,WB 1.00' WATER
618-2082,3749004.59,643320.26,-0.65,WB 1.15' WATER
618-2081,3749025.41,643335.27,-1.41,WB 1.91' WATER
618-2080,3749049.57,643342.55,-1.03,WB 1.53' WATER
618-2079,3749073.20,643350.43,-0.71,WB 1.21' WATER
618-2078,3749096.58,643360.13,-0.46,WB 0.96' WATER
618-2077,3749119.33,643369.89,-0.12,WB 0.62' WATER
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:TRANSECT 21 TOP WATER SHOTS
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618-2203,3746366.06,642274.02,0.50,TOP WATER
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;
;TRANSECT 22
;0.46' AVG TOP WATER
618-2349,3746411.64,641728.25,0.62,EDGE MARSH
618-2348,3746418.62,641732.00,1.24,MB
618-2347,3746442.04,641741.82,1.10,MB
618-2346,3746465.64,641749.95,1.04,MB
618-2345,3746488.97,641757.42,0.87,MB
618-2344,3746511.40,641768.31,0.81,MB
618-2343,3746533.82,641779.35,0.49,MB
618-2342,3746556.13,641790.57,0.88,MB
618-2341,3746580.08,641799.57,0.67,MB
618-2340,3746602.89,641808.90,0.80,MB
618-2339,3746625.43,641818.94,0.09,MB
618-2338,3746649.34,641827.44,0.64,MB
618-2337,3746672.34,641836.41,0.75,MB
618-2335,3746686.46,641842.85,-0.04,TBK
618-2334,3746695.12,641846.30,-0.63,WB 1.09' WATER
618-2333,3746719.35,641855.49,-0.67,WB 1.13' WATER
618-2332,3746743.19,641865.44,-0.12,WB 0.58' WATER
618-2331,3746765.20,641875.72,-0.24,WB 0.70' WATER
618-2330,3746787.99,641885.29,-0.62,WB 1.08' WATER
618-2329,3746811.99,641895.87,-0.90,WB 1.36' WATER
618-2328,3746833.70,641905.97,-0.77,WB 1.23' WATER
618-2327,3746857.91,641914.72,-0.76,WB 1.22' WATER
618-2326,3746879.86,641925.14,-0.69,WB 1.15' WATER
618-2325,3746902.78,641933.73,-1.22,WB 1.68' WATER
618-2324,3746927.52,641943.52,-1.34,WB 1.80' WATER
618-2323,3746949.08,641951.92,-1.65,WB 2.11' WATER
618-2322,3746973.05,641960.61,-1.64,WB 2.10' WATER
618-2321,3746996.29,641968.39,-1.31,WB 1.77' WATER
618-2320,3747019.81,641977.46,-1.75,WB 2.21' WATER
618-2319,3747042.96,641986.49,-1.69,WB 2.15' WATER
618-2318,3747065.58,641995.33,-1.65,WB 2.11' WATER
618-2317,3747090.47,642002.83,-1.17,WB 1.63' WATER
618-2316,3747113.72,642013.88,-1.18,WB 1.64' WATER
618-2315,3747136.09,642023.42,-1.35,WB 1.81' WATER
618-2314,3747161.97,642032.52,-1.22,WB 1.68' WATER
618-2313,3747183.29,642040.97,-1.15,WB 1.61' WATER
618-2312,3747207.29,642050.64,-1.28,WB 1.74' WATER
618-2311,3747229.09,642059.73,-1.63,WB 2.09' WATER
618-2310,3747253.09,642069.43,-1.49,WB 1.95' WATER
618-2309,3747275.56,642077.73,-1.47,WB 1.93' WATER
618-2308,3747300.41,642087.22,-1.38,WB 1.84' WATER
618-2307,3747322.58,642096.56,-1.50,WB 1.96' WATER
618-2306,3747345.29,642106.45,-1.31,WB 1.77' WATER
618-2305,3747369.36,642116.12,-1.59,WB 2.05' WATER
618-2304,3747392.35,642125.98,-1.40,WB 1.86' WATER
618-2303,3747414.00,642136.11,-1.40,WB 1.86' WATER
618-2302,3747437.07,642148.90,-1.25,WB 1.71' WATER
618-2301,3747458.84,642157.34,-1.35,WB 1.81' WATER
618-2300,3747482.20,642166.69,-1.55,WB 2.01' WATER
618-2299,3747505.61,642176.89,-1.51,WB 1.97' WATER
618-2298,3747528.57,642187.23,-1.46,WB 1.92' WATER
618-2297,3747551.14,642198.22,-1.74,WB 2.20' WATER
618-2296,3747574.85,642207.36,-1.55,WB 2.01' WATER
618-2295,3747597.18,642216.73,-1.50,WB 1.96' WATER
618-2294,3747620.81,642225.16,-1.68,WB 2.14' WATER
618-2293,3747645.74,642234.23,-1.58,WB 2.04' WATER
618-2292,3747668.04,642245.96,-1.59,WB 2.05' WATER
618-2291,3747715.04,642262.54,-1.49,WB 1.95' WATER
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618-2290,3747737.69,642271.18,-1.73,WB 2.19' WATER
618-2289,3747760.71,642279.87,-1.54,WB 2.00' WATER
618-2288,3747783.83,642288.01,-1.56,WB 2.02' WATER
618-2287,3747808.51,642298.68,-1.72,WB 2.18' WATER
618-2286,3747834.89,642298.05,-1.71,WB 2.17' WATER
618-2285,3747852.43,642316.12,-1.12,WB 1.58' WATER
618-2284,3747876.63,642325.85,-1.08,WB 1.54' WATER
618-2283,3747897.90,642335.23,-0.99,WB 1.45' WATER
618-2282,3747923.09,642344.92,-1.03,WB 1.49' WATER
618-2281,3747944.62,642353.65,-1.02,WB 1.48' WATER
618-2280,3747968.40,642365.31,-1.09,WB 1.55' WATER
618-2279,3747994.42,642373.55,-0.99,WB 1.45' WATER
618-2278,3748015.94,642380.79,-1.12,WB 1.58' WATER
618-2277,3748039.16,642390.36,-1.15,WB 1.61' WATER
618-2276,3748062.74,642401.43,-1.11,WB 1.57' WATER
618-2275,3748085.64,642409.48,-1.17,WB 1.63' WATER
618-2274,3748109.12,642418.80,-1.24,WB 1.70' WATER
618-2273,3748132.36,642428.30,-1.26,WB 1.72' WATER
618-2272,3748155.52,642436.92,-1.15,WB 1.61' WATER
618-2271,3748178.66,642447.68,-1.32,WB 1.78' WATER
618-2270,3748201.98,642456.09,-1.17,WB 1.63' WATER
618-2269,3748224.73,642466.13,-1.04,WB 1.50' WATER
618-2268,3748248.62,642474.26,-1.07,WB 1.53' WATER
618-2267,3748271.65,642484.24,-1.10,WB 1.56' WATER
618-2266,3748294.24,642494.46,-1.09,WB 1.55' WATER
618-2265,3748317.90,642503.78,-1.08,WB 1.54' WATER
618-2264,3748340.32,642514.67,-1.13,WB 1.59' WATER
618-2263,3748364.59,642522.92,-1.56,WB 2.02' WATER
618-2262,3748387.84,642530.46,-1.55,WB 2.01' WATER
618-2261,3748411.31,642540.98,-1.58,WB 2.04' WATER
618-2260,3748434.11,642547.74,-0.92,WB 1.38' WATER
618-2259,3748456.87,642560.23,-1.38,WB 1.84' WATER
618-2258,3748479.35,642569.55,-1.35,WB 1.81' WATER
618-2257,3748502.54,642579.69,-1.49,WB 1.95' WATER
618-2256,3748525.66,642588.54,-1.44,WB 1.90' WATER
618-2255,3748550.44,642597.54,-1.40,WB 1.86' WATER
618-2254,3748572.76,642606.27,-1.52,WB 1.98' WATER
618-2253,3748597.12,642615.07,-1.55,WB 2.01' WATER
618-2252,3748619.15,642623.15,-1.69,WB 2.15' WATER
618-2251,3748642.92,642633.38,-1.49,WB 1.95' WATER
618-2250,3748665.98,642642.12,-1.55,WB 2.01' WATER
618-2249,3748689.58,642651.44,-1.51,WB 1.97' WATER
618-2248,3748711.87,642660.59,-1.62,WB 2.08' WATER
618-2247,3748735.08,642669.86,-1.60,WB 2.06' WATER
618-2246,3748758.47,642679.95,-1.57,WB 2.03' WATER
618-2245,3748781.63,642689.99,-1.73,WB 2.19' WATER
618-2244,3748803.86,642699.46,-1.73,WB 2.19' WATER
618-2243,3748827.61,642709.17,-1.69,WB 2.15' WATER
618-2242,3748849.83,642720.06,-1.73,WB 2.19' WATER
618-2241,3748873.57,642729.32,-1.69,WB 2.15' WATER
618-2240,3748896.96,642738.10,-1.87,WB 2.33' WATER
618-2239,3748919.65,642746.95,-1.70,WB 2.16' WATER
618-2238,3748943.58,642756.45,-1.59,WB 2.05' WATER
618-2237,3748966.50,642765.49,-1.64,WB 2.10' WATER
618-2236,3748989.57,642775.22,-1.68,WB 2.14' WATER
618-2235,3749013.74,642783.13,-1.49,WB 1.95' WATER
618-2234,3749036.98,642793.56,-1.52,WB 1.98' WATER
618-2233,3749060.13,642799.83,-1.52,WB 1.98' WATER
618-2232,3749083.45,642809.66,-1.47,WB 1.93' WATER
618-2231,3749106.65,642820.50,-1.43,WB 1.89' WATER
618-2230,3749130.09,642828.33,-1.44,WB 1.90' WATER
618-2229,3749153.66,642834.92,-1.42,WB 1.88' WATER
618-2228,3749177.70,642844.85,-1.33,WB 1.79' WATER
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618-2227,3749199.22,642856.44,-1.28,WB 1.74' WATER
618-2226,3749222.83,642866.26,-1.19,WB 1.65' WATER
618-2225,3749246.29,642874.05,-0.94,WB 1.40' WATER
618-2224,3749267.63,642888.85,-0.60,WB 1.06' WATER
618-2223,3749291.11,642896.05,-0.51,WB 0.97' WATER
618-2221,3749302.67,642896.21,0.88,TBK
618-2220,3749316.58,642900.90,1.16,MB
618-2219,3749338.97,642912.75,0.92,MB
618-2218,3749362.57,642919.90,1.66,MB
618-2217,3749385.12,642930.33,0.88,MB
;
;TRANSECT 22 TOP WATER SHOTS
618-2222,3749301.45,642895.47,00.46,TOP WATER
;
;
;TRANSECT 23
;0.28' AVG TOP WATER
618-2523,3746498.45,641222.22,0.05,EDGE MARSH
618-2522,3746511.10,641228.54,1.20,MB
618-2521,3746533.94,641238.92,1.26,MB
618-2520,3746556.65,641248.14,0.89,MB
618-2519,3746579.59,641259.41,0.90,MB
618-2518,3746602.80,641270.66,0.99,MB
618-2517,3746627.73,641275.43,0.67,MB
618-2516,3746650.12,641284.30,0.89,MB
618-2515,3746672.84,641295.79,0.68,MB
618-2514,3746696.49,641305.32,0.41,MB
618-2513,3746718.98,641314.92,0.60,MB
618-2512,3746742.21,641325.06,0.38,MB
618-2511,3746765.24,641334.41,0.65,MB
618-2510,3746782.68,641343.08,0.13,TBK
618-2508,3746787.77,641346.43,-0.25,WB 0.53' WATER
618-2507,3746811.07,641353.56,-0.35,WB 0.63' WATER
618-2506,3746834.17,641364.21,-0.22,WB 0.50' WATER
618-2505,3746858.59,641369.82,-0.37,WB 0.65' WATER
618-2504,3746876.84,641382.97,0.27,MB
618-2503,3746880.69,641383.71,0.74,MB
618-2502,3746898.49,641388.80,0.30,MB
618-2501,3746903.18,641392.09,-0.15,WB 0.43' WATER
618-2500,3746927.51,641400.22,-0.54,WB 0.82' WATER
618-2499,3746949.89,641410.57,-0.09,WB 0.37' WATER
618-2497,3746973.04,641421.50,-0.09,WB 0.37' WATER
618-2496,3746977.03,641422.03,0.63,TBK
618-2495,3746995.83,641430.80,0.70,MB
618-2494,3747019.43,641440.53,0.79,MB
618-2493,3747042.87,641447.17,0.56,MB
618-2492,3747067.33,641453.70,0.39,MB
618-2491,3747089.46,641465.25,0.79,MB
618-2490,3747111.76,641476.72,0.83,MB
618-2489,3747134.75,641486.74,0.58,MB
618-2488,3747158.78,641494.84,0.50,MB
618-2487,3747181.42,641504.55,0.64,MB
618-2486,3747204.98,641513.40,0.58,MB
618-2485,3747227.67,641523.14,0.98,MB
618-2484,3747250.71,641532.56,0.51,MB
618-2483,3747274.93,641540.66,0.92,MB
618-2482,3747297.54,641550.83,0.85,MB
618-2481,3747321.71,641559.80,0.69,MB
618-2472,3747338.93,641568.90,0.29,TBK
618-2471,3747343.39,641571.22,-0.32,WB 0.60' WATER
618-2470,3747367.00,641579.91,-0.41,WB 0.69' WATER
618-2469,3747390.16,641588.68,-0.87,WB 1.15' WATER
618-2468,3747412.91,641600.80,-0.79,WB 1.07' WATER
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618-2467,3747434.30,641612.26,-0.80,WB 1.08' WATER
618-2466,3747454.36,641617.58,-0.01,WB 0.29' WATER
618-2465,3747457.70,641617.32,0.33,MB
618-2464,3747460.05,641617.88,-0.14,WB 0.42' WATER
618-2463,3747483.51,641624.86,-0.10,WB 0.38' WATER
618-2461,3747484.90,641626.60,0.19,TBK
618-2459,3747507.53,641633.58,0.23,TBK
618-2458,3747530.21,641641.67,-0.81,WB 1.09' WATER
618-2457,3747553.69,641651.14,-0.50,WB 0.78' WATER
618-2456,3747577.06,641659.90,-0.50,WB 0.78' WATER
618-2455,3747601.20,641666.70,-1.12,WB 1.40' WATER
618-2454,3747623.86,641678.32,-0.85,WB 1.13' WATER
618-2453,3747646.79,641686.86,-0.91,WB 1.19' WATER
618-2452,3747668.92,641700.00,-0.86,WB 1.14' WATER
618-2451,3747692.55,641708.26,0.21,MB 0.07' WATER
618-2450,3747715.35,641719.00,-0.14,WB 0.42' WATER
618-2449,3747738.75,641727.81,0.03,WB 0.25' WATER
618-2448,3747762.37,641737.90,-0.51,WB 0.79' WATER
618-2447,3747784.92,641748.93,-0.43,WB 0.71' WATER
618-2446,3747807.41,641757.50,-0.70,WB 0.98' WATER
618-2445,3747830.42,641766.23,-0.55,WB 0.83' WATER
618-2444,3747855.31,641774.72,-0.72,WB 1.00' WATER
618-2443,3747878.01,641782.04,-0.64,WB 0.92' WATER
618-2441,3747896.01,641789.70,0.55,TBK
618-2440,3747901.81,641791.21,0.57,MB
618-2439,3747924.77,641800.98,0.51,MB
618-2438,3747947.63,641809.92,0.66,MB
618-2437,3747971.73,641818.82,0.95,MB
618-2436,3747993.74,641830.37,0.32,MB
618-2435,3747992.85,641829.19,0.65,TBK
618-2434,3747993.81,641829.84,-0.50,WB 0.78' WATER
618-2433,3748017.98,641838.52,-0.27,WB 0.55' WATER
618-2432,3748024.20,641845.11,-0.41,WB 0.69' WATER
618-2430,3748050.09,641847.84,0.91,TBK
618-2429,3748065.35,641854.67,0.99,MB
618-2428,3748088.55,641864.53,0.60,MB
618-2427,3748105.98,641875.04,0.19,TBK
618-2426,3748109.56,641875.54,-0.40,WB 0.68' WATER
618-2425,3748112.43,641875.64,0.65,TBK
618-2424,3748130.88,641890.86,0.43,MB
618-2423,3748154.25,641899.32,0.49,MB
618-2422,3748177.65,641909.36,0.56,MB
618-2420,3748183.34,641909.70,0.71,TBK
618-2419,3748201.39,641917.62,-0.05,WB 0.33' WATER
618-2418,3748224.91,641926.16,-0.12,WB 0.40' WATER
618-2417,3748247.94,641935.32,-0.04,WB 0.32' WATER
618-2416,3748271.78,641943.84,-0.17,WB 0.45' WATER
618-2414,3748274.81,641946.84,0.57,TBK
618-2413,3748294.56,641955.04,0.55,MB
618-2412,3748320.37,641957.23,0.76,MB
618-2411,3748343.21,641966.91,0.85,MB
618-2410,3748366.11,641976.95,0.35,MB
618-2409,3748376.85,641986.02,0.39,MB
618-2408,3748374.48,641985.80,0.50,TBK
618-2407,3748387.89,641990.22,-0.62,WB 0.90' WATER
618-2406,3748409.87,642000.87,-0.68,WB 0.96' WATER
618-2405,3748433.20,642012.71,-0.71,WB 0.99' WATER
618-2404,3748456.65,642019.72,-0.75,WB 1.03' WATER
618-2403,3748479.04,642031.04,-0.71,WB 0.99' WATER
618-2402,3748502.10,642039.87,-0.68,WB 0.96' WATER
618-2401,3748526.84,642047.42,-0.72,WB 1.00' WATER
618-2400,3748548.70,642060.22,-0.76,WB 1.04' WATER
618-2399,3748573.22,642064.24,-0.56,WB 0.84' WATER
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618-2398,3748596.07,642074.48,-0.85,WB 1.13' WATER
618-2397,3748618.82,642085.73,-0.76,WB 1.04' WATER
618-2396,3748642.54,642097.52,-0.80,WB 1.08' WATER
618-2395,3748663.96,642107.22,-0.88,WB 1.16' WATER
618-2394,3748687.38,642116.19,-0.82,WB 1.10' WATER
618-2393,3748711.25,642124.74,-0.72,WB 1.00' WATER
618-2392,3748735.93,642133.11,-0.86,WB 1.14' WATER
618-2391,3748757.53,642140.48,-0.86,WB 1.14' WATER
618-2390,3748780.90,642150.36,-0.90,WB 1.18' WATER
618-2389,3748802.15,642161.84,-0.88,WB 1.16' WATER
618-2388,3748826.00,642170.71,-0.78,WB 1.06' WATER
618-2387,3748850.56,642178.48,-0.71,WB 0.99' WATER
618-2386,3748873.11,642188.51,-0.81,WB 1.09' WATER
618-2385,3748897.05,642198.87,-0.74,WB 1.02' WATER
618-2384,3748920.22,642207.00,-0.92,WB 1.20' WATER
618-2383,3748943.50,642216.24,-0.81,WB 1.09' WATER
618-2382,3748965.75,642225.02,-0.80,WB 1.08' WATER
618-2381,3748989.65,642233.42,-0.84,WB 1.12' WATER
618-2380,3749013.28,642242.86,-0.82,WB 1.10' WATER
618-2379,3749036.49,642252.31,-0.78,WB 1.06' WATER
618-2378,3749059.34,642261.76,-0.90,WB 1.18' WATER
618-2377,3749083.19,642268.87,-0.75,WB 1.03' WATER
618-2376,3749106.70,642280.07,-0.77,WB 1.05' WATER
618-2375,3749129.04,642288.64,-0.72,WB 1.00' WATER
618-2374,3749152.58,642297.61,-0.88,WB 1.16' WATER
618-2373,3749176.37,642307.04,-0.78,WB 1.06' WATER
618-2372,3749198.64,642317.87,-0.82,WB 1.10' WATER
618-2371,3749221.20,642327.76,-0.81,WB 1.09' WATER
618-2370,3749244.22,642337.93,-0.91,WB 1.19' WATER
618-2369,3749267.92,642347.26,-0.99,WB 1.27' WATER
618-2368,3749291.03,642356.18,-0.95,WB 1.23' WATER
618-2367,3749313.62,642366.37,-1.10,WB 1.38' WATER
618-2366,3749337.16,642377.31,-1.00,WB 1.28' WATER
618-2365,3749360.06,642385.49,-1.12,WB 1.40' WATER
618-2364,3749383.99,642394.10,-0.87,WB 1.15' WATER
618-2363,3749407.29,642400.98,-0.95,WB 1.23' WATER
618-2362,3749430.28,642409.84,-0.85,WB 1.13' WATER
618-2361,3749454.70,642417.85,-0.45,WB 0.73' WATER
618-2360,3749477.40,642428.91,-0.62,WB 0.90' WATER
618-2359,3749499.61,642438.79,-0.47,WB 0.75' WATER
618-2358,3749524.18,642448.68,-0.13,WB 0.41' WATER
618-2357,3749549.94,642457.54,-0.37,WB 0.65' WATER
618-2356,3749570.44,642467.03,-0.15,WB 0.43' WATER
618-2354,3749585.02,642473.74,0.71,TBK
618-2353,3749593.23,642475.56,0.94,MB
618-2352,3749615.88,642485.46,0.99,MB
618-2351,3749639.62,642494.38,0.95,MB
618-2350,3749663.56,642503.41,0.89,MB
;
;TRANSECT 23 TOP WATER SHOTS
618-2498,3746969.66,641420.93,0.11,TOP WATER
618-2460,3747508.37,641634.89,0.07,TOP WATER
618-2442,3747895.99,641788.99,0.29,TOP WATER
618-2431,3748048.94,641848.03,0.33,TOP WATER
618-2421,3748184.90,641910.25,0.44,TOP WATER
618-2415,3748273.24,641945.49,0.39,TOP WATER
618-2355,3749584.21,642472.43,0.58,TOP WATER
612-1649,3747333.88,641519.14,0.06,TOP WATER
;
;
;TRANSECT 24
;0.17' AVG TOP WATER
618-2524,3746549.38,640704.36,0.20,EDGE MARSH
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618-2525,3746554.77,640707.24,1.23,MB
618-2526,3746577.60,640717.51,0.87,MB
618-2527,3746588.39,640719.17,0.19,TBK
618-2529,3746604.87,640727.42,-1.57,WB 1.85' WATER
618-2530,3746614.94,640731.87,0.00,TBK
618-2532,3746624.45,640733.85,1.09,MB
618-2533,3746646.94,640745.73,1.15,MB
618-2534,3746670.60,640754.40,1.19,MB
618-2535,3746694.11,640762.84,0.96,MB
618-2536,3746717.09,640771.99,0.99,MB
618-2537,3746740.61,640781.27,1.21,MB
618-2538,3746763.78,640790.65,1.07,MB
618-2539,3746786.27,640802.32,0.99,MB
618-2540,3746807.67,640815.47,0.99,MB
618-2541,3746831.86,640822.09,0.84,MB
618-2542,3746854.84,640832.02,0.75,MB
618-2543,3746878.70,640839.43,0.86,MB
618-2544,3746901.83,640848.48,1.12,MB
618-2545,3746925.57,640857.40,0.81,MB
618-2546,3746948.41,640867.01,0.83,MB
618-2547,3746970.98,640876.68,0.79,MB
618-2548,3746994.32,640886.65,0.20,MB
618-2549,3747018.30,640894.89,0.88,MB
618-2550,3747041.29,640903.56,0.88,MB
618-2551,3747064.82,640912.69,0.90,MB
618-2552,3747087.93,640923.21,0.66,MB
618-2553,3747111.22,640931.90,0.62,MB
618-2554,3747133.34,640941.57,0.69,MB
618-2555,3747157.37,640951.02,0.75,MB
618-2556,3747180.20,640961.00,1.05,MB
618-2557,3747203.46,640970.26,1.01,MB
618-2558,3747225.81,640979.77,0.56,MB
618-2559,3747249.47,640989.45,0.49,MB
618-2560,3747272.15,640998.73,0.86,MB
618-2561,3747295.96,641007.99,0.69,MB
618-2562,3747318.36,641017.22,0.42,MB
618-2563,3747342.83,641025.54,0.76,MB
618-2564,3747365.74,641035.13,0.99,MB
618-2565,3747388.93,641045.22,0.91,MB
618-2566,3747411.94,641053.51,1.23,MB
618-2567,3747435.20,641063.98,0.52,MB
618-2568,3747458.68,641072.97,0.83,MB
618-2569,3747482.25,641081.31,0.97,MB
618-2570,3747505.03,641090.66,0.82,MB
618-2571,3747528.48,641099.22,1.16,MB
618-2572,3747551.83,641109.22,1.04,MB
618-2573,3747574.47,641118.52,0.96,MB
618-2574,3747589.28,641125.88,-0.07,TBK
618-2575,3747596.84,641129.85,-0.78,WB 1.06' WATER
618-2576,3747611.49,641136.08,0.15,TBK
618-2577,3747621.63,641136.83,1.10,MB
618-2578,3747643.89,641147.67,1.14,MB
618-2579,3747667.75,641156.01,0.65,MB
618-2581,3747690.28,641165.65,0.99,MB
618-2582,3747713.87,641175.37,0.60,MB
618-2583,3747736.08,641185.21,0.75,MB
618-2584,3747759.15,641195.53,1.13,MB
618-2585,3747782.01,641205.05,1.22,MB
618-2587,3747806.08,641213.54,1.03,MB
618-2588,3747828.57,641222.94,1.29,MB
618-2589,3747851.86,641232.45,1.30,MB
618-2590,3747875.23,641242.23,1.10,MB
618-2591,3747898.35,641251.66,0.99,MB
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618-2592,3747920.91,641262.18,0.60,MB
618-2593,3747944.92,641270.41,0.76,MB
618-2594,3747967.91,641280.74,0.72,MB
618-2595,3747991.30,641289.66,0.74,MB
618-2596,3748014.53,641298.15,0.79,MB
618-2597,3748037.94,641306.91,0.94,MB
618-2598,3748061.40,641316.07,0.84,MB
618-2599,3748084.80,641325.18,0.49,MB
618-2600,3748106.74,641335.87,0.52,MB
618-2601,3748129.34,641348.52,0.48,MB
618-2602,3748151.55,641357.98,0.38,MB
618-2603,3748177.17,641362.65,0.97,MB
618-2604,3748198.38,641376.06,1.01,MB
618-2605,3748222.99,641383.42,0.72,MB
618-2606,3748243.47,641392.63,0.04,TBK
618-2608,3748244.87,641394.85,-0.48,WB 0.76' WATER
618-2609,3748268.25,641405.00,-0.64,WB 0.92' WATER
618-2610,3748269.86,641405.99,0.47,TBK
618-2612,3748290.16,641410.12,-0.08,TBK
618-2614,3748292.82,641410.68,-0.61,WB 0.89' WATER
618-2615,3748315.99,641418.93,-1.03,WB 1.31' WATER
618-2616,3748339.17,641430.08,-0.82,WB 1.10' WATER
618-2617,3748361.95,641440.77,-1.03,WB 1.31' WATER
618-2618,3748384.62,641448.84,-0.95,WB 1.23' WATER
618-2619,3748409.47,641457.39,-1.09,WB 1.37' WATER
618-2620,3748431.07,641467.88,-0.99,WB 1.27' WATER
618-2621,3748453.76,641478.93,-1.05,WB 1.33' WATER
618-2622,3748478.15,641487.85,-0.96,WB 1.24' WATER
618-2623,3748500.62,641497.18,-0.84,WB 1.12' WATER
618-2624,3748524.51,641505.97,-1.02,WB 1.30' WATER
618-2625,3748548.64,641514.31,-1.40,WB 1.68' WATER
618-2626,3748570.93,641523.26,-1.62,WB 1.90' WATER
618-2627,3748595.45,641530.82,-1.25,WB 1.53' WATER
618-2628,3748615.96,641541.29,-1.22,WB 1.50' WATER
618-2629,3748640.59,641550.96,-1.23,WB 1.51' WATER
618-2630,3748663.51,641560.33,-1.15,WB 1.43' WATER
618-2631,3748686.66,641570.68,-1.35,WB 1.63' WATER
618-2632,3748709.85,641579.62,-1.20,WB 1.48' WATER
618-2633,3748730.97,641594.32,-1.10,WB 1.38' WATER
618-2634,3748756.73,641598.11,-0.91,WB 1.19' WATER
618-2635,3748779.71,641607.97,-0.92,WB 1.20' WATER
618-2636,3748802.41,641617.98,-0.88,WB 1.16' WATER
618-2637,3748826.09,641627.50,-0.93,WB 1.21' WATER
618-2638,3748849.68,641637.52,-0.96,WB 1.24' WATER
618-2639,3748871.71,641646.80,-1.03,WB 1.31' WATER
618-2640,3748895.14,641656.34,-0.75,WB 1.03' WATER
618-2641,3748918.32,641663.52,-0.79,WB 1.07' WATER
618-2642,3748941.10,641673.82,-0.65,WB 0.93' WATER
618-2643,3748964.52,641683.56,-0.99,WB 1.27' WATER
618-2644,3748986.70,641692.34,-0.54,WB 0.82' WATER
618-2645,3749013.50,641701.28,-0.77,WB 1.05' WATER
618-2646,3749034.11,641710.04,-0.63,WB 0.91' WATER
618-2647,3749058.34,641718.34,-0.71,WB 0.99' WATER
618-2648,3749080.53,641728.42,-0.79,WB 1.07' WATER
618-2649,3749107.30,641740.25,-0.56,WB 0.84' WATER
618-2650,3749126.00,641749.98,-0.59,WB 0.87' WATER
618-2651,3749148.77,641760.78,-0.78,WB 1.06' WATER
618-2652,3749171.52,641770.91,-0.86,WB 1.14' WATER
618-2653,3749194.74,641780.08,-0.77,WB 1.05' WATER
618-2654,3749217.64,641789.75,-0.74,WB 1.02' WATER
618-2655,3749241.67,641796.86,-0.86,WB 1.14' WATER
618-2656,3749265.76,641805.64,-0.85,WB 1.13' WATER
618-2657,3749287.79,641816.04,-0.88,WB 1.16' WATER
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618-2658,3749311.02,641825.29,-0.81,WB 1.09' WATER
618-2659,3749335.96,641833.44,-0.50,WB 0.78' WATER
618-2660,3749347.09,641835.55,0.25,TBK
618-2662,3749358.75,641840.44,0.51,MB
618-2663,3749366.87,641844.94,0.28,TBK
618-2665,3749383.18,641848.37,-0.74,WB 1.02' WATER
618-2666,3749403.59,641859.54,0.42,TBK
618-2668,3749404.66,641860.54,0.93,MB
618-2669,3749427.42,641871.64,0.45,MB
618-2670,3749449.61,641882.79,1.01,MB
618-2671,3749452.08,641883.34,0.18,TBK
618-2673,3749473.38,641890.52,-0.22,WB 0.50' WATER
618-2674,3749497.76,641899.22,-0.49,WB 0.77' WATER
618-2675,3749521.49,641908.89,-1.27,WB 1.55' WATER
618-2676,3749542.85,641917.97,-0.43,WB 0.71' WATER
618-2677,3749566.78,641927.72,-0.44,WB 0.72' WATER
618-2678,3749590.15,641937.61,-0.53,WB 0.81' WATER
618-2679,3749613.81,641945.46,-0.48,WB 0.76' WATER
618-2680,3749636.72,641955.80,-0.61,WB 0.89' WATER
618-2681,3749660.31,641965.09,-0.80,WB 1.08' WATER
618-2682,3749683.46,641973.47,-0.69,WB 0.97' WATER
618-2683,3749707.57,641980.84,-0.94,WB 1.22' WATER
618-2684,3749728.79,641992.03,-0.98,WB 1.26' WATER
618-2685,3749752.90,642001.30,-0.72,WB 1.00' WATER
618-2686,3749774.78,642011.84,-0.53,WB 0.81' WATER
618-2687,3749799.38,642020.85,-0.60,WB 0.88' WATER
618-2688,3749822.12,642029.68,-0.84,WB 1.12' WATER
618-2689,3749844.44,642040.20,-0.65,WB 0.93' WATER
618-2690,3749868.19,642049.40,-0.70,WB 0.98' WATER
618-2691,3749891.58,642056.91,-0.65,WB 0.93' WATER
618-2692,3749914.80,642067.00,-0.63,WB 0.91' WATER
618-2693,3749938.39,642076.38,-0.55,WB 0.83' WATER
618-2694,3749960.14,642087.04,0.18,WB 0.10' WATER
618-2695,3749983.42,642096.14,-0.21,WB 0.49' WATER
618-2696,3749988.54,642098.53,0.22,TBK
618-2699,3750007.48,642104.82,0.55,MB
618-2700,3750029.98,642116.06,1.30,MB
618-2701,3750054.29,642123.00,1.03,MB
618-2702,3750077.92,642130.97,1.49,MB
618-2703,3750101.00,642141.05,0.81,MB
;
:TRANSECT 24 TOP WATER SHOTS
618-2697,3749986.54,642098.06,0.35,TOP WATER
618-2672,3749453.62,641883.70,0.13,TOP WATER
618-2667,3749402.04,641858.47,0.20,TOP WATER
618-2664,3749368.19,641845.53,0.18,TOP WATER
618-2661,3749344.70,641835.75,0.19,TOP WATER
618-2611,3748268.30,641405.75,0.06,TOP WATER
618-2607,3748244.52,641394.08,0.05,TOP WATER
;
;
;TRANSECT 25
;0.37' AVG TOP WATER
618-2704,3749410.96,641322.89,0.46,MB
618-2705,3749434.21,641331.10,0.64,MB
618-2706,3749457.34,641341.64,0.81,MB
618-2707,3749480.75,641350.35,0.67,MB
618-2708,3749503.48,641360.93,0.83,MB
618-2709,3749525.88,641370.27,0.90,MB
618-2710,3749549.15,641380.04,0.81,MB
618-2711,3749571.70,641389.78,0.69,TBK
618-2713,3749572.94,641389.90,-0.28,WB 0.65' WATER
618-2714,3749591.92,641397.97,-1.32,WB 1.69' WATER
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618-2715,3749594.50,641400.41,-1.01,WB 1.38' WATER
618-2716,3749609.89,641406.13,0.44,TBK
618-2718,3749620.35,641404.72,0.69,MB
618-2719,3749641.65,641418.18,1.04,MB
618-2720,3749644.10,641419.54,0.46,TBK
618-2722,3749665.17,641428.15,-0.40,WB 0.77' WATER
618-2723,3749675.23,641432.65,0.54,TBK
618-2725,3749686.37,641439.08,0.64,MB
618-2726,3749705.40,641447.26,0.58,TBK
618-2728,3749708.94,641447.85,-0.67,WB 1.04' WATER
618-2729,3749710.62,641448.10,-0.41,WB 0.78' WATER
618-2730,3749712.91,641447.52,0.52,TB
618-2732,3749733.06,641459.51,0.70,MB
618-2733,3749756.81,641467.01,0.33,MB
618-2734,3749780.65,641475.60,0.79,MB
618-2735,3749803.23,641484.31,0.53,MB
618-2736,3749826.20,641495.25,0.47,MB
618-2737,3749850.31,641502.25,0.67,TBK
618-2739,3749874.18,641510.42,-0.17,WB 0.54' WATER
618-2740,3749895.16,641523.65,-0.36,WB 0.73' WATER
618-2741,3749918.93,641533.70,-0.59,WB 0.96' WATER
618-2742,3749942.05,641541.95,-0.69,WB 1.06' WATER
618-2743,3749965.90,641549.90,-0.81,WB 1.18' WATER
618-2744,3749989.65,641558.09,-0.34,WB 0.71' WATER
618-2745,3750014.08,641564.34,-0.64,WB 1.01' WATER
618-2746,3750037.37,641573.69,-0.57,WB 0.94' WATER
618-2747,3750060.48,641582.32,-0.65,WB 1.02' WATER
618-2748,3750083.00,641594.11,-0.73,WB 1.10' WATER
618-2749,3750090.84,641597.18,0.52,TBK
618-2751,3750106.50,641602.48,0.77,MB
618-2752,3750125.26,641610.61,0.49,TBK
618-2754,3750128.97,641612.40,-0.27,WB 0.64' WATER
618-2755,3750151.53,641622.30,-0.65,WB 1.02' WATER
618-2756,3750175.33,641632.35,-0.64,WB 1.01' WATER
618-2757,3750198.75,641641.20,-0.73,WB 1.10' WATER
618-2758,3750221.20,641652.44,-0.96,WB 1.33' WATER
618-2759,3750243.44,641662.16,-0.95,WB 1.32' WATER
618-2760,3750267.23,641672.98,-1.00,WB 1.37' WATER
618-2761,3750290.94,641683.18,-1.03,WB 1.40' WATER
618-2762,3750312.83,641692.13,-0.85,WB 1.22' WATER
618-2763,3750335.51,641701.84,-0.57,WB 0.94' WATER
618-2764,3750359.29,641712.04,-0.92,WB 1.29' WATER
618-2765,3750381.37,641722.47,-0.46,WB 0.83' WATER
618-2766,3750405.19,641728.98,-0.06,WB 0.43' WATER
618-2767,3750428.85,641738.98,0.04,WB 0.33' WATER
618-2768,3750438.43,641739.55,0.39,TBK
618-2770,3750453.07,641744.27,0.69,MB
618-2771,3750474.55,641758.16,0.24,MB
618-2772,3750499.02,641765.76,0.35,MB
618-2773,3750521.77,641774.76,0.58,MB
618-2774,3750544.75,641787.39,0.73,MB
618-2775,3750567.05,641796.88,0.80,MB
;
:TRANSECT 25 TOP WATER SHOTS
618-2769,3750436.79,641738.23,0.21,TOP WATER
618-2753,3750128.26,641610.98,0.43,TOP WATER
618-2750,3750089.97,641595.90,0.22,TOP WATER
618-2738,3749851.30,641502.43,0.49,TOP WATER
618-2727,3749707.31,641447.14,0.31,TOP WATER
618-2724,3749673.98,641431.20,0.43,TOP WATER
618-2721,3749647.20,641420.38,0.42,TOP WATER
618-2717,3749608.09,641406.14,0.36,TOP WATER
618-2712,3749574.07,641389.62,0.49,TOP WATER
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;TRANSECT 26
;0.30' AVG TOP WATER
618-2776,3749539.55,641002.76,0.61,MB
618-2777,3749561.91,641014.01,0.75,MB
618-2778,3749585.99,641023.56,0.66,MB
618-2779,3749609.35,641031.17,0.41,MB
618-2780,3749632.41,641040.09,0.42,MB
618-2781,3749655.14,641050.37,0.53,MB
618-2782,3749679.05,641059.43,0.58,MB
618-2783,3749701.98,641069.35,0.45,MB
618-2784,3749724.45,641079.75,0.57,MB
618-2785,3749747.93,641088.45,0.44,MB
618-2786,3749759.34,641093.11,0.31,TBK
618-2788,3749769.38,641100.84,-1.13,WB 1.43' WATER
618-2789,3749776.64,641103.21,-1.60,WB 1.90' WATER
618-2790,3749739.38,641105.78,-1.07,WB 1.37' WATER
618-2791,3749800.56,641106.97,0.49,TBK
618-2793,3749818.34,641114.44,0.32,MB
618-2794,3749841.50,641123.48,0.54,MB
618-2795,3749865.17,641132.14,0.46,MB
618-2796,3749887.98,641142.59,0.46,MB
618-2797,3749909.16,641155.43,0.09,MB 0.21' WATER
618-2798,3749932.21,641164.76,0.02,MB 0.28' WATER
618-2799,3749955.30,641174.57,0.27,MB 0.03' WATER
618-2800,3749979.37,641183.41,0.49,MB
618-2801,3750003.13,641191.69,-0.17,MB 0.47' WATER
618-2802,3750026.25,641200.87,0.41,MB
618-2803,3750049.95,641209.96,0.25,MB 0.05' WATER
618-2804,3750072.73,641218.78,0.33,MB
618-2807,3750095.42,641229.35,0.80,MB
618-2808,3750117.71,641239.13,0.78,MB
618-2809,3750141.58,641249.08,0.69,MB
618-2810,3750164.14,641258.55,0.58,MB
618-2811,3750188.28,641266.13,0.48,MB
618-2812,3750195.99,641267.59,0.50,TBK
618-2814,3750212.08,641274.53,0.03,WB 0.27' WATER
618-2815,3750216.00,641276.43,0.69,TBK
618-2817,3750235.60,641284.22,0.70,MB
618-2818,3750255.92,641291.46,0.66,TBK
618-2820,3750258.63,641292.02,-0.33,WB 0.63' WATER
618-2821,3750280.77,641303.04,-0.34,WB 0.64' WATER
618-2822,3750305.12,641310.97,-0.08,WB 0.38' WATER
618-2823,3750307.23,641310.92,1.08,TBK
618-2825,3750327.26,641323.13,0.67,MB
618-2826,3750350.72,641331.90,0.81,MB
618-2827,3750373.45,641341.09,0.62,MB
618-2828,3750384.98,641345.40,0.84,TBK
618-2830,3750397.45,641349.14,-0.73,WB 1.03' WATER
618-2831,3750420.90,641358.93,-0.74,WB 1.04' WATER
618-2832,3750443.26,641369.86,-0.73,WB 1.03' WATER
618-2833,3750460.40,641378.64,0.88,TBK
618-2835,3750465.72,641382.63,0.65,MB
618-2836,3750489.24,641389.38,0.87,TBK
618-2838,3750513.53,641396.22,-0.58,WB 0.88' WATER
618-2839,3750535.26,641407.60,-0.50,WB 0.80' WATER
618-2840,3750559.83,641414.84,-0.50,WB 0.80' WATER
618-2841,3750582.35,641423.65,-0.51,WB 0.81' WATER
618-2842,3750605.86,641433.90,-0.23,WB 0.53' WATER
618-2843,3750628.13,641445.90,-0.31,WB 0.61' WATER
618-2844,3750651.15,641456.10,-0.32,WB 0.62' WATER
618-2845,3750674.22,641464.42,-0.47,WB 0.77' WATER
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618-2846,3750698.44,641471.35,-0.12,WB 0.42' WATER
618-2847,3750721.56,641482.76,-0.23,WB 0.53' WATER
618-2848,3750731.72,641484.10,0.34,TBK
618-2850,3750743.82,641492.32,0.53,MB
618-2851,3750749.82,641493.08,0.33,TBK
618-2853,3750768.20,641498.00,-0.57,WB 0.87' WATER
618-2854,3750792.13,641506.42,-0.40,WB 0.70' WATER
618-2855,3750814.20,641517.98,0.54,TBK
618-2857,3750838.13,641527.04,0.94,MB
618-2858,3750859.80,641539.28,0.69,MB
;
:TRANSECT 26 TOP WATER SHOTS
618-2856,3750812.60,641516.35,0.40,TOP WATER
618-2852,3750751.37,641493.39,0.36,TOP WATER
618-2849,3750730.64,641484.24,0.27,TOP WATER
618-2837,3750490.22,641388.82,0.23,TOP WATER
618-2834,3750458.48,641378.05,0.31,TOP WATER
618-2829,3750385.86,641345.95,0.29,TOP WATER
618-2824,3750305.42,641310.19,0.53,TOP WATER
618-2819,3750256.80,641291.35,0.31,TOP WATER
618-2816,3750214.62,641275.31,0.44,TOP WATER
618-2813,3750196.88,641268.25,0.28,TOP WATER
618-2792,3749798.97,641107.78,0.04,TOP WATER
;
;
;TRANSECT 27
;0.39' AVG TOP WATER
618-2859,3745284.83,640670.11,-2.35,WB 2.74' WATER
618-2860,3745305.05,640681.56,-1.73,WB 2.12' WATER
618-2861,3745327.42,640694.13,-0.97,WB 1.36' WATER
618-2862,3745349.30,640706.12,-0.67,WB 1.06' WATER
618-2863,3745371.45,640720.08,-0.48,WB 0.87' WATER
618-2864,3745393.42,640728.57,-0.05,WB 0.44' WATER
618-2865,3745401.40,640731.25,0.64,EDGE MARSH
618-2867,3745414.98,640740.33,1.04,MB
618-2868,3745438.04,640751.56,1.17,MB
618-2869,3745460.25,640762.02,1.22,MB
618-2870,3745482.90,640774.56,1.01,MB
618-2871,3745505.29,640784.99,1.20,MB
618-2872,3745525.96,640798.59,0.97,MB
618-2873,3745548.58,640808.72,0.73,MB
618-2874,3745570.30,640821.89,0.84,MB
618-2875,3745592.85,640832.71,0.76,MB
618-2876,3745614.78,640845.24,0.83,MB
618-2877,3745636.38,640856.03,0.39,MB
618-2878,3745659.66,640867.93,0.75,MB
618-2879,3745681.70,640878.53,0.90,MB
618-2880,3745703.68,640891.13,1.07,MB
618-2881,3745725.78,640902.41,1.05,MB
618-2882,3745747.52,640915.05,1.08,MB
618-2883,3745768.93,640925.81,1.29,MB
618-2884,3745791.44,640938.44,1.28,MB
618-2885,3745815.55,640947.23,1.18,MB
618-2886,3745836.97,640959.87,1.13,MB
618-2887,3745857.11,640973.62,1.09,MB
618-2888,3745875.77,640981.01,0.74,EDGE MARSH
618-2889,3745880.55,640983.93,0.21,WB 0.18' WATER
618-2890,3745901.73,640998.00,-0.10,WB 0.49' WATER
618-2891,3745924.02,641009.37,-0.11,WB 0.50' WATER
618-2892,3745945.89,641021.93,-0.51,WB 0.90' WATER
618-2893,3745968.40,641031.80,-1.07,WB 1.46' WATER
618-2894,3745991.13,641045.26,-1.71,WB 2.10' WATER
618-2895,3746012.04,641055.10,-2.39,WB 2.78' WATER
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618-2896,3746033.71,641066.76,-3.94,WB 4.33' WATER
;
:TRANSECT 27 TOP WATER SHOTS
618-2866,3745401.26,640731.62,0.39,TOP WATER
;
;
;TRANSECT 28
;0.58' AVG TOP WATER
618-2897,3745132.77,640304.94,0.58,EDGE MARSH
618-2898,3745155.84,640320.83,1.14,MB
618-2899,3745180.41,640328.96,0.82,MB
618-2900,3745202.46,640341.47,0.90,MB
618-2901,3745223.79,640354.68,0.68,MB
618-2902,3745246.33,640366.41,0.90,MB
618-2903,3745268.07,640377.98,0.55,MB
618-2904,3745289.63,640390.58,1.02,MB
618-2905,3745311.65,640403.35,0.94,MB
618-2906,3745328.65,640412.78,0.42,TBK
618-2908,3745332.68,640416.22,-0.02,WB 0.60' WATER
618-2909,3745354.30,640429.31,-0.22,WB 0.80' WATER
618-2910,3745377.05,640439.78,-0.38,WB 0.96' WATER
618-2911,3745400.94,640447.55,-0.45,WB 1.03' WATER
618-2912,3745422.74,640458.44,-0.25,WB 0.83' WATER
618-2913,3745445.65,640470.36,-0.09,WB 0.67' WATER
618-2914,3745467.40,640481.20,-0.21,WB 0.79' WATER
618-2915,3745490.46,640493.71,-0.38,WB 0.96' WATER
618-2916,3745511.82,640505.53,-0.22,WB 0.80' WATER
618-2917,3745533.63,640516.63,-0.20,WB 0.78' WATER
618-2918,3745556.94,640527.59,-0.28,WB 0.86' WATER
618-2919,3745579.11,640538.35,0.37,WB 0.21' WATER
618-2920,3745581.71,640540.17,0.49,TBK
618-2922,3745601.59,640550.16,0.61,MB
618-2923,3745604.71,640551.51,0.29,TBK
618-2925,3745623.79,640560.97,-0.39,WB 0.97' WATER
618-2926,3745644.99,640572.55,-0.38,WB 0.96' WATER
618-2927,3745645.89,640572.51,-0.43,WB 1.01' WATER
618-2928,3745667.33,640585.71,-0.42,WB 1.00' WATER
618-2929,3745689.35,640596.83,-0.51,WB 1.09' WATER
618-2930,3745711.95,640608.82,-0.57,WB 1.15' WATER
618-2931,3745733.40,640619.97,-0.45,WB 1.03' WATER
618-2932,3745755.61,640632.43,-0.40,WB 0.98' WATER
618-2933,3745777.79,640644.51,-0.40,WB 0.98' WATER
618-2934,3745799.84,640656.67,-0.44,WB 1.02' WATER
618-2935,3745822.17,640669.06,-0.23,WB 0.81' WATER
618-2936,3745843.42,640679.30,-0.33,WB 0.91' WATER
618-2937,3745865.08,640690.18,-0.16,WB 0.74' WATER
618-2938,3745887.70,640703.35,-0.09,WB 0.67' WATER
618-2939,3745909.83,640716.17,-0.24,WB 0.82' WATER
618-2940,3745931.54,640729.08,0.29,WB 0.29' WATER
618-2941,3745953.33,640740.03,0.06,WB 0.52' WATER
618-2942,3745975.57,640751.29,-0.08,WB 0.66' WATER
618-2943,3745997.98,640763.71,0.09,WB 0.49' WATER
618-2944,3746000.37,640766.10,0.46,TBK
618-2946,3746019.64,640775.13,0.47,MB
618-2947,3746040.90,640788.02,1.08,MB
618-2948,3746062.45,640801.50,1.46,MB
618-2949,3746083.77,640814.16,1.12,MB
618-2950,3746108.55,640820.84,1.44,MB
618-2951,3746130.60,640832.72,1.36,MB
618-2952,3746150.27,640847.41,1.53,MB
;
:TRANSECT 28 TOP WATER SHOTS
618-2945,3745998.09,640763.90,0.45,TOP WATER
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618-2924,3745605.87,640551.73,0.31,TOP WATER
618-2921,3745578.60,640538.58,0.35,TOP WATER
618-2907,3745329.46,640414.30,0.33,TOP WATER
;
;
;TRANSECT 29
;0.58' AVG TOP WATER
618-2953,3744670.74,639500.53,-1.28,WB 1.86' WATER
618-2954,3744693.93,639511.54,-0.76,WB 1.34' WATER
618-2955,3744718.19,639517.25,-0.58,WB 1.16' WATER
618-2957,3744733.13,639531.79,0.65,EDGE MARSH
618-2958,3744738.12,639533.71,1.19,MB
618-2959,3744762.42,639542.14,1.41,MB
618-2960,3744781.30,639560.44,1.06,MB
618-2961,3744806.74,639564.50,1.03,MB
618-2962,3744828.08,639577.92,0.95,MB
618-2963,3744849.77,639590.89,0.77,MB
618-2964,3744872.14,639602.27,0.76,MB
618-2965,3744893.82,639613.68,1.09,MB
618-2966,3744916.22,639626.20,1.07,MB
618-2967,3744937.23,639638.28,0.83,MB
618-2968,3744959.35,639650.26,0.90,MB
618-2969,3744982.10,639661.90,0.98,MB
618-2970,3745003.20,639674.09,0.56,MB
618-2971,3745025.49,639686.78,0.45,MB
618-2972,3745069.02,639709.85,0.48,MB
618-2973,3745072.23,639709.91,0.27,TBK
618-2975,3745093.74,639718.93,-0.43,WB 1.01' WATER
618-2976,3745115.75,639730.21,-0.36,WB 0.94' WATER
618-2977,3745137.07,639742.71,-0.09,WB 0.67' WATER
618-2978,3745159.46,639753.82,-0.80,WB 1.38' WATER
618-2979,3745178.11,639765.87,-0.67,WB 1.25' WATER
618-2980,3745201.82,639778.46,-0.58,WB 1.16' WATER
618-2981,3745223.46,639789.08,-0.63,WB 1.21' WATER
618-2982,3745247.22,639800.65,-0.59,WB 1.17' WATER
618-2983,3745269.62,639812.66,-0.83,WB 1.41' WATER
618-2984,3745291.38,639824.11,-0.65,WB 1.23' WATER
618-2985,3745312.81,639833.45,-0.75,WB 1.33' WATER
618-2986,3745336.53,639845.48,-0.48,WB 1.06' WATER
618-2987,3745359.22,639858.95,-0.72,WB 1.30' WATER
618-2988,3745379.80,639872.66,-0.38,WB 0.96' WATER
618-2989,3745400.72,639883.76,-0.44,WB 1.02' WATER
618-2990,3745424.77,639893.32,-0.16,WB 0.74' WATER
618-2991,3745448.61,639906.05,-0.40,WB 0.98' WATER
618-2992,3745469.10,639915.96,-0.21,WB 0.79' WATER
618-2993,3745490.58,639925.86,-0.54,WB 1.12' WATER
618-2994,3745514.79,639936.36,-0.30,WB 0.88' WATER
618-2995,3745533.48,639956.02,-0.47,WB 1.05' WATER
618-2996,3745560.14,639961.23,-0.50,WB 1.08' WATER
618-2997,3745580.44,639973.82,-0.36,WB 0.94' WATER
618-2998,3745603.46,639983.88,-0.36,WB 0.94' WATER
618-2999,3745626.75,639995.90,-0.30,WB 0.88' WATER
618-3000,3745647.62,640008.22,-0.39,WB 0.97' WATER
618-3001,3745668.27,640019.48,-0.28,WB 0.86' WATER
618-3002,3745690.92,640031.01,-0.54,WB 1.12' WATER
618-3003,3745712.43,640045.23,-0.45,WB 1.03' WATER
618-3004,3745734.30,640056.96,-0.02,WB 0.60' WATER
618-3006,3745738.51,640059.68,0.73,MB
618-3007,3745755.99,640070.05,1.24,MB
618-3008,3745764.54,640073.68,0.95,TBK
618-3010,3745778.50,640079.92,-0.44,WB 1.02' WATER
618-3011,3745800.32,640091.57,-0.33,WB 0.91' WATER
618-3012,3745822.94,640103.53,-0.14,WB 0.72' WATER
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618-3013,3745844.46,640116.00,0.22,WB 0.36' WATER
618-3014,3745852.99,640119.46,0.67,TBK
618-3017,3745865.88,640128.58,1.20,MB
618-3018,3745886.78,640140.54,1.00,MB
618-3019,3745908.86,640153.90,0.92,MB
618-3020,3745931.08,640166.52,1.71,MB
618-3021,3745948.94,640175.50,0.89,EDGE MARSH
618-3022,3745953.31,640176.88,0.44,WB 0.14' WATER
;
:TRANSECT 29 TOP WATER SHOTS
618-3023,3745954.73,640175.84,0.60,TOP WATER
618-3015,3745849.04,640117.93,0.65,TOP WATER
618-3009,3745767.00,640074.67,0.63,TOP WATER
618-3005,3745735.95,640057.86,0.66,TOP WATER
618-2974,3745072.42,639709.93,0.58,TOP WATER
618-2956,3744728.75,639532.32,0.38,TOP WATER
;
;
;TRANSECT 30
;0.62' AVG TOP WATER
618-3108,3744697.25,638946.63,-1.65,WB 2.27' WATER
618-3107,3744717.69,638958.30,-1.18,WB 1.80' WATER
618-3106,3744742.98,638966.35,-0.78,WB 1.40' WATER
618-3105,3744765.10,638977.65,-0.26,WB 0.88' WATER
618-3104,3744787.62,638989.50,0.09,WB 0.53' WATER
618-3102,3744793.48,638991.64,0.80,EDGE MARSH
618-3101,3744808.69,639003.29,3.17,MB
618-3100,3744831.98,639013.11,1.14,MB
618-3099,3744853.94,639025.45,0.81,MB
618-3098,3744875.11,639038.11,0.72,MB
618-3097,3744897.77,639050.26,0.91,MB
618-3096,3744919.36,639061.32,0.62,MB
618-3095,3744941.26,639072.89,0.71,MB
618-3094,3744963.17,639084.63,0.87,MB
618-3092,3744974.01,639087.81,0.71,TBK
618-3091,3744985.07,639098.06,-0.31,WB 0.93' WATER
618-3090,3745006.37,639110.98,-0.25,WB 0.87' WATER
618-3089,3745028.50,639122.46,-0.57,WB 1.19' WATER
618-3088,3745049.84,639135.06,-0.24,WB 0.86' WATER
618-3087,3745072.27,639145.98,-0.74,WB 1.36' WATER
618-3086,3745094.00,639159.57,-0.63,WB 1.25' WATER
618-3085,3745115.04,639171.37,-0.78,WB 1.40' WATER
618-3084,3745138.41,639182.38,-0.77,WB 1.39' WATER
618-3083,3745160.48,639194.06,-0.88,WB 1.50' WATER
618-3082,3745182.92,639205.98,-0.85,WB 1.47' WATER
618-3081,3745204.81,639217.48,-0.86,WB 1.48' WATER
618-3080,3745226.90,639228.83,-0.90,WB 1.52' WATER
618-3079,3745248.47,639240.07,-0.79,WB 1.41' WATER
618-3078,3745271.41,639251.39,-0.77,WB 1.39' WATER
618-3077,3745293.32,639262.82,-0.97,WB 1.59' WATER
618-3076,3745314.58,639277.00,-1.00,WB 1.62' WATER
618-3075,3745337.59,639287.27,-0.90,WB 1.52' WATER
618-3074,3745359.89,639297.73,-0.93,WB 1.55' WATER
618-3073,3745382.39,639310.03,-0.95,WB 1.57' WATER
618-3072,3745405.11,639318.96,-1.03,WB 1.65' WATER
618-3071,3745427.37,639330.60,-1.06,WB 1.68' WATER
618-3070,3745449.17,639344.46,-0.98,WB 1.60' WATER
618-3069,3745470.16,639357.66,-0.98,WB 1.60' WATER
618-3068,3745491.01,639370.65,-0.90,WB 1.52' WATER
618-3067,3745513.71,639382.05,-1.08,WB 1.70' WATER
618-3066,3745534.61,639395.75,-1.06,WB 1.68' WATER
618-3065,3745554.79,639410.65,-1.02,WB 1.64' WATER
618-3064,3745575.56,639422.97,-1.03,WB 1.65' WATER
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618-3063,3745598.91,639433.66,-1.11,WB 1.73' WATER
618-3062,3745622.07,639443.69,-1.10,WB 1.72' WATER
618-3061,3745645.48,639453.75,-1.06,WB 1.68' WATER
618-3060,3745666.86,639466.09,-1.13,WB 1.75' WATER
618-3059,3745688.77,639477.74,-1.16,WB 1.78' WATER
618-3058,3745711.63,639487.52,-1.09,WB 1.71' WATER
618-3057,3745736.04,639496.79,-1.15,WB 1.77' WATER
618-3056,3745756.97,639509.02,-1.15,WB 1.77' WATER
618-3055,3745778.64,639521.22,-1.19,WB 1.81' WATER
618-3054,3745800.79,639533.43,-1.09,WB 1.71' WATER
618-3053,3745823.27,639545.26,-1.09,WB 1.71' WATER
618-3052,3745845.58,639554.18,-1.04,WB 1.66' WATER
618-3051,3745867.92,639567.02,-0.93,WB 1.55' WATER
618-3050,3745887.41,639583.36,-0.70,WB 1.32' WATER
618-3049,3745909.35,639594.84,-0.88,WB 1.50' WATER
618-3048,3745932.08,639607.28,-0.87,WB 1.49' WATER
618-3047,3745954.79,639615.10,-0.76,WB 1.38' WATER
618-3046,3745977.78,639625.93,-0.55,WB 1.17' WATER
618-3045,3746000.39,639637.63,-0.38,WB 1.00' WATER
618-3044,3746022.65,639649.82,-0.40,WB 1.02' WATER
618-3042,3746043.63,639663.77,0.86,TBK
618-3041,3746064.78,639676.28,0.74,MB
618-3040,3746087.61,639685.28,1.10,MB
618-3038,3746110.20,639696.85,0.82,EDGE MARSH
618-3037,3746132.56,639708.78,-0.18,WB 0.80' WATER
618-3036,3746153.83,639720.82,-1.47,WB 2.09' WATER
612-3373,3746177.24,639729.71,-3.54,WB 4.16' WATER
612-3374,3746193.31,639749.54,-4.87,WB 5.49' WATER
612-3375,3746216.86,639759.05,-5.02,WB 5.64' WATER
612-3376,3746239.71,639766.17,-7.77,WB 8.39' WATER
612-3377,3746264.45,639777.75,-9.34,WB 9.96' WATER
612-3378,3746284.36,639790.55,-9.65,WB 10.27' WATER
612-3379,3746307.30,639802.57,-9.16,WB 9.72' WATER
612-3380,3746330.51,639818.25,-7.68,WB 8.30' WATER
612-3381,3746353.65,639827.07,-5.59,WB 6.21' WATER
618-3031,3746374.96,639840.49,-2.57,WB 3.19' WATER
618-3030,3746396.21,639849.75,-0.78,WB 1.40' WATER
618-3029,3746418.48,639862.10,-0.01,WB 0.63' WATER
618-3028,3746429.93,639868.49,0.79,EDGE MARSH
618-3027,3746439.82,639877.18,1.71,MB
618-3026,3746463.18,639886.31,1.45,MB
618-3025,3746484.42,639899.52,1.36,MB
618-3024,3746506.01,639911.53,0.91,MB
;
;TRANSECT 30 TOP WATER SHOTS
612-3371,3746134.15,639716.47,0.45,TOP_WATER
612-3384,3746405.51,639858.35,0.49,TOP_WATER
618-3103,3744793.13,638990.54,0.71,TOP WATER
618-3093,3744976.28,639089.29,0.69,TOP WATER
618-3043,3746043.40,639662.67,0.70,TOP WATER
618-3039,3746111.10,639697.77,0.72,TOP WATER
;
;
;TRANSECT 31
;0.45' AVG TOP WATER
618-3111,3744734.90,638396.63,-5.51,WB 5.96' WATER
618-3112,3744758.02,638406.90,-5.29,WB 5.74' WATER
618-3113,3744778.22,638421.07,-5.08,WB 5.53' WATER
618-3114,3744798.51,638436.01,-4.83,WB 5.28' WATER
618-3115,3744819.62,638448.45,-4.65,WB 5.10' WATER
618-3116,3744844.23,638460.16,-3.94,WB 4.39' WATER
618-3117,3744865.94,638471.21,-3.41,WB 3.86' WATER
618-3118,3744887.56,638484.22,-2.51,WB 2.96' WATER

618-3119,3744910.67,638495.77,-1.51,WB 1.96' WATER
618-3120,3744931.38,638506.26,0.16,WB 0.29' WATER
618-3121,3744938.37,638507.27,1.72,EDGE MARSH
618-3123,3744954.29,638517.34,1.28,MB
618-3124,3744976.01,638529.60,1.18,MB
618-3125,3744998.40,638541.51,0.89,MB
618-3126,3745020.38,638553.40,0.64,MB
618-3127,3745043.38,638562.51,0.56,MB
618-3128,3745065.63,638573.42,0.57,MB
618-3129,3745087.85,638584.31,0.87,MB
618-3130,3745094.03,638587.78,0.50,TBK
618-3132,3745109.89,638597.24,-0.18,WB 0.63' WATER
618-3133,3745132.89,638607.38,-0.52,WB 0.97' WATER
618-3134,3745155.70,638618.67,-0.56,WB 1.01' WATER
618-3135,3745177.23,638632.43,-0.21,WB 0.66' WATER
618-3136,3745197.94,638644.44,-0.55,WB 1.00' WATER
618-3137,3745220.56,638656.87,-0.53,WB 0.98' WATER
618-3138,3745241.91,638668.87,-0.74,WB 1.19' WATER
618-3139,3745263.71,638681.37,-0.72,WB 1.17' WATER
618-3140,3745286.82,638693.38,-0.74,WB 1.19' WATER
618-3141,3745307.57,638704.13,-0.98,WB 1.43' WATER
618-3142,3745329.17,638715.61,-0.38,WB 0.83' WATER
618-3143,3745351.75,638727.22,-0.86,WB 1.31' WATER
618-3144,3745374.50,638739.02,-1.00,WB 1.45' WATER
618-3145,3745397.29,638750.79,-0.94,WB 1.39' WATER
618-3146,3745418.98,638762.39,-0.94,WB 1.39' WATER
618-3147,3745440.87,638773.37,-0.21,WB 0.66' WATER
618-3148,3745463.39,638784.30,-1.20,WB 1.65' WATER
618-3149,3745484.70,638796.35,-1.26,WB 1.71' WATER
618-3150,3745507.25,638808.52,-1.33,WB 1.78' WATER
618-3151,3745529.30,638819.10,-1.32,WB 1.77' WATER
618-3152,3745551.66,638831.15,-1.10,WB 1.55' WATER
618-3153,3745573.40,638843.18,-1.06,WB 1.51' WATER
618-3154,3745594.84,638854.20,-1.19,WB 1.64' WATER
618-3155,3745617.73,638866.67,-0.95,WB 1.40' WATER
618-3156,3745638.99,638878.59,-0.98,WB 1.43' WATER
618-3157,3745661.43,638890.92,-0.78,WB 1.23' WATER
618-3158,3745682.64,638902.99,-0.80,WB 1.25' WATER
618-3159,3745705.14,638915.21,-0.77,WB 1.22' WATER
618-3160,3745727.03,638926.15,-0.71,WB 1.16' WATER
618-3161,3745749.31,638938.55,-0.66,WB 1.11' WATER
618-3162,3745771.51,638949.09,-0.76,WB 1.21' WATER
618-3163,3745797.82,638955.91,-0.35,WB 0.80' WATER
618-3164,3745806.29,638960.93,0.52,TBK
618-3166,3745817.26,638970.59,0.52,MB
618-3167,3745840.69,638981.92,0.73,MB
618-3168,3745863.84,638991.11,0.52,MB
618-3169,3745884.68,639003.26,0.51,MB
618-3170,3745905.53,639016.64,0.52,MB
618-3171,3745927.04,639030.67,0.95,MB
618-3172,3745949.01,639043.22,0.70,MB
618-3173,3745958.90,639047.02,0.49,TBK
618-3175,3745972.21,639051.90,-2.19,WB 2.64' WATER
618-3176,3745995.01,639062.60,-0.39,WB 0.84' WATER
618-3177,3746007.01,639070.38,0.61,TBK
618-3179,3746015.58,639076.73,0.84,MB
618-3180,3746036.94,639085.20,0.44,TBK
618-3182,3746039.00,639086.74,-0.02,WB 0.47' WATER
618-3183,3746057.55,639101.49,0.47,TBK
618-3185,3746059.65,639101.30,0.62,MB
618-3186,3746070.86,639109.02,0.57,TBK
618-3188,3746082.00,639112.09,-0.40,WB 0.85' WATER
618-3189,3746103.95,639123.35,-0.60,WB 1.05' WATER

618-3190,3746126.57,639134.90,-0.75,WB 1.20' WATER
618-3191,3746148.56,639147.36,-0.82,WB 1.27' WATER
618-3192,3746169.91,639158.07,-0.57,WB 1.02' WATER
618-3193,3746192.73,639170.18,-0.78,WB 1.23' WATER
618-3194,3746214.21,639181.60,-0.75,WB 1.20' WATER
618-3195,3746236.60,639192.75,-0.64,WB 1.09' WATER
618-3196,3746260.88,639202.14,0.30,WB 0.15' WATER
618-3197,3746281.92,639215.55,-0.47,WB 0.92' WATER
618-3198,3746303.80,639228.20,-0.58,WB 1.03' WATER
618-3199,3746325.53,639239.57,-0.73,WB 1.18' WATER
618-3200,3746347.02,639251.66,-0.80,WB 1.25' WATER
618-3201,3746369.38,639263.77,-0.72,WB 1.17' WATER
618-3202,3746391.16,639275.70,-0.67,WB 1.12' WATER
618-3203,3746412.78,639286.90,-0.57,WB 1.02' WATER
618-3204,3746435.67,639298.91,-0.75,WB 1.20' WATER
618-3205,3746458.78,639309.90,-0.45,WB 0.90' WATER
618-3206,3746480.09,639320.97,-0.23,WB 0.68' WATER
618-3207,3746490.31,639325.80,0.49,TBK
618-3209,3746502.00,639333.63,0.69,MB
618-3210,3746523.94,639345.92,1.07,MB
618-3211,3746545.67,639358.11,1.10,MB
618-3212,3746567.05,639371.25,1.42,MB
618-3213,3746589.66,639382.07,1.17,MB
618-3214,3746612.16,639393.82,1.16,MB
618-3215,3746632.95,639405.88,1.07,MB
618-3216,3746655.28,639416.42,1.13,MB
618-3217,3746663.91,639422.94,0.60,EDGE MARSH
618-3219,3746677.74,639429.26,-0.24,WB 0.69' WATER
;
;TRANSECT 31 TOP WATER SHOTS
618-3218,3746664.38,639423.59,0.47,TOP WATER
618-3208,3746489.06,639325.09,0.44,TOP WATER
618-3187,3746071.91,639108.50,0.61,TOP WATER
618-3184,3746056.30,639100.31,0.37,TOP WATER
618-3181,3746039.23,639086.01,0.43,TOP WATER
618-3178,3746005.40,639069.29,0.46,TOP WATER
618-3174,3745959.31,639045.84,0.47,TOP WATER
618-3165,3745805.88,638959.50,0.41,TOP WATER
618-3131,3745095.65,638587.66,0.43,TOP WATER
618-3122,3744937.67,638507.79,0.48,TOP WATER
;
;
;TRANSECT 32
;0.43' AVG TOP WATER
618-3220,3744968.18,637951.36,-5.37,WB 5.80' WATER
618-3221,3744991.77,637961.35,-5.17,WB 5.60' WATER
618-3222,3745013.91,637972.97,-4.95,WB 5.38' WATER
618-3223,3745036.64,637984.35,-4.74,WB 5.17' WATER
618-3224,3745060.66,637995.83,-4.36,WB 4.79' WATER
618-3225,3745080.87,638007.69,-3.47,WB 3.90' WATER
618-3226,3745100.37,638020.71,-2.69,WB 3.12' WATER
618-3227,3745122.64,638033.96,-1.45,WB 1.88' WATER
618-3228,3745145.18,638046.51,-0.03,WB 0.46' WATER
618-3229,3745150.37,638051.82,0.47,EDGE MARSH
618-3231,3745168.08,638057.43,0.76,MB
618-3232,3745190.46,638069.68,1.23,MB
618-3233,3745212.36,638080.73,1.13,MB
618-3234,3745227.04,638090.74,0.41,TBK
618-3236,3745232.67,638094.71,-0.11,WB 0.54' WATER
618-3237,3745253.54,638109.93,0.03,WB 0.40' WATER
618-3238,3745269.13,638121.96,0.62,TBK
618-3240,3745274.13,638123.25,1.24,MB
618-3241,3745299.43,638128.82,0.57,MB

618-3242,3745308.45,638135.60,0.40,EDGE MARSH
618-3244,3745320.22,638143.26,-0.72,WB 1.15' WATER
618-3245,3745341.20,638156.27,-0.82,WB 1.25' WATER
618-3246,3745363.36,638168.17,-0.48,WB 0.91' WATER
618-3247,3745386.50,638180.51,-0.39,WB 0.82' WATER
618-3248,3745407.90,638191.00,-0.32,WB 0.75' WATER
618-3249,3745430.25,638200.03,-1.18,WB 1.61' WATER
618-3250,3745454.85,638207.97,-0.12,WB 0.55' WATER
618-3251,3745478.42,638218.15,-1.05,WB 1.48' WATER
618-3252,3745497.18,638234.94,-0.97,WB 1.40' WATER
618-3253,3745521.53,638247.85,-0.98,WB 1.41' WATER
618-3254,3745540.71,638262.46,0.20,WB 0.23' WATER
618-3255,3745563.56,638272.23,-0.53,WB 0.96' WATER
618-3256,3745585.59,638282.19,-0.08,WB 0.51' WATER
618-3257,3745610.04,638291.30,-0.16,WB 0.59' WATER
618-3258,3745627.90,638310.53,-0.15,WB 0.58' WATER
618-3259,3745649.76,638323.90,-1.06,WB 1.49' WATER
618-3260,3745673.29,638331.54,-0.78,WB 1.21' WATER
618-3261,3745696.01,638341.81,-1.09,WB 1.52' WATER
618-3262,3745718.68,638352.50,-1.05,WB 1.48' WATER
618-3263,3745741.76,638365.36,-1.16,WB 1.59' WATER
618-3264,3745761.58,638375.54,-1.11,WB 1.54' WATER
618-3265,3745784.93,638387.65,-1.20,WB 1.63' WATER
618-3266,3745805.73,638398.83,-1.22,WB 1.65' WATER
618-3267,3745829.40,638410.77,-1.21,WB 1.64' WATER
618-3268,3745852.24,638422.27,-1.07,WB 1.50' WATER
618-3269,3745873.36,638434.41,-0.73,WB 1.16' WATER
618-3270,3745894.56,638445.39,-1.44,WB 1.87' WATER
618-3271,3745917.50,638457.63,-1.46,WB 1.89' WATER
618-3272,3745916.21,638461.69,-1.39,WB 1.82' WATER
618-3273,3745937.29,638469.26,-1.46,WB 1.89' WATER
618-3274,3745962.83,638479.90,-1.42,WB 1.85' WATER
618-3275,3745981.83,638490.68,-1.43,WB 1.86' WATER
618-3276,3746005.99,638503.12,-1.14,WB 1.57' WATER
618-3277,3746026.33,638515.62,-1.28,WB 1.71' WATER
618-3278,3746051.64,638528.32,-1.23,WB 1.66' WATER
618-3279,3746071.73,638537.52,-1.15,WB 1.58' WATER
618-3280,3746096.01,638549.23,-1.17,WB 1.60' WATER
618-3281,3746117.61,638559.01,-1.20,WB 1.63' WATER
618-3282,3746142.49,638570.21,-1.10,WB 1.53' WATER
618-3283,3746163.69,638579.67,-1.11,WB 1.54' WATER
618-3284,3746180.05,638600.48,-1.07,WB 1.50' WATER
618-3285,3746204.51,638612.17,-1.03,WB 1.46' WATER
618-3286,3746227.22,638622.12,-1.11,WB 1.54' WATER
618-3287,3746249.68,638633.34,-0.98,WB 1.41' WATER
618-3288,3746272.50,638644.27,-0.91,WB 1.34' WATER
618-3289,3746286.97,638651.75,0.30,EDGE MARSH
618-3291,3746291.45,638659.04,1.01,MB
618-3292,3746294.66,638654.91,0.55,MB
618-3293,3746316.19,638666.66,0.52,TBK
618-3295,3746337.98,638677.93,-0.63,WB 1.06' WATER
618-3296,3746359.59,638686.43,-0.75,WB 1.18' WATER
618-3297,3746383.65,638697.73,-0.76,WB 1.19' WATER
618-3298,3746405.93,638712.44,-0.85,WB 1.28' WATER
618-3299,3746426.76,638723.87,-0.95,WB 1.38' WATER
618-3300,3746449.83,638736.39,-1.04,WB 1.47' WATER
618-3301,3746472.39,638748.64,-1.38,WB 1.81' WATER
618-3302,3746493.42,638758.93,-1.09,WB 1.52' WATER
618-3303,3746516.06,638771.91,-0.82,WB 1.25' WATER
618-3304,3746538.87,638779.89,-0.54,WB 0.97' WATER
618-3305,3746556.99,638795.59,-0.50,WB 0.93' WATER
618-3306,3746581.24,638809.03,-0.65,WB 1.08' WATER
618-3307,3746602.57,638819.82,-0.69,WB 1.12' WATER

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618-3308,3746625.41,638830.48,-0.90,WB 1.33' WATER
618-3309,3746647.18,638842.00,-0.81,WB 1.24' WATER
618-3310,3746670.79,638853.20,-0.98,WB 1.41' WATER
618-3311,3746692.06,638863.80,-1.19,WB 1.62' WATER
618-3312,3746713.63,638876.11,-0.91,WB 1.34' WATER
618-3313,3746736.37,638889.07,-1.05,WB 1.48' WATER
618-3314,3746760.51,638900.49,-1.11,WB 1.54' WATER
618-3315,3746781.81,638911.18,-1.02,WB 1.45' WATER
618-3316,3746802.36,638922.84,-0.70,WB 1.13' WATER
618-3317,3746825.04,638935.09,-0.93,WB 1.36' WATER
618-3318,3746846.71,638946.99,-0.63,WB 1.06' WATER
618-3319,3746868.31,638958.65,-0.45,WB 0.88' WATER
618-3321,3746878.33,638966.09,0.99,TBK
618-3322,3746889.24,638974.80,-0.04,TBK
618-3323,3746911.37,638985.12,-0.40,WB 0.83' WATER
618-3324,3746933.61,638997.28,-0.75,WB 1.18' WATER
618-3325,3746955.41,639007.91,-0.69,WB 1.12' WATER
618-3326,3746978.84,639020.16,-0.65,WB 1.08' WATER
618-3327,3747000.89,639031.79,-0.47,WB 0.90' WATER
618-3328,3747022.83,639043.19,-0.79,WB 1.22' WATER
618-3329,3747043.52,639054.16,-0.62,WB 1.05' WATER
618-3330,3747066.72,639065.73,-0.53,WB 0.96' WATER
618-3331,3747089.27,639077.45,-0.54,WB 0.97' WATER
618-3332,3747111.97,639087.08,-0.25,WB 0.68' WATER
618-3333,3747135.61,639096.87,-0.37,WB 0.80' WATER
618-3334,3747155.42,639110.60,0.73,TBK
618-3336,3747155.89,639111.00,1.07,MB
618-3337,3747178.94,639122.23,1.01,MB
618-3338,3747200.52,639133.89,0.84,MB
618-3339,3747220.74,639149.41,1.06,MB
618-3340,3747242.31,639161.18,1.18,MB
618-3341,3747251.08,639164.66,0.88,EDGE MARSH
;
;TRANSECT 32 TOP WATER SHOTS
618-3335,3747153.40,639110.02,0.47,TOP WATER
618-3320,3746877.10,638964.86,0.51,TOP WATER
618-3294,3746317.26,638667.51,0.58,TOP WATER
618-3290,3746288.80,638652.60,0.60,TOP WATER
618-3243,3745309.99,638137.20,0.26,TOP WATER
618-3239,3745266.84,638119.43,0.37,TOP WATER
618-3235,3745228.57,638091.44,0.33,TOP WATER
618-3230,3745149.31,638049.35,0.32,TOP WATER
;
;
;TRANSECT 33
;0.47' AVG TOP WATER
618-3342,3745199.17,637515.42,-5.58,WB 6.05' WATER
618-3343,3745221.74,637525.28,-5.31,WB 5.78' WATER
618-3344,3745244.26,637534.69,-5.08,WB 5.55' WATER
618-3345,3745267.78,637545.46,-4.61,WB 5.08' WATER
618-3346,3745289.26,637559.14,-4.13,WB 4.60' WATER
618-3347,3745312.41,637568.27,-3.50,WB 3.97' WATER
618-3348,3745332.39,637580.50,-2.18,WB 2.65' WATER
618-3349,3745354.64,637592.55,-1.54,WB 2.01' WATER
618-3350,3745378.07,637605.51,-0.56,WB 1.03' WATER
618-3351,3745399.39,637617.05,-0.32,WB 0.79' WATER
618-3352,3745421.80,637627.01,0.30,WB 0.17' WATER
618-3353,3745433.26,637634.23,1.29,EDGE MARSH
618-3355,3745443.06,637639.98,1.35,MB
618-3356,3745462.11,637652.45,0.59,TBK
618-3358,3745465.33,637652.80,0.33,WB 0.14' WATER
618-3359,3745487.22,637664.11,0.22,WB 0.25' WATER
618-3360,3745511.29,637675.79,-0.01,WB 0.48' WATER
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618-3361,3745531.05,637686.85,-0.21,WB 0.68' WATER
618-3362,3745554.53,637698.32,-0.24,WB 0.71' WATER
618-3363,3745575.63,637710.08,-0.16,WB 0.63' WATER
618-3364,3745597.88,637723.20,-0.14,WB 0.61' WATER
618-3365,3745619.42,637734.71,-0.05,WB 0.52' WATER
618-3366,3745641.46,637747.36,-0.06,WB 0.53' WATER
618-3367,3745663.53,637759.09,-0.25,WB 0.72' WATER
618-3368,3745687.82,637770.08,-0.02,WB 0.49' WATER
618-3369,3745707.86,637780.68,-0.16,WB 0.63' WATER
618-3370,3745730.58,637794.09,-0.21,WB 0.68' WATER
618-3371,3745754.12,637803.12,-0.32,WB 0.79' WATER
618-3372,3745776.26,637815.72,-0.30,WB 0.77' WATER
618-3373,3745798.41,637826.89,-0.48,WB 0.95' WATER
618-3374,3745818.90,637838.15,-0.80,WB 1.27' WATER
618-3375,3745841.61,637850.17,-0.92,WB 1.39' WATER
618-3376,3745864.15,637862.06,-0.79,WB 1.26' WATER
618-3377,3745886.13,637874.06,-1.01,WB 1.48' WATER
618-3378,3745907.39,637885.90,-0.97,WB 1.44' WATER
618-3379,3745929.96,637897.14,-1.10,WB 1.57' WATER
618-3380,3745952.01,637908.43,-1.12,WB 1.59' WATER
618-3381,3745974.30,637919.87,-1.12,WB 1.59' WATER
618-3382,3745996.99,637932.04,-1.18,WB 1.65' WATER
618-3383,3746019.04,637942.84,-1.21,WB 1.68' WATER
618-3384,3746041.51,637954.46,-1.26,WB 1.73' WATER
618-3385,3746064.00,637965.26,-1.16,WB 1.63' WATER
618-3386,3746083.49,637979.54,-1.28,WB 1.75' WATER
618-3387,3746105.04,637990.92,-1.21,WB 1.68' WATER
618-3388,3746127.93,638003.53,-1.31,WB 1.78' WATER
618-3389,3746150.19,638015.13,-1.26,WB 1.73' WATER
618-3390,3746172.47,638026.67,-1.41,WB 1.88' WATER
618-3391,3746195.10,638037.68,-1.31,WB 1.78' WATER
618-3392,3746216.89,638048.77,-1.49,WB 1.96' WATER
618-3393,3746239.90,638060.20,-1.33,WB 1.80' WATER
618-3394,3746261.35,638070.76,-1.31,WB 1.78' WATER
618-3395,3746282.32,638082.42,-1.38,WB 1.85' WATER
618-3396,3746304.60,638097.30,-1.50,WB 1.97' WATER
618-3397,3746326.24,638109.45,-1.60,WB 2.07' WATER
618-3398,3746348.04,638119.54,-1.34,WB 1.81' WATER
618-3399,3746370.53,638131.28,-1.26,WB 1.73' WATER
618-3400,3746392.79,638142.96,-1.31,WB 1.78' WATER
618-3401,3746415.62,638154.41,-1.31,WB 1.78' WATER
618-3402,3746437.39,638165.26,-1.39,WB 1.86' WATER
618-3403,3746460.60,638175.29,-0.84,WB 1.31' WATER
618-3404,3746483.08,638186.72,-0.81,WB 1.28' WATER
618-3405,3746504.96,638200.58,-0.46,WB 0.93' WATER
618-3406,3746525.13,638214.08,-1.16,WB 1.63' WATER
618-3407,3746547.87,638225.44,-1.30,WB 1.77' WATER
618-3408,3746570.31,638237.01,-1.17,WB 1.64' WATER
618-3409,3746591.11,638248.85,-1.25,WB 1.72' WATER
618-3410,3746612.99,638261.10,-1.34,WB 1.81' WATER
618-3411,3746636.73,638273.29,-1.32,WB 1.79' WATER
618-3412,3746657.99,638287.18,-1.33,WB 1.80' WATER
618-3413,3746679.24,638297.19,-1.25,WB 1.72' WATER
618-3414,3746701.52,638309.31,-1.40,WB 1.87' WATER
618-3415,3746723.46,638320.16,-1.28,WB 1.75' WATER
618-3416,3746744.92,638333.70,-1.18,WB 1.65' WATER
618-3417,3746767.57,638344.63,-1.33,WB 1.80' WATER
618-3418,3746790.17,638355.38,-1.26,WB 1.73' WATER
618-3419,3746813.13,638367.06,-1.27,WB 1.74' WATER
618-3420,3746835.30,638377.71,-1.19,WB 1.66' WATER
618-3421,3746857.92,638388.49,-0.88,WB 1.35' WATER
618-3422,3746878.75,638401.59,-0.89,WB 1.36' WATER
618-3423,3746901.07,638414.40,-0.98,WB 1.45' WATER
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618-3424,3746922.08,638424.97,-1.04,WB 1.51' WATER
618-3425,3746943.72,638437.69,-1.06,WB 1.53' WATER
618-3426,3746966.14,638449.60,-0.93,WB 1.40' WATER
618-3427,3746989.63,638458.86,-0.85,WB 1.32' WATER
618-3428,3747010.89,638471.35,-0.84,WB 1.31' WATER
618-3429,3747033.16,638483.87,-0.84,WB 1.31' WATER
618-3430,3747054.64,638494.68,-0.76,WB 1.23' WATER
618-3431,3747076.30,638507.29,-0.72,WB 1.19' WATER
618-3432,3747099.74,638518.34,-0.60,WB 1.07' WATER
618-3433,3747121.77,638531.42,-0.33,WB 0.80' WATER
618-3434,3747144.22,638542.74,0.35,WB 0.12' WATER
618-3435,3747147.85,638543.65,0.59,TBK
618-3437,3747165.34,638555.17,0.54,MB
618-3438,3747187.85,638566.68,0.85,MB
618-3439,3747210.46,638577.67,0.95,MB
618-3440,3747233.02,638588.17,0.55,MB
618-3441,3747254.24,638601.54,0.95,MB
618-3442,3747275.91,638613.60,1.19,MB
618-3443,3747297.98,638625.06,1.04,MB
618-3444,3747321.12,638635.31,1.23,MB
618-3445,3747343.10,638647.00,1.36,MB
618-3446,3747365.01,638659.24,1.16,MB
618-3447,3747387.17,638670.51,1.22,MB
618-3448,3747409.36,638681.82,1.21,MB
618-3449,3747431.68,638694.27,1.54,MB
618-3450,3747454.22,638703.94,1.31,MB
618-3451,3747476.06,638715.63,0.92,MB
618-3452,3747498.76,638727.53,1.23,MB
618-3453,3747520.80,638739.03,1.18,MB
618-3454,3747542.45,638751.52,1.07,MB
618-3455,3747563.94,638765.04,1.15,MB
618-3456,3747585.26,638776.06,1.12,MB
618-3457,3747606.53,638789.24,1.26,MB
618-3458,3747628.67,638802.27,1.22,MB
618-3459,3747644.23,638806.70,0.90,EDGE MARSH
;
;TRANSECT 33 TOP WATER SHOTS
618-3436,3747144.60,638542.92,0.48,TOP WATER
618-3357,3745466.07,637652.94,0.47,TOP WATER
618-3354,3745433.36,637627.94,0.46,TOP WATER
;
;
;TRANSECT 34
;0.55' AVG TOP WATER
618-3651,3745568.69,637150.75,-2.18,WB 2.73' WATER
618-3650,3745591.14,637158.65,-1.63,WB 2.18' WATER
618-3649,3745614.35,637166.47,-0.31,WB 0.86' WATER
618-3648,3745639.49,637173.37,0.46,WB 0.09' WATER
618-3647,3745660.33,637187.26,0.36,WB 0.19' WATER
618-3645,3745681.01,637196.41,0.75,MB
618-3644,3745682.03,637199.43,0.79,MB
618-3643,3745703.46,637213.51,0.61,MB
618-3642,3745726.54,637223.64,0.69,MB
618-3641,3745746.53,637239.03,0.60,MB
618-3639,3745758.17,637245.11,0.88,MB
618-3638,3745768.05,637250.50,-0.83,WB 1.38' WATER
618-3637,3745791.44,637262.05,-0.95,WB 1.50' WATER
618-3636,3745810.31,637275.45,-0.42,WB 0.97' WATER
618-3635,3745835.52,637286.26,-0.38,WB 0.93' WATER
618-3634,3745855.95,637303.01,-0.42,WB 0.97' WATER
618-3633,3745879.98,637310.75,-0.78,WB 1.33' WATER
618-3632,3745901.77,637319.79,-0.90,WB 1.45' WATER
618-3631,3745924.24,637330.11,-0.97,WB 1.52' WATER
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618-3630,3745942.02,637351.35,-1.05,WB 1.60' WATER
618-3629,3745966.28,637362.46,-1.01,WB 1.56' WATER
618-3628,3745987.84,637371.44,-1.04,WB 1.59' WATER
618-3627,3746010.39,637381.52,-1.08,WB 1.63' WATER
618-3626,3746031.77,637392.10,-0.98,WB 1.53' WATER
618-3625,3746054.07,637402.22,-1.01,WB 1.56' WATER
618-3624,3746076.95,637413.98,-1.06,WB 1.61' WATER
618-3623,3746101.16,637425.54,-0.86,WB 1.41' WATER
618-3622,3746122.19,637437.00,-1.05,WB 1.60' WATER
618-3621,3746142.83,637450.55,-1.25,WB 1.80' WATER
618-3620,3746165.02,637464.26,-0.97,WB 1.52' WATER
618-3619,3746187.51,637475.13,-1.17,WB 1.72' WATER
618-3618,3746209.20,637486.27,-1.11,WB 1.66' WATER
618-3617,3746232.44,637498.89,-1.00,WB 1.55' WATER
618-3616,3746254.06,637510.85,-1.10,WB 1.65' WATER
618-3615,3746274.97,637521.53,-1.02,WB 1.57' WATER
618-3614,3746297.27,637532.73,-1.12,WB 1.67' WATER
618-3613,3746320.48,637544.19,-1.07,WB 1.62' WATER
618-3612,3746343.48,637554.78,-0.92,WB 1.47' WATER
618-3611,3746365.17,637566.18,-1.00,WB 1.55' WATER
618-3610,3746386.66,637577.25,-0.95,WB 1.50' WATER
618-3609,3746409.73,637588.49,-0.99,WB 1.54' WATER
618-3608,3746431.39,637600.16,-1.07,WB 1.62' WATER
618-3607,3746450.47,637616.47,-1.30,WB 1.85' WATER
618-3606,3746475.07,637626.82,-1.15,WB 1.70' WATER
618-3605,3746500.10,637636.49,-1.05,WB 1.60' WATER
618-3604,3746501.85,637632.20,-1.11,WB 1.66' WATER
618-3603,3746521.14,637647.84,-1.16,WB 1.71' WATER
618-3602,3746542.02,637657.52,-1.13,WB 1.68' WATER
618-3601,3746565.99,637670.24,-1.03,WB 1.58' WATER
618-3600,3746588.45,637682.01,-0.95,WB 1.50' WATER
618-3599,3746608.58,637692.50,-0.99,WB 1.54' WATER
618-3598,3746631.95,637704.57,-1.09,WB 1.64' WATER
618-3597,3746653.05,637715.17,-0.79,WB 1.34' WATER
618-3596,3746675.22,637726.90,-0.80,WB 1.35' WATER
618-3595,3746694.82,637742.23,-1.25,WB 1.80' WATER
618-3594,3746719.68,637751.51,-0.99,WB 1.54' WATER
618-3593,3746742.00,637763.62,-0.87,WB 1.42' WATER
618-3592,3746762.27,637774.00,-0.77,WB 1.32' WATER
618-3591,3746784.62,637786.53,-0.98,WB 1.53' WATER
618-3590,3746806.94,637801.30,-0.91,WB 1.46' WATER
618-3589,3746828.09,637813.92,-0.80,WB 1.35' WATER
618-3588,3746850.39,637825.47,-0.20,WB 0.75' WATER
618-3587,3746872.92,637836.61,-0.29,WB 0.84' WATER
618-3585,3746894.99,637844.86,0.55,MB
618-3584,3746897.78,637843.06,1.15,MB
618-3583,3746919.46,637855.72,0.49,MB
618-3582,3746939.71,637869.90,0.85,MB
618-3579,3746944.50,637869.77,0.43,MB
618-3578,3746948.88,637873.80,-0.45,WB 1.00' WATER
618-3577,3746952.08,637877.36,0.42,MB
618-3575,3746960.85,637882.29,0.31,MB
618-3574,3746983.76,637893.64,0.63,MB
618-3573,3747006.06,637905.02,0.93,MB
618-3572,3747027.54,637916.61,1.13,MB
618-3571,3747049.30,637930.06,0.51,MBR
618-3570,3747073.16,637938.00,0.19,TBK
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618-3536,3747756.82,638302.59,-0.25,WB 0.80' WATER
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:TRANSECT 34 TOP WATER SHOTS
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618-3558,3747297.65,638059.48,0.39,TOP WATER
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;
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;TRANSECT 35
;0.57' AVG TOP WATER
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618-3654,3745731.97,636659.04,-3.86,WB 4.43' WATER
618-3655,3745754.56,636670.42,-3.41,WB 3.98' WATER
618-3656,3745776.73,636681.82,-2.74,WB 3.31' WATER
618-3657,3745798.37,636693.57,-1.83,WB 2.40' WATER
618-3658,3745820.91,636705.40,-1.51,WB 2.08' WATER
618-3659,3745842.78,636718.52,-0.56,WB 1.13' WATER
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618-3757,3747477.59,637584.55,-1.08,WB 1.65' WATER
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618-3789,3748183.75,637960.68,-1.16,WB 1.73' WATER
618-3790,3748205.80,637970.98,-1.14,WB 1.71' WATER
618-3791,3748228.11,637982.27,-1.22,WB 1.79' WATER
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618-3797,3748361.00,638051.15,-1.14,WB 1.71' WATER
618-3798,3748383.57,638062.45,-1.29,WB 1.86' WATER
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618-3800,3748427.14,638086.97,-1.11,WB 1.68' WATER

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618-3805,3748537.87,638145.52,-1.10,WB 1.67' WATER
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618-3848,3749401.85,638598.35,-0.01,WB 0.58' WATER
618-3849,3749420.91,638614.62,-0.22,WB 0.79' WATER
618-3850,3749442.34,638626.63,0.16,WB 0.41' WATER
618-3851,3749463.69,638638.50,0.14,WB 0.43' WATER
618-3852,3749486.92,638651.01,0.09,WB 0.48' WATER
618-3853,3749510.38,638659.68,0.35,WB 0.22' WATER
618-3854,3749531.36,638672.36,-0.05,WB 0.62' WATER
618-3855,3749554.42,638684.03,-0.40,WB 0.97' WATER
618-3856,3749577.03,638696.28,-0.23,WB 0.80' WATER
618-3857,3749598.95,638707.79,0.45,WB 0.12' WATER
618-3858,3749621.32,638719.36,0.32,WB 0.25' WATER
618-3860,3749633.37,638725.15,1.08,MB
618-3861,3749644.60,638728.43,1.04,MB
618-3862,3749666.94,638740.42,1.45,MB
618-3863,3749689.57,638751.14,1.20,MB
618-3864,3749710.20,638764.52,1.50,MB
618-3865,3749732.26,638777.59,0.96,MB
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:TRANSECT 35 TOP WATER SHOTS
618-3859,3749631.77,638723.58,0.63,TOP WATER
618-3847,3749386.99,638592.43,0.59,TOP WATER
618-3835,3749165.11,638482.32,0.67,TOP WATER
618-3743,3747183.00,637435.95,0.50,TOP WATER
618-3736,3747061.44,637370.69,0.57,TOP WATER
618-3731,3747011.23,637335.94,0.57,TOP WATER
618-3729,3746994.68,637334.62,0.56,TOP WATER
618-3702,3746451.73,637043.43,0.55,TOP WATER
618-3698,3746405.81,637017.18,0.62,TOP WATER
618-3695,3746400.42,637013.75,0.60,TOP WATER
618-3680,3746106.85,636861.80,0.51,TOP WATER
618-3677,3746097.39,636857.88,0.54,TOP WATER
618-3674,3746076.97,636843.78,0.51,TOP WATER
618-3667,3745952.10,636779.56,0.56,TOP WATER
618-3663,3745901.82,636749.17,0.56,TOP WATER
;
;
;TRANSECT 36
;0.57' AVG TOP WATER
612-6574,3745998.64,636243.90,-3.47,WB 4.04' WATER
612-6573,3746027.33,636261.30,-2.71,WB 3.28' WATER
612-6572,3746049.88,636265.16,-2.06,WB 2.63' WATER
612-6571,3746075.38,636281.31,-1.02,WB 1.59' WATER
612-6570,3746096.10,636292.00,0.05,WB 0.52' WATER
612-6569,3746119.32,636302.47,0.16,WB 0.41' WATER
612-6568,3746141.45,636314.25,0.36,WB 0.21' WATER
612-6567,3746155.60,636321.94,0.42,WB 0.15' WATER
612-3116,3746162.71,636324.11,0.89,EDGE OF VEG
612-3117,3746183.93,636336.61,1.84,MB
612-3118,3746207.52,636347.51,1.54,MB
612-3119,3746229.80,636358.52,0.98,MB
612-3120,3746231.34,636361.43,-0.13,WB 0.70' WATER
612-3122,3746236.99,636366.58,-0.05,WB 0.62' WATER
612-3123,3746237.83,636367.36,0.63,TBK
612-3125,3746249.75,636373.74,0.60,MB
612-3126,3746272.38,636386.04,0.43,MB
612-3127,3746294.26,636395.68,0.78,MB
612-3128,3746316.55,636407.68,0.36,MB
612-3129,3746323.10,636410.77,0.69,TBK
612-3131,3746324.15,636412.98,-0.03,WB 0.60' WATER
612-3132,3746339.55,636418.91,-0.25,WB 0.82' WATER
612-3133,3746361.12,636431.61,-0.16,WB 0.73' WATER
612-3134,3746365.10,636433.75,0.78,TBK
612-3136,3746383.00,636443.03,0.14,MB
612-3137,3746401.63,636453.70,0.62,TBK
612-3139,3746405.40,636456.29,0.17,WB 0.40' WATER
612-3140,3746427.99,636463.44,0.08,WB 0.49' WATER
612-3141,3746449.42,636476.18,-0.46,WB 1.03' WATER
612-3142,3746470.75,636489.78,0.17,WB 0.40' WATER
612-3143,3746472.24,636492.56,-0.10,WB 0.67' WATER
612-3144,3746493.60,636500.98,0.13,WB 0.44' WATER
612-3145,3746515.93,636510.74,-0.50,WB 1.07' WATER
612-3146,3746538.41,636522.94,-0.56,WB 1.13' WATER
612-3147,3746558.79,636534.94,0.19,WB 0.38' WATER
612-3148,3746583.05,636546.93,-0.62,WB 1.19' WATER
612-3149,3746604.76,636556.46,-0.50,WB 1.07' WATER
612-3150,3746626.49,636571.11,-0.63,WB 1.20' WATER
612-3151,3746648.75,636582.91,-0.72,WB 1.29' WATER
612-3152,3746671.27,636592.56,-0.41,WB 0.98' WATER
612-3153,3746675.02,636596.13,0.14,WB 0.43' WATER
612-3155,3746676.60,636597.20,0.73,TBK
612-3156,3746691.65,636604.68,1.08,MB
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612-3157,3746714.96,636616.06,0.90,MB
612-3158,3746737.83,636629.55,0.75,MB
612-3159,3746758.93,636641.38,0.62,MB
612-3160,3746780.47,636651.44,0.60,MB
612-3161,3746802.86,636663.81,0.50,MB
612-3162,3746824.41,636676.36,0.40,MB
612-3163,3746847.24,636688.08,0.42,MB
612-3164,3746868.85,636699.68,0.31,MB
612-3165,3746887.04,636711.52,0.68,MB
612-3167,3746890.05,636712.60,-0.33,WB
612-3168,3746912.17,636724.23,-0.15,WB
612-3169,3746915.96,636727.09,0.28,WB
612-3171,3746917.85,636727.90,0.98,TBK
612-3172,3746923.75,636728.66,0.92,TBK
612-3174,3746925.24,636730.02,0.24,WB 0.33' WATER
612-3175,3746935.05,636737.05,-0.67,WB 1.24' WATER
612-3176,3746954.62,636748.32,-0.41,WB 0.98' WATER
612-3177,3746979.96,636757.13,-0.56,WB 1.13' WATER
612-3178,3747003.73,636766.87,-0.76,WB 1.33' WATER
612-3179,3747025.24,636778.89,-1.03,WB 1.60' WATER
612-3180,3747046.20,636791.78,-0.82,WB 1.39' WATER
612-3181,3747070.44,636806.46,-0.90,WB 1.47' WATER
612-3182,3747089.48,636817.43,-0.89,WB 1.46' WATER
612-3183,3747112.70,636830.12,-0.69,WB 1.26' WATER
612-3184,3747124.90,636836.00,-0.21,WB 0.78' WATER
612-3186,3747126.46,636836.58,0.76,TBK
612-3187,3747140.26,636844.08,0.82,TBK
612-3189,3747141.49,636844.94,0.30,WB 0.27' WATER
612-3190,3747155.88,636852.57,-0.70,WB 1.27' WATER
612-3191,3747178.57,636865.21,-1.03,WB 1.60' WATER
612-3192,3747200.22,636877.21,-1.05,WB 1.62' WATER
612-3193,3747223.73,636890.84,-0.97,WB 1.54' WATER
612-3194,3747243.37,636902.51,-0.80,WB 1.37' WATER
612-3195,3747264.62,636912.22,-0.95,WB 1.52' WATER
612-3196,3747287.89,636923.80,-1.00,WB 1.57' WATER
612-3197,3747310.58,636935.60,-1.02,WB 1.59' WATER
612-3198,3747332.24,636945.96,-0.61,WB 1.18' WATER
612-3199,3747354.34,636958.52,-0.97,WB 1.54' WATER
612-3200,3747377.24,636970.01,-1.10,WB 1.67' WATER
612-3201,3747398.95,636981.78,-1.28,WB 1.85' WATER
612-3202,3747420.94,636993.59,-1.29,WB 1.86' WATER
612-3203,3747444.12,637007.37,-1.42,WB 1.99' WATER
612-3204,3747464.17,637018.53,-1.52,WB 2.09' WATER
612-3205,3747485.38,637027.95,-1.50,WB 2.07' WATER
612-3206,3747509.43,637040.64,-1.42,WB 1.99' WATER
612-3207,3747531.58,637053.16,-1.60,WB 2.17' WATER
612-3208,3747552.15,637065.62,-1.74,WB 2.31' WATER
612-3209,3747576.18,637077.40,-1.70,WB 2.27' WATER
612-3210,3747597.57,637086.40,-1.70,WB 2.27' WATER
612-3211,3747621.26,637096.43,-1.71,WB 2.28' WATER
612-3212,3747643.96,637107.52,-1.67,WB 2.24' WATER
612-3213,3747664.63,637119.34,-1.65,WB 2.22' WATER
612-3214,3747687.22,637132.42,-1.72,WB 2.29' WATER
612-3215,3747709.39,637144.92,-1.66,WB 2.23' WATER
612-3216,3747731.56,637157.34,-1.65,WB 2.22' WATER
612-3217,3747752.58,637168.25,-1.65,WB 2.22' WATER
612-3218,3747774.94,637179.88,-1.78,WB 2.35' WATER
612-3219,3747795.40,637192.00,-1.72,WB 2.29' WATER
612-3220,3747818.62,637204.89,-1.71,WB 2.28' WATER
612-3221,3747839.85,637214.88,-1.65,WB 2.22' WATER
612-3222,3747864.02,637225.83,-1.69,WB 2.26' WATER
612-3223,3747885.14,637236.91,-1.65,WB 2.22' WATER
612-3224,3747908.14,637249.37,-1.54,WB 2.11' WATER
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612-3225,3747927.07,637259.71,-1.49,WB 2.06' WATER
612-3226,3747951.51,637273.11,-1.41,WB 1.98' WATER
612-3227,3747973.43,637283.87,-1.45,WB 2.02' WATER
612-3228,3747996.18,637295.63,-1.62,WB 2.19' WATER
612-3229,3748017.45,637307.53,-1.49,WB 2.06' WATER
612-3230,3748041.64,637320.27,-1.65,WB 2.22' WATER
612-3231,3748062.22,637332.47,-1.56,WB 2.13' WATER
612-3232,3748083.97,637343.95,-1.55,WB 2.12' WATER
612-3233,3748106.83,637354.70,-1.68,WB 2.25' WATER
612-3234,3748129.16,637366.02,-1.63,WB 2.20' WATER
612-3235,3748150.36,637377.63,-1.62,WB 2.19' WATER
612-3236,3748172.71,637389.42,-1.60,WB 2.17' WATER
612-3237,3748194.98,637400.29,-1.72,WB 2.29' WATER
612-3238,3748216.57,637413.34,-1.61,WB 2.18' WATER
612-3239,3748237.67,637425.48,-1.69,WB 2.26' WATER
612-3240,3748260.85,637436.40,-1.52,WB 2.09' WATER
612-3241,3748282.54,637447.41,-1.39,WB 1.96' WATER
612-3242,3748305.85,637459.81,-1.46,WB 2.03' WATER
612-3243,3748328.45,637470.12,-1.50,WB 2.07' WATER
612-3244,3748350.31,637482.26,-1.48,WB 2.05' WATER
612-3245,3748370.71,637496.32,-1.56,WB 2.13' WATER
612-3246,3748393.27,637507.41,-1.64,WB 2.21' WATER
612-3247,3748415.28,637516.35,-1.57,WB 2.14' WATER
612-3248,3748438.65,637531.33,-1.57,WB 2.14' WATER
612-3249,3748458.95,637543.35,-1.53,WB 2.10' WATER
612-3250,3748482.34,637551.80,-1.61,WB 2.18' WATER
612-3251,3748506.05,637562.91,-1.61,WB 2.18' WATER
612-3252,3748526.23,637577.70,-1.63,WB 2.20' WATER
612-3253,3748546.02,637590.69,-1.57,WB 2.14' WATER
612-3254,3748570.89,637600.56,-1.46,WB 2.03' WATER
612-3255,3748593.30,637610.69,-1.52,WB 2.09' WATER
612-3256,3748614.32,637622.98,-1.51,WB 2.08' WATER
612-3257,3748634.34,637635.88,-1.61,WB 2.18' WATER
612-3258,3748656.51,637649.62,-1.41,WB 1.98' WATER
612-3259,3748678.80,637660.94,-1.40,WB 1.97' WATER
612-3260,3748703.89,637671.10,-1.43,WB 2.00' WATER
612-3261,3748724.85,637679.90,-1.42,WB 1.99' WATER
612-3262,3748747.51,637692.10,-1.31,WB 1.88' WATER
612-3263,3748769.78,637704.06,-1.44,WB 2.01' WATER
612-3264,3748790.97,637718.73,-1.42,WB 1.99' WATER
612-3265,3748811.44,637731.38,-1.33,WB 1.90' WATER
612-3266,3748834.13,637742.77,-1.51,WB 2.08' WATER
612-3267,3748857.19,637751.27,-1.45,WB 2.02' WATER
612-3268,3748879.91,637762.99,-1.43,WB 2.00' WATER
612-3269,3748901.31,637773.91,-1.41,WB 1.98' WATER
612-3270,3748925.26,637787.54,-1.48,WB 2.05' WATER
612-3271,3748944.28,637801.36,-1.57,WB 2.14' WATER
612-3272,3748966.87,637816.05,-1.50,WB 2.07' WATER
612-3273,3748987.94,637825.04,-1.42,WB 1.99' WATER
612-3274,3749009.18,637836.94,-1.46,WB 2.03' WATER
612-3275,3749032.10,637847.63,-1.52,WB 2.09' WATER
612-3276,3749056.14,637858.87,-1.50,WB 2.07' WATER
612-3277,3749079.58,637870.66,-1.50,WB 2.07' WATER
612-3278,3749099.53,637883.42,-1.54,WB 2.11' WATER
612-3279,3749121.02,637895.88,-1.49,WB 2.06' WATER
612-3280,3749144.03,637904.09,-1.52,WB 2.09' WATER
612-3281,3749167.36,637914.63,-1.54,WB 2.11' WATER
612-3282,3749189.13,637928.95,-1.39,WB 1.96' WATER
612-3283,3749210.05,637943.04,-1.40,WB 1.97' WATER
612-3284,3749232.02,637953.89,-1.51,WB 2.08' WATER
612-3285,3749254.93,637961.72,-1.45,WB 2.02' WATER
612-3286,3749277.79,637973.51,-1.42,WB 1.99' WATER
612-3287,3749300.37,637983.27,-1.65,WB 2.22' WATER
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612-3288,3749320.62,637999.00,-1.44,WB 2.01' WATER
612-3289,3749341.12,638011.86,-1.48,WB 2.05' WATER
612-3290,3749366.62,638022.16,-1.52,WB 2.09' WATER
612-3291,3749389.77,638031.77,-1.46,WB 2.03' WATER
612-3292,3749410.31,638043.02,-1.28,WB 1.85' WATER
612-3293,3749432.22,638056.89,-1.28,WB 1.85' WATER
612-3294,3749453.76,638068.36,-1.40,WB 1.97' WATER
612-3295,3749475.94,638078.51,-1.34,WB 1.91' WATER
612-3296,3749499.87,638091.57,-1.48,WB 2.05' WATER
612-3297,3749520.11,638104.03,-1.53,WB 2.10' WATER
612-3298,3749542.32,638116.11,-1.40,WB 1.97' WATER
612-3299,3749564.87,638128.01,-1.41,WB 1.98' WATER
612-3300,3749587.36,638139.81,-1.23,WB 1.80' WATER
612-3301,3749608.48,638149.18,-1.35,WB 1.92' WATER
612-3302,3749632.53,638160.17,-1.30,WB 1.87' WATER
612-3303,3749653.98,638171.71,-1.25,WB 1.82' WATER
612-3304,3749675.19,638186.95,-0.92,WB 1.49' WATER
612-3305,3749696.60,638197.59,-0.92,WB 1.49' WATER
612-3306,3749717.66,638211.04,-0.81,WB 1.38' WATER
612-3307,3749738.99,638225.18,-0.73,WB 1.30' WATER
612-3308,3749763.20,638232.81,-0.66,WB 1.23' WATER
612-3309,3749785.92,638242.70,-0.16,WB 0.73' WATER
612-3310,3749807.45,638255.98,-0.24,WB 0.81' WATER
612-3311,3749828.80,638268.04,-0.39,WB 0.96' WATER
612-3312,3749851.69,638280.46,-0.21,WB 0.78' WATER
612-3313,3749875.93,638291.60,-0.13,WB 0.70' WATER
612-3314,3749894.13,638305.56,0.37,WB 0.20' WATER
612-3316,3749895.33,638306.22,0.53,TBK
612-3317,3749917.19,638315.85,0.47,MB
612-3318,3749938.13,638327.93,0.60,MB
612-3319,3749961.01,638339.11,0.50,MB
612-3320,3749983.89,638349.57,0.53,MB
612-3321,3750006.19,638362.15,0.69,MB
612-3322,3750028.59,638372.32,0.50,MB
612-3323,3750050.80,638385.64,0.94,MB
612-3324,3750072.57,638398.64,0.86,MB
612-3325,3750095.38,638410.33,0.38,MB
612-3326,3750116.70,638421.43,1.21,MB
612-3327,3750139.28,638432.32,1.04,MB
612-3328,3750161.62,638444.01,0.36,MB
;
:TRANSECT 36 TOP WATER SHOTS
612-3115,3746138.33,636313.84,0.53,TOP WATER
612-3120,3746231.13,636359.93,0.52,TOP WATER
612-3124,3746237.76,636366.78,0.52,TOP WATER
612-3130,3746322.87,636412.31,0.49,TOP WATER
612-3135,3746364.55,636433.14,0.50,TOP WATER
612-3138,3746402.67,636455.52,0.47,TOP WATER
612-3154,3746675.00,636595.88,0.51,TOP WATER
612-3166,3746886.71,636711.27,0.54,TOP WATER
612-3170,3746915.66,636726.87,0.56,TOP WATER
612-3173,3746924.27,636730.07,0.53,TOP WATER
612-3185,3747124.95,636835.48,0.50,TOP WATER
612-3188,3747140.77,636844.36,0.52,TOP WATER
612-3315,3749895.68,638304.57,0.43,TOP WATER
;
;
;TRANSECT 37;
0.51' AVG TOP WATER
612-6563,3746204.42,635817.49,-4.01,WB 4.52' WATER
612-6562,3746229.64,635824.20,-3.41,WB 3.92' WATER
612-6561,3746250.61,635837.13,-3.04,WB 3.55' WATER
612-6560,3746270.60,635850.69,-1.92,WB 2.43' WATER

612-6559,3746292.77,635861.34,-0.55,WB 1.06' WATER
612-3112,3746300.77,635863.23,-0.08,WB 0.59' WATER
612-3110,3746306.66,635868.10,1.49,TBK
612-3109,3746321.10,635877.55,1.83,MB
612-3108,3746346.10,635888.14,1.18,MB
612-3107,3746367.14,635900.01,1.17,MB
612-3106,3746394.32,635913.48,0.83,MB
612-3105,3746410.90,635922.49,0.95,MB
612-3104,3746434.04,635931.82,1.10,MB
612-3103,3746454.67,635946.78,0.64,MB
612-3102,3746478.15,635957.30,0.29,MB
612-3101,3746491.19,635961.94,0.88,TBK
612-3099,3746492.03,635963.26,0.32,WB 0.19' WATER
612-3098,3746499.02,635967.05,-0.56,WB 1.07' WATER
612-3097,3746521.66,635980.86,-1.03,WB 1.54' WATER
612-3096,3746542.31,635993.72,-1.13,WB 1.64' WATER
612-3095,3746564.13,636007.79,-1.20,WB 1.71' WATER
612-3094,3746586.99,636016.69,-1.09,WB 1.60' WATER
612-3093,3746607.59,636027.10,-1.04,WB 1.55' WATER
612-3092,3746630.75,636040.25,-1.07,WB 1.58' WATER
612-3091,3746654.66,636049.50,-1.04,WB 1.55' WATER
612-3090,3746676.91,636061.88,-1.18,WB 1.69' WATER
612-3089,3746697.07,636076.42,-1.26,WB 1.77' WATER
612-3088,3746718.39,636086.46,-1.15,WB 1.66' WATER
612-3087,3746742.42,636096.96,-1.14,WB 1.65' WATER
612-3086,3746766.80,636106.93,-1.14,WB 1.65' WATER
612-3085,3746788.69,636116.86,-1.11,WB 1.62' WATER
612-3084,3746810.47,636129.74,-1.14,WB 1.65' WATER
612-3083,3746831.84,636143.01,-1.10,WB 1.61' WATER
612-3082,3746852.89,636155.67,-1.13,WB 1.64' WATER
612-3081,3746873.68,636167.46,-1.10,WB 1.61' WATER
612-3080,3746897.60,636179.90,-1.19,WB 1.70' WATER
612-3079,3746919.43,636190.51,-1.05,WB 1.56' WATER
612-3078,3746939.26,636198.97,-1.21,WB 1.72' WATER
612-3077,3746963.07,636210.74,-1.06,WB 1.57' WATER
612-3076,3746982.09,636219.74,-0.51,WB 1.02' WATER
612-3075,3747014.84,636237.18,-0.39,WB 0.90' WATER
612-3074,3747032.38,636246.40,-0.66,WB 1.17' WATER
612-3073,3747054.34,636260.34,-0.52,WB 1.03' WATER
612-3072,3747061.44,636261.85,-0.24,WB 0.75' WATER
612-3070,3747062.11,636263.14,0.81,TBK
612-3069,3747074.91,636270.60,0.55,MB
612-3068,3747096.55,636282.56,0.68,MB
612-3067,3747119.77,636295.10,1.03,MB
612-3066,3747143.46,636305.09,1.07,MB
612-3065,3747166.02,636315.54,0.96,MB
612-3064,3747187.90,636328.48,1.17,MB
612-3063,3747211.45,636338.06,-0.09,MB
612-3062,3747231.82,636350.06,1.17,MB
612-3061,3747253.19,636362.91,0.80,MB
612-3060,3747275.63,636376.35,0.89,MB
612-3059,3747297.18,636388.00,0.66,MB
612-3058,3747319.81,636398.35,0.62,MB
612-3057,3747340.73,636409.43,0.57,MB
612-3056,3747363.51,636421.67,0.64,MB
612-3055,3747387.12,636431.90,0.90,MB
612-3054,3747409.14,636445.08,0.88,MB
612-3052,3747423.55,636453.52,0.53,TBK
612-3051,3747429.34,636456.34,-0.17,WB 0.68' WATER
612-3050,3747457.24,636466.06,-0.61,WB 1.12' WATER
612-3049,3747474.34,636477.92,0.33,WB 0.18' WATER
612-3047,3747475.08,636478.60,0.77,TBK
612-3045,3747493.79,636491.10,0.81,TBK

612-3044,3747495.85,636490.91,0.01,WB 0.50' WATER
612-3043,3747503.06,636494.48,-0.04,WB 0.55' WATER
612-3041,3747504.51,636495.39,0.69,TBK
612-3040,3747519.76,636500.85,0.50,MB
612-3039,3747540.31,636511.73,0.56,MB
612-3037,3747544.91,636514.44,0.51,TBK
612-3036,3747547.42,636515.75,-0.06,WB 0.57' WATER
612-3035,3747563.90,636524.84,0.03,WB 0.48' WATER
612-3034,3747585.00,636538.06,-0.51,WB 1.02' WATER
612-3033,3747601.69,636546.34,-0.06,WB 0.57' WATER
612-3031,3747602.53,636547.03,0.72,TBK
612-3030,3747606.57,636548.68,0.57,MB
612-3029,3747615.04,636551.85,0.87,TBK
612-3027,3747616.34,636551.93,0.12,WB 0.39' WATER
612-3026,3747629.74,636558.90,-0.49,WB 1.00' WATER
612-3025,3747655.08,636569.85,-0.96,WB 1.47' WATER
612-3024,3747676.54,636580.67,-0.73,WB 1.24' WATER
612-3023,3747696.72,636593.50,-0.93,WB 1.44' WATER
612-3022,3747716.67,636607.50,-0.97,WB 1.48' WATER
612-3021,3747737.81,636619.89,-0.98,WB 1.49' WATER
612-3020,3747759.86,636630.79,-1.02,WB 1.53' WATER
612-3019,3747784.84,636641.35,-1.24,WB 1.75' WATER
612-3018,3747808.84,636647.89,-1.23,WB 1.74' WATER
612-3017,3747830.18,636662.10,-1.06,WB 1.57' WATER
612-3012,3747851.75,636673.13,-0.59,WB 1.10' WATER
612-3011,3747874.80,636684.60,0.50,WB 0.01' WATER
612-3010,3747897.55,636696.70,0.00,WB 0.51' WATER
612-3008,3747899.93,636700.03,0.71,TBK
612-3007,3747907.25,636706.13,0.73,TBK
612-3005,3747910.42,636708.54,-0.02,WB 0.53' WATER
612-3004,3747918.48,636711.05,-0.70,WB 1.21' WATER
612-3003,3747939.66,636721.44,-0.86,WB 1.37' WATER
612-3002,3747962.35,636733.19,-0.68,WB 1.19' WATER
612-3001,3747985.88,636742.57,-0.82,WB 1.33' WATER
612-3000,3748006.23,636751.66,-0.72,WB 1.23' WATER
612-2999,3748025.95,636768.10,-0.94,WB 1.45' WATER
612-2998,3748050.26,636778.81,-1.01,WB 1.52' WATER
612-2997,3748073.87,636788.72,-1.08,WB 1.59' WATER
612-2996,3748094.39,636803.94,-1.14,WB 1.65' WATER
612-2995,3748114.22,636816.58,-0.99,WB 1.50' WATER
612-2994,3748138.31,636826.95,-0.90,WB 1.41' WATER
612-2993,3748159.25,636840.63,-0.96,WB 1.47' WATER
612-2992,3748180.88,636852.33,-0.53,WB 1.04' WATER
612-2991,3748208.85,636857.45,-0.87,WB 1.38' WATER
612-2990,3748228.69,636868.75,-0.77,WB 1.28' WATER
612-2989,3748251.68,636883.37,-0.79,WB 1.30' WATER
612-2988,3748271.65,636895.95,-1.02,WB 1.53' WATER
612-2987,3748294.59,636910.77,-0.82,WB 1.33' WATER
612-2986,3748314.45,636919.87,-0.94,WB 1.45' WATER
612-2985,3748336.77,636928.29,-0.65,WB 1.16' WATER
612-2984,3748360.30,636942.08,-0.35,WB 0.86' WATER
612-2983,3748372.70,636948.64,0.22,WB 0.29' WATER
612-2981,3748372.97,636950.21,0.88,TBK
612-2980,3748381.13,636954.38,0.46,MB
612-2979,3748388.70,636957.85,0.64,TBK
612-2977,3748391.50,636959.49,0.26,WB 0.25' WATER
612-2976,3748405.55,636964.86,-0.60,WB 1.11' WATER
612-2975,3748427.63,636977.40,-0.50,WB 1.01' WATER
612-2974,3748447.83,636988.77,-0.39,WB 0.90' WATER
612-2973,3748470.27,637000.82,-0.63,WB 1.14' WATER
612-2972,3748493.23,637011.34,-0.46,WB 0.97' WATER
612-2971,3748515.57,637022.92,-0.38,WB 0.89' WATER
612-2970,3748540.70,637032.43,-0.54,WB 1.05' WATER

612-2969,3748560.07,637043.32,-0.36,WB 0.87' WATER
612-2968,3748582.71,637058.48,-0.19,WB 0.70' WATER
612-2966,3748586.85,637061.08,0.83,TBK
612-2965,3748604.75,637069.26,0.63,MB
612-2964,3748627.33,637080.18,1.03,MB
612-2962,3748635.21,637086.02,0.83,TBK
612-2961,3748636.19,637086.52,0.01,WB 0.50' WATER
612-2960,3748646.29,637093.41,-0.40,WB 0.91' WATER
612-2959,3748670.55,637104.72,-0.59,WB 1.10' WATER
612-2958,3748691.43,637117.95,-0.62,WB 1.13' WATER
612-2957,3748714.98,637126.93,-0.44,WB 0.95' WATER
612-2956,3748738.44,637134.77,-0.57,WB 1.08' WATER
612-2955,3748760.06,637151.32,-0.57,WB 1.08' WATER
612-2954,3748778.76,637163.67,-0.25,WB 0.76' WATER
612-2953,3748803.26,637175.44,-0.25,WB 0.76' WATER
612-2951,3748818.14,637182.66,0.89,TBK
612-2950,3748824.41,637184.75,0.58,MB
612-2948,3748835.76,637189.80,0.49,TBK
612-2947,3748837.21,637190.88,-0.13,WB 0.64' WATER
612-2946,3748847.39,637194.36,-0.09,WB 0.60' WATER
612-2945,3748871.96,637205.70,0.12,WB 0.39' WATER
612-2944,3748892.05,637221.81,-0.72,WB 1.23' WATER
612-2943,3748915.40,637231.74,-0.88,WB 1.39' WATER
612-2942,3748937.49,637241.93,-0.91,WB 1.42' WATER
612-2941,3748961.26,637252.95,-1.16,WB 1.67' WATER
612-2940,3748981.08,637265.85,-1.03,WB 1.54' WATER
612-2939,3749005.20,637278.92,-1.05,WB 1.56' WATER
612-2938,3749027.13,637289.23,-0.71,WB 1.22' WATER
612-2937,3749048.24,637300.21,-0.73,WB 1.24' WATER
612-2936,3749070.46,637310.27,-1.02,WB 1.53' WATER
612-2935,3749093.16,637323.11,-0.45,WB 0.96' WATER
612-2934,3749115.44,637334.56,-1.08,WB 1.59' WATER
612-2933,3749136.80,637346.18,-1.24,WB 1.75' WATER
612-2932,3749159.04,637357.58,-1.23,WB 1.74' WATER
612-2931,3749179.40,637369.39,-1.13,WB 1.64' WATER
612-2930,3749203.67,637380.67,-1.22,WB 1.73' WATER
612-2929,3749224.97,637393.58,-0.77,WB 1.28' WATER
612-2928,3749247.41,637403.12,-1.05,WB 1.56' WATER
612-2927,3749268.48,637416.19,-1.18,WB 1.69' WATER
612-2926,3749290.90,637427.91,-0.87,WB 1.38' WATER
612-2925,3749314.33,637438.20,-0.95,WB 1.46' WATER
612-2924,3749337.14,637449.70,-1.01,WB 1.52' WATER
612-2923,3749359.58,637463.12,-0.93,WB 1.44' WATER
612-2922,3749380.48,637474.81,-1.16,WB 1.67' WATER
612-2921,3749403.25,637485.81,-1.31,WB 1.82' WATER
612-2920,3749423.40,637496.42,-1.30,WB 1.81' WATER
612-2919,3749447.05,637508.23,-1.28,WB 1.79' WATER
612-2918,3749471.74,637517.41,-1.09,WB 1.60' WATER
612-2917,3749491.94,637529.48,-1.37,WB 1.88' WATER
612-2916,3749513.86,637542.04,-1.47,WB 1.98' WATER
612-2915,3749536.18,637554.66,-1.53,WB 2.04' WATER
612-2914,3749557.78,637567.55,-1.51,WB 2.02' WATER
612-2913,3749580.24,637578.46,-1.53,WB 2.04' WATER
612-2912,3749601.78,637591.01,-1.54,WB 2.05' WATER
612-2911,3749624.45,637603.34,-1.50,WB 2.01' WATER
612-2910,3749645.26,637615.00,-1.60,WB 2.11' WATER
612-2909,3749668.03,637626.93,-1.74,WB 2.25' WATER
612-2908,3749689.49,637638.83,-1.52,WB 2.03' WATER
612-2907,3749712.04,637649.59,-1.66,WB 2.17' WATER
612-2906,3749734.03,637660.51,-1.58,WB 2.09' WATER
612-2905,3749756.09,637672.40,-1.47,WB 1.98' WATER
612-2904,3749778.09,637683.87,-1.36,WB 1.87' WATER
612-2903,3749799.17,637694.35,-1.47,WB 1.98' WATER

612-2902,3749818.31,637703.00,-1.38,WB 1.89' WATER
612-2901,3749845.68,637713.11,-1.33,WB 1.84' WATER
612-2900,3749868.32,637724.76,-1.35,WB 1.86' WATER
612-2899,3749889.71,637737.39,-1.41,WB 1.92' WATER
612-2898,3749910.75,637750.70,-1.42,WB 1.93' WATER
612-2897,3749933.57,637763.11,-1.42,WB 1.93' WATER
612-2896,3749955.76,637774.37,-1.35,WB 1.86' WATER
612-2895,3749980.33,637786.27,-1.48,WB 1.99' WATER
612-2894,3750000.94,637799.87,-1.15,WB 1.66' WATER
612-2893,3750022.80,637811.87,-1.35,WB 1.86' WATER
612-2892,3750043.57,637822.94,-1.36,WB 1.87' WATER
612-2891,3750067.93,637834.17,-1.54,WB 2.05' WATER
612-2890,3750088.11,637848.22,-1.41,WB 1.92' WATER
612-2889,3750109.40,637860.00,-1.38,WB 1.89' WATER
612-2888,3750132.01,637871.08,-1.35,WB 1.86' WATER
612-2887,3750155.05,637883.98,-1.39,WB 1.90' WATER
612-2886,3750175.69,637895.35,-1.35,WB 1.86' WATER
612-2885,3750199.07,637905.67,-1.36,WB 1.87' WATER
612-2884,3750216.38,637913.02,-1.36,WB 1.87' WATER
612-2883,3750244.53,637924.78,-1.35,WB 1.86' WATER
612-2882,3750267.22,637935.57,-1.15,WB 1.66' WATER
612-2881,3750287.98,637948.91,-1.19,WB 1.70' WATER
612-2880,3750309.93,637963.36,-1.28,WB 1.79' WATER
612-2879,3750333.01,637974.81,-1.15,WB 1.66' WATER
612-2878,3750354.19,637985.60,-1.17,WB 1.68' WATER
612-2877,3750375.05,637996.19,-1.26,WB 1.77' WATER
612-2876,3750396.69,638005.70,-1.12,WB 1.63' WATER
612-2875,3750421.12,638017.88,-1.30,WB 1.81' WATER
612-2874,3750444.39,638028.05,-1.25,WB 1.76' WATER
612-2873,3750465.28,638039.27,-1.39,WB 1.90' WATER
612-2872,3750487.46,638051.59,-1.33,WB 1.84' WATER
612-2871,3750510.04,638065.27,-1.38,WB 1.89' WATER
612-2870,3750531.79,638078.09,-1.31,WB 1.82' WATER
612-2869,3750554.49,638088.39,0.25,WB 0.26' WATER
612-2868,3750576.30,638098.93,-0.47,WB 0.98' WATER
612-2867,3750598.42,638112.17,-1.35,WB 1.86' WATER
612-2866,3750621.38,638121.52,-1.22,WB 1.73' WATER
612-2865,3750642.24,638131.80,-1.15,WB 1.66' WATER
612-2864,3750662.51,638147.15,-1.10,WB 1.61' WATER
612-2862,3750685.81,638158.84,-1.01,WB 1.52' WATER
;
:TRANSECT 37 TOP WATER SHOTS
612-3016,3747852.30,636672.61,0.53,TOP WATER
612-3028,3747616.76,636552.24,0.48,TOP WATER
612-3032,3747601.83,636547.07,0.48,TOP WATER
612-3038,3747547.76,636516.25,0.54,TOP WATER
612-3042,3747504.64,636494.92,0.48,TOP WATER
612-3046,3747495.42,636491.89,0.51,TOP WATER
612-3048,3747474.79,636478.23,0.57,TOP WATER
612-3053,3747428.66,636455.86,0.46,TOP WATER
612-3071,3747061.74,636262.58,0.52,TOP WATER
612-3100,3746493.56,635963.87,0.48,TOP WATER
612-3111,3746303.44,635865.20,0.50,TOP WATER
612-3009,3747900.01,636699.15,0.71,TOP WATER
612-3006,3747910.32,636708.39,0.59,TOP WATER
612-2982,3748372.67,636949.93,0.52,TOP WATER
612-2978,3748391.36,636959.60,0.48,TOP WATER
612-2967,3748586.58,637060.94,0.50,TOP WATER
612-2963,3748638.28,637088.33,0.56,TOP WATER
612-2952,3748818.30,637182.97,0.43,TOP WATER
612-2949,3748839.73,637189.44,0.41,TOP WATER
612-2863,3750672.38,638147.95,0.51,TOP WATER
;

;
;TRANSECT 38
;0.51' AVG TOP WATER
612-2860,3746553.60,635403.37,-1.25,WB 1.76' WATER
612-2859,3746576.58,635414.08,0.15,WB 0.36' WATER
612-2857,3746597.52,635427.19,0.30,WB 0.21' WATER
612-2856,3746610.03,635434.11,0.63,TBK
612-2855,3746618.69,635439.18,0.12,MB
612-2854,3746642.86,635448.87,0.83,MB
612-2853,3746650.31,635454.68,0.62,TBK
612-2851,3746652.21,635456.77,0.09,WB 0.42' WATER
612-2850,3746664.03,635462.06,0.00,WB 0.51' WATER
612-2849,3746685.21,635472.32,0.10,WB 0.41' WATER
612-2848,3746709.25,635484.20,0.21,WB 0.30' WATER
612-2847,3746729.91,635499.05,-0.03,WB 0.54' WATER
612-2846,3746755.38,635503.68,-0.17,WB 0.68' WATER
612-2845,3746772.06,635517.98,0.27,WB 0.24' WATER
612-2844,3746794.16,635535.36,0.06,WB 0.45' WATER
612-2843,3746819.79,635541.66,-0.20,WB 0.71' WATER
612-2842,3746843.02,635555.61,-0.38,WB 0.89' WATER
612-2841,3746862.10,635568.22,-0.78,WB 1.29' WATER
612-2840,3746884.59,635580.29,-0.94,WB 1.45' WATER
612-2839,3746906.58,635592.89,-0.75,WB 1.26' WATER
612-2838,3746928.62,635603.82,-0.82,WB 1.33' WATER
612-2837,3746952.47,635613.52,-0.96,WB 1.47' WATER
612-2836,3746972.78,635627.34,-1.00,WB 1.51' WATER
612-2835,3746995.50,635636.58,-0.98,WB 1.49' WATER
612-2834,3747018.86,635646.74,-0.92,WB 1.43' WATER
612-2833,3747038.99,635659.49,-0.96,WB 1.47' WATER
612-2832,3747061.78,635671.58,-0.88,WB 1.39' WATER
612-2831,3747084.32,635683.72,-1.02,WB 1.53' WATER
612-2830,3747106.84,635694.75,-1.01,WB 1.52' WATER
612-2829,3747129.14,635703.84,-1.12,WB 1.63' WATER
612-2828,3747152.51,635714.41,-1.05,WB 1.56' WATER
612-2827,3747172.65,635729.46,-1.18,WB 1.69' WATER
612-2826,3747195.30,635743.71,-1.14,WB 1.65' WATER
612-2825,3747216.68,635754.89,-1.14,WB 1.65' WATER
612-2824,3747237.97,635765.45,-1.18,WB 1.69' WATER
612-2823,3747261.13,635776.96,-1.16,WB 1.67' WATER
612-2822,3747284.55,635787.86,-1.05,WB 1.56' WATER
612-2821,3747304.94,635800.60,-0.87,WB 1.38' WATER
612-2820,3747326.41,635813.70,-1.10,WB 1.61' WATER
612-2819,3747346.96,635826.33,-1.39,WB 1.90' WATER
612-2818,3747369.15,635838.44,-1.18,WB 1.69' WATER
612-2817,3747392.71,635848.39,-1.03,WB 1.54' WATER
612-2816,3747415.89,635857.24,-1.26,WB 1.77' WATER
612-2815,3747440.86,635869.86,-1.22,WB 1.73' WATER
612-2814,3747462.67,635880.23,-1.38,WB 1.89' WATER
612-2813,3747479.51,635889.30,-1.21,WB 1.72' WATER
612-2812,3747504.40,635904.72,-1.01,WB 1.52' WATER
612-2811,3747524.03,635918.10,-1.14,WB 1.65' WATER
612-2810,3747546.66,635931.49,-1.13,WB 1.64' WATER
612-2809,3747568.95,635942.61,-1.08,WB 1.59' WATER
612-2808,3747592.02,635954.37,-0.97,WB 1.48' WATER
612-2807,3747615.10,635965.72,-0.92,WB 1.43' WATER
612-2806,3747637.28,635975.43,-0.92,WB 1.43' WATER
612-2805,3747658.95,635985.19,-0.86,WB 1.37' WATER
612-2804,3747681.46,635996.33,-0.79,WB 1.30' WATER
612-2803,3747698.90,636006.64,-0.65,WB 1.16' WATER
612-2802,3747714.93,636014.89,-0.76,WB 1.27' WATER
612-2801,3747746.38,636032.84,-0.45,WB 0.96' WATER
612-2800,3747768.82,636045.79,-0.21,WB 0.72' WATER
612-2799,3747789.12,636058.18,-0.33,WB 0.84' WATER

612-2798,3747812.18,636070.60,-0.13,WB 0.64' WATER
612-2797,3747834.89,636081.11,-0.19,WB 0.70' WATER
612-2796,3747858.53,636092.44,-0.16,WB 0.67' WATER
612-2795,3747878.24,636104.63,0.15,WB 0.36' WATER
612-2793,3747880.75,636106.40,0.58,TBK
612-2792,3747900.94,636117.82,0.89,MB
612-2791,3747923.13,636129.40,0.68,MB
612-2790,3747945.45,636137.78,0.59,MB
612-2789,3747955.43,636143.77,0.69,TBK
612-2787,3747957.52,636144.50,0.03,WB 0.48' WATER
612-2786,3747967.15,636150.33,-0.76,WB 1.27' WATER
612-2785,3747990.49,636161.34,-0.85,WB 1.36' WATER
612-2784,3748012.52,636172.08,-0.43,WB 0.94' WATER
612-2783,3748035.38,636182.60,-0.59,WB 1.10' WATER
612-2782,3748056.37,636195.18,-0.91,WB 1.42' WATER
612-2781,3748080.70,636207.41,-0.72,WB 1.23' WATER
612-2780,3748101.88,636219.30,-0.46,WB 0.97' WATER
612-2779,3748122.47,636231.90,-0.17,WB 0.68' WATER
612-2778,3748128.36,636238.64,0.05,WB 0.46' WATER
612-2776,3748130.65,636239.30,0.82,TBK
612-2775,3748143.52,636246.79,0.59,MB
612-2774,3748160.69,636248.68,0.45,TBK
612-2772,3748163.73,636251.80,0.16,WB 0.35' WATER
612-2771,3748167.64,636254.78,-0.03,WB 0.54' WATER
612-2770,3748188.30,636268.17,-0.37,WB 0.88' WATER
612-2769,3748211.39,636280.05,-0.27,WB 0.78' WATER
612-2768,3748232.07,636292.51,-0.29,WB 0.80' WATER
612-2767,3748255.55,636302.03,-0.27,WB 0.78' WATER
612-2766,3748275.50,636315.47,-0.55,WB 1.06' WATER
612-2765,3748300.11,636327.99,-0.74,WB 1.25' WATER
612-2764,3748320.78,636339.17,0.23,WB 0.28' WATER
612-2763,3748342.97,636353.13,-0.57,WB 1.08' WATER
612-2762,3748365.38,636364.81,-0.82,WB 1.33' WATER
612-2761,3748387.04,636374.81,-0.80,WB 1.31' WATER
612-2760,3748409.56,636383.99,-0.62,WB 1.13' WATER
612-2759,3748434.34,636392.03,-0.60,WB 1.11' WATER
612-2758,3748455.32,636406.70,-0.68,WB 1.19' WATER
612-2757,3748475.47,636424.26,-0.70,WB 1.21' WATER
612-2756,3748496.98,636433.85,-0.18,WB 0.69' WATER
612-2755,3748522.20,636441.07,-0.34,WB 0.85' WATER
612-2754,3748542.61,636453.31,-0.55,WB 1.06' WATER
612-2753,3748565.65,636466.64,-0.59,WB 1.10' WATER
612-2752,3748586.23,636479.54,-0.43,WB 0.94' WATER
612-2751,3748609.35,636492.06,-0.53,WB 1.04' WATER
612-2750,3748630.14,636502.74,-0.29,WB 0.80' WATER
612-2749,3748653.96,636512.79,-0.30,WB 0.81' WATER
612-2748,3748673.52,636525.56,0.01,WB 0.50' WATER
612-2747,3748696.30,636535.88,0.05,WB 0.46' WATER
612-2745,3748697.58,636537.22,0.83,TBK
612-2744,3748719.05,636547.67,1.20,MB
612-2743,3748741.27,636560.89,1.17,MB
612-2742,3748762.94,636572.03,1.11,MB
612-2741,3748784.63,636583.19,1.60,MB
612-2740,3748807.42,636594.53,1.50,MB
612-2739,3748828.75,636607.69,0.95,MB
612-2738,3748850.95,636619.36,0.93,MB
612-2737,3748874.32,636630.79,0.82,MB
612-2736,3748896.05,636642.40,0.77,MB
612-2735,3748917.12,636655.36,0.83,MB
612-2734,3748940.96,636664.35,0.62,MB
612-2733,3748961.35,636679.31,0.39,MB
612-2732,3748981.55,636689.96,0.91,MB
612-2730,3749001.95,636697.78,0.37,TBK

612-2729,3749006.39,636700.51,-0.01,WB 0.52' WATER
612-2728,3749015.67,636706.80,0.15,WB 0.36' WATER
612-2726,3749021.36,636709.62,0.55,TBK
612-2725,3749029.15,636712.56,0.49,MB
612-2724,3749030.21,636713.92,0.40,TBK
612-2722,3749031.66,636715.22,0.13,WB 0.38' WATER
612-2721,3749050.35,636724.84,-0.46,WB 0.97' WATER
612-2720,3749072.10,636736.32,-0.33,WB 0.84' WATER
612-2719,3749095.35,636747.85,-0.33,WB 0.84' WATER
612-2718,3749116.73,636760.69,-0.47,WB 0.98' WATER
612-2717,3749138.96,636772.09,-0.40,WB 0.91' WATER
612-2716,3749161.31,636782.47,0.12,WB 0.39' WATER
612-2715,3749183.27,636795.70,-0.52,WB 1.03' WATER
612-2714,3749206.12,636806.18,-0.52,WB 1.03' WATER
612-2713,3749229.26,636818.07,-0.48,WB 0.99' WATER
612-2712,3749249.26,636827.13,-0.27,WB 0.78' WATER
612-2711,3749272.24,636840.62,-0.31,WB 0.82' WATER
612-2709,3749276.25,636844.92,0.51,TBK
612-2707,3749294.67,636852.94,0.36,TBK
612-2706,3749304.06,636856.09,-0.64,WB 1.15' WATER
612-2705,3749315.20,636867.47,-0.76,WB 1.27' WATER
612-2704,3749337.76,636877.26,-0.12,WB 0.63' WATER
612-2703,3749360.72,636887.00,-0.94,WB 1.45' WATER
612-2702,3749381.42,636898.45,-1.17,WB 1.68' WATER
612-2701,3749403.34,636911.65,-1.34,WB 1.85' WATER
612-2700,3749424.14,636924.19,-1.38,WB 1.89' WATER
612-2699,3749447.36,636935.70,-1.34,WB 1.85' WATER
612-2698,3749469.49,636946.82,-1.42,WB 1.93' WATER
612-2697,3749492.43,636957.77,-1.36,WB 1.87' WATER
612-2696,3749514.06,636967.59,-1.37,WB 1.88' WATER
612-2695,3749536.04,636980.17,-1.26,WB 1.77' WATER
612-2694,3749558.48,636992.94,-1.13,WB 1.64' WATER
612-2693,3749579.72,637004.28,-1.10,WB 1.61' WATER
612-2692,3749603.02,637015.98,-0.89,WB 1.40' WATER
612-2691,3749625.91,637026.70,-0.89,WB 1.40' WATER
612-2690,3749643.70,637039.34,-0.76,WB 1.27' WATER
612-2689,3749667.22,637055.16,-0.59,WB 1.10' WATER
612-2688,3749690.05,637065.77,-0.38,WB 0.89' WATER
612-2687,3749712.67,637077.56,-0.46,WB 0.97' WATER
612-2686,3749734.97,637086.44,-0.41,WB 0.92' WATER
612-2685,3749757.95,637097.76,-0.47,WB 0.98' WATER
612-2684,3749779.28,637107.97,-0.13,WB 0.64' WATER
612-2683,3749802.41,637120.94,0.16,WB 0.35' WATER
612-2682,3749808.12,637126.02,0.22,WB 0.29' WATER
612-2680,3749810.01,637127.58,0.94,TBK
612-2679,3749822.60,637134.76,1.21,MB
612-2678,3749846.07,637145.45,0.72,MB
612-2677,3749868.72,637156.77,0.67,MB
612-2676,3749888.90,637169.86,0.36,MB
612-2675,3749912.53,637179.61,0.50,MB
612-2673,3749916.33,637180.42,0.57,TBK
612-2672,3749917.35,637181.03,-0.33,WB 0.84' WATER
612-2671,3749936.44,637191.34,-0.42,WB 0.93' WATER
612-2670,3749956.22,637204.55,-0.81,WB 1.32' WATER
612-2669,3749976.79,637216.64,-0.98,WB 1.49' WATER
612-2668,3749998.99,637225.39,-1.07,WB 1.58' WATER
612-2667,3750023.84,637237.16,-1.10,WB 1.61' WATER
612-2666,3750045.92,637248.57,-0.75,WB 1.26' WATER
612-2665,3750067.79,637261.17,-0.72,WB 1.23' WATER
612-2664,3750089.07,637273.26,-0.70,WB 1.21' WATER
612-2663,3750109.10,637286.46,-0.74,WB 1.25' WATER
612-2662,3750130.86,637298.45,-0.60,WB 1.11' WATER
612-2661,3750158.04,637308.71,-0.44,WB 0.95' WATER

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612-2660,3750177.06,637319.00,-0.30,WB 0.81' WATER
612-2659,3750195.12,637336.42,0.04,WB 0.47' WATER
612-2658,3750220.48,637345.71,-0.20,WB 0.71' WATER
612-2657,3750244.31,637357.32,0.04,WB 0.47' WATER
612-2656,3750265.90,637367.43,0.17,WB 0.34' WATER
612-2655,3750288.38,637379.61,-0.59,WB 1.10' WATER
612-2654,3750311.53,637388.29,-0.33,WB 0.84' WATER
612-2653,3750331.52,637403.27,-0.18,WB 0.69' WATER
612-2652,3750353.95,637415.17,-0.13,WB 0.64' WATER
612-2651,3750374.01,637424.47,0.22,WB 0.29' WATER
612-2649,3750376.67,637426.88,1.05,TBK
612-2648,3750398.79,637437.83,0.44,MB
612-2647,3750421.62,637449.48,0.94,MB
612-2646,3750441.78,637460.03,0.77,MB
612-2645,3750448.21,637462.60,0.44,TBK
612-2643,3750450.93,637464.03,0.09,WB 0.42' WATER
612-2642,3750465.26,637471.93,-0.24,WB 0.75' WATER
612-2641,3750486.68,637484.78,-0.51,WB 1.02' WATER
612-2639,3750497.00,637488.24,-0.03,WB 0.54' WATER
612-2638,3750498.15,637488.94,0.54,TBK
612-2637,3750504.69,637493.07,0.51,TBK
612-2636,3750508.39,637495.51,0.28,WB 0.23' WATER
612-2635,3750511.67,637497.30,-0.16,WB 0.67' WATER
612-2634,3750530.03,637508.04,-1.08,WB 1.59' WATER
612-2633,3750553.04,637520.27,-0.75,WB 1.26' WATER
612-2632,3750574.92,637531.78,-0.72,WB 1.23' WATER
612-2631,3750597.44,637544.55,-0.69,WB 1.20' WATER
612-2630,3750619.66,637553.62,-0.72,WB 1.23' WATER
612-2629,3750643.11,637565.08,-0.64,WB 1.15' WATER
612-2628,3750662.91,637577.97,-0.59,WB 1.10' WATER
612-2626,3750685.41,637588.69,-0.65,WB 1.16' WATER
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;TRANSECT 38 TOP WATER SHOTS
612-2861,3746568.62,635416.61,0.47,TOP WATER
612-2858,3746598.04,635427.50,0.48,TOP WATER
612-2852,3746651.01,635455.79,0.36,TOP WATER
612-2794,3747880.46,636105.88,0.49,TOP WATER
612-2788,3747957.27,636144.01,0.44,TOP WATER
612-2777,3748129.85,636237.97,0.41,TOP WATER
612-2773,3748163.06,636250.84,0.41,TOP WATER
612-2746,3748697.48,636535.88,0.48,TOP WATER
612-2731,3749003.72,636698.99,0.47,TOP WATER
612-2727,3749021.26,636709.63,0.38,TOP WATER
612-2723,3749032.14,636715.46,0.34,TOP WATER
612-2710,3749275.75,636844.71,0.43,TOP WATER
612-2708,3749296.30,636853.69,0.42,TOP WATER
612-2681,3749808.85,637126.80,0.40,TOP WATER
612-2674,3749916.10,637180.99,0.30,TOP WATER
612-2650,3750377.48,637424.74,0.41,TOP WATER
612-2644,3750450.03,637464.02,0.40,TOP WATER
612-2640,3750496.52,637489.60,0.34,TOP WATER
612-2627,3750685.38,637588.29,0.37,TOP WATER
;
;
;TRANSECT 39
;0.51' AVG TOP WATER
612-6547,3746767.86,634947.12,-4.37,WB 4.88' WATER
612-6548,3746791.90,634966.32,-4.04,WB 4.55' WATER
612-6549,3746808.42,634970.30,-3.71,WB 4.22' WATER
612-6550,3746834.90,634984.07,-2.79,WB 3.30' WATER
612-6551,3746853.89,634997.49,-2.23,WB 2.74' WATER
612-6552,3746877.38,635009.00,-0.91,WB 1.42' WATER
612-6553,3746890.33,635013.67,0.04,WB 0.47' WATER
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612-2376,3746891.31,635015.35,0.98,TBK
612-6555,3746892.17,635015.56,1.25,EDGE-MARSH
612-2377,3746900.40,635020.96,1.60,MB
612-2378,3746923.65,635031.24,0.97,MB
612-2379,3746945.46,635042.90,0.78,MB
612-2380,3746967.62,635053.23,0.52,MB
612-2381,3746988.08,635066.80,0.53,MB
612-2382,3747011.51,635079.24,0.52,MB
612-2383,3747017.54,635083.75,0.52,TBK
612-2385,3747018.54,635086.16,0.06,WB 0.45' WATER
612-2386,3747033.16,635091.01,-0.14,WB 0.65' WATER
612-2387,3747056.76,635100.43,0.55,TBK
612-2389,3747077.08,635113.17,0.61,MB
612-2390,3747100.80,635124.78,0.46,MB
612-2391,3747122.32,635134.91,0.37,MB
612-2392,3747144.86,635148.75,0.55,MB
612-2393,3747166.17,635160.26,0.57,MB
612-2394,3747188.75,635172.90,0.54,MB
612-2395,3747209.13,635183.90,0.60,MB
612-2396,3747233.10,635195.89,0.61,MB
612-2397,3747255.04,635205.61,0.68,MB
612-2398,3747278.23,635218.13,0.94,MB
612-2399,3747287.69,635221.29,0.68,TBK
612-2401,3747290.30,635222.42,0.24,WB 0.27' WATER
612-2402,3747300.05,635229.76,-0.06,WB 0.57' WATER
612-2403,3747322.02,635244.37,-1.39,WB 1.90' WATER
612-2404,3747342.47,635251.70,-0.71,WB 1.22' WATER
612-2405,3747373.54,635269.50,0.10,WB 0.41' WATER
612-2406,3747376.86,635269.74,0.62,WB
612-2408,3747387.25,635276.16,0.72,MB
612-2409,3747409.81,635287.85,1.06,MB
612-2410,3747430.68,635300.23,0.86,MB
612-2411,3747452.66,635311.97,0.81,MB
612-2412,3747475.23,635321.42,0.78,MB
612-2413,3747483.93,635326.99,0.68,TBK
612-2415,3747486.29,635328.52,0.35,WB 0.16' WATER
612-2416,3747496.57,635336.69,-0.83,WB 1.34' WATER
612-2417,3747519.10,635346.98,-0.07,WB 0.58' WATER
612-2419,3747520.35,635347.51,0.90,TBK
612-2420,3747543.34,635356.87,0.97,MB
612-2421,3747563.96,635368.14,0.84,MB
612-2422,3747585.71,635381.72,0.65,MB
612-2423,3747608.46,635393.97,0.59,MB
612-2424,3747629.64,635406.58,0.66,MB
612-2425,3747652.79,635415.05,0.79,MB
612-2426,3747664.39,635423.06,0.54,TBK
612-2428,3747665.60,635424.46,0.04,WB 0.47' WATER
612-2429,3747674.15,635429.68,-0.15,WB 0.66' WATER
612-2430,3747694.84,635438.74,0.31,WB 0.20' WATER
612-2431,3747695.95,635440.21,0.78,TBK
612-2433,3747718.79,635453.49,0.95,TBK
612-2435,3747719.72,635454.58,-0.14,WB 0.65' WATER
612-2436,3747741.29,635463.69,-0.13,WB 0.64' WATER
612-2437,3747763.99,635475.57,-0.01,WB 0.52' WATER
612-2438,3747781.46,635481.34,0.04,WB 0.47' WATER
612-2439,3747783.58,635482.12,0.52,TBK
612-2441,3747806.98,635498.65,0.51,MB
612-2442,3747830.01,635508.51,0.48,TBK
612-2444,3747831.10,635509.28,0.15,WB 0.36' WATER
612-2445,3747851.83,635523.81,-0.79,WB 1.30' WATER
612-2446,3747873.25,635532.57,-0.55,WB 1.06' WATER
612-2447,3747897.51,635544.33,-0.54,WB 1.05' WATER
612-2448,3747919.19,635555.15,-0.39,WB 0.90' WATER
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612-2449,3747940.96,635568.81,-0.33,WB 0.84' WATER
612-2450,3747961.79,635580.25,-0.28,WB 0.79' WATER
612-2451,3747984.47,635591.32,-0.86,WB 1.37' WATER
612-2452,3748006.20,635607.40,-0.77,WB 1.28' WATER
612-2453,3748026.32,635619.25,-0.47,WB 0.98' WATER
612-2454,3748050.09,635630.20,-0.41,WB 0.92' WATER
612-2455,3748072.09,635642.25,-0.26,WB 0.77' WATER
612-2456,3748094.05,635651.95,-0.84,WB 1.35' WATER
612-2457,3748116.94,635662.39,-0.62,WB 1.13' WATER
612-2458,3748137.57,635674.31,0.19,WB 0.32' WATER
612-2459,3748160.55,635686.17,-0.74,WB 1.25' WATER
612-2460,3748183.54,635700.16,-0.85,WB 1.36' WATER
612-2461,3748206.95,635712.49,-0.61,WB 1.12' WATER
612-2462,3748225.95,635720.68,-1.13,WB 1.64' WATER
612-2463,3748249.87,635734.61,-1.20,WB 1.71' WATER
612-2464,3748273.05,635747.30,-1.32,WB 1.83' WATER
612-2465,3748294.20,635757.97,-1.44,WB 1.95' WATER
612-2466,3748319.34,635765.58,-1.71,WB 2.22' WATER
612-2467,3748338.03,635780.76,-1.66,WB 2.17' WATER
612-2468,3748358.98,635796.52,-1.83,WB 2.34' WATER
612-2469,3748384.52,635806.26,-1.88,WB 2.39' WATER
612-2470,3748407.76,635812.20,-1.86,WB 2.37' WATER
612-2471,3748425.78,635823.39,-1.90,WB 2.41' WATER
612-2472,3748448.41,635840.61,-1.85,WB 2.36' WATER
612-2473,3748469.85,635852.72,-1.84,WB 2.35' WATER
612-2474,3748491.50,635863.65,-1.79,WB 2.30' WATER
612-2475,3748515.51,635873.52,-1.99,WB 2.50' WATER
612-2476,3748536.88,635884.39,-2.00,WB 2.51' WATER
612-2477,3748558.48,635896.09,-1.84,WB 2.35' WATER
612-2478,3748582.58,635908.13,-1.93,WB 2.44' WATER
612-2479,3748603.39,635918.52,-1.93,WB 2.44' WATER
612-2480,3748623.68,635931.91,-1.79,WB 2.30' WATER
612-2481,3748646.53,635946.74,-1.88,WB 2.39' WATER
612-2482,3748666.76,635957.65,-1.68,WB 2.19' WATER
612-2483,3748691.29,635968.80,-2.00,WB 2.51' WATER
612-2484,3748713.02,635978.20,-1.94,WB 2.45' WATER
612-2485,3748735.70,635987.28,-2.07,WB 2.58' WATER
612-2486,3748757.80,635996.63,-1.80,WB 2.31' WATER
612-2487,3748780.33,636009.25,-1.74,WB 2.25' WATER
612-2488,3748800.94,636027.52,-1.77,WB 2.28' WATER
612-2489,3748822.16,636040.89,-1.75,WB 2.26' WATER
612-2490,3748844.28,636050.23,-1.71,WB 2.22' WATER
612-2491,3748867.30,636059.21,-1.76,WB 2.27' WATER
612-2492,3748890.43,636068.38,-1.95,WB 2.46' WATER
612-2493,3748913.05,636081.22,-1.64,WB 2.15' WATER
612-2494,3748934.30,636093.77,-1.56,WB 2.07' WATER
612-2495,3748958.67,636103.92,-1.43,WB 1.94' WATER
612-2496,3748978.96,636116.59,-1.11,WB 1.62' WATER
612-2497,3749000.75,636130.78,-1.11,WB 1.62' WATER
612-2498,3749022.20,636140.93,-1.05,WB 1.56' WATER
612-2499,3749045.28,636152.46,-0.94,WB 1.45' WATER
612-2500,3749059.84,636160.11,-0.10,WB 0.61' WATER
612-2502,3749062.03,636161.82,0.59,TBK
612-2503,3749065.88,636165.57,0.83,MB
612-2504,3749088.93,636177.09,0.94,MB
612-2505,3749110.83,636187.72,0.88,MB
612-2506,3749134.24,636200.06,1.03,MB
612-2507,3749154.85,636212.56,1.23,MB
612-2508,3749177.17,636224.40,1.05,MB
612-2509,3749198.60,636233.95,0.91,MB
612-2510,3749221.12,636246.63,0.80,MB
612-2511,3749244.12,636258.38,0.76,MB
612-2512,3749266.68,636269.97,0.63,MB
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612-2513,3749289.37,636281.18,0.86,MB
612-2514,3749311.07,636292.88,0.68,MB
612-2515,3749332.33,636304.67,0.79,MB
612-2516,3749353.11,636318.55,0.50,MB
612-2517,3749373.03,636328.22,0.72,TBK
612-2519,3749376.44,636329.33,-0.13,WB 0.64' WATER
612-2520,3749397.52,636342.07,-0.40,WB 0.91' WATER
612-2521,3749419.87,636352.58,-0.33,WB 0.84' WATER
612-2522,3749442.37,636365.23,-0.28,WB 0.79' WATER
612-2523,3749465.40,636374.75,-0.22,WB 0.73' WATER
612-2524,3749487.72,636386.33,-0.21,WB 0.72' WATER
612-2525,3749507.78,636398.09,0.18,WB 0.33' WATER
612-2526,3749508.07,636398.91,0.67,TBK
612-2528,3749531.70,636410.21,0.33,MB
612-2529,3749551.71,636422.51,0.64,MB
612-2530,3749575.02,636433.54,0.25,MB
612-2531,3749596.67,636443.32,0.51,MB
612-2532,3749600.02,636444.71,0.56,TBK
612-2534,3749601.77,636444.88,-0.30,WB 0.81' WATER
612-2535,3749618.27,636459.71,0.45,WB 0.06' WATER
612-2536,3749640.97,636471.89,-0.52,WB 1.03' WATER
612-2537,3749661.49,636485.10,0.12,WB 0.39' WATER
612-2538,3749662.15,636487.62,0.54,TBK
612-2540,3749682.54,636493.08,0.49,TBK
612-2542,3749684.46,636493.67,-1.07,WB 1.58' WATER
612-2543,3749696.02,636499.61,-1.27,WB 1.78' WATER
612-2544,3749696.60,636499.25,0.98,TBK
612-2546,3749708.13,636503.89,0.57,MB
612-2547,3749728.40,636515.04,0.37,MB
612-2548,3749750.29,636528.94,0.53,MB
612-2549,3749763.52,636535.91,0.54,TBK
612-2551,3749764.45,636536.13,-0.01,WB 0.52' WATER
612-2552,3749773.47,636538.77,-0.63,WB 1.14' WATER
612-2553,3749796.85,636550.17,-0.97,WB 1.48' WATER
612-2554,3749817.34,636564.75,-0.34,WB 0.85' WATER
612-2555,3749836.87,636573.90,-1.10,WB 1.61' WATER
612-2556,3749866.17,636586.91,-1.20,WB 1.71' WATER
612-2557,3749885.41,636598.79,-1.07,WB 1.58' WATER
612-2558,3749906.96,636611.32,-1.14,WB 1.65' WATER
612-2559,3749930.13,636620.90,-0.98,WB 1.49' WATER
612-2560,3749949.31,636632.60,-1.24,WB 1.75' WATER
612-2561,3749971.73,636649.07,-0.95,WB 1.46' WATER
612-2610,3749998.06,636661.47,-1.05,WB 1.56' WATER
612-2609,3750020.02,636668.91,-0.94,WB 1.45' WATER
612-2608,3750043.37,636682.24,-0.73,WB 1.24' WATER
612-2607,3750064.25,636696.26,-0.67,WB 1.18' WATER
612-2606,3750086.45,636706.09,-0.93,WB 1.44' WATER
612-2605,3750109.05,636717.59,-0.90,WB 1.41' WATER
612-2604,3750131.81,636728.82,-1.17,WB 1.68' WATER
612-2603,3750153.32,636741.93,-0.93,WB 1.44' WATER
612-2602,3750174.99,636753.52,-0.99,WB 1.50' WATER
612-2601,3750198.96,636763.24,-0.83,WB 1.34' WATER
612-2600,3750221.32,636775.56,-1.06,WB 1.57' WATER
612-2599,3750241.43,636788.73,-1.10,WB 1.61' WATER
612-2598,3750263.85,636800.45,-1.39,WB 1.90' WATER
612-2597,3750287.66,636811.07,-1.42,WB 1.93' WATER
612-2596,3750309.10,636822.67,-1.29,WB 1.80' WATER
612-2595,3750333.19,636833.96,-1.25,WB 1.76' WATER
612-2594,3750353.73,636845.57,-1.46,WB 1.97' WATER
612-2593,3750375.14,636859.48,-1.45,WB 1.96' WATER
612-2592,3750396.84,636869.70,-1.48,WB 1.99' WATER
612-2591,3750418.82,636881.02,-1.27,WB 1.78' WATER
612-2590,3750440.63,636891.96,-1.36,WB 1.87' WATER
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612-2589,3750463.80,636903.86,-1.30,WB 1.81' WATER
612-2588,3750486.33,636916.20,-1.30,WB 1.81' WATER
612-2587,3750508.18,636926.63,-1.44,WB 1.95' WATER
612-2586,3750529.88,636938.24,-1.23,WB 1.74' WATER
612-2585,3750552.03,636950.54,-1.10,WB 1.61' WATER
612-2584,3750574.90,636963.19,-1.20,WB 1.71' WATER
612-2583,3750595.89,636975.20,-1.17,WB 1.68' WATER
612-2582,3750617.24,636986.61,-1.17,WB 1.68' WATER
612-2581,3750639.04,636999.11,-1.25,WB 1.76' WATER
612-2580,3750661.13,637010.52,-1.22,WB 1.73' WATER
612-2579,3750685.34,637020.43,-1.11,WB 1.62' WATER
612-2578,3750708.16,637031.85,-1.09,WB 1.60' WATER
612-2577,3750729.34,637045.33,-0.69,WB 1.20' WATER
612-2576,3750750.94,637057.70,-0.82,WB 1.33' WATER
612-2575,3750773.05,637067.84,-1.02,WB 1.53' WATER
612-2574,3750796.21,637082.31,-0.79,WB 1.30' WATER
612-2573,3750813.27,637093.91,-0.87,WB 1.38' WATER
612-2572,3750836.77,637104.75,-1.05,WB 1.56' WATER
612-2571,3750861.71,637115.22,-1.07,WB 1.58' WATER
612-2570,3750883.49,637125.46,-0.98,WB 1.49' WATER
612-2569,3750906.44,637137.68,-1.03,WB 1.54' WATER
612-2568,3750928.45,637149.52,-1.03,WB 1.54' WATER
612-2567,3750950.38,637160.87,-1.04,WB 1.55' WATER
612-2566,3750973.18,637170.44,-1.02,WB 1.53' WATER
612-2565,3750995.16,637184.24,-0.98,WB 1.49' WATER
612-2563,3750992.84,637183.86,-1.11,WB 1.62' WATER
612-2562,3751016.74,637193.83,-1.16,WB 1.67' WATER
;
:TRANSECT 39 TOP WATER SHOTS
612-2613,3749936.17,636619.77,0.50,TOP WATER
612-2550,3749763.15,636535.79,0.51,TOP WATER
612-2545,3749697.56,636500.57,0.62,TOP WATER
612-2541,3749682.50,636493.09,0.53,TOP WATER
612-2539,3749661.04,636487.05,0.55,TOP WATER
612-2533,3749600.38,636444.20,0.47,TOP WATER
612-2527,3749506.10,636397.98,0.44,TOP WATER
612-2518,3749373.13,636328.89,0.49,TOP WATER
612-2501,3749060.98,636160.92,0.47,TOP WATER
612-2443,3747830.09,635508.93,0.41,TOP WATER
612-2440,3747781.71,635481.86,0.44,TOP WATER
612-2434,3747718.51,635454.15,0.51,TOP WATER
612-2427,3747665.17,635424.01,0.45,TOP WATER
612-2418,3747520.07,635347.41,0.60,TOP WATER
612-2414,3747483.42,635328.03,0.65,TOP WATER
612-2407,3747375.94,635269.45,0.55,TOP WATER
612-2400,3747288.58,635221.54,0.61,TOP WATER
612-2388,3747056.75,635099.51,0.46,TOP WATER
612-2384,3747017.73,635084.59,0.44,TOP WATER
612-2375,3746884.23,635011.42,0.56,TOP WATER
;
;
;TRANSECT 40
;0.35' AVG TOP WATER
612-2286,3749443.80,635799.86,0.92,MB
612-2287,3749467.43,635809.90,0.79,MB
612-2288,3749488.26,635825.40,0.78,MB
612-2289,3749508.49,635835.77,0.79,MB
612-2290,3749530.24,635847.34,0.49,MB
612-2291,3749554.40,635858.52,0.41,MB
612-2292,3749576.35,635869.32,0.63,MB
612-2293,3749598.51,635881.83,0.69,MB
612-2294,3749620.56,635893.73,0.47,MB
612-2295,3749642.84,635905.44,0.58,MB

612-2296,3749665.45,635916.76,0.40,MB
612-2297,3749681.78,635927.02,1.00,TBK
612-2299,3749683.50,635927.37,-0.35,WB 0.70' WATER
612-2300,3749685.79,635929.74,-0.42,WB 0.77' WATER
612-2301,3749708.95,635939.05,-0.22,WB 0.57' WATER
612-2302,3749730.33,635953.30,-0.66,WB 1.01' WATER
612-2303,3749751.94,635965.21,-0.47,WB 0.82' WATER
612-2304,3749775.82,635974.04,-0.79,WB 1.14' WATER
612-2305,3749799.14,635984.00,-0.77,WB 1.12' WATER
612-2306,3749820.56,635996.37,-0.73,WB 1.08' WATER
612-2307,3749840.36,636007.98,-0.59,WB 0.94' WATER
612-2308,3749862.33,636021.44,-0.76,WB 1.11' WATER
612-2309,3749885.13,636035.42,-0.83,WB 1.18' WATER
612-2310,3749906.95,636047.03,-0.65,WB 1.00' WATER
612-2311,3749930.27,636057.87,-0.75,WB 1.10' WATER
612-2312,3749951.93,636068.86,-0.75,WB 1.10' WATER
612-2313,3749972.72,636081.18,-0.61,WB 0.96' WATER
612-2314,3749996.17,636093.32,-0.45,WB 0.80' WATER
612-2315,3750018.17,636104.40,-0.63,WB 0.98' WATER
612-2316,3750040.84,636115.03,-0.32,WB 0.67' WATER
612-2317,3750062.49,636126.09,-0.39,WB 0.74' WATER
612-2318,3750083.91,636137.79,-0.96,WB 1.31' WATER
612-2319,3750108.03,636150.50,-1.16,WB 1.51' WATER
612-2320,3750131.03,636161.03,-1.07,WB 1.42' WATER
612-2321,3750150.17,636172.69,-1.09,WB 1.44' WATER
612-2322,3750176.16,636186.22,-1.19,WB 1.54' WATER
612-2323,3750198.05,636197.75,-1.27,WB 1.62' WATER
612-2324,3750218.31,636208.51,-1.04,WB 1.39' WATER
612-2325,3750239.50,636219.17,-1.12,WB 1.47' WATER
612-2326,3750261.55,636232.15,-0.99,WB 1.34' WATER
612-2327,3750283.49,636243.40,-1.05,WB 1.40' WATER
612-2328,3750305.89,636254.84,-1.11,WB 1.46' WATER
612-2329,3750327.97,636267.53,-0.95,WB 1.30' WATER
612-2330,3750349.01,636280.05,-0.87,WB 1.22' WATER
612-2331,3750371.39,636292.10,-0.97,WB 1.32' WATER
612-2332,3750392.18,636302.23,-1.20,WB 1.55' WATER
612-2333,3750415.29,636314.15,-1.10,WB 1.45' WATER
612-2334,3750436.93,636325.77,-1.20,WB 1.55' WATER
612-2335,3750460.60,636338.33,-1.13,WB 1.48' WATER
612-2336,3750480.79,636352.15,-1.00,WB 1.35' WATER
612-2337,3750503.75,636363.30,-1.08,WB 1.43' WATER
612-2338,3750526.62,636371.88,-1.01,WB 1.36' WATER
612-2339,3750548.56,636384.31,-1.04,WB 1.39' WATER
612-2340,3750572.79,636395.11,-0.65,WB 1.00' WATER
612-2341,3750593.58,636407.24,-0.90,WB 1.25' WATER
612-2342,3750617.60,636418.40,-0.92,WB 1.27' WATER
612-2343,3750636.45,636432.76,-0.96,WB 1.31' WATER
612-2344,3750659.07,636446.27,-0.87,WB 1.22' WATER
612-2345,3750679.50,636458.01,-1.00,WB 1.35' WATER
612-2346,3750703.42,636466.77,-0.93,WB 1.28' WATER
612-2347,3750726.21,636479.06,-1.01,WB 1.36' WATER
612-2348,3750748.69,636488.94,-0.96,WB 1.31' WATER
612-2349,3750771.95,636497.81,-1.22,WB 1.57' WATER
612-2350,3750795.53,636512.32,-1.23,WB 1.58' WATER
612-2351,3750813.66,636528.41,-1.14,WB 1.49' WATER
612-2352,3750834.44,636543.90,-1.17,WB 1.52' WATER
612-2353,3750857.18,636550.49,-1.19,WB 1.54' WATER
612-2354,3750879.76,636558.20,-1.10,WB 1.45' WATER
612-2355,3750905.94,636568.24,-1.12,WB 1.47' WATER
612-2356,3750929.74,636583.07,-1.25,WB 1.60' WATER
612-2357,3750945.44,636594.61,-1.19,WB 1.54' WATER
612-2358,3750968.96,636608.30,-1.14,WB 1.49' WATER
612-2359,3750989.95,636620.29,-1.29,WB 1.64' WATER

612-2360,3751011.96,636633.16,-1.18,WB 1.53' WATER
612-2361,3751033.16,636645.18,-1.16,WB 1.51' WATER
612-2362,3751054.59,636657.75,-1.19,WB 1.54' WATER
612-2363,3751077.26,636668.61,-1.24,WB 1.59' WATER
612-2364,3751099.84,636679.45,-1.25,WB 1.60' WATER
612-2365,3751121.92,636689.13,-1.09,WB 1.44' WATER
612-2366,3751145.73,636700.26,-1.30,WB 1.65' WATER
612-2367,3751168.58,636714.25,-1.25,WB 1.60' WATER
612-2368,3751190.93,636727.26,-1.22,WB 1.57' WATER
612-2369,3751232.01,636749.00,-1.15,WB 1.50' WATER
612-2370,3751254.38,636760.41,-1.24,WB 1.59' WATER
612-2371,3751276.74,636773.85,-1.22,WB 1.57' WATER
612-2372,3751299.97,636786.36,-1.16,WB 1.51' WATER
;
:TRANSECT 40 TOP WATER SHOTS
612-2373,3751311.06,636798.74,0.39,TOP WATER
612-2298,3749680.43,635927.33,0.31,TOP WATER
;
;
;TRANSECT 41
;0.31' AVG TOP WATER
612-2285,3749730.68,635387.40,0.35,MB
612-2284,3749752.09,635397.19,0.50,MB
612-2283,3749780.78,635408.28,0.70,MB
612-2282,3749796.76,635421.12,0.32,MB
612-2281,3749820.70,635431.87,0.51,MB
612-2280,3749839.00,635443.29,0.68,TBK
612-2278,3749839.54,635446.83,-0.17,WB 0.48' WATER
612-2277,3749862.90,635455.15,-0.67,WB 0.98' WATER
612-2276,3749886.56,635464.75,-0.40,WB 0.71' WATER
612-2275,3749908.32,635476.48,-0.68,WB 0.99' WATER
612-2274,3749929.53,635488.75,-0.58,WB 0.89' WATER
612-2273,3749952.12,635499.86,-0.62,WB 0.93' WATER
612-2272,3749973.55,635511.56,-0.63,WB 0.94' WATER
612-2271,3749996.43,635525.77,-0.73,WB 1.04' WATER
612-2270,3750018.00,635536.96,-0.96,WB 1.27' WATER
612-2269,3750040.46,635548.79,-0.74,WB 1.05' WATER
612-2268,3750062.27,635559.95,-0.75,WB 1.06' WATER
612-2267,3750087.63,635567.50,-0.75,WB 1.06' WATER
612-2266,3750105.82,635582.89,-0.49,WB 0.80' WATER
612-2265,3750114.70,635587.55,-0.04,WB 0.35' WATER
612-2263,3750115.59,635588.02,0.50,TBK
612-2262,3750130.05,635592.82,0.36,MB
612-2261,3750151.76,635607.33,1.11,MB
612-2260,3750165.08,635612.29,0.56,TBK
612-2258,3750169.66,635614.79,-0.76,WB 1.07' WATER
612-2257,3750173.73,635618.23,-0.99,WB 1.30' WATER
612-2256,3750196.41,635627.07,-1.31,WB 1.62' WATER
612-2255,3750218.82,635638.39,-1.31,WB 1.62' WATER
612-2254,3750240.26,635650.97,-1.44,WB 1.75' WATER
612-2253,3750262.92,635662.90,-1.51,WB 1.82' WATER
612-2252,3750282.80,635675.54,-1.46,WB 1.77' WATER
612-2251,3750305.23,635688.02,-1.58,WB 1.89' WATER
612-2250,3750327.57,635699.80,-1.56,WB 1.87' WATER
612-2249,3750348.84,635709.87,-1.53,WB 1.84' WATER
612-2248,3750370.26,635722.67,-1.66,WB 1.97' WATER
612-2247,3750394.87,635738.47,-1.57,WB 1.88' WATER
612-2246,3750416.43,635748.09,-1.65,WB 1.96' WATER
612-2245,3750458.19,635768.21,-1.60,WB 1.91' WATER
612-2244,3750482.46,635778.86,-1.41,WB 1.72' WATER
612-2243,3750504.99,635789.35,-1.20,WB 1.51' WATER
612-2242,3750531.41,635801.48,-1.03,WB 1.34' WATER
612-2241,3750549.80,635809.85,-1.25,WB 1.56' WATER

612-2240,3750571.88,635823.76,-1.08,WB 1.39' WATER
612-2239,3750594.24,635835.86,-1.29,WB 1.60' WATER
612-2238,3750617.32,635848.32,-1.35,WB 1.66' WATER
612-2237,3750638.35,635859.44,-1.29,WB 1.60' WATER
612-2236,3750659.21,635867.94,-1.33,WB 1.64' WATER
612-2235,3750682.14,635880.17,-1.14,WB 1.45' WATER
612-2234,3750704.14,635894.28,-1.19,WB 1.50' WATER
612-2233,3750723.95,635906.73,-1.14,WB 1.45' WATER
612-2232,3750746.88,635919.94,-1.12,WB 1.43' WATER
612-2231,3750769.65,635928.88,-1.05,WB 1.36' WATER
612-2230,3750794.37,635942.67,-0.90,WB 1.21' WATER
612-2229,3750815.51,635953.54,-0.84,WB 1.15' WATER
612-2228,3750838.47,635964.12,-0.81,WB 1.12' WATER
612-2227,3750858.97,635975.29,-0.67,WB 0.98' WATER
612-2226,3750882.40,635986.18,-0.75,WB 1.06' WATER
612-2225,3750905.74,635997.66,-0.64,WB 0.95' WATER
612-2223,3750927.89,636011.79,-0.18,WB 0.49' WATER
612-2222,3750948.79,636022.48,-0.56,WB 0.87' WATER
612-2221,3750970.82,636034.58,-0.74,WB 1.05' WATER
612-2220,3750992.63,636045.92,-0.69,WB 1.00' WATER
612-2219,3751014.96,636057.44,-0.56,WB 0.87' WATER
612-2218,3751036.61,636070.00,-0.59,WB 0.90' WATER
612-2217,3751059.54,636082.35,-0.54,WB 0.85' WATER
612-2216,3751080.52,636093.50,-0.51,WB 0.82' WATER
612-2215,3751102.19,636104.77,-0.96,WB 1.27' WATER
612-2214,3751127.83,636113.26,-0.66,WB 0.97' WATER
612-2213,3751148.33,636124.56,-1.12,WB 1.43' WATER
612-2212,3751170.01,636140.30,-1.10,WB 1.41' WATER
612-2211,3751190.83,636153.82,-1.13,WB 1.44' WATER
612-2210,3751211.86,636163.46,-0.79,WB 1.10' WATER
612-2209,3751234.48,636174.42,-0.87,WB 1.18' WATER
612-2208,3751258.03,636184.54,-0.55,WB 0.86' WATER
612-2207,3751279.19,636199.73,0.09,WB 0.22' WATER
612-2206,3751302.29,636208.90,-0.54,WB 0.85' WATER
612-2205,3751321.72,636222.80,-0.35,WB 0.66' WATER
612-2204,3751344.99,636234.50,-0.48,WB 0.79' WATER
612-2203,3751367.35,636247.16,-0.57,WB 0.88' WATER
612-2202,3751389.80,636258.51,-0.62,WB 0.93' WATER
612-2201,3751412.64,636269.72,-0.93,WB 1.24' WATER
612-2200,3751433.55,636281.15,-0.62,WB 0.93' WATER
612-2199,3751456.96,636292.14,-1.02,WB 1.33' WATER
612-2198,3751479.00,636301.70,-1.09,WB 1.40' WATER
612-2197,3751502.48,636314.06,-0.53,WB 0.84' WATER
612-2196,3751522.89,636325.56,-1.16,WB 1.47' WATER
612-2195,3751543.01,636336.87,-0.82,WB 1.13' WATER
612-2194,3751566.97,636347.89,-1.05,WB 1.36' WATER
612-2193,3751591.22,636361.82,-1.10,WB 1.41' WATER
;
:TRANSECT 41 TOP WATER SHOTS
612-2279,3749840.02,635445.95,0.36,TOP WATER
612-2264,3750115.67,635587.82,0.30,TOP WATER
612-2259,3750168.91,635614.46,0.29,TOP WATER
612-2224,3750928.40,636012.25,0.28,TOP WATER
;
;
;TRANSECT 42
;0.24' AVG TOP WATER
612-2063,3750080.46,635002.56,0.98,MB
612-2064,3750102.11,635014.62,0.72,MB
612-2065,3750110.65,635018.86,1.02,TBK
612-2067,3750112.13,635020.14,-0.23,WB 0.47' WATER
612-2068,3750124.92,635026.70,-0.59,WB 0.83' WATER
612-2069,3750147.57,635036.66,-2.18,WB 2.42' WATER

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612-2070,3750169.43,635048.15,-1.37,WB 1.61' WATER
612-2071,3750172.08,635049.64,-0.97,WB 1.21' WATER
612-2073,3750172.90,635050.15,0.58,TBK
612-2074,3750189.83,635061.97,0.53,MB
612-2075,3750211.67,635071.55,0.47,MB
612-2076,3750227.08,635077.51,0.49,TBK
612-2078,3750228.30,635078.35,-0.20,WB 0.44' WATER
612-2079,3750236.81,635083.16,-0.49,WB 0.73' WATER
612-2080,3750256.86,635097.02,-0.56,WB 0.80' WATER
612-2081,3750279.88,635105.70,-0.65,WB 0.89' WATER
612-2082,3750300.85,635119.41,-0.15,WB 0.39' WATER
612-2083,3750301.53,635119.69,0.80,TBK
612-2085,3750324.34,635129.55,0.54,MB
612-2086,3750327.50,635129.72,0.92,TBK
612-2088,3750328.86,635129.66,-0.77,WB 1.01' WATER
612-2089,3750346.52,635140.86,-0.50,WB 0.74' WATER
612-2090,3750353.12,635144.76,-0.08,WB 0.32' WATER
612-2092,3750353.57,635145.81,0.52,TBK
612-2093,3750367.71,635152.73,0.68,MB
612-2094,3750391.13,635165.32,0.53,MB
612-2095,3750400.38,635171.01,0.43,MB
612-2097,3750401.96,635171.74,-0.30,WB 0.54' WATER
612-2098,3750409.69,635181.40,-1.03,WB 1.27' WATER
612-2099,3750435.92,635185.25,-0.96,WB 1.20' WATER
612-2100,3750460.58,635198.68,-1.04,WB 1.28' WATER
612-2101,3750480.01,635207.84,-1.08,WB 1.32' WATER
612-2102,3750502.18,635223.15,-1.03,WB 1.27' WATER
612-2103,3750522.22,635236.34,-0.98,WB 1.22' WATER
612-2104,3750545.49,635244.88,-0.85,WB 1.09' WATER
612-2105,3750568.65,635255.42,-0.35,WB 0.59' WATER
612-2106,3750572.11,635256.92,0.15,WB 0.09' WATER
612-2107,3750572.76,635257.12,1.02,TBK
612-2109,3750591.91,635266.19,0.30,MB
612-2110,3750597.29,635271.76,1.01,TBK
612-2112,3750598.67,635271.75,-0.32,WB 0.56' WATER
612-2113,3750610.12,635281.92,-0.72,WB 0.96' WATER
612-2114,3750632.88,635293.69,-0.79,WB 1.03' WATER
612-2115,3750655.54,635305.23,-0.71,WB 0.95' WATER
612-2116,3750678.71,635316.19,-0.65,WB 0.89' WATER
612-2117,3750702.17,635324.38,-0.57,WB 0.81' WATER
612-2118,3750724.96,635334.40,-0.03,WB 0.27' WATER
612-2119,3750750.80,635346.07,-0.07,WB 0.31' WATER
612-2120,3750769.39,635359.09,-0.47,WB 0.71' WATER
612-2121,3750788.82,635376.15,0.01,WB 0.23' WATER
612-2122,3750812.05,635384.09,-0.66,WB 0.90' WATER
612-2123,3750826.31,635391.09,-0.10,WB 0.34' WATER
612-2125,3750827.34,635391.09,0.55,TBK
612-2126,3750834.12,635393.24,0.70,MB
612-2127,3750856.72,635403.08,0.77,MB
612-2128,3750878.44,635413.04,0.23,MB
612-2129,3750901.88,635427.07,0.53,MB
612-2130,3750925.04,635439.98,0.84,MB
612-2131,3750931.51,635445.04,0.98,TBK
612-2133,3750933.63,635444.44,-0.73,WB 0.97' WATER
612-2134,3750946.74,635449.34,-0.98,WB 1.22' WATER
612-2135,3750960.72,635459.80,-0.04,WB 0.28' WATER
612-2136,3750967.89,635460.54,0.67,TBK
612-2138,3750989.18,635477.02,0.37,MB
612-2139,3751001.20,635483.81,0.47,TBK
612-2141,3751002.26,635485.00,-0.18,WB 0.42' WATER
612-2142,3751012.28,635486.88,-0.84,WB 1.08' WATER
612-2143,3751034.42,635497.49,-0.60,WB 0.84' WATER
612-2144,3751055.85,635511.97,-1.24,WB 1.48' WATER
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612-2145,3751079.36,635522.09,-1.25,WB 1.49' WATER
612-2146,3751103.33,635532.81,-1.23,WB 1.47' WATER
612-2147,3751123.88,635542.47,-1.20,WB 1.44' WATER
612-2148,3751144.86,635554.74,-1.05,WB 1.29' WATER
612-2149,3751168.00,635567.20,-1.06,WB 1.30' WATER
612-2150,3751189.22,635578.46,-0.60,WB 0.84' WATER
612-2151,3751212.24,635589.77,-0.48,WB 0.72' WATER
612-2152,3751234.50,635601.65,-0.85,WB 1.09' WATER
612-2153,3751256.20,635612.66,-0.24,WB 0.48' WATER
612-2154,3751260.52,635617.31,0.77,TBK
612-2156,3751278.71,635625.24,0.36,MB
612-2157,3751300.06,635635.01,0.48,MB
612-2159,3751301.83,635635.77,-0.22,WB 0.46' WATER
612-2160,3751320.39,635649.86,-0.56,WB 0.80' WATER
612-2161,3751346.30,635659.69,-0.03,WB 0.27' WATER
612-2162,3751365.90,635672.07,-0.60,WB 0.84' WATER
612-2163,3751388.96,635684.51,-0.67,WB 0.91' WATER
612-2164,3751410.78,635695.74,-0.73,WB 0.97' WATER
612-2165,3751432.49,635707.43,-0.38,WB 0.62' WATER
612-2166,3751455.75,635718.89,-1.09,WB 1.33' WATER
612-2167,3751478.17,635730.39,-0.94,WB 1.18' WATER
612-2168,3751499.31,635741.01,-0.76,WB 1.00' WATER
612-2169,3751512.84,635747.42,0.06,WB 0.18' WATER
612-2171,3751514.43,635748.28,0.35,TBK
612-2172,3751521.31,635751.84,0.61,MB
612-2173,3751545.16,635762.16,0.65,MB
612-2174,3751566.21,635774.62,0.61,MB
612-2175,3751589.87,635788.95,0.55,MB
612-2176,3751612.65,635799.68,0.34,MB
612-2177,3751634.92,635810.45,0.68,MB
612-2178,3751655.26,635819.99,0.84,MB
612-2179,3751677.69,635831.22,1.17,MB
612-2184,3751700.98,635842.57,0.80,MB
612-2181,3751721.84,635855.55,0.45,MB
612-2182,3751745.90,635866.67,0.41,MB
612-2183,3751766.20,635877.76,0.54,MB
612-2184,3751786.94,635892.91,0.51,MB
612-2185,3751812.03,635900.23,0.39,TBK
612-2187,3751814.07,635902.05,-0.02,WB 0.26' WATER
612-2188,3751832.68,635914.86,-0.38,WB 0.62' WATER
612-2189,3751855.83,635926.11,-0.58,WB 0.82' WATER
612-2190,3751877.24,635936.92,-0.64,WB 0.88' WATER
612-2191,3751899.75,635947.00,-0.82,WB 1.06' WATER
612-2192,3751921.76,635959.53,-0.76,WB 1.00' WATER
;
;TRANSECT 42 TOP WATER SHOTS
612-2186,3751813.12,635902.07,0.25,TOP WATER
612-2170,3751513.65,635747.07,0.24,TOP WATER
612-2158,3751300.58,635635.35,0.25,TOP WATER
612-2155,3751260.10,635616.91,0.24,TOP WATER
612-2140,3751001.51,635484.29,0.29,TOP WATER
612-2137,3750967.72,635460.22,0.31,TOP WATER
612-2132,3750932.24,635443.91,0.24,TOP WATER
612-2124,3750825.38,635390.34,0.25,TOP WATER
612-2111,3750597.23,635271.09,0.30,TOP WATER
612-2108,3750570.42,635257.40,0.27,TOP WATER
612-2096,3750401.04,635171.39,0.20,TOP WATER
612-2091,3750353.52,635144.69,0.21,TOP WATER
612-2087,3750327.95,635129.49,0.23,TOP WATER
612-2084,3750301.32,635119.53,0.22,TOP WATER
612-2077,3750227.60,635077.93,0.24,TOP WATER
612-2072,3750172.04,635050.29,0.19,TOP WATER
612-2066,3750110.92,635019.11,0.23,TOP WATER
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;TRANSECT 43
;0.18' AVG WATER
612-1951,3750422.86,634621.12,0.72,MB
612-1952,3750431.69,634625.07,0.26,TBK
612-1954,3750433.56,634624.26,-0.07,WB 0.25' WATER
612-1955,3750442.77,634630.85,-0.03,WB 0.21' WATER
612-1956,3750450.19,634634.56,0.89,TBK
612-1958,3750463.36,634643.00,-1.40,MB
612-1959,3750487.93,634655.45,-1.30,MB
612-1960,3750494.15,634657.73,-1.50,TBK
612-1962,3750495.47,634659.17,-2.05,WB 2.23' WATER
612-1963,3750487.79,634653.71,-0.09,WB 0.27' WATER
612-1964,3750511.16,634666.17,0.07,WB 0.11' WATER
612-1965,3750520.09,634671.60,0.11,WB 0.07' WATER
612-1967,3750521.55,634672.73,-0.02,TBK
612-1968,3750554.04,634690.16,0.47,MB
612-1969,3750570.02,634698.32,0.69,TBK
612-1971,3750571.03,634698.53,-0.08,WB 0.26' WATER
612-1972,3750576.90,634701.60,-0.84,WB 1.02' WATER
612-1973,3750597.51,634714.04,-0.64,WB 0.82' WATER
612-1974,3750620.94,634727.52,0.00,WB 0.18' WATER
612-1975,3750641.79,634738.11,-0.75,WB 0.93' WATER
612-1976,3750667.06,634749.94,-0.69,WB 0.87' WATER
612-1977,3750690.17,634762.04,-0.77,WB 0.95' WATER
612-1978,3750710.49,634773.67,-0.82,WB 1.00' WATER
612-1979,3750730.65,634784.38,-0.74,WB 0.92' WATER
612-1980,3750753.50,634798.13,-0.73,WB 0.91' WATER
612-1981,3750774.50,634809.32,-0.76,WB 0.94' WATER
612-1982,3750798.15,634820.41,-0.80,WB 0.98' WATER
612-1983,3750818.94,634830.03,-0.83,WB 1.01' WATER
612-1984,3750842.15,634841.40,-0.77,WB 0.95' WATER
612-1985,3750864.23,634852.22,-0.69,WB 0.87' WATER
612-1986,3750887.09,634863.63,-0.67,WB 0.85' WATER
612-1987,3750909.39,634874.58,-0.64,WB 0.82' WATER
612-1988,3750930.54,634888.33,-0.66,WB 0.84' WATER
612-1989,3750953.21,634899.38,-0.64,WB 0.82' WATER
612-1990,3750975.11,634912.86,-0.67,WB 0.85' WATER
612-1991,3750997.33,634923.26,-0.62,WB 0.80' WATER
612-1992,3751019.01,634935.46,-0.56,WB 0.74' WATER
612-1993,3751040.19,634947.41,-0.42,WB 0.60' WATER
612-1994,3751053.14,634955.49,-0.17,WB 0.35' WATER
612-1996,3751053.79,634955.75,0.88,TBK
612-1997,3751062.12,634959.08,0.77,MB
612-1998,3751070.67,634963.03,0.53,MB
612-2000,3751071.33,634963.14,-0.19,WB 0.37' WATER
612-2001,3751085.02,634971.01,-0.71,WB 0.89' WATER
612-2002,3751107.41,634982.90,-0.80,WB 0.98' WATER
612-2003,3751128.09,634994.87,-0.57,WB 0.75' WATER
612-2004,3751151.23,635008.97,-0.67,WB 0.85' WATER
612-2005,3751173.20,635018.61,-0.83,WB 1.01' WATER
612-2006,3751195.98,635029.05,-0.71,WB 0.89' WATER
612-2007,3751217.06,635041.53,-0.28,WB 0.46' WATER
612-2008,3751235.29,635051.10,0.13,WB 0.05' WATER
612-2009,3751236.89,635051.36,0.38,TBK
612-2011,3751244.72,635055.82,0.28,TBK
612-2013,3751246.05,635055.26,0.23,MB
612-2014,3751261.28,635063.75,-0.66,WB 0.84' WATER
612-2015,3751283.95,635078.04,-0.88,WB 1.06' WATER
612-2016,3751307.02,635087.87,-0.88,WB 1.06' WATER
612-2017,3751330.51,635099.56,-0.74,WB 0.92' WATER
612-2018,3751349.57,635110.44,-0.44,WB 0.62' WATER
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612-2019,3751372.57,635124.03,-0.57,WB 0.75' WATER
612-2020,3751393.45,635134.62,-0.60,WB 0.78' WATER
612-2021,3751416.68,635148.04,-0.66,WB 0.84' WATER
612-2022,3751439.04,635158.92,-0.71,WB 0.89' WATER
612-2023,3751460.30,635170.53,-0.64,WB 0.82' WATER
612-2024,3751482.29,635182.59,-0.69,WB 0.87' WATER
612-2025,3751494.28,635188.21,-0.24,WB 0.42' WATER
612-2027,3751495.92,635190.32,0.33,TBK
612-2028,3751503.39,635194.75,0.97,TBK
612-2030,3751504.32,635196.20,-0.43,WB 0.61' WATER
612-2031,3751531.36,635202.23,-0.96,WB 1.14' WATER
612-2032,3751551.68,635215.23,-1.09,WB 1.27' WATER
612-2033,3751569.88,635231.63,-0.96,WB 1.14' WATER
612-2034,3751593.13,635241.46,-0.87,WB 1.05' WATER
612-2035,3751616.73,635253.95,-1.08,WB 1.26' WATER
612-2036,3751637.94,635265.42,-0.98,WB 1.16' WATER
612-2037,3751661.33,635278.19,-0.97,WB 1.15' WATER
612-2038,3751681.71,635288.06,-0.90,WB 1.08' WATER
612-2039,3751703.19,635300.15,-0.77,WB 0.95' WATER
612-2040,3751723.99,635310.68,-0.19,WB 0.37' WATER
612-2041,3751747.57,635322.62,-0.89,WB 1.07' WATER
612-2042,3751771.56,635333.46,-0.94,WB 1.12' WATER
612-2043,3751791.26,635346.66,-0.85,WB 1.03' WATER
612-2044,3751813.95,635358.24,-0.84,WB 1.02' WATER
612-2045,3751835.21,635369.20,-0.94,WB 1.12' WATER
612-2046,3751858.55,635382.29,-0.91,WB 1.09' WATER
612-2047,3751880.59,635394.37,-1.02,WB 1.20' WATER
612-2048,3751902.62,635406.11,-1.04,WB 1.22' WATER
612-2049,3751913.53,635417.17,-0.94,WB 1.12' WATER
612-2050,3751946.12,635429.06,-1.10,WB 1.28' WATER
612-2051,3751968.80,635441.15,-1.09,WB 1.27' WATER
612-2052,3751990.89,635451.37,-1.00,WB 1.18' WATER
612-2053,3752013.11,635462.50,-1.16,WB 1.34' WATER
612-2054,3752034.39,635476.39,-1.16,WB 1.34' WATER
612-2055,3752054.69,635488.96,-1.20,WB 1.38' WATER
612-2056,3752078.31,635501.47,-1.05,WB 1.23' WATER
612-2057,3752101.14,635510.05,-1.12,WB 1.30' WATER
612-2058,3752123.89,635517.40,-0.95,WB 1.13' WATER
;
;TRANSECT 43 TOP WATER SHOTS
612-2029,3751503.55,635195.06,0.16,TOP WATER
612-2026,3751492.91,635188.50,0.20,TOP WATER
612-2012,3751245.28,635055.73,0.20,TOP WATER
612-2010,3751236.43,635050.06,0.22,TOP WATER
612-1999,3751071.00,634963.03,0.04,TOP WATER
612-1995,3751052.57,634955.05,0.34,TOP WATER
612-1970,3750570.60,634698.45,0.13,TOP WATER
612-1966,3750520.76,634672.06,0.20,TOP WATER
612-1957,3750447.79,634634.06,0.20,TOP WATER
612-1953,3750432.81,634624.83,0.09,TOP WATER;
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;
;TRANSECT 44
;-0.01' AVG WATER
612-1868,3750742.32,634224.83,0.08,MB
612-1869,3750764.93,634239.40,0.79,MB
612-1870,3750787.39,634248.84,0.71,MB
612-1871,3750809.05,634261.24,-0.19,MB
612-1872,3750831.01,634273.41,0.58,MB
612-1873,3750852.66,634286.95,0.40,MB
612-1874,3750854.42,634283.83,0.78,TBK
612-1875,3750855.19,634283.49,-0.55,WB 0.54' WATER
612-1877,3750875.35,634295.23,-0.81,WB 0.80' WATER
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612-1878,3750896.96,634305.68,-0.47,WB 0.46' WATER
612-1879,3750921.50,634317.30,-0.43,WB 0.42' WATER
612-1880,3750941.45,634330.55,-0.72,WB 0.71' WATER
612-1881,3750964.35,634341.23,-0.92,WB 0.91' WATER
612-1882,3750985.95,634353.10,-0.92,WB 0.91' WATER
612-1883,3751009.84,634365.91,-1.07,WB 1.06' WATER
612-1884,3751029.63,634377.63,-1.21,WB 1.20' WATER
612-1885,3751052.40,634389.00,-1.12,WB 1.11' WATER
612-1886,3751075.41,634399.79,-1.19,WB 1.18' WATER
612-1887,3751097.70,634411.00,-1.26,WB 1.25' WATER
612-1888,3751118.19,634421.95,-1.38,WB 1.37' WATER
612-1889,3751141.45,634434.53,-1.04,WB 1.03' WATER
612-1890,3751163.47,634445.81,-0.88,WB 0.87' WATER
612-1891,3751186.63,634457.38,-0.31,WB 0.30' WATER
612-1892,3751192.62,634461.15,0.24,TBK
612-1894,3751207.35,634467.88,0.45,MB
612-1895,3751209.40,634469.58,0.37,MB
612-1896,3751220.99,634474.40,0.10,TBK
612-1898,3751222.25,634475.58,-0.36,WB 0.35' WATER
612-1899,3751230.13,634483.60,-0.68,WB 0.67' WATER
612-1900,3751251.12,634495.43,-0.44,WB 0.43' WATER
612-1901,3751274.15,634503.35,-1.10,WB 1.09' WATER
612-1902,3751295.81,634516.24,-0.59,WB 0.58' WATER
612-1903,3751302.14,634519.70,-0.33,WB 0.32' WATER
612-1905,3751306.27,634523.17,0.45,TBK
612-1906,3751317.85,634526.51,0.27,MB
612-1907,3751340.67,634537.69,0.38,MB
612-1908,3751361.46,634552.20,0.52,TBK
612-1910,3751365.69,634556.04,-0.16,WB 0.15' WATER
612-1911,3751383.19,634564.04,-0.53,WB 0.52' WATER
612-1912,3751407.80,634577.11,-0.43,WB 0.42' WATER
612-1913,3751429.50,634586.39,-0.43,WB 0.42' WATER
612-1914,3751449.64,634600.60,-0.59,WB 0.58' WATER
612-1915,3751470.98,634612.84,-0.58,WB 0.57' WATER
612-1916,3751492.92,634624.09,-0.60,WB 0.59' WATER
612-1917,3751515.23,634634.83,-0.34,WB 0.33' WATER
612-1918,3751536.84,634646.98,-1.09,WB 1.08' WATER
612-1919,3751558.91,634658.92,-1.12,WB 1.11' WATER
612-1920,3751581.43,634672.58,-1.04,WB 1.03' WATER
612-1921,3751603.81,634682.60,-0.96,WB 0.95' WATER
612-1922,3751628.05,634692.59,-1.06,WB 1.05' WATER
612-1923,3751650.75,634703.10,-1.13,WB 1.12' WATER
612-1924,3751672.77,634713.58,-1.24,WB 1.23' WATER
612-1925,3751693.53,634725.21,-1.10,WB 1.09' WATER
612-1926,3751716.04,634737.95,-1.14,WB 1.13' WATER
612-1927,3751737.72,634750.25,-1.18,WB 1.17' WATER
612-1928,3751760.03,634763.27,-1.13,WB 1.12' WATER
612-1929,3751782.27,634774.09,-1.27,WB 1.26' WATER
612-1930,3751805.52,634786.57,-1.19,WB 1.18' WATER
612-1931,3751827.10,634798.86,-1.27,WB 1.26' WATER
612-1932,3751847.36,634809.86,-1.33,WB 1.32' WATER
612-1933,3751870.22,634821.50,-1.32,WB 1.31' WATER
612-1934,3751892.44,634833.46,-1.37,WB 1.36' WATER
612-1935,3751913.58,634843.51,-1.33,WB 1.32' WATER
612-1936,3751937.26,634854.74,-1.31,WB 1.30' WATER
612-1937,3751955.99,634863.24,-1.27,WB 1.26' WATER
612-1938,3751981.53,634876.72,-1.30,WB 1.29' WATER
612-1939,3752005.28,634888.95,-1.18,WB 1.17' WATER
612-1940,3752026.33,634899.94,-1.07,WB 1.06' WATER
612-1941,3752048.54,634912.80,-1.05,WB 1.04' WATER
612-1942,3752069.11,634925.36,-0.99,WB 0.98' WATER
612-1943,3752090.41,634938.51,-1.03,WB 1.02' WATER
612-1944,3752112.39,634951.73,-1.02,WB 1.01' WATER
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612-1945,3752135.60,634962.02,-1.07,WB 1.06' WATER
612-1946,3752158.46,634971.55,-1.08,WB 1.07' WATER
612-1947,3752180.59,634984.01,-1.13,WB 1.12' WATER
612-1948,3752201.97,634995.85,-1.11,WB 1.10' WATER
612-1949,3752223.77,635008.02,-1.13,WB 1.12' WATER
;
;TRANSECT 44 TOP WATER SHOTS
612-1950,3752227.87,635015.74,0.06,TOP WATER
612-1909,3751363.71,634556.09,-0.04,TOP WATER
612-1904,3751303.66,634521.30,0.03,TOP WATER
612-1897,3751221.71,634475.27,-0.07,TOP WATER
612-1893,3751193.63,634462.81,0.04,TOP WATER
612-1876,3750854.90,634282.58,-0.08,TOP WATER
;
;
;TRANSECT 45
;-0.05' AVG. TOP WATER
612-1867,3751103.99,633851.88,-0.07,MB
612-1866,3751123.98,633864.27,0.31,MB
612-1865,3751147.95,633876.02,0.72,MB
612-1864,3751170.25,633887.09,0.53,MB
612-1863,3751177.75,633888.70,0.37,TBK
612-1861,3751179.55,633890.24,-0.25,WB 0.20' WATER
612-1860,3751192.03,633897.13,-0.96,WB 0.91' WATER
612-1859,3751214.90,633909.16,-0.99,WB 0.94' WATER
612-1858,3751238.38,633918.40,-1.00,WB 0.95' WATER
612-1857,3751259.61,633929.99,-1.01,WB 0.96' WATER
612-1856,3751282.69,633940.68,-1.03,WB 0.98' WATER
612-1855,3751303.33,633955.52,-1.13,WB 1.08' WATER
612-1854,3751323.36,633969.94,-1.37,WB 1.32' WATER
612-1853,3751346.13,633980.19,-0.85,WB 0.80' WATER
612-1852,3751367.03,633990.57,-1.07,WB 1.02' WATER
612-1851,3751390.87,634001.25,-1.13,WB 1.08' WATER
612-1850,3751412.61,634013.77,-1.12,WB 1.07' WATER
612-1849,3751434.98,634025.96,-1.31,WB 1.26' WATER
612-1848,3751457.04,634038.47,-1.21,WB 1.16' WATER
612-1847,3751480.39,634050.14,-1.17,WB 1.12' WATER
612-1846,3751500.76,634061.76,-1.12,WB 1.07' WATER
612-1845,3751522.53,634072.97,-1.21,WB 1.16' WATER
612-1844,3751545.55,634082.67,-1.24,WB 1.19' WATER
612-1843,3751569.55,634095.93,-0.88,WB 0.83' WATER
612-1842,3751589.61,634107.57,-1.10,WB 1.05' WATER
612-1841,3751612.34,634120.58,-0.95,WB 0.90' WATER
612-1840,3751633.44,634131.16,-1.10,WB 1.05' WATER
612-1839,3751654.55,634146.46,-1.09,WB 1.04' WATER
612-1838,3751675.54,634157.50,-1.01,WB 0.96' WATER
612-1837,3751700.71,634166.27,-1.58,WB 1.53' WATER
612-1836,3751724.30,634177.87,-1.32,WB 1.27' WATER
612-1835,3751742.01,634185.32,-1.18,WB 1.13' WATER
612-1834,3751764.94,634203.40,-0.96,WB 0.91' WATER
612-1833,3751790.26,634209.65,-0.93,WB 0.88' WATER
612-1832,3751799.73,634219.76,-0.30,WB 0.25' WATER
612-1830,3751800.70,634219.57,1.06,TBK
612-1829,3751810.17,634225.98,0.46,MB
612-1828,3751830.29,634239.31,0.31,MB
612-1827,3751855.79,634249.90,0.48,MB
612-1826,3751875.37,634262.10,0.43,MB
612-1825,3751900.20,634271.64,0.58,MB
612-1824,3751923.72,634283.58,0.36,MB
612-1823,3751942.75,634297.49,-0.13,MB
612-1822,3751967.68,634305.91,0.28,MB
612-1820,3751985.35,634313.44,0.24,TBK
612-1819,3751987.94,634314.22,-0.37,WB 0.32' WATER
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612-1818,3752011.69,634326.45,-1.02,WB 0.97' WATER
612-1817,3752031.73,634338.79,-1.14,WB 1.09' WATER
612-1816,3752054.79,634351.76,-1.24,WB 1.19' WATER
612-1815,3752076.73,634362.87,-1.17,WB 1.12' WATER
612-1814,3752098.98,634374.64,-1.11,WB 1.06' WATER
612-1813,3752122.04,634387.94,-1.27,WB 1.22' WATER
612-1812,3752144.31,634397.52,-1.13,WB 1.08' WATER
612-1811,3752166.05,634409.11,-1.26,WB 1.21' WATER
612-1810,3752188.16,634420.77,-1.31,WB 1.26' WATER
612-1809,3752208.98,634432.79,-1.44,WB 1.39' WATER
612-1808,3752234.21,634443.85,-1.34,WB 1.29' WATER
612-1807,3752254.29,634454.93,-1.28,WB 1.23' WATER
612-1806,3752277.02,634467.02,-1.35,WB 1.30' WATER
612-1805,3752298.47,634476.54,-1.22,WB 1.17' WATER
612-1804,3752319.75,634490.38,-1.31,WB 1.26' WATER
612-1803,3752341.84,634502.49,-1.30,WB 1.25' WATER
612-1802,3752363.39,634516.72,-1.32,WB 1.27' WATER
612-1801,3752381.81,634523.82,-1.33,WB 1.28' WATER
612-1800,3752405.58,634538.23,-1.35,WB 1.30' WATER
612-1799,3752425.79,634554.73,-1.33,WB 1.28' WATER
612-1798,3752451.43,634564.15,-1.21,WB 1.16' WATER
;
:TRANSECT 45 TOP WATER SHOTS
612-1862,3751179.07,633889.45,-0.03,TOP WATER
612-1831,3751800.36,634220.26,-0.02,TOP WATER
612-1821,3751986.27,634311.66,-0.09,TOP WATER
612-1797,3752433.60,634530.10,-0.07,TOP WATER
;
;
;TRANSECT 46
:1.21' TOP WATER 10-11-2011
1,3741360.27,639253.15,-2.01,3.22' WATER
2,3741385.49,639254.47,-2.01,3.22' WATER
3,3741411.15,639256.02,-1.87,3.08' WATER
4,3741435.78,639251.40,-2.01,3.22' WATER
5,3741459.60,639241.72,-1.87,3.08' WATER
6,3741483.55,639230.99,-1.78,2.99' WATER
7,3741507.19,639219.14,-1.78,2.99' WATER
8,3741531.14,639208.07,-1.87,3.08' WATER
9,3741555.04,639197.33,-2.01,3.22' WATER
10,3741578.94,639185.83,-1.87,3.08' WATER
11,3741603.13,639176.59,-1.68,2.89' WATER
12,3741627.56,639169.49,-1.58,2.79' WATER
13,3741651.81,639162.92,-1.87,3.08' WATER
14,3741676.57,639158.90,-1.87,3.08' WATER
15,3741701.09,639154.40,-1.87,3.08' WATER
16,3741725.85,639151.33,-1.87,3.08' WATER
17,3741750.62,639148.29,-2.01,3.22' WATER
18,3741775.97,639147.74,-2.01,3.22' WATER
19,3741801.80,639152.75,-2.10,3.31' WATER
20,3741827.30,639157.44,-2.10,3.31' WATER
21,3741853.20,639164.20,-2.01,3.22' WATER
22,3741879.15,639171.31,-1.78,2.99' WATER
23,3741905.26,639178.29,-1.68,2.89' WATER
24,3741931.10,639183.87,-1.78,2.99' WATER
25,3741956.73,639188.24,-1.78,2.99' WATER
26,3741981.91,639189.04,-1.68,2.89' WATER
27,3742007.06,639188.15,-1.48,2.69' WATER
28,3742031.67,639183.72,-1.58,2.79' WATER
29,3742055.90,639176.14,-1.48,2.69' WATER
30,3742080.07,639166.36,-1.48,2.69' WATER
31,3742103.65,639155.13,-1.58,2.79' WATER
32,3742128.10,639146.40,-1.78,2.99' WATER
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33,3742152.28,639139.43,-1.87,3.08' WATER
34,3742176.77,639132.92,-1.78,2.99' WATER
35,3742201.31,639129.52,-1.87,3.08' WATER
36,3742226.74,639128.09,-1.87,3.08' WATER
37,3742251.91,639128.08,-2.01,3.22' WATER
38,3742276.76,639128.69,-2.20,3.41' WATER
39,3742302.29,639129.19,-2.20,3.41' WATER
40,3742327.42,639129.93,-2.30,3.51' WATER
41,3742352.43,639129.87,-2.30,3.51' WATER
42,3742377.34,639128.84,-2.40,3.61' WATER
43,3742402.88,639128.49,-2.30,3.51' WATER
44,3742427.90,639127.11,-2.30,3.51' WATER
45,3742452.50,639123.42,-2.30,3.51' WATER
46,3742476.82,639117.48,-2.20,3.41' WATER
47,3742501.69,639111.95,-2.30,3.51' WATER
48,3742526.14,639106.15,-2.20,3.41' WATER
49,3742550.45,639099.58,-2.30,3.51' WATER
50,3742574.93,639093.24,-2.40,3.61' WATER
51,3742599.42,639087.52,-2.50,3.71' WATER
52,3742623.68,639081.93,-2.69,3.90' WATER
53,3742648.26,639077.56,-2.79,4.00' WATER
54,3742673.29,639073.23,-2.89,4.10' WATER
55,3742698.11,639071.06,-2.99,4.20' WATER
56,3742723.60,639072.65,-3.09,4.30' WATER
57,3742748.61,639074.30,-2.99,4.20' WATER
58,3742774.28,639077.16,-2.89,4.10' WATER
59,3742799.56,639078.99,-2.89,4.10' WATER
60,3742824.94,639080.40,-2.79,4.00' WATER
61,3742850.24,639080.79,-2.69,3.90' WATER
62,3742875.39,639079.29,-2.79,4.00' WATER
63,3742899.80,639076.56,-2.69,3.90' WATER
64,3742924.54,639072.70,-2.79,4.00' WATER
65,3742949.08,639067.21,-2.89,4.10' WATER
66,3742973.56,639060.74,-2.89,4.10' WATER
67,3742997.82,639052.70,-2.99,4.20' WATER
68,3743021.95,639044.11,-3.19,4.40' WATER
69,3743046.61,639037.27,-3.19,4.40' WATER
70,3743071.25,639031.62,-3.28,4.49' WATER
71,3743095.29,639025.78,-3.38,4.59' WATER
72,3743119.90,639020.94,-3.38,4.59' WATER
73,3743144.81,639018.44,-3.48,4.69' WATER
74,3743169.94,639018.70,-3.48,4.69' WATER
75,3743195.33,639019.24,-3.58,4.79' WATER
76,3743220.64,639019.77,-3.58,4.79' WATER
77,3743245.87,639020.43,-3.58,4.79' WATER
78,3743271.08,639021.66,-3.48,4.69' WATER
79,3743296.31,639021.47,-3.38,4.59' WATER
80,3743321.53,639020.35,-3.38,4.59' WATER
81,3743346.13,639019.14,-3.38,4.59' WATER
82,3743371.17,639017.68,-3.38,4.59' WATER
83,3743396.15,639015.53,-3.38,4.59' WATER
84,3743421.13,639013.32,-3.38,4.59' WATER
85,3743446.17,639011.68,-3.38,4.59' WATER
86,3743471.20,639010.46,-3.38,4.59' WATER
87,3743496.36,639009.90,-3.38,4.59' WATER
88,3743521.62,639009.40,-3.38,4.59' WATER
89,3743546.43,639008.62,-3.38,4.59' WATER
90,3743571.44,639008.62,-3.48,4.69' WATER
91,3743596.42,639007.36,-3.48,4.69' WATER
92,3743621.57,639006.30,-3.48,4.69' WATER
93,3743646.86,639005.08,-3.58,4.79' WATER
94,3743671.46,639002.90,-3.68,4.89' WATER
95,3743696.32,638999.20,-3.88,5.09' WATER
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96,3743721.13,638993.49,-3.88,5.09' WATER
97,3743745.54,638987.97,-4.10,5.31' WATER
98,3743769.86,638980.38,-4.30,5.51' WATER
99,3743793.70,638971.34,-4.40,5.61' WATER
100,3743817.32,638957.82,-4.60,5.81' WATER
101,3743840.91,638942.46,-4.79,6.00' WATER
102,3743864.20,638926.74,-5.09,6.30' WATER
103,3743887.54,638911.66,-5.29,6.50' WATER
104,3743910.93,638898.37,-5.68,6.89' WATER
105,3743934.80,638887.39,-6.11,7.32' WATER
106,3743959.70,638881.23,-6.30,7.51' WATER
107,3743984.36,638877.76,-6.60,7.81' WATER
108,3744009.78,638878.56,-6.89,8.10' WATER
109,3744035.27,638884.43,-7.29,8.50' WATER
110,3744061.77,638892.78,-7.39,8.60' WATER
111,3744088.14,638903.64,-7.78,8.99' WATER
112,3744114.34,638912.29,-7.88,9.09' WATER
113,3744138.82,638917.70,-8.07,9.28' WATER
114,3744165.70,638923.11,-8.30,9.51' WATER
115,3744191.37,638928.40,-8.40,9.61' WATER
116,3744217.23,638931.59,-8.40,9.61' WATER
117,3744242.76,638936.43,-8.30,9.51' WATER
118,3744267.58,638939.11,-7.88,9.09' WATER
119,3744293.83,638942.06,-7.48,8.69' WATER
120,3744319.07,638941.17,-6.99,8.20' WATER
121,3744344.02,638940.41,-6.40,7.61' WATER
122,3744368.51,638934.16,-6.20,7.41' WATER
123,3744391.45,638915.84,-6.40,7.61' WATER
124,3744413.16,638886.87,-5.98,7.19' WATER
125,3744436.97,638873.82,-5.98,7.19' WATER
126,3744460.68,638864.06,-5.98,7.19' WATER
127,3744485.03,638854.98,-5.98,7.19' WATER
128,3744509.38,638847.97,-5.88,7.09' WATER
129,3744534.12,638843.41,-5.68,6.89' WATER
;
;
;TRANSECT 47
;1.21' TOP WATER 10-11-2011
130,3741269.23,638242.27,-7.68,8.89' WATER
131,3741295.14,638248.93,-7.58,8.79' WATER
132,3741321.55,638258.77,-7.58,8.79' WATER
133,3741348.41,638271.07,-7.58,8.79' WATER
134,3741374.39,638279.22,-7.48,8.69' WATER
135,3741399.80,638282.41,-7.48,8.69' WATER
136,3741424.31,638279.15,-7.58,8.79' WATER
137,3741448.87,638270.20,-7.58,8.79' WATER
138,3741471.45,638251.53,-7.58,8.79' WATER
139,3741493.79,638226.86,-7.58,8.79' WATER
140,3741516.28,638203.37,-7.68,8.89' WATER
141,3741538.59,638179.68,-7.68,8.89' WATER
142,3741561.73,638161.82,-7.68,8.89' WATER
143,3741585.78,638151.71,-7.68,8.89' WATER
144,3741610.15,638145.55,-7.58,8.79' WATER
145,3741635.46,638144.28,-7.58,8.79' WATER
146,3741661.20,638148.27,-7.68,8.89' WATER
147,3741687.18,638156.62,-7.48,8.69' WATER
148,3741740.69,638184.23,-7.58,8.79' WATER
149,3741768.19,638203.03,-7.39,8.60' WATER
150,3741794.88,638217.38,-7.48,8.69' WATER
151,3741820.67,638223.83,-7.39,8.60' WATER
152,3741845.68,638220.65,-7.48,8.69' WATER
153,3741869.88,638212.57,-5.29,6.50' WATER
154,3741893.23,638198.85,-7.39,8.60' WATER
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155,3741915.95,638176.53,-7.39,8.60' WATER
156,3741938.62,638157.03,-7.39,8.60' WATER
157,3741961.81,638139.26,-7.39,8.60' WATER
158,3741985.78,638127.26,-7.39,8.60' WATER
159,3742010.21,638120.80,-7.29,8.50' WATER
160,3742034.97,638118.48,-7.39,8.60' WATER
161,3742060.70,638121.01,-7.29,8.50' WATER
162,3742086.31,638126.70,-7.29,8.50' WATER
163,3742112.64,638134.65,-7.19,8.40' WATER
164,3742138.47,638144.22,-7.19,8.40' WATER
165,3742165.41,638153.56,-7.19,8.40' WATER
166,3742190.74,638156.59,-7.29,8.50' WATER
167,3742215.55,638157.91,-7.09,8.30' WATER
168,3742240.47,638155.01,-7.09,8.30' WATER
169,3742265.08,638146.82,-7.09,8.30' WATER
170,3742288.59,638135.84,-7.09,8.30' WATER
171,3742312.00,638119.47,-7.09,8.30' WATER
172,3742335.47,638105.72,-7.09,8.30' WATER
173,3742359.49,638094.82,-7.09,8.30' WATER
174,3742383.72,638087.96,-7.09,8.30' WATER
175,3742408.52,638085.25,-6.99,8.20' WATER
176,3742434.10,638086.12,-6.99,8.20' WATER
177,3742459.59,638090.73,-6.89,8.10' WATER
178,3742485.92,638098.16,-6.89,8.10' WATER
179,3742511.89,638109.01,-6.80,8.01' WATER
180,3742538.34,638117.64,-6.80,8.01' WATER
181,3742564.46,638125.09,-6.80,8.01' WATER
182,3742589.75,638128.89,-6.70,7.91' WATER
183,3742614.94,638128.52,-6.80,8.01' WATER
184,3742639.79,638123.45,-6.70,7.91' WATER
185,3742663.72,638113.32,-6.60,7.81' WATER
186,3742686.95,638099.45,-6.60,7.81' WATER
187,3742710.70,638082.86,-6.60,7.81' WATER
188,3742734.53,638072.00,-6.60,7.81' WATER
189,3742758.16,638062.40,-6.60,7.81' WATER
190,3742782.70,638054.29,-6.50,7.71' WATER
191,3742807.27,638051.31,-6.50,7.71' WATER
192,3742832.82,638054.65,-6.40,7.61' WATER
193,3742858.83,638058.94,-6.30,7.51' WATER
194,3742884.47,638065.22,-6.30,7.51' WATER
195,3742910.42,638071.07,-6.40,7.61' WATER
196,3742936.10,638075.72,-6.20,7.41' WATER
197,3742961.47,638076.61,-6.20,7.41' WATER
198,3742985.93,638073.09,-6.11,7.32' WATER
199,3743010.27,638065.39,-6.11,7.32' WATER
200,3743034.11,638053.32,-5.98,7.19' WATER
201,3743057.66,638039.36,-5.98,7.19' WATER
202,3743081.42,638025.63,-5.78,6.99' WATER
203,3743105.07,638014.05,-5.88,7.09' WATER
204,3743129.27,638006.86,-5.68,6.89' WATER
205,3743153.93,638003.09,-5.78,6.99' WATER
206,3743179.17,638003.71,-5.58,6.79' WATER
207,3743204.71,638006.12,-5.58,6.79' WATER
208,3743230.71,638010.33,-5.48,6.69' WATER
209,3743256.57,638016.30,-5.38,6.59' WATER
210,3743282.46,638023.11,-5.38,6.59' WATER
211,3743308.08,638028.27,-5.38,6.59' WATER
212,3743333.41,638029.90,-5.29,6.50' WATER
213,3743358.25,638027.83,-5.29,6.50' WATER
214,3743382.97,638021.23,-5.29,6.50' WATER
215,3743406.73,638010.21,-5.19,6.40' WATER
216,3743430.42,637996.28,-5.19,6.40' WATER
217,3743453.77,637984.06,-5.19,6.40' WATER
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218,3743478.24,637976.65,-5.19,6.40' WATER
219,3743503.04,637974.69,-5.19,6.40' WATER
220,3743528.53,637976.72,-5.09,6.30' WATER
221,3743554.32,637982.52,-5.09,6.30' WATER
222,3743581.26,637995.25,-4.99,6.20' WATER
223,3743607.49,638004.77,-4.99,6.20' WATER
224,3743633.24,638009.99,-4.99,6.20' WATER
225,3743658.08,638009.28,-4.99,6.20' WATER
226,3743682.28,637998.39,-4.79,6.00' WATER
227,3743706.02,637986.78,-4.89,6.10' WATER
228,3743729.83,637974.95,-4.89,6.10' WATER
229,3743753.77,637963.89,-4.89,6.10' WATER
230,3743777.30,637953.27,-4.89,6.10' WATER
231,3743800.84,637937.42,-5.09,6.30' WATER
232,3743824.99,637927.85,-5.19,6.40' WATER
233,3743849.63,637922.95,-5.48,6.69' WATER
234,3743874.71,637923.20,-5.78,6.99' WATER
235,3743900.46,637928.68,-5.98,7.19' WATER
236,3743927.17,637943.33,-6.30,7.51' WATER
237,3743954.38,637961.05,-6.40,7.61' WATER
238,3743981.51,637974.92,-6.50,7.71' WATER
239,3744007.78,637983.37,-6.70,7.91' WATER
240,3744032.64,637985.04,-6.89,8.10' WATER
241,3744057.65,637980.35,-6.99,8.20' WATER
242,3744081.56,637970.94,-7.19,8.40' WATER
243,3744106.02,637958.98,-7.48,8.69' WATER
244,3744129.08,637947.90,-7.29,8.50' WATER
245,3744152.59,637931.25,-7.48,8.69' WATER
246,3744175.84,637916.69,-7.58,8.79' WATER
247,3744199.53,637903.47,-7.39,8.60' WATER
248,3744222.68,637885.21,-7.19,8.40' WATER
249,3744245.66,637866.31,-7.19,8.40' WATER
250,3744268.90,637851.56,-6.99,8.20' WATER
251,3744293.35,637846.12,-6.89,8.10' WATER
252,3744318.80,637845.55,-6.99,8.20' WATER
253,3744344.44,637850.68,-6.89,8.10' WATER
254,3744370.61,637859.78,-6.80,8.01' WATER
255,3744397.48,637875.76,-6.70,7.91' WATER
256,3744424.55,637890.58,-6.60,7.81' WATER
257,3744451.76,637909.22,-6.60,7.81' WATER
258,3744478.52,637922.85,-6.50,7.71' WATER
259,3744504.52,637927.97,-6.60,7.81' WATER
260,3744529.34,637927.94,-6.50,7.71' WATER
261,3744554.25,637922.79,-6.50,7.71' WATER
262,3744578.69,637912.76,-6.50,7.71' WATER
263,3744602.09,637904.31,-6.40,7.61' WATER
264,3744625.91,637892.28,-6.40,7.61' WATER
265,3744650.05,637881.37,-6.40,7.61' WATER
266,3744673.97,637871.55,-6.40,7.61' WATER
267,3744697.93,637862.37,-6.40,7.61' WATER
268,3744722.80,637856.34,-6.30,7.51' WATER
269,3744747.77,637855.04,-6.30,7.51' WATER
270,3744773.28,637858.29,-6.30,7.51' WATER
271,3744799.40,637867.13,-5.98,7.19' WATER
272,3744825.94,637880.99,-5.98,7.19' WATER
273,3744852.52,637890.63,-5.88,7.09' WATER
274,3744878.37,637897.90,-5.88,7.09' WATER
275,3744903.51,637898.54,-5.88,7.09' WATER
276,3744928.61,637897.36,-5.68,6.89' WATER
277,3744953.61,637892.57,-5.58,6.79' WATER
278,3744977.83,637887.19,-5.48,6.69' WATER
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;TRANSECT 48
;1.21' TOP WATER 10-11-2011
279,3741018.36,637337.80,-8.80,10.01' WATER
280,3741043.81,637339.09,-8.80,10.01' WATER
281,3741069.26,637339.74,-8.99,10.20' WATER
282,3741093.53,637333.33,-8.89,10.10' WATER
283,3741117.10,637317.89,-8.80,10.01' WATER
284,3741139.39,637296.11,-8.70,9.91' WATER
285,3741162.20,637274.65,-8.70,9.91' WATER
286,3741184.74,637253.15,-8.70,9.91' WATER
287,3741207.77,637234.60,-8.60,9.81' WATER
288,3741232.18,637225.48,-8.70,9.91' WATER
289,3741256.14,637217.04,-8.80,10.01' WATER
290,3741281.12,637214.01,-8.60,9.81' WATER
291,3741306.87,637217.45,-8.70,9.91' WATER
292,3741332.32,637224.10,-8.60,9.81' WATER
293,3741358.78,637234.47,-8.70,9.91' WATER
294,3741384.96,637243.44,-5.98,7.19' WATER
295,3741411.82,637254.86,-8.50,9.71' WATER
296,3741437.66,637264.55,-8.60,9.81' WATER
297,3741463.37,637267.74,-8.50,9.71' WATER
298,3741488.74,637270.38,-8.40,9.61' WATER
299,3741513.46,637267.21,-8.40,9.61' WATER
300,3741538.04,637260.95,-8.40,9.61' WATER
301,3741562.12,637249.89,-8.40,9.61' WATER
302,3741585.77,637239.19,-8.40,9.61' WATER
303,3741609.28,637225.72,-8.40,9.61' WATER
304,3741633.61,637214.61,-8.30,9.51' WATER
305,3741658.19,637210.36,-8.30,9.51' WATER
306,3741682.78,637208.62,-8.40,9.61' WATER
307,3741734.45,637219.18,-8.21,9.42' WATER
308,3741760.32,637225.28,-8.21,9.42' WATER
309,3741786.61,637233.34,-8.30,9.51' WATER
310,3741812.53,637239.84,-8.21,9.42' WATER
311,3741838.06,637241.02,-5.78,6.99' WATER
312,3741863.34,637242.68,-8.21,9.42' WATER
313,3741887.67,637237.79,-8.07,9.28' WATER
314,3741912.22,637229.50,-8.21,9.42' WATER
315,3741935.89,637217.54,-8.07,9.28' WATER
316,3741958.98,637201.57,-7.98,9.19' WATER
317,3741982.13,637184.05,-7.98,9.19' WATER
318,3742005.70,637168.09,-7.98,9.19' WATER
319,3742029.14,637156.91,-7.98,9.19' WATER
320,3742054.38,637153.13,-7.98,9.19' WATER
321,3742079.57,637155.78,-5.68,6.89' WATER
322,3742105.20,637161.91,-7.88,9.09' WATER
323,3742131.26,637168.23,-7.88,9.09' WATER
324,3742157.53,637177.66,-7.88,9.09' WATER
325,3742183.75,637186.48,-7.78,8.99' WATER
326,3742208.96,637189.07,-7.78,8.99' WATER
327,3742234.48,637191.63,-7.78,8.99' WATER
328,3742259.71,637187.60,-7.68,8.89' WATER
329,3742283.98,637181.87,-7.68,8.89' WATER
330,3742307.57,637171.25,-7.68,8.89' WATER
331,3742331.78,637158.01,-7.58,8.79' WATER
332,3742354.62,637141.06,-7.68,8.89' WATER
333,3742378.00,637123.85,-7.58,8.79' WATER
334,3742401.31,637109.12,-7.48,8.69' WATER
335,3742425.40,637101.28,-7.58,8.79' WATER
336,3742450.14,637093.79,-7.58,8.79' WATER
337,3742474.88,637092.70,-7.58,8.79' WATER
338,3742500.40,637094.13,-7.48,8.69' WATER
339,3742525.79,637097.52,-7.39,8.60' WATER
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340,3742551.77,637105.45,-7.29,8.50' WATER
341,3742578.02,637114.00,-7.19,8.40' WATER
342,3742604.45,637122.54,-7.19,8.40' WATER
343,3742630.28,637129.31,-7.19,8.40' WATER
344,3742656.33,637137.24,-7.09,8.30' WATER
345,3742681.40,637136.98,-6.99,8.20' WATER
346,3742705.06,637133.11,-7.09,8.30' WATER
347,3742730.43,637125.16,-7.29,8.50' WATER
348,3742753.34,637107.60,-7.29,8.50' WATER
349,3742776.16,637086.54,-7.39,8.60' WATER
350,3742798.44,637062.46,-7.29,8.50' WATER
351,3742822.27,637050.02,-7.29,8.50' WATER
352,3742847.15,637045.48,-7.39,8.60' WATER
353,3742872.32,637048.53,-7.19,8.40' WATER
354,3742899.16,637061.74,-7.19,8.40' WATER
355,3742926.10,637075.59,-7.19,8.40' WATER
356,3742952.42,637085.51,-7.09,8.30' WATER
357,3742977.59,637088.80,-7.19,8.40' WATER
358,3743002.63,637084.26,-7.09,8.30' WATER
359,3743026.22,637072.18,-7.09,8.30' WATER
360,3743049.44,637053.66,-6.99,8.20' WATER
361,3743071.38,637028.91,-6.99,8.20' WATER
362,3743094.96,637013.54,-6.99,8.20' WATER
363,3743119.34,637005.33,-6.99,8.20' WATER
364,3743144.21,637004.04,-6.99,8.20' WATER
365,3743169.67,637009.17,-6.89,8.10' WATER
366,3743223.22,637033.28,-6.89,8.10' WATER
367,3743249.91,637046.61,-6.89,8.10' WATER
368,3743275.94,637057.14,-6.89,8.10' WATER
369,3743302.16,637063.61,-6.89,8.10' WATER
370,3743327.49,637065.52,-6.89,8.10' WATER
371,3743352.15,637062.22,-6.89,8.10' WATER
372,3743376.39,637053.51,-6.89,8.10' WATER
373,3743399.81,637039.57,-6.89,8.10' WATER
374,3743422.36,637017.99,-6.80,8.01' WATER
375,3743445.54,637000.93,-6.89,8.10' WATER
376,3743469.36,636987.27,-6.80,8.01' WATER
377,3743494.08,636983.36,-4.79,6.00' WATER
378,3743519.49,636984.31,-6.89,8.10' WATER
379,3743545.21,636988.37,-6.80,8.01' WATER
380,3743571.04,636993.80,-6.80,8.01' WATER
381,3743596.58,636998.98,-6.80,8.01' WATER
382,3743622.02,637001.50,-6.89,8.10' WATER
383,3743647.03,636999.05,-6.99,8.20' WATER
384,3743670.86,636980.30,-6.99,8.20' WATER
385,3743694.84,636976.44,-7.09,8.30' WATER
386,3743717.83,636961.05,-7.29,8.50' WATER
387,3743741.65,636946.14,-7.29,8.50' WATER
388,3743765.22,636935.31,-7.29,8.50' WATER
389,3743790.02,636929.19,-7.39,8.60' WATER
390,3743814.81,636928.04,-7.29,8.50' WATER
391,3743866.38,636939.08,-7.29,8.50' WATER
392,3743892.39,636946.90,-7.39,8.60' WATER
393,3743918.58,636952.87,-7.48,8.69' WATER
394,3743943.74,636956.16,-7.48,8.69' WATER
395,3743969.06,636955.55,-5.38,6.59' WATER
396,3743994.17,636953.94,-7.48,8.69' WATER
397,3744018.82,636949.83,-7.68,8.89' WATER
398,3744043.09,636943.48,-7.68,8.89' WATER
399,3744067.36,636937.01,-7.58,8.79' WATER
400,3744092.20,636932.97,-8.07,9.28' WATER
401,3744116.62,636929.02,-7.78,8.99' WATER
402,3744141.72,636926.02,-7.88,9.09' WATER
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403,3744166.74,636925.48,-7.98,9.19' WATER
404,3744191.86,636926.06,-7.78,8.99' WATER
405,3744217.64,636928.82,-7.68,8.89' WATER
406,3744242.85,636931.63,-7.68,8.89' WATER
407,3744268.22,636932.56,-7.58,8.79' WATER
408,3744292.72,636929.33,-7.48,8.69' WATER
409,3744317.77,636925.76,-7.48,8.69' WATER
410,3744342.39,636918.07,-7.19,8.40' WATER
411,3744366.06,636908.80,-7.29,8.50' WATER
412,3744389.83,636896.84,-7.09,8.30' WATER
413,3744413.05,636879.63,-7.09,8.30' WATER
414,3744435.64,636856.60,-7.09,8.30' WATER
415,3744458.85,636840.11,-6.99,8.20' WATER
416,3744482.81,636828.72,-6.99,8.20' WATER
417,3744507.30,636823.64,-6.89,8.10' WATER
418,3744532.71,636825.40,-6.80,8.01' WATER
419,3744558.74,636834.35,-6.80,8.01' WATER
420,3744585.52,636847.87,-6.60,7.81' WATER
421,3744612.49,636860.62,-6.70,7.91' WATER
422,3744638.40,636866.88,-6.70,7.91' WATER
423,3744663.17,636866.20,-6.50,7.71' WATER
424,3744687.66,636858.15,-6.70,7.91' WATER
425,3744710.89,636844.63,-6.50,7.71' WATER
426,3744734.64,636830.93,-6.50,7.71' WATER
427,3744758.04,636817.15,-6.60,7.81' WATER
428,3744783.11,636814.87,-6.40,7.61' WATER
429,3744808.82,636819.57,-6.60,7.81' WATER
430,3744835.22,636831.18,-6.30,7.51' WATER
431,3744862.23,636845.05,-6.40,7.61' WATER
432,3744888.73,636855.72,-6.30,7.51' WATER
433,3744914.28,636862.08,-6.20,7.41' WATER
434,3744939.61,636862.28,-6.30,7.51' WATER
435,3744963.92,636854.94,-6.20,7.41' WATER
436,3744987.64,636840.35,-6.20,7.41' WATER
437,3745009.85,636816.98,-6.20,7.41' WATER
438,3745033.71,636803.46,-6.30,7.51' WATER
439,3745057.88,636797.88,-4.30,5.51' WATER
440,3745083.28,636799.44,-6.11,7.32' WATER
441,3745109.36,636807.04,-6.40,7.61' WATER
442,3745135.91,636818.74,-6.11,7.32' WATER
443,3745162.67,636831.19,-6.30,7.51' WATER
444,3745187.65,636836.26,-6.20,7.41' WATER
445,3745213.99,636841.28,-6.40,7.61' WATER
446,3745239.46,636841.19,-6.11,7.32' WATER
447,3745263.71,636835.59,-6.20,7.41' WATER
448,3745287.42,636822.91,-6.20,7.41' WATER
449,3745310.06,636802.77,-5.98,7.19' WATER
450,3745332.61,636777.38,-5.98,7.19' WATER
451,3745354.72,636753.93,-6.11,7.32' WATER
452,3745377.27,636729.53,-6.11,7.32' WATER
453,3745399.79,636720.49,-6.11,7.32' WATER
454,3745424.59,636713.21,-6.11,7.32' WATER
455,3745449.10,636713.10,-5.98,7.19' WATER
456,3745477.44,636723.42,-5.88,7.09' WATER
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;TRANSECT 49
;1.21' TOP WATER 10-11-2011
457,3740903.50,636278.00,-9.29,10.50' WATER
458,3740928.60,636275.42,-9.19,10.40' WATER
459,3740953.28,636274.95,-9.29,10.50' WATER
460,3740979.28,636281.37,-9.29,10.50' WATER
461,3741006.20,636295.27,-9.19,10.40' WATER
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462,3741032.38,636304.71,-9.19,10.40' WATER
463,3741058.38,636310.30,-9.19,10.40' WATER
464,3741083.20,636310.98,-9.19,10.40' WATER
465,3741107.76,636305.75,-9.09,10.30' WATER
466,3741131.77,636296.00,-9.09,10.30' WATER
467,3741155.65,636283.79,-8.99,10.20' WATER
468,3741179.59,636272.15,-9.09,10.30' WATER
469,3741203.79,636263.26,-8.99,10.20' WATER
470,3741228.06,636257.18,-8.99,10.20' WATER
471,3741252.89,636255.36,-9.09,10.30' WATER
472,3741278.50,636259.13,-8.99,10.20' WATER
473,3741305.10,636268.22,-6.40,7.61' WATER
474,3741331.69,636282.39,-8.89,10.10' WATER
475,3741358.15,636290.96,-8.89,10.10' WATER
476,3741383.76,636296.28,-8.89,10.10' WATER
477,3741409.56,636297.19,-8.89,10.10' WATER
478,3741433.95,636295.64,-8.80,10.01' WATER
479,3741458.22,636288.07,-8.80,10.01' WATER
480,3741482.12,636277.23,-8.80,10.01' WATER
481,3741505.70,636264.16,-8.80,10.01' WATER
482,3741529.20,636250.28,-8.80,10.01' WATER
483,3741552.98,636238.96,-8.80,10.01' WATER
484,3741577.15,636228.29,-8.80,10.01' WATER
485,3741601.65,636221.67,-8.80,10.01' WATER
486,3741626.57,636219.89,-8.80,10.01' WATER
487,3741652.22,636223.56,-8.80,10.01' WATER
488,3741678.44,636233.95,-8.70,9.91' WATER
489,3741705.85,636253.28,-8.70,9.91' WATER
490,3741732.71,636266.42,-8.70,9.91' WATER
491,3741758.24,636272.29,-8.70,9.91' WATER
492,3741783.64,636271.62,-8.80,10.01' WATER
493,3741807.98,636267.02,-8.70,9.91' WATER
494,3741832.21,636257.84,-8.70,9.91' WATER
495,3741855.92,636244.23,-8.60,9.81' WATER
496,3741879.36,636229.60,-8.60,9.81' WATER
497,3741902.87,636215.57,-8.60,9.81' WATER
498,3741926.44,636203.40,-8.70,9.91' WATER
499,3741950.10,636190.50,-8.60,9.81' WATER
500,3741974.13,636181.19,-8.60,9.81' WATER
501,3741999.12,636177.69,-8.60,9.81' WATER
502,3742024.50,636180.62,-8.60,9.81' WATER
503,3742050.64,636188.15,-8.60,9.81' WATER
504,3742076.75,636195.77,-8.70,9.91' WATER
505,3742102.50,636200.84,-8.60,9.81' WATER
506,3742127.54,636201.69,-8.50,9.71' WATER
507,3742152.30,636197.62,-6.11,7.32' WATER
508,3742176.86,636192.54,-8.60,9.81' WATER
509,3742200.78,636181.05,-8.60,9.81' WATER
510,3742224.35,636166.52,-8.50,9.71' WATER
511,3742247.79,636154.33,-8.50,9.71' WATER
512,3742272.12,636145.88,-8.50,9.71' WATER
513,3742296.58,636139.18,-8.50,9.71' WATER
514,3742321.51,636132.90,-8.70,9.91' WATER
515,3742345.48,636127.54,-8.50,9.71' WATER
516,3742370.18,636124.34,-8.50,9.71' WATER
517,3742395.46,636123.33,-8.60,9.81' WATER
518,3742420.52,636122.95,-8.40,9.61' WATER
519,3742446.28,636126.12,-8.40,9.61' WATER
520,3742471.44,636129.03,-8.40,9.61' WATER
521,3742497.01,636129.07,-8.40,9.61' WATER
522,3742521.88,636126.73,-8.40,9.61' WATER
523,3742546.78,636124.28,-8.40,9.61' WATER
524,3742571.23,636120.72,-8.30,9.51' WATER
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525,3742596.05,636115.52,-8.30,9.51' WATER
526,3742620.19,636110.13,-8.30,9.51' WATER
527,3742644.56,636102.50,-8.30,9.51' WATER
528,3742668.75,636093.93,-8.30,9.51' WATER
529,3742692.94,636085.62,-8.30,9.51' WATER
530,3742717.38,636079.14,-8.30,9.51' WATER
531,3742742.02,636074.34,-8.30,9.51' WATER
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535,3742844.10,636084.75,-8.21,9.42' WATER
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539,3742944.13,636081.44,-7.98,9.19' WATER
540,3742968.81,636073.87,-7.88,9.09' WATER
541,3742992.76,636064.55,-7.88,9.09' WATER
542,3743016.76,636056.08,-7.68,8.89' WATER
543,3743040.77,636047.21,-7.78,8.99' WATER
544,3743065.83,636042.73,-7.78,8.99' WATER
545,3743090.53,636041.74,-7.88,9.09' WATER
546,3743115.98,636041.01,-7.98,9.19' WATER
547,3743140.53,636039.79,-8.07,9.28' WATER
548,3743165.36,636036.87,-7.98,9.19' WATER
549,3743189.81,636029.60,-7.98,9.19' WATER
550,3743213.71,636017.60,-7.98,9.19' WATER
551,3743237.57,636004.92,-7.98,9.19' WATER
552,3743260.95,635992.94,-7.98,9.19' WATER
553,3743285.11,635983.87,-7.98,9.19' WATER
554,3743310.15,635979.59,-7.88,9.09' WATER
555,3743335.08,635980.10,-7.88,9.09' WATER
556,3743360.78,635985.29,-7.88,9.09' WATER
557,3743387.02,635994.35,-7.88,9.09' WATER
558,3743413.47,636006.55,-7.98,9.19' WATER
559,3743439.35,636012.54,-8.07,9.28' WATER
560,3743464.87,636013.34,-7.98,9.19' WATER
561,3743489.67,636008.80,-7.98,9.19' WATER
562,3743513.69,635999.62,-7.98,9.19' WATER
563,3743537.66,635990.90,-8.07,9.28' WATER
564,3743561.81,635980.09,-7.98,9.19' WATER
565,3743585.73,635973.05,-7.98,9.19' WATER
566,3743610.59,635969.08,-7.98,9.19' WATER
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569,3743686.61,635974.53,-7.98,9.19' WATER
570,3743712.28,635976.87,-8.07,9.28' WATER
571,3743737.12,635975.34,-8.07,9.28' WATER
572,3743762.17,635971.35,-8.21,9.42' WATER
573,3743786.30,635962.54,-8.07,9.28' WATER
574,3743810.20,635951.30,-8.21,9.42' WATER
575,3743833.72,635941.03,-8.07,9.28' WATER
576,3743858.24,635934.05,-8.07,9.28' WATER
577,3743882.90,635931.31,-8.07,9.28' WATER
578,3743908.44,635932.54,-8.21,9.42' WATER
579,3743934.51,635938.12,-8.21,9.42' WATER
580,3743960.46,635945.83,-8.21,9.42' WATER
581,3743986.19,635952.07,-8.30,9.51' WATER
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585,3744087.02,635952.11,-8.50,9.71' WATER
586,3744111.54,635945.73,-8.50,9.71' WATER
587,3744135.61,635938.31,-8.50,9.71' WATER
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588,3744159.57,635930.05,-8.60,9.81' WATER
589,3744183.87,635922.17,-8.50,9.71' WATER
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592,3744256.53,635897.36,-8.30,9.51' WATER
593,3744281.43,635893.67,-8.21,9.42' WATER
594,3744306.30,635893.33,-8.07,9.28' WATER
595,3744331.92,635896.21,-8.07,9.28' WATER
596,3744357.96,635901.44,-8.07,9.28' WATER
597,3744383.56,635906.46,-7.98,9.19' WATER
598,3744409.20,635908.13,-7.68,8.89' WATER
599,3744433.99,635905.21,-7.68,8.89' WATER
600,3744458.26,635897.72,-7.58,8.79' WATER
601,3744481.97,635888.82,-7.48,8.69' WATER
602,3744505.53,635871.90,-7.48,8.69' WATER
603,3744529.10,635861.28,-7.58,8.79' WATER
604,3744553.23,635851.29,-7.48,8.69' WATER
605,3744577.53,635843.42,-7.48,8.69' WATER
606,3744602.33,635838.65,-7.39,8.60' WATER
607,3744627.35,635837.22,-7.39,8.60' WATER
608,3744652.12,635837.25,-7.39,8.60' WATER
609,3744677.49,635837.62,-7.48,8.69' WATER
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611,3744727.79,635837.78,-7.39,8.60' WATER
612,3744753.13,635836.02,-7.39,8.60' WATER
613,3744777.61,635831.86,-7.39,8.60' WATER
614,3744801.89,635824.49,-7.29,8.50' WATER
615,3744825.81,635812.69,-7.29,8.50' WATER
616,3744849.38,635800.31,-7.39,8.60' WATER
617,3744873.74,635791.21,-7.29,8.50' WATER
618,3744898.22,635785.89,-7.39,8.60' WATER
619,3744922.89,635783.44,-7.29,8.50' WATER
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626,3745102.87,635816.00,-7.09,8.30' WATER
627,3745127.80,635813.24,-7.09,8.30' WATER
628,3745152.30,635807.54,-7.09,8.30' WATER
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630,3745200.53,635789.95,-6.99,8.20' WATER
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632,3745249.04,635772.29,-6.99,8.20' WATER
633,3745273.39,635765.19,-6.99,8.20' WATER
634,3745297.83,635760.79,-6.99,8.20' WATER
635,3745323.07,635760.04,-6.89,8.10' WATER
636,3745348.61,635762.90,-6.89,8.10' WATER
637,3745374.20,635767.47,-6.89,8.10' WATER
638,3745399.51,635771.01,-6.80,8.01' WATER
639,3745425.19,635775.05,-6.70,7.91' WATER
640,3745450.80,635780.24,-6.80,8.01' WATER
641,3745476.20,635781.41,-6.70,7.91' WATER
642,3745501.30,635777.88,-6.80,8.01' WATER
643,3745525.47,635770.38,-6.70,7.91' WATER
644,3745549.21,635759.98,-6.70,7.91' WATER
645,3745573.27,635748.72,-6.70,7.91' WATER
646,3745597.25,635739.93,-6.70,7.91' WATER
647,3745621.81,635735.55,-6.70,7.91' WATER
648,3745647.40,635736.40,-6.60,7.81' WATER
649,3745673.32,635743.20,-6.70,7.91' WATER
650,3745699.96,635758.49,-6.50,7.71' WATER
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661,3745969.73,635695.57,-6.20,7.41' WATER
662,3745995.37,635699.74,-5.98,7.19' WATER
663,3746021.74,635709.47,-5.88,7.09' WATER
664,3746047.29,635713.68,-5.78,6.99' WATER
665,3746072.55,635714.28,-5.58,6.79' WATER
666,3746097.07,635709.67,-5.78,6.99' WATER
667,3746120.93,635699.55,-5.68,6.89' WATER
;
;
;TRANSECT 50
;1.21' TOP WATER 10-11-2011
668,3740624.48,635332.73,-9.19,10.40' WATER
669,3740670.76,635299.07,-9.09,10.30' WATER
670,3740693.74,635281.54,-8.99,10.20' WATER
671,3740718.05,635272.32,-9.09,10.30' WATER
672,3740742.50,635267.75,-9.19,10.40' WATER
673,3740767.85,635267.60,-9.29,10.50' WATER
674,3740793.51,635272.97,-9.09,10.30' WATER
675,3740819.46,635280.20,-9.19,10.40' WATER
676,3740844.95,635284.59,-9.09,10.30' WATER
677,3740870.50,635284.55,-9.09,10.30' WATER
678,3740894.94,635280.65,-9.09,10.30' WATER
679,3740919.17,635273.61,-9.19,10.40' WATER
680,3740943.45,635265.48,-9.29,10.50' WATER
681,3740967.80,635256.28,-9.29,10.50' WATER
682,3740991.92,635246.92,-9.19,10.40' WATER
683,3741016.16,635239.13,-9.19,10.40' WATER
684,3741040.76,635233.62,-9.19,10.40' WATER
685,3741065.10,635228.87,-9.19,10.40' WATER
686,3741090.45,635227.78,-9.09,10.30' WATER
687,3741115.59,635230.05,-9.29,10.50' WATER
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691,3741217.20,635236.21,-9.29,10.50' WATER
692,3741241.81,635233.29,-9.19,10.40' WATER
693,3741266.66,635228.25,-9.19,10.40' WATER
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696,3741340.03,635210.29,-9.19,10.40' WATER
697,3741364.87,635207.07,-9.19,10.40' WATER
698,3741389.96,635206.68,-9.09,10.30' WATER
699,3741415.49,635209.35,-9.09,10.30' WATER
700,3741440.97,635212.30,-9.09,10.30' WATER
701,3741466.33,635214.04,-8.99,10.20' WATER
702,3741491.67,635216.26,-8.99,10.20' WATER
703,3741516.95,635218.55,-8.89,10.10' WATER
704,3741542.14,635219.04,-8.99,10.20' WATER
705,3741566.98,635214.86,-8.99,10.20' WATER
706,3741591.43,635208.94,-9.09,10.30' WATER
707,3741616.07,635202.81,-8.89,10.10' WATER
708,3741640.18,635197.98,-9.09,10.30' WATER
709,3741690.79,635197.42,-8.89,10.10' WATER
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710,3741716.59,635202.91,-8.89,10.10' WATER
711,3741742.07,635207.86,-8.80,10.01' WATER
712,3741767.61,635211.55,-8.89,10.10' WATER
713,3741793.08,635214.17,-8.80,10.01' WATER
714,3741818.76,635215.43,-8.89,10.10' WATER
715,3741843.56,635214.96,-9.09,10.30' WATER
716,3741868.35,635211.85,-8.89,10.10' WATER
717,3741893.09,635206.12,-8.80,10.01' WATER
718,3741917.23,635198.86,-8.89,10.10' WATER
719,3741941.08,635187.75,-8.80,10.01' WATER
720,3741965.04,635175.56,-8.80,10.01' WATER
721,3741989.05,635165.33,-8.80,10.01' WATER
722,3742013.35,635157.07,-8.80,10.01' WATER
723,3742038.06,635153.72,-8.89,10.10' WATER
724,3742062.80,635152.79,-8.70,9.91' WATER
725,3742088.33,635153.60,-8.80,10.01' WATER
726,3742113.47,635155.52,-8.70,9.91' WATER
727,3742139.13,635157.57,-8.80,10.01' WATER
728,3742164.17,635158.45,-8.70,9.91' WATER
729,3742189.47,635157.67,-8.89,10.10' WATER
730,3742214.05,635155.50,-8.89,10.10' WATER
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733,3742287.80,635138.16,-8.70,9.91' WATER
734,3742311.87,635129.59,-8.80,10.01' WATER
735,3742336.23,635120.89,-8.80,10.01' WATER
736,3742360.35,635111.84,-8.80,10.01' WATER
737,3742384.94,635106.67,-8.70,9.91' WATER
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742,3742510.58,635105.54,-8.60,9.81' WATER
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744,3742559.83,635098.35,-8.60,9.81' WATER
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749,3742682.19,635068.24,-8.60,9.81' WATER
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763,3743033.74,635059.03,-8.21,9.42' WATER
764,3743059.13,635060.15,-8.30,9.51' WATER
765,3743084.31,635061.13,-8.07,9.28' WATER
766,3743109.40,635061.40,-8.21,9.42' WATER
767,3743134.62,635059.83,-7.98,9.19' WATER
768,3743158.86,635055.81,-7.98,9.19' WATER
769,3743183.41,635049.45,-7.98,9.19' WATER
770,3743207.78,635041.02,-7.98,9.19' WATER
771,3743231.47,635028.86,-8.07,9.28' WATER
772,3743255.25,635017.11,-8.07,9.28' WATER
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773,3743279.21,635007.33,-8.07,9.28' WATER
774,3743303.66,635000.59,-8.21,9.42' WATER
775,3743328.32,634996.27,-8.21,9.42' WATER
776,3743353.33,634995.79,-8.21,9.42' WATER
777,3743378.65,634997.19,-8.21,9.42' WATER
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792,3743751.70,634956.97,-8.21,9.42' WATER
793,3743776.50,634956.50,-8.07,9.28' WATER
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798,3743898.12,634919.97,-8.40,9.61' WATER
799,3743922.61,634911.06,-8.50,9.71' WATER
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806,3744099.75,634922.99,-8.70,9.91' WATER
807,3744125.16,634921.34,-8.80,10.01' WATER
808,3744149.44,634917.13,-8.80,10.01' WATER
809,3744173.99,634910.01,-8.80,10.01' WATER
810,3744198.08,634901.17,-8.70,9.91' WATER
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813,3744271.12,634881.06,-8.60,9.81' WATER
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817,3744373.79,634896.53,-8.21,9.42' WATER
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823,3744521.05,634862.91,-7.98,9.19' WATER
824,3744544.78,634851.85,-7.78,8.99' WATER
825,3744569.13,634843.52,-7.78,8.99' WATER
826,3744593.39,634838.86,-7.68,8.89' WATER
827,3744618.43,634838.06,-7.68,8.89' WATER
828,3744644.19,634841.74,-7.68,8.89' WATER
829,3744670.31,634848.23,-7.78,8.99' WATER
830,3744695.85,634855.07,-7.68,8.89' WATER
831,3744721.75,634860.36,-7.78,8.99' WATER
832,3744747.45,634862.11,-7.68,8.89' WATER
833,3744772.25,634859.94,-7.68,8.89' WATER
834,3744796.75,634854.02,-7.68,8.89' WATER
835,3744820.75,634844.65,-7.68,8.89' WATER
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836,3744844.19,634830.66,-7.58,8.79' WATER
837,3744867.91,634818.14,-7.48,8.69' WATER
838,3744891.94,634808.27,-7.48,8.69' WATER
839,3744916.21,634802.13,-7.48,8.69' WATER
840,3744941.09,634799.89,-7.48,8.69' WATER
841,3744966.95,634802.51,-7.48,8.69' WATER
842,3744992.69,634808.20,-7.48,8.69' WATER
843,3745018.34,634813.85,-7.39,8.60' WATER
844,3745043.81,634816.32,-7.39,8.60' WATER
845,3745069.01,634814.30,-7.39,8.60' WATER
846,3745092.77,634808.30,-7.29,8.50' WATER
847,3745117.35,634800.00,-7.29,8.50' WATER
848,3745141.64,634788.99,-7.29,8.50' WATER
849,3745165.00,634776.89,-7.39,8.60' WATER
850,3745188.87,634765.32,-7.39,8.60' WATER
851,3745213.18,634755.94,-7.29,8.50' WATER
852,3745237.47,634749.58,-7.39,8.60' WATER
853,3745262.42,634747.23,-7.39,8.60' WATER
854,3745287.85,634749.90,-7.29,8.50' WATER
855,3745313.79,634756.97,-7.39,8.60' WATER
856,3745339.97,634766.16,-7.39,8.60' WATER
857,3745366.28,634774.37,-7.39,8.60' WATER
858,3745391.77,634778.22,-7.39,8.60' WATER
859,3745416.85,634776.42,-7.29,8.50' WATER
860,3745440.99,634769.20,-7.29,8.50' WATER
861,3745464.68,634756.10,-7.29,8.50' WATER
862,3745488.37,634741.77,-7.29,8.50' WATER
863,3745511.71,634726.82,-7.29,8.50' WATER
864,3745535.79,634719.53,-7.39,8.60' WATER
865,3745561.09,634717.68,-7.39,8.60' WATER
866,3745586.43,634721.47,-7.29,8.50' WATER
867,3745612.88,634729.51,-7.29,8.50' WATER
868,3745639.06,634740.03,-7.29,8.50' WATER
869,3745665.86,634754.07,-7.29,8.50' WATER
870,3745691.81,634759.48,-7.29,8.50' WATER
871,3745716.84,634758.44,-7.19,8.40' WATER
872,3745741.11,634751.05,-7.19,8.40' WATER
873,3745764.62,634737.32,-7.29,8.50' WATER
874,3745787.28,634715.07,-7.19,8.40' WATER
875,3745809.80,634693.18,-7.29,8.50' WATER
876,3745833.50,634682.16,-7.19,8.40' WATER
877,3745858.13,634677.93,-7.29,8.50' WATER
878,3745884.09,634681.48,-7.29,8.50' WATER
879,3745910.14,634688.87,-7.19,8.40' WATER
880,3745935.65,634695.16,-7.19,8.40' WATER
881,3745961.35,634696.60,-7.09,8.30' WATER
882,3745985.62,634690.59,-7.09,8.30' WATER
;
;
;TRANSECT 51
;1.21' TOP WATER 10-11-2011
883,3740634.90,634856.61,-8.99,10.20' WATER
884,3740660.32,634855.64,-6.60,7.81' WATER
885,3740685.25,634851.61,-9.39,10.60' WATER
886,3740709.24,634846.30,-9.39,10.60' WATER
887,3740733.15,634835.92,-9.29,10.50' WATER
888,3740756.80,634823.33,-9.19,10.40' WATER
889,3740780.67,634812.19,-9.09,10.30' WATER
890,3740804.69,634799.36,-9.19,10.40' WATER
891,3740828.56,634788.48,-9.29,10.50' WATER
892,3740852.90,634779.90,-9.49,10.70' WATER
893,3740876.98,634773.55,-9.39,10.60' WATER
894,3740902.34,634772.10,-9.29,10.50' WATER
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895,3740927.45,634775.43,-9.29,10.50' WATER
896,3740953.91,634782.85,-9.29,10.50' WATER
897,3740980.10,634792.81,-9.39,10.60' WATER
898,3741006.27,634801.85,-9.29,10.50' WATER
899,3741032.37,634808.82,-9.29,10.50' WATER
900,3741058.32,634814.25,-9.29,10.50' WATER
901,3741083.77,634818.27,-9.29,10.50' WATER
902,3741109.07,634819.75,-9.29,10.50' WATER
903,3741133.98,634818.74,-9.19,10.40' WATER
904,3741159.32,634817.98,-9.09,10.30' WATER
905,3741183.58,634814.03,-9.19,10.40' WATER
906,3741208.73,634807.91,-9.19,10.40' WATER
907,3741232.60,634802.66,-9.19,10.40' WATER
908,3741256.85,634794.68,-9.19,10.40' WATER
909,3741281.13,634786.38,-9.09,10.30' WATER
910,3741305.13,634774.47,-6.50,7.71' WATER
911,3741329.14,634764.05,-9.19,10.40' WATER
912,3741353.19,634756.95,-9.09,10.30' WATER
913,3741378.10,634751.19,-9.09,10.30' WATER
914,3741402.39,634747.94,-9.19,10.40' WATER
915,3741427.53,634744.81,-9.09,10.30' WATER
916,3741451.98,634740.95,-9.09,10.30' WATER
917,3741476.73,634738.09,-6.50,7.71' WATER
918,3741501.66,634733.58,-9.19,10.40' WATER
919,3741526.07,634727.32,-9.09,10.30' WATER
920,3741550.44,634718.32,-8.99,10.20' WATER
921,3741574.18,634708.66,-8.99,10.20' WATER
922,3741598.02,634699.20,-8.99,10.20' WATER
923,3741622.39,634689.08,-8.99,10.20' WATER
924,3741646.61,634681.78,-9.09,10.30' WATER
925,3741671.36,634676.74,-8.99,10.20' WATER
926,3741695.60,634672.76,-8.99,10.20' WATER
927,3741720.92,634672.31,-8.99,10.20' WATER
928,3741746.35,634673.38,-8.99,10.20' WATER
929,3741771.59,634673.94,-8.99,10.20' WATER
930,3741797.05,634677.02,-8.99,10.20' WATER
931,3741822.53,634679.27,-8.99,10.20' WATER
932,3741847.95,634679.96,-8.99,10.20' WATER
933,3741873.04,634680.10,-8.89,10.10' WATER
934,3741898.08,634678.96,-8.99,10.20' WATER
935,3741923.03,634677.18,-8.89,10.10' WATER
936,3741947.86,634673.11,-8.99,10.20' WATER
937,3741971.98,634668.77,-8.89,10.10' WATER
938,3741996.38,634661.49,-8.89,10.10' WATER
939,3742020.50,634653.25,-9.19,10.40' WATER
940,3742045.34,634646.72,-8.89,10.10' WATER
941,3742069.45,634641.48,-8.89,10.10' WATER
942,3742094.31,634638.32,-8.99,10.20' WATER
943,3742119.32,634635.91,-8.89,10.10' WATER
944,3742144.49,634635.95,-8.99,10.20' WATER
945,3742169.79,634636.56,-8.89,10.10' WATER
946,3742195.11,634636.33,-8.89,10.10' WATER
947,3742220.07,634636.56,-8.89,10.10' WATER
948,3742245.11,634635.67,-8.80,10.01' WATER
949,3742270.03,634633.82,-8.89,10.10' WATER
950,3742294.91,634630.09,-8.80,10.01' WATER
951,3742319.53,634625.64,-8.80,10.01' WATER
952,3742343.80,634618.50,-8.80,10.01' WATER
953,3742368.49,634610.90,-8.80,10.01' WATER
954,3742392.74,634604.77,-8.80,10.01' WATER
955,3742417.06,634599.29,-8.80,10.01' WATER
956,3742442.08,634596.03,-8.80,10.01' WATER
957,3742467.12,634593.78,-8.89,10.10' WATER
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958,3742492.32,634594.28,-8.80,10.01' WATER
959,3742517.61,634595.18,-8.89,10.10' WATER
960,3742542.34,634594.72,-8.80,10.01' WATER
961,3742567.65,634593.29,-8.89,10.10' WATER
962,3742592.31,634590.28,-8.80,10.01' WATER
963,3742616.96,634586.91,-8.80,10.01' WATER
964,3742641.50,634581.98,-8.89,10.10' WATER
965,3742666.12,634577.24,-8.80,10.01' WATER
966,3742691.29,634573.78,-8.70,9.91' WATER
967,3742716.19,634572.10,-8.80,10.01' WATER
968,3742741.13,634572.94,-8.70,9.91' WATER
969,3742766.48,634574.11,-8.80,10.01' WATER
970,3742792.35,634577.14,-8.70,9.91' WATER
971,3742817.22,634578.39,-8.70,9.91' WATER
972,3742842.74,634578.17,-8.70,9.91' WATER
973,3742867.85,634577.82,-8.70,9.91' WATER
974,3742892.45,634576.91,-8.70,9.91' WATER
975,3742917.75,634574.59,-8.60,9.81' WATER
976,3742942.28,634571.40,-8.70,9.91' WATER
977,3742966.76,634565.96,-8.70,9.91' WATER
978,3742991.23,634560.38,-8.60,9.81' WATER
979,3743016.27,634555.74,-8.50,9.71' WATER
980,3743040.81,634551.12,-8.50,9.71' WATER
981,3743065.36,634547.24,-8.40,9.61' WATER
982,3743089.98,634544.05,-8.40,9.61' WATER
983,3743115.24,634541.66,-8.21,9.42' WATER
984,3743139.92,634539.33,-8.07,9.28' WATER
985,3743165.25,634537.46,-8.21,9.42' WATER
986,3743189.90,634535.50,-8.30,9.51' WATER
987,3743214.62,634533.10,-8.30,9.51' WATER
988,3743239.85,634529.69,-8.40,9.61' WATER
989,3743264.32,634524.85,-8.30,9.51' WATER
990,3743288.66,634519.68,-8.40,9.61' WATER
991,3743313.34,634512.60,-8.40,9.61' WATER
992,3743337.14,634504.26,-8.40,9.61' WATER
993,3743361.47,634495.92,-8.50,9.71' WATER
994,3743385.53,634486.99,-8.50,9.71' WATER
995,3743409.80,634479.56,-8.50,9.71' WATER
996,3743434.27,634472.80,-8.40,9.61' WATER
997,3743458.87,634467.09,-8.50,9.71' WATER
998,3743483.71,634463.17,-8.40,9.61' WATER
999,3743508.56,634459.68,-8.40,9.61' WATER
1000,3743533.22,634458.40,-8.40,9.61' WATER
1001,3743558.43,634457.60,-8.30,9.51' WATER
1002,3743583.60,634456.52,-8.30,9.51' WATER
1003,3743608.86,634456.87,-8.30,9.51' WATER
1004,3743633.49,634456.21,-8.30,9.51' WATER
1005,3743658.61,634453.97,-8.07,9.28' WATER
1006,3743683.53,634449.89,-8.21,9.42' WATER
1007,3743707.62,634443.88,-8.21,9.42' WATER
1008,3743732.02,634437.11,-8.30,9.51' WATER
1009,3743756.41,634429.31,-8.40,9.61' WATER
1010,3743780.84,634424.28,-8.30,9.51' WATER
1011,3743806.02,634421.22,-8.40,9.61' WATER
1012,3743830.85,634419.02,-8.50,9.71' WATER
1013,3743855.79,634419.82,-8.50,9.71' WATER
1014,3743881.29,634422.33,-8.60,9.81' WATER
1015,3743907.01,634424.86,-8.60,9.81' WATER
1016,3743932.28,634426.23,-8.60,9.81' WATER
1017,3743957.46,634426.56,-8.70,9.91' WATER
1018,3743982.25,634425.84,-8.70,9.91' WATER
1019,3744007.28,634422.05,-8.70,9.91' WATER
1020,3744031.57,634417.37,-8.89,10.10' WATER
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1021,3744056.20,634409.43,-8.80,10.01' WATER
1022,3744080.22,634402.44,-8.99,10.20' WATER
1023,3744104.95,634397.57,-8.99,10.20' WATER
1024,3744129.83,634393.47,-6.30,7.51' WATER
1025,3744154.69,634390.90,-8.89,10.10' WATER
1026,3744179.74,634391.07,-8.89,10.10' WATER
1027,3744205.30,634392.61,-8.80,10.01' WATER
1028,3744230.32,634392.87,-8.80,10.01' WATER
1029,3744255.46,634391.43,-8.70,9.91' WATER
1030,3744280.47,634390.25,-8.70,9.91' WATER
1031,3744305.53,634389.49,-8.60,9.81' WATER
1032,3744330.48,634386.44,-8.50,9.71' WATER
1033,3744354.95,634383.28,-8.40,9.61' WATER
1034,3744380.05,634380.28,-8.30,9.51' WATER
1035,3744404.48,634375.16,-8.21,9.42' WATER
1036,3744429.00,634370.18,-8.21,9.42' WATER
1037,3744454.01,634367.24,-8.21,9.42' WATER
1038,3744479.16,634366.38,-8.07,9.28' WATER
1039,3744503.79,634365.92,-8.07,9.28' WATER
1040,3744529.25,634366.90,-8.07,9.28' WATER
1041,3744554.40,634367.20,-7.98,9.19' WATER
1042,3744579.54,634365.64,-7.98,9.19' WATER
1043,3744604.41,634362.52,-7.88,9.09' WATER
1044,3744628.47,634355.94,-7.88,9.09' WATER
1045,3744652.76,634347.65,-7.88,9.09' WATER
1046,3744676.94,634339.68,-7.98,9.19' WATER
1047,3744701.34,634333.54,-7.78,8.99' WATER
1048,3744726.31,634329.03,-7.98,9.19' WATER
1049,3744751.17,634328.22,-7.88,9.09' WATER
1050,3744776.74,634331.04,-7.98,9.19' WATER
1051,3744802.82,634336.44,-7.88,9.09' WATER
1052,3744828.59,634341.69,-7.88,9.09' WATER
1053,3744853.97,634343.92,-7.88,9.09' WATER
1054,3744878.64,634341.49,-7.88,9.09' WATER
1055,3744903.37,634336.68,-7.98,9.19' WATER
1056,3744927.04,634325.14,-7.78,8.99' WATER
1057,3744950.58,634310.15,-7.78,8.99' WATER
1058,3744973.73,634294.80,-7.78,8.99' WATER
1059,3744997.25,634279.04,-7.88,9.09' WATER
1060,3745021.03,634267.77,-7.88,9.09' WATER
1061,3745045.35,634261.97,-7.78,8.99' WATER
1062,3745070.79,634260.49,-7.78,8.99' WATER
1063,3745096.07,634263.30,-7.78,8.99' WATER
1064,3745121.86,634269.86,-7.68,8.89' WATER
1065,3745148.02,634278.19,-7.68,8.89' WATER
1066,3745174.07,634282.63,-7.68,8.89' WATER
1067,3745199.33,634283.91,-7.68,8.89' WATER
1068,3745224.26,634281.92,-7.68,8.89' WATER
1069,3745248.56,634276.18,-7.58,8.79' WATER
1070,3745272.84,634270.03,-7.68,8.89' WATER
1071,3745297.17,634259.96,-7.58,8.79' WATER
1072,3745321.21,634251.71,-7.68,8.89' WATER
1073,3745345.57,634245.98,-7.58,8.79' WATER
1074,3745370.43,634243.33,-7.78,8.99' WATER
1075,3745395.61,634242.32,-7.58,8.79' WATER
1076,3745421.11,634245.85,-7.58,8.79' WATER
1077,3745447.11,634251.34,-7.48,8.69' WATER
1078,3745472.71,634255.54,-7.58,8.79' WATER
1079,3745497.86,634255.94,-7.58,8.79' WATER
1080,3745522.58,634253.00,-7.58,8.79' WATER
1081,3745547.27,634247.15,-7.58,8.79' WATER
1082,3745571.19,634238.35,-7.48,8.69' WATER
1083,3745595.54,634229.84,-7.58,8.79' WATER
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1084,3745619.31,634219.53,-7.58,8.79' WATER
1085,3745643.83,634209.97,-7.58,8.79' WATER
1086,3745667.41,634199.90,-7.58,8.79' WATER
1087,3745691.53,634191.54,-7.58,8.79' WATER
1088,3745716.04,634186.19,-7.58,8.79' WATER
1089,3745741.62,634185.25,-7.58,8.79' WATER
1090,3745767.14,634189.44,-7.58,8.79' WATER
1091,3745793.32,634200.59,-7.58,8.79' WATER
1092,3745819.56,634208.46,-7.58,8.79' WATER
1093,3745844.81,634211.28,-7.58,8.79' WATER
1094,3745869.80,634209.57,-7.58,8.79' WATER
1095,3745894.58,634204.09,-7.58,8.79' WATER
1096,3745919.13,634197.47,-7.58,8.79' WATER
1097,3745942.75,634187.09,-7.48,8.69' WATER
1098,3745967.16,634178.48,-7.48,8.69' WATER
1099,3745991.42,634171.51,-7.48,8.69' WATER
;
;
;TRANSECT 52
;1.21' TOP WATER 10-11-2011
1100,3740463.03,634321.58,-9.19,10.40' WATER
1101,3740488.00,634320.45,-9.19,10.40' WATER
1102,3740513.33,634318.46,-9.19,10.40' WATER
1103,3740538.06,634315.58,-9.09,10.30' WATER
1104,3740562.65,634312.04,-9.19,10.40' WATER
1105,3740587.15,634308.11,-9.29,10.50' WATER
1106,3740612.07,634303.94,-9.29,10.50' WATER
1107,3740636.79,634299.58,-9.19,10.40' WATER
1108,3740661.39,634295.29,-9.09,10.30' WATER
1109,3740685.97,634291.68,-9.09,10.30' WATER
1110,3740711.23,634288.89,-9.09,10.30' WATER
1111,3740735.99,634286.16,-9.09,10.30' WATER
1112,3740760.54,634284.35,-9.19,10.40' WATER
1113,3740785.79,634282.33,-9.19,10.40' WATER
1114,3740810.61,634280.18,-9.19,10.40' WATER
1115,3740835.41,634277.89,-9.19,10.40' WATER
1116,3740860.45,634274.23,-9.19,10.40' WATER
1117,3740885.23,634270.55,-9.19,10.40' WATER
1118,3740909.89,634266.81,-9.19,10.40' WATER
1119,3740934.46,634262.96,-9.19,10.40' WATER
1120,3740959.52,634260.80,-9.19,10.40' WATER
1121,3740984.12,634259.00,-6.60,7.81' WATER
1122,3741009.42,634257.75,-9.09,10.30' WATER
1123,3741034.33,634256.58,-9.19,10.40' WATER
1124,3741059.14,634254.82,-9.19,10.40' WATER
1125,3741084.40,634252.04,-9.19,10.40' WATER
1126,3741109.03,634248.30,-9.19,10.40' WATER
1127,3741133.69,634244.33,-9.29,10.50' WATER
1128,3741158.35,634240.44,-9.19,10.40' WATER
1129,3741183.02,634236.95,-9.19,10.40' WATER
1130,3741207.75,634234.21,-9.19,10.40' WATER
1131,3741233.07,634231.84,-9.19,10.40' WATER
1132,3741257.86,634229.81,-9.09,10.30' WATER
1133,3741282.71,634228.57,-9.19,10.40' WATER
1134,3741307.64,634227.84,-9.19,10.40' WATER
1135,3741332.97,634226.40,-9.19,10.40' WATER
1136,3741357.48,634223.27,-9.19,10.40' WATER
1137,3741382.24,634218.67,-6.60,7.81' WATER
1138,3741407.02,634213.74,-9.09,10.30' WATER
1139,3741431.72,634208.56,-9.19,10.40' WATER
1140,3741455.98,634203.37,-9.09,10.30' WATER
1141,3741480.79,634198.55,-9.09,10.30' WATER
1142,3741505.25,634194.74,-9.19,10.40' WATER

1143,3741529.97,634192.02,-9.09,10.30' WATER
1144,3741555.40,634190.10,-9.09,10.30' WATER
1145,3741580.36,634188.35,-8.99,10.20' WATER
1146,3741605.26,634186.43,-8.99,10.20' WATER
1147,3741630.08,634184.01,-9.19,10.40' WATER
1148,3741654.78,634180.94,-8.99,10.20' WATER
1149,3741679.49,634177.78,-9.09,10.30' WATER
1150,3741704.12,634174.45,-9.09,10.30' WATER
1151,3741729.04,634170.07,-8.99,10.20' WATER
1152,3741753.75,634165.12,-8.89,10.10' WATER
1153,3741778.39,634160.07,-6.40,7.61' WATER
1154,3741803.13,634156.50,-8.99,10.20' WATER
1155,3741827.58,634154.29,-8.99,10.20' WATER
1156,3741852.84,634153.54,-8.89,10.10' WATER
1157,3741878.16,634153.43,-8.99,10.20' WATER
1158,3741903.06,634153.44,-8.89,10.10' WATER
1159,3741928.42,634152.39,-8.99,10.20' WATER
1160,3741953.13,634149.47,-8.89,10.10' WATER
1161,3741977.79,634146.19,-8.89,10.10' WATER
1162,3742002.73,634141.98,-8.89,10.10' WATER
1163,3742026.93,634136.97,-8.89,10.10' WATER
1164,3742051.68,634132.24,-8.89,10.10' WATER
1165,3742076.33,634127.31,-8.89,10.10' WATER
1166,3742101.00,634122.35,-8.89,10.10' WATER
1167,3742125.76,634118.09,-8.89,10.10' WATER
1168,3742150.28,634115.01,-8.80,10.01' WATER
1169,3742175.51,634112.55,-8.89,10.10' WATER
1170,3742200.23,634110.18,-8.89,10.10' WATER
1171,3742225.26,634109.42,-8.80,10.01' WATER
1172,3742250.28,634108.95,-8.89,10.10' WATER
1173,3742275.66,634108.84,-8.80,10.01' WATER
1174,3742300.93,634108.74,-8.80,10.01' WATER
1175,3742325.88,634106.83,-8.80,10.01' WATER
1176,3742350.60,634104.25,-8.80,10.01' WATER
1177,3742375.22,634101.06,-9.19,10.40' WATER
1178,3742399.63,634095.54,-8.80,10.01' WATER
1179,3742424.74,634092.20,-8.89,10.10' WATER
1180,3742449.60,634090.03,-8.70,9.91' WATER
1181,3742474.57,634088.30,-8.70,9.91' WATER
1182,3742499.40,634086.28,-8.70,9.91' WATER
1183,3742524.03,634083.32,-8.60,9.81' WATER
1184,3742548.90,634078.97,-8.80,10.01' WATER
1185,3742573.58,634073.92,-8.60,9.81' WATER
1186,3742598.40,634069.70,-8.60,9.81' WATER
1187,3742623.00,634066.96,-8.70,9.91' WATER
1188,3742648.22,634065.00,-8.70,9.91' WATER
1189,3742673.06,634064.01,-8.70,9.91' WATER
1190,3742698.07,634064.14,-8.60,9.81' WATER
1191,3742723.61,634064.44,-8.60,9.81' WATER
1192,3742748.58,634064.64,-8.70,9.91' WATER
1193,3742773.62,634065.02,-8.70,9.91' WATER
1194,3742799.04,634063.74,-8.70,9.91' WATER
1195,3742823.73,634060.65,-8.60,9.81' WATER
1196,3742848.21,634056.78,-8.70,9.91' WATER
1197,3742872.99,634052.07,-8.60,9.81' WATER
1198,3742897.50,634046.31,-8.60,9.81' WATER
1199,3742921.69,634039.42,-8.60,9.81' WATER
1200,3742946.25,634032.47,-8.60,9.81' WATER
1201,3742970.69,634027.14,-8.60,9.81' WATER
1202,3742995.57,634023.53,-8.60,9.81' WATER
1203,3743020.25,634021.27,-8.70,9.91' WATER
1204,3743045.16,634020.12,-8.50,9.71' WATER
1205,3743070.65,634019.64,-8.40,9.61' WATER

1206,3743095.71,634019.37,-8.30,9.51' WATER
1207,3743120.66,634018.00,-8.21,9.42' WATER
1208,3743145.37,634015.04,-7.98,9.19' WATER
1209,3743169.85,634011.21,-7.78,8.99' WATER
1210,3743194.60,634006.12,-7.88,9.09' WATER
1211,3743219.21,633999.65,-7.98,9.19' WATER
1212,3743243.71,633993.70,-8.07,9.28' WATER
1213,3743268.23,633988.86,-8.30,9.51' WATER
1214,3743293.07,633984.45,-8.50,9.71' WATER
1215,3743317.75,633981.41,-8.60,9.81' WATER
1216,3743342.68,633980.44,-8.50,9.71' WATER
1217,3743367.70,633978.70,-8.60,9.81' WATER
1218,3743393.10,633978.07,-8.60,9.81' WATER
1219,3743417.99,633976.96,-8.70,9.91' WATER
1220,3743442.70,633975.02,-8.70,9.91' WATER
1221,3743467.86,633972.58,-8.60,9.81' WATER
1222,3743492.27,633968.73,-8.60,9.81' WATER
1223,3743517.37,633964.67,-8.50,9.71' WATER
1224,3743541.58,633959.54,-8.50,9.71' WATER
1225,3743566.04,633953.89,-8.50,9.71' WATER
1226,3743590.86,633948.72,-8.40,9.61' WATER
1227,3743615.29,633945.03,-8.30,9.51' WATER
1228,3743640.45,633943.22,-8.30,9.51' WATER
1229,3743665.86,633942.88,-8.40,9.61' WATER
1230,3743690.98,633944.92,-8.30,9.51' WATER
1231,3743716.11,633946.03,-8.40,9.61' WATER
1232,3743741.47,633944.61,-8.40,9.61' WATER
1233,3743766.13,633940.53,-8.40,9.61' WATER
1234,3743790.56,633935.20,-8.40,9.61' WATER
1235,3743815.18,633929.41,-8.40,9.61' WATER
1236,3743839.72,633924.02,-8.50,9.71' WATER
1237,3743864.12,633919.42,-8.50,9.71' WATER
1238,3743888.79,633915.44,-8.60,9.81' WATER
1239,3743913.75,633913.56,-8.60,9.81' WATER
1240,3743939.12,633913.72,-8.70,9.91' WATER
1241,3743964.33,633915.53,-8.80,10.01' WATER
1242,3743990.23,633919.57,-8.89,10.10' WATER
1243,3744015.58,633922.24,-8.89,10.10' WATER
1244,3744040.59,633922.99,-8.89,10.10' WATER
1245,3744065.63,633921.96,-8.99,10.20' WATER
1246,3744090.69,633917.35,-8.99,10.20' WATER
1247,3744114.77,633910.91,-8.99,10.20' WATER
1248,3744139.00,633903.37,-9.09,10.30' WATER
1249,3744163.38,633893.98,-8.99,10.20' WATER
1250,3744187.39,633886.70,-8.99,10.20' WATER
1251,3744212.49,633882.64,-8.99,10.20' WATER
1252,3744237.21,633881.10,-8.89,10.10' WATER
1253,3744262.27,633881.34,-8.89,10.10' WATER
1254,3744287.93,633881.96,-8.70,9.91' WATER
1255,3744312.86,633881.89,-8.60,9.81' WATER
1256,3744338.04,633879.91,-8.50,9.71' WATER
1257,3744362.27,633875.59,-8.40,9.61' WATER
1258,3744386.67,633869.58,-8.40,9.61' WATER
1259,3744411.47,633863.18,-8.30,9.51' WATER
1260,3744435.99,633857.91,-8.30,9.51' WATER
1261,3744460.90,633854.52,-8.21,9.42' WATER
1262,3744485.48,633853.50,-8.21,9.42' WATER
1263,3744511.02,633854.27,-8.21,9.42' WATER
1264,3744536.22,633855.93,-8.21,9.42' WATER
1265,3744561.90,633857.55,-8.07,9.28' WATER
1266,3744586.84,633858.16,-8.21,9.42' WATER
1267,3744611.86,633856.69,-8.07,9.28' WATER
1268,3744636.40,633852.86,-8.07,9.28' WATER

1269,3744661.18,633846.52,-7.98,9.19' WATER
1270,3744685.21,633838.65,-8.07,9.28' WATER
1271,3744709.43,633829.13,-8.07,9.28' WATER
1272,3744733.16,633819.15,-8.21,9.42' WATER
1273,3744757.85,633811.28,-8.07,9.28' WATER
1274,3744782.10,633807.06,-8.07,9.28' WATER
1275,3744807.18,633806.09,-8.07,9.28' WATER
1276,3744832.73,633808.32,-7.98,9.19' WATER
1277,3744858.30,633811.57,-8.07,9.28' WATER
1278,3744883.68,633813.90,-8.07,9.28' WATER
1279,3744908.83,633813.39,-7.98,9.19' WATER
1280,3744933.81,633811.28,-8.07,9.28' WATER
1281,3744958.69,633808.23,-7.98,9.19' WATER
1282,3744983.14,633804.70,-7.98,9.19' WATER
1283,3745008.32,633801.38,-7.98,9.19' WATER
1284,3745032.67,633796.45,-7.98,9.19' WATER
1285,3745057.09,633789.34,-7.88,9.09' WATER
1286,3745081.30,633781.58,-7.88,9.09' WATER
1287,3745105.60,633774.23,-7.78,8.99' WATER
1288,3745130.26,633767.97,-7.88,9.09' WATER
1289,3745154.80,633763.15,-7.78,8.99' WATER
1290,3745179.31,633759.97,-7.88,9.09' WATER
1291,3745204.22,633758.22,-7.98,9.19' WATER
1292,3745229.25,633757.05,-7.88,9.09' WATER
1293,3745254.75,633755.97,-7.88,9.09' WATER
1294,3745279.68,633755.33,-7.98,9.19' WATER
1295,3745304.71,633755.98,-7.88,9.09' WATER
1296,3745330.04,633758.18,-7.78,8.99' WATER
1297,3745355.83,633759.77,-8.07,9.28' WATER
1298,3745380.71,633758.74,-7.88,9.09' WATER
1299,3745405.57,633754.93,-7.98,9.19' WATER
1300,3745429.79,633749.03,-7.88,9.09' WATER
1301,3745453.95,633741.60,-7.88,9.09' WATER
1302,3745478.56,633732.46,-7.88,9.09' WATER
1303,3745502.42,633722.92,-7.88,9.09' WATER
1304,3745526.66,633715.82,-5.58,6.79' WATER
1305,3745551.34,633711.49,-7.98,9.19' WATER
1306,3745576.12,633709.41,-7.88,9.09' WATER
1307,3745601.36,633709.06,-7.88,9.09' WATER
1308,3745626.83,633709.86,-7.98,9.19' WATER
1309,3745651.85,633711.26,-7.88,9.09' WATER
1310,3745677.43,633712.57,-7.88,9.09' WATER
1311,3745702.35,633713.07,-7.78,8.99' WATER
1312,3745727.56,633711.70,-7.78,8.99' WATER
1313,3745752.40,633708.30,-7.78,8.99' WATER
1314,3745776.71,633703.02,-7.78,8.99' WATER
1315,3745801.40,633695.96,-7.78,8.99' WATER
1316,3745825.52,633687.73,-7.88,9.09' WATER
1317,3745849.62,633679.47,-7.78,8.99' WATER
1318,3745874.33,633673.20,-7.88,9.09' WATER
;
;
;TRANSECT 53
;1.21' TOP WATER 10-11-2011
1319,3740449.13,633848.45,-6.50,7.71' WATER
1320,3740474.06,633848.14,-9.19,10.40' WATER
1321,3740498.69,633839.05,-9.29,10.50' WATER
1322,3740522.20,633829.76,-9.39,10.60' WATER
1323,3740546.13,633817.82,-9.39,10.60' WATER
1324,3740569.69,633805.17,-9.29,10.50' WATER
1325,3740593.52,633793.90,-9.29,10.50' WATER
1326,3740617.89,633784.06,-9.29,10.50' WATER
1327,3740641.79,633775.76,-9.29,10.50' WATER

1328,3740666.58,633768.90,-9.29,10.50' WATER
1329,3740690.88,633763.39,-9.29,10.50' WATER
1330,3740715.49,633760.21,-9.39,10.60' WATER
1331,3740740.50,633759.01,-9.29,10.50' WATER
1332,3740766.10,633759.06,-9.29,10.50' WATER
1333,3740791.30,633761.07,-9.19,10.40' WATER
1334,3740816.11,633760.34,-9.29,10.50' WATER
1335,3740841.37,633757.91,-9.29,10.50' WATER
1336,3740866.12,633754.90,-9.29,10.50' WATER
1337,3740890.85,633750.99,-9.19,10.40' WATER
1338,3740915.57,633747.30,-9.19,10.40' WATER
1339,3740940.28,633745.00,-9.19,10.40' WATER
1340,3740965.68,633744.28,-9.29,10.50' WATER
1341,3740990.61,633743.91,-9.19,10.40' WATER
1342,3741016.05,633744.31,-9.29,10.50' WATER
1343,3741041.32,633745.91,-9.29,10.50' WATER
1344,3741066.52,633748.52,-9.19,10.40' WATER
1345,3741092.07,633749.02,-9.19,10.40' WATER
1346,3741117.04,633747.42,-9.19,10.40' WATER
1347,3741141.59,633743.95,-9.19,10.40' WATER
1348,3741166.10,633737.12,-9.19,10.40' WATER
1349,3741190.06,633729.69,-9.19,10.40' WATER
1350,3741214.54,633722.05,-9.19,10.40' WATER
1351,3741238.64,633714.81,-9.09,10.30' WATER
1352,3741263.36,633710.58,-8.99,10.20' WATER
1353,3741288.34,633707.54,-9.09,10.30' WATER
1354,3741313.38,633706.87,-9.09,10.30' WATER
1355,3741338.62,633707.41,-8.99,10.20' WATER
1356,3741364.04,633708.75,-9.09,10.30' WATER
1357,3741389.66,633711.91,-8.99,10.20' WATER
1358,3741414.70,633712.46,-9.09,10.30' WATER
1359,3741440.14,633712.78,-8.99,10.20' WATER
1360,3741464.86,633711.28,-9.09,10.30' WATER
1361,3741489.63,633707.44,-8.99,10.20' WATER
1362,3741514.36,633703.31,-9.09,10.30' WATER
1363,3741538.85,633698.08,-8.99,10.20' WATER
1364,3741563.66,633693.77,-8.99,10.20' WATER
1365,3741588.63,633690.54,-8.99,10.20' WATER
1366,3741613.40,633688.55,-8.99,10.20' WATER
1367,3741638.25,633687.14,-9.19,10.40' WATER
1368,3741663.21,633685.49,-8.99,10.20' WATER
1369,3741688.10,633682.74,-8.99,10.20' WATER
1370,3741713.02,633679.29,-8.99,10.20' WATER
1371,3741737.36,633675.05,-8.89,10.10' WATER
1372,3741762.38,633669.82,-8.99,10.20' WATER
1373,3741786.64,633665.92,-8.89,10.10' WATER
1374,3741811.57,633661.95,-6.40,7.61' WATER
1375,3741836.35,633658.76,-8.99,10.20' WATER
1376,3741861.38,633658.09,-8.99,10.20' WATER
1377,3741886.87,633658.17,-9.09,10.30' WATER
1378,3741911.87,633658.65,-9.19,10.40' WATER
1379,3741937.14,633659.31,-9.19,10.40' WATER
1380,3741962.34,633658.16,-9.09,10.30' WATER
1381,3741986.65,633653.87,-9.09,10.30' WATER
1382,3742011.72,633650.29,-9.09,10.30' WATER
1383,3742036.24,633644.82,-8.99,10.20' WATER
1384,3742060.36,633638.06,-9.09,10.30' WATER
1385,3742084.90,633631.36,-9.09,10.30' WATER
1386,3742109.18,633625.96,-9.09,10.30' WATER
1387,3742134.27,633622.10,-9.19,10.40' WATER
1388,3742159.18,633619.67,-8.99,10.20' WATER
1389,3742183.86,633617.88,-8.99,10.20' WATER
1390,3742209.21,633616.86,-9.09,10.30' WATER

1391,3742234.20,633616.22,-8.99,10.20' WATER
1392,3742259.18,633615.29,-9.09,10.30' WATER
1393,3742284.12,633614.36,-8.99,10.20' WATER
1394,3742309.29,633611.58,-8.99,10.20' WATER
1395,3742333.61,633608.42,-8.80,10.01' WATER
1396,3742358.73,633605.07,-8.70,9.91' WATER
1397,3742383.20,633601.33,-8.80,10.01' WATER
1398,3742408.10,633597.65,-8.80,10.01' WATER
1399,3742432.57,633593.49,-8.80,10.01' WATER
1400,3742457.55,633589.19,-8.70,9.91' WATER
1401,3742482.13,633586.04,-8.80,10.01' WATER
1402,3742507.29,633584.68,-8.80,10.01' WATER
1403,3742532.09,633583.66,-8.70,9.91' WATER
1404,3742557.56,633582.53,-6.30,7.51' WATER
1405,3742582.06,633580.50,-8.50,9.71' WATER
1406,3742607.03,633578.10,-8.50,9.71' WATER
1407,3742632.01,633575.39,-8.50,9.71' WATER
1408,3742656.98,633571.63,-8.60,9.81' WATER
1409,3742681.35,633566.94,-8.70,9.91' WATER
1410,3742705.98,633560.41,-8.70,9.91' WATER
1411,3742730.58,633555.29,-8.70,9.91' WATER
1412,3742755.17,633550.91,-8.80,10.01' WATER
1413,3742779.83,633547.28,-8.70,9.91' WATER
1414,3742804.90,633545.21,-8.80,10.01' WATER
1415,3742829.58,633544.41,-8.80,10.01' WATER
1416,3742854.88,633543.13,-8.70,9.91' WATER
1417,3742879.93,633541.20,-8.70,9.91' WATER
1418,3742904.63,633538.26,-8.70,9.91' WATER
1419,3742929.44,633534.13,-8.60,9.81' WATER
1420,3742953.81,633529.59,-8.50,9.71' WATER
1421,3742978.66,633526.07,-8.40,9.61' WATER
1422,3743003.54,633523.95,-8.07,9.28' WATER
1423,3743028.48,633523.11,-7.78,8.99' WATER
1424,3743053.91,633522.82,-7.68,8.89' WATER
1425,3743078.99,633522.14,-7.58,8.79' WATER
1426,3743104.04,633520.35,-7.58,8.79' WATER
1427,3743128.62,633517.55,-7.68,8.89' WATER
1428,3743153.22,633513.89,-7.88,9.09' WATER
1429,3743178.24,633509.21,-8.07,9.28' WATER
1430,3743202.56,633503.74,-8.21,9.42' WATER
1431,3743227.28,633499.08,-8.30,9.51' WATER
1432,3743251.87,633495.62,-5.88,7.09' WATER
1433,3743276.46,633492.50,-8.40,9.61' WATER
1434,3743301.49,633490.44,-8.50,9.71' WATER
1435,3743326.55,633489.43,-8.50,9.71' WATER
1436,3743351.66,633489.54,-8.50,9.71' WATER
1437,3743377.26,633489.93,-8.60,9.81' WATER
1438,3743402.27,633488.61,-8.50,9.71' WATER
1439,3743426.62,633485.11,-8.50,9.71' WATER
1440,3743451.44,633480.55,-8.60,9.81' WATER
1441,3743476.28,633475.23,-8.60,9.81' WATER
1442,3743500.64,633469.69,-8.60,9.81' WATER
1443,3743525.00,633465.47,-8.60,9.81' WATER
1444,3743549.96,633462.87,-8.60,9.81' WATER
1445,3743574.93,633460.79,-8.60,9.81' WATER
1446,3743599.99,633459.34,-8.60,9.81' WATER
1447,3743625.09,633458.64,-8.50,9.71' WATER
1448,3743650.17,633457.53,-8.50,9.71' WATER
1449,3743675.25,633455.19,-8.50,9.71' WATER
1450,3743699.90,633452.26,-8.50,9.71' WATER
1451,3743724.58,633449.49,-8.50,9.71' WATER
1452,3743749.92,633447.01,-8.50,9.71' WATER
1453,3743774.22,633444.41,-8.60,9.81' WATER

1454,3743799.00,633441.17,-8.50,9.71' WATER
1455,3743823.67,633436.93,-8.60,9.81' WATER
1456,3743848.55,633431.40,-8.50,9.71' WATER
1457,3743873.29,633426.72,-8.60,9.81' WATER
1458,3743897.92,633424.09,-8.70,9.91' WATER
1459,3743922.67,633422.41,-8.70,9.91' WATER
1460,3743947.97,633422.24,-8.80,10.01' WATER
1461,3743972.93,633421.72,-8.80,10.01' WATER
1462,3743998.09,633419.81,-8.99,10.20' WATER
1463,3744023.14,633418.94,-8.99,10.20' WATER
1464,3744048.08,633416.79,-9.09,10.30' WATER
1465,3744072.66,633413.38,-9.09,10.30' WATER
1466,3744097.52,633409.44,-9.19,10.40' WATER
1467,3744122.03,633404.73,-9.19,10.40' WATER
1468,3744146.64,633399.74,-9.19,10.40' WATER
1469,3744171.37,633395.60,-9.29,10.50' WATER
1470,3744196.37,633392.31,-9.29,10.50' WATER
1471,3744222.98,633390.27,-9.19,10.40' WATER
1472,3744246.26,633389.45,-9.09,10.30' WATER
1473,3744271.19,633389.81,-8.99,10.20' WATER
1474,3744296.64,633390.08,-8.89,10.10' WATER
1475,3744321.29,633386.55,-8.80,10.01' WATER
1476,3744346.18,633381.30,-8.80,10.01' WATER
1477,3744370.59,633375.50,-8.60,9.81' WATER
1478,3744394.65,633367.80,-8.50,9.71' WATER
1479,3744419.07,633360.68,-8.50,9.71' WATER
1480,3744443.54,633356.21,-8.50,9.71' WATER
1481,3744468.81,633354.65,-8.40,9.61' WATER
1482,3744493.82,633354.76,-8.40,9.61' WATER
1483,3744518.99,633356.44,-8.30,9.51' WATER
1484,3744544.63,633356.85,-8.40,9.61' WATER
1485,3744594.75,633355.86,-8.30,9.51' WATER
1486,3744619.38,633351.12,-8.21,9.42' WATER
1487,3744643.91,633344.88,-8.07,9.28' WATER
1488,3744668.11,633338.75,-8.07,9.28' WATER
1489,3744692.49,633332.51,-8.07,9.28' WATER
1490,3744717.18,633326.69,-8.07,9.28' WATER
1491,3744741.52,633322.26,-8.07,9.28' WATER
1492,3744766.70,633319.33,-8.07,9.28' WATER
1493,3744791.35,633316.81,-8.21,9.42' WATER
1494,3744816.54,633315.10,-5.68,6.89' WATER
1495,3744841.71,633314.16,-8.07,9.28' WATER
1496,3744866.37,633312.54,-8.07,9.28' WATER
1497,3744891.38,633309.49,-7.98,9.19' WATER
1498,3744915.77,633305.79,-8.07,9.28' WATER
1499,3744940.60,633301.68,-8.07,9.28' WATER
1500,3744965.42,633297.83,-7.98,9.19' WATER
1501,3744990.15,633295.04,-7.98,9.19' WATER
1502,3745015.30,633293.65,-7.98,9.19' WATER
1503,3745040.27,633294.12,-8.07,9.28' WATER
1504,3745065.65,633295.34,-7.88,9.09' WATER
1505,3745090.92,633294.53,-7.88,9.09' WATER
1506,3745115.64,633291.96,-7.78,8.99' WATER
1507,3745140.37,633288.01,-7.78,8.99' WATER
1508,3745164.91,633281.71,-7.88,9.09' WATER
1509,3745189.31,633275.41,-7.78,8.99' WATER
1510,3745213.84,633269.42,-7.78,8.99' WATER
1511,3745238.51,633263.57,-7.78,8.99' WATER
1512,3745263.21,633260.04,-7.78,8.99' WATER
1513,3745288.04,633258.29,-7.78,8.99' WATER
1514,3745312.99,633257.82,-7.68,8.89' WATER
1515,3745338.14,633258.02,-7.78,8.99' WATER
1516,3745363.52,633257.82,-7.78,8.99' WATER

1517,3745388.59,633255.83,-7.68,8.89' WATER
1518,3745412.88,633251.58,-5.48,6.69' WATER
1519,3745437.45,633245.43,-7.88,9.09' WATER
1520,3745461.92,633238.37,-7.78,8.99' WATER
1521,3745486.22,633232.43,-7.78,8.99' WATER
1522,3745510.95,633228.44,-8.07,9.28' WATER
1523,3745535.74,633226.33,-7.88,9.09' WATER
1524,3745561.06,633226.82,-7.88,9.09' WATER
1525,3745586.48,633227.73,-7.88,9.09' WATER
1526,3745611.97,633229.54,-7.88,9.09' WATER
1527,3745637.01,633231.80,-7.88,9.09' WATER
1528,3745662.60,633232.83,-7.88,9.09' WATER
1529,3745687.49,633230.24,-7.88,9.09' WATER
1530,3745711.90,633225.74,-7.88,9.09' WATER
1531,3745736.39,633220.35,-7.88,9.09' WATER
1532,3745760.71,633213.29,-7.88,9.09' WATER
1533,3745785.20,633205.26,-7.88,9.09' WATER
1534,3745809.61,633199.75,-7.98,9.19' WATER
1535,3745834.17,633195.67,-7.88,9.09' WATER
1536,3745859.21,633191.12,-5.58,6.79' WATER
1537,3745883.65,633188.07,-7.88,9.09' WATER
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;
;TRANSECT 54
;1.21' TOP WATER 10-11-2011
1538,3740281.17,633347.33,-9.29,10.50' WATER
1539,3740305.83,633341.82,-9.39,10.60' WATER
1540,3740330.33,633335.92,-9.29,10.50' WATER
1541,3740354.79,633331.16,-9.29,10.50' WATER
1542,3740379.50,633327.32,-9.39,10.60' WATER
1543,3740404.43,633324.32,-9.29,10.50' WATER
1544,3740428.94,633321.94,-9.29,10.50' WATER
1545,3740453.96,633319.68,-9.49,10.70' WATER
1546,3740478.93,633317.14,-9.39,10.60' WATER
1547,3740504.03,633314.72,-9.29,10.50' WATER
1548,3740528.71,633312.40,-9.29,10.50' WATER
1549,3740553.38,633309.76,-9.29,10.50' WATER
1550,3740578.42,633306.25,-9.29,10.50' WATER
1551,3740603.18,633301.43,-9.49,10.70' WATER
1552,3740627.46,633297.18,-9.39,10.60' WATER
1553,3740652.34,633293.66,-9.29,10.50' WATER
1554,3740677.20,633290.49,-9.29,10.50' WATER
1555,3740701.98,633287.58,-9.29,10.50' WATER
1556,3740751.91,633285.37,-9.29,10.50' WATER
1557,3740776.93,633284.77,-9.39,10.60' WATER
1558,3740802.40,633283.78,-9.29,10.50' WATER
1559,3740827.22,633282.12,-9.29,10.50' WATER
1560,3740851.92,633279.74,-9.29,10.50' WATER
1561,3740876.90,633276.50,-9.49,10.70' WATER
1562,3740901.77,633272.25,-9.29,10.50' WATER
1563,3740926.47,633268.19,-9.39,10.60' WATER
1564,3740951.02,633263.74,-9.29,10.50' WATER
1565,3740975.22,633258.56,-9.29,10.50' WATER
1566,3740999.99,633254.11,-9.39,10.60' WATER
1567,3741025.13,633251.84,-9.29,10.50' WATER
1568,3741050.30,633251.81,-9.29,10.50' WATER
1569,3741075.58,633252.15,-9.19,10.40' WATER
1570,3741100.44,633252.14,-9.29,10.50' WATER
1571,3741125.65,633251.03,-9.19,10.40' WATER
1572,3741150.55,633248.04,-9.29,10.50' WATER
1573,3741175.07,633243.20,-9.29,10.50' WATER
1574,3741199.35,633237.52,-9.19,10.40' WATER
1575,3741224.11,633231.79,-9.29,10.50' WATER

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1576,3741248.65,633225.37,-9.19,10.40' WATER
1577,3741272.68,633218.61,-9.19,10.40' WATER
1578,3741297.53,633214.36,-9.19,10.40' WATER
1579,3741322.13,633211.12,-9.09,10.30' WATER
1580,3741346.96,633208.34,-9.19,10.40' WATER
1581,3741371.80,633205.90,-9.19,10.40' WATER
1582,3741396.77,633204.35,-9.19,10.40' WATER
1583,3741421.88,633204.04,-9.09,10.30' WATER
1584,3741446.97,633203.81,-9.19,10.40' WATER
1585,3741472.36,633202.61,-9.19,10.40' WATER
1586,3741497.15,633199.51,-9.09,10.30' WATER
1587,3741522.13,633196.26,-9.19,10.40' WATER
1588,3741546.42,633192.34,-9.09,10.30' WATER
1589,3741571.11,633187.96,-9.09,10.30' WATER
1590,3741596.23,633184.35,-9.09,10.30' WATER
1591,3741620.89,633180.37,-8.99,10.20' WATER
1592,3741645.44,633178.02,-9.09,10.30' WATER
1593,3741670.65,633176.26,-9.19,10.40' WATER
1594,3741695.40,633174.76,-8.99,10.20' WATER
1595,3741720.89,633174.42,-9.09,10.30' WATER
1596,3741745.71,633172.38,-8.99,10.20' WATER
1597,3741770.47,633169.57,-9.09,10.30' WATER
1598,3741795.09,633166.07,-8.99,10.20' WATER
1599,3741819.98,633161.78,-9.09,10.30' WATER
1600,3741844.65,633157.08,-9.09,10.30' WATER
1601,3741868.96,633152.92,-8.99,10.20' WATER
1602,3741893.90,633149.20,-8.80,10.01' WATER
1603,3741918.94,633146.63,-8.99,10.20' WATER
1604,3741943.67,633145.53,-8.89,10.10' WATER
1605,3741969.13,633145.85,-8.89,10.10' WATER
1606,3741994.05,633146.36,-8.99,10.20' WATER
1607,3742019.69,633146.86,-8.99,10.20' WATER
1608,3742044.42,633145.55,-8.99,10.20' WATER
1609,3742069.28,633142.60,-8.99,10.20' WATER
1610,3742094.08,633138.31,-8.99,10.20' WATER
1611,3742118.53,633133.53,-9.09,10.30' WATER
1612,3742143.03,633129.29,-9.09,10.30' WATER
1613,3742167.77,633125.63,-8.99,10.20' WATER
1614,3742192.73,633122.32,-8.99,10.20' WATER
1615,3742217.48,633119.99,-8.99,10.20' WATER
1616,3742242.35,633117.57,-9.09,10.30' WATER
1617,3742267.66,633115.05,-8.99,10.20' WATER
1618,3742291.95,633112.63,-8.89,10.10' WATER
1619,3742317.27,633110.10,-8.89,10.10' WATER
1620,3742342.20,632806.89,-8.89,10.10' WATER
1621,3742366.70,633102.32,-8.99,10.20' WATER
1622,3742391.33,633096.72,-8.99,10.20' WATER
1623,3742415.80,633090.40,-8.99,10.20' WATER
1624,3742440.25,633085.17,-8.89,10.10' WATER
1625,3742465.01,633081.80,-8.99,10.20' WATER
1626,3742489.67,633079.95,-8.99,10.20' WATER
1627,3742514.86,633078.72,-8.99,10.20' WATER
1628,3742540.02,633079.50,-8.89,10.10' WATER
1629,3742565.13,633079.52,-8.89,10.10' WATER
1630,3742590.52,633077.98,-8.80,10.01' WATER
1631,3742615.21,633075.07,-8.89,10.10' WATER
1632,3742639.80,633071.93,-8.80,10.01' WATER
1633,3742664.86,633068.30,-8.99,10.20' WATER
1634,3742689.28,633063.49,-8.89,10.10' WATER
1635,3742713.87,633059.51,-8.89,10.10' WATER
1636,3742738.61,633055.82,-8.89,10.10' WATER
1637,3742763.38,633052.48,-8.89,10.10' WATER
1638,3742788.44,633050.03,-8.89,10.10' WATER
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1639,3742813.04,633047.75,-8.80,10.01' WATER
1640,3742838.20,633045.83,-8.70,9.91' WATER
1641,3742863.30,633043.18,-8.70,9.91' WATER
1642,3742887.64,633039.28,-8.70,9.91' WATER
1643,3742912.55,633035.23,-8.70,9.91' WATER
1644,3742936.96,633031.18,-8.80,10.01' WATER
1645,3742961.56,633026.28,-8.60,9.81' WATER
1646,3742986.45,633021.38,-8.60,9.81' WATER
1647,3743010.85,633017.10,-8.40,9.61' WATER
1648,3743035.88,633012.29,-8.30,9.51' WATER
1649,3743060.70,633009.23,-8.07,9.28' WATER
1650,3743085.42,633007.43,-7.88,9.09' WATER
1651,3743110.64,633005.82,-7.88,9.09' WATER
1652,3743135.76,633005.48,-7.88,9.09' WATER
1653,3743160.58,633005.73,-8.07,9.28' WATER
1654,3743185.74,633004.03,-8.21,9.42' WATER
1655,3743210.34,633001.48,-8.30,9.51' WATER
1656,3743235.24,632998.49,-8.40,9.61' WATER
1657,3743260.06,632995.28,-8.40,9.61' WATER
1658,3743284.92,632992.21,-8.50,9.71' WATER
1659,3743309.82,632989.82,-8.50,9.71' WATER
1660,3743335.06,632988.00,-8.50,9.71' WATER
1661,3743359.82,632986.05,-8.50,9.71' WATER
1662,3743384.50,632983.49,-8.60,9.81' WATER
1663,3743409.52,632980.16,-8.60,9.81' WATER
1664,3743434.26,632976.47,-8.60,9.81' WATER
1665,3743459.11,632972.95,-8.70,9.91' WATER
1666,3743483.78,632969.78,-8.60,9.81' WATER
1667,3743508.53,632967.14,-8.60,9.81' WATER
1668,3743533.58,632964.38,-8.60,9.81' WATER
1669,3743558.18,632961.67,-8.40,9.61' WATER
1670,3743583.14,632960.50,-8.40,9.61' WATER
1671,3743608.33,632959.21,-8.50,9.71' WATER
1672,3743633.14,632957.96,-8.21,9.42' WATER
1673,3743658.62,632957.05,-8.21,9.42' WATER
1674,3743683.48,632955.60,-8.40,9.61' WATER
1675,3743708.14,632953.32,-8.60,9.81' WATER
1676,3743732.87,632950.68,-8.60,9.81' WATER
1677,3743758.09,632947.91,-8.70,9.91' WATER
1678,3743782.89,632943.63,-8.50,9.71' WATER
1679,3743807.36,632938.80,-8.70,9.91' WATER
1680,3743831.97,632934.09,-8.50,9.71' WATER
1681,3743856.34,632928.91,-8.60,9.81' WATER
1682,3743881.22,632923.75,-8.60,9.81' WATER
1683,3743905.93,632920.96,-8.60,9.81' WATER
1684,3743930.80,632918.73,-8.70,9.91' WATER
1685,3743955.55,632915.82,-8.80,10.01' WATER
1686,3743980.56,632912.13,-8.89,10.10' WATER
1687,3744005.04,632908.58,-9.19,10.40' WATER
1688,3744029.82,632905.06,-8.99,10.20' WATER
1689,3744054.69,632900.91,-9.09,10.30' WATER
1690,3744079.09,632897.57,-9.19,10.40' WATER
1691,3744104.13,632894.57,-9.19,10.40' WATER
1692,3744128.71,632891.21,-9.29,10.50' WATER
1693,3744153.81,632889.45,-9.19,10.40' WATER
1694,3744178.56,632887.21,-9.19,10.40' WATER
1695,3744203.96,632885.41,-9.19,10.40' WATER
1696,3744228.47,632883.62,-9.19,10.40' WATER
1697,3744253.81,632880.94,-9.19,10.40' WATER
1698,3744278.60,632877.81,-8.99,10.20' WATER
1699,3744303.31,632874.29,-8.80,10.01' WATER
1700,3744327.89,632870.26,-8.89,10.10' WATER
1701,3744352.54,632866.81,-8.70,9.91' WATER
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1702,3744377.31,632863.85,-8.60,9.81' WATER
1703,3744402.16,632861.34,-8.60,9.81' WATER
1704,3744427.06,632859.02,-8.60,9.81' WATER
1705,3744452.00,632856.68,-8.40,9.61' WATER
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1713,3744650.98,632834.22,-8.30,9.51' WATER
1714,3744675.81,632830.87,-8.21,9.42' WATER
1715,3744700.53,632827.21,-8.30,9.51' WATER
1716,3744724.98,632822.73,-8.21,9.42' WATER
1717,3744749.52,632818.59,-8.30,9.51' WATER
1718,3744774.10,632814.51,-8.21,9.42' WATER
1719,3744799.12,632810.12,-8.21,9.42' WATER
1720,3744823.53,632805.78,-8.07,9.28' WATER
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1723,3744897.73,632794.74,-7.88,9.09' WATER
1724,3744922.68,632792.57,-7.88,9.09' WATER
1725,3744947.78,632790.90,-7.88,9.09' WATER
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1727,3744997.85,632787.08,-7.98,9.19' WATER
1728,3745022.65,632784.27,-8.07,9.28' WATER
1729,3745047.20,632780.47,-7.98,9.19' WATER
1730,3745072.03,632775.74,-7.98,9.19' WATER
1731,3745096.47,632771.87,-7.98,9.19' WATER
1732,3745121.52,632768.82,-8.07,9.28' WATER
1733,3745146.12,632766.19,-8.07,9.28' WATER
1734,3745171.27,632764.33,-8.07,9.28' WATER
1735,3745196.30,632763.80,-7.98,9.19' WATER
1736,3745221.31,632763.30,-8.07,9.28' WATER
1737,3745246.61,632764.00,-7.98,9.19' WATER
1738,3745271.89,632763.57,-8.07,9.28' WATER
1739,3745296.52,632761.94,-8.07,9.28' WATER
1740,3745321.46,632759.23,-8.07,9.28' WATER
1741,3745346.23,632755.53,-8.21,9.42' WATER
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1744,3745419.92,632740.38,-8.07,9.28' WATER
1745,3745444.56,632733.18,-7.98,9.19' WATER
1746,3745469.10,632728.30,-8.21,9.42' WATER
1747,3745493.71,632724.61,-8.21,9.42' WATER
1748,3745518.35,632721.99,-5.78,6.99' WATER
1749,3745543.81,632721.33,-8.07,9.28' WATER
1750,3745568.85,632721.45,-8.07,9.28' WATER
1751,3745594.01,632722.26,-7.98,9.19' WATER
1752,3745619.55,632723.57,-7.98,9.19' WATER
1753,3745644.41,632723.10,-7.98,9.19' WATER
1754,3745669.76,632722.23,-7.98,9.19' WATER
1755,3745694.55,632720.23,-7.98,9.19' WATER
1756,3745719.47,632716.97,-7.98,9.19' WATER
1757,3745743.68,632711.66,-7.98,9.19' WATER
1758,3745768.28,632703.05,-7.98,9.19' WATER
;
;
;TRANSECT 55
;1.21' TOP WATER 10-11-2011
1759,3740263.52,632844.08,-9.29,10.50' WATER
1760,3740288.78,632843.28,-9.19,10.40' WATER
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1761,3740313.65,632842.24,-9.29,10.50' WATER
1762,3740338.71,632840.14,-9.19,10.40' WATER
1763,3740363.12,632836.12,-9.29,10.50' WATER
1764,3740388.03,632831.54,-9.29,10.50' WATER
1765,3740412.32,632825.85,-9.39,10.60' WATER
1766,3740437.21,632820.34,-9.09,10.30' WATER
1767,3740461.37,632815.27,-9.29,10.50' WATER
1768,3740486.11,632811.18,-9.29,10.50' WATER
1769,3740510.83,632808.18,-9.29,10.50' WATER
1770,3740536.16,632805.21,-9.39,10.60' WATER
1771,3740560.87,632802.81,-9.39,10.60' WATER
1772,3740585.57,632800.53,-9.29,10.50' WATER
1773,3740610.72,632798.50,-9.29,10.50' WATER
1774,3740635.28,632795.63,-9.29,10.50' WATER
1775,3740660.23,632791.85,-9.49,10.70' WATER
1776,3740684.74,632788.51,-9.29,10.50' WATER
1777,3740709.70,632784.11,-9.58,10.79' WATER
1778,3740734.55,632780.64,-9.39,10.60' WATER
1779,3740759.34,632777.23,-9.39,10.60' WATER
1780,3740784.21,632774.07,-9.29,10.50' WATER
1781,3740809.02,632771.63,-9.29,10.50' WATER
1782,3740833.84,632770.52,-9.39,10.60' WATER
1783,3740859.11,632771.50,-9.29,10.50' WATER
1784,3740884.29,632772.03,-9.29,10.50' WATER
1785,3740909.64,632771.39,-9.39,10.60' WATER
1786,3740934.71,632769.95,-9.29,10.50' WATER
1787,3740959.28,632767.88,-9.39,10.60' WATER
1788,3740984.05,632763.91,-9.39,10.60' WATER
1789,3741008.75,632757.84,-9.39,10.60' WATER
1790,3741033.54,632749.90,-9.39,10.60' WATER
1791,3741056.80,632742.03,-9.29,10.50' WATER
1792,3741081.39,632733.17,-9.39,10.60' WATER
1793,3741105.59,632726.51,-9.39,10.60' WATER
1794,3741129.98,632721.31,-9.29,10.50' WATER
1795,3741155.05,632717.01,-9.39,10.60' WATER
1796,3741179.68,632715.40,-9.29,10.50' WATER
1797,3741204.92,632714.97,-9.39,10.60' WATER
1798,3741230.03,632716.13,-9.39,10.60' WATER
1799,3741255.66,632718.60,-9.29,10.50' WATER
1800,3741281.11,632722.24,-9.49,10.70' WATER
1801,3741306.59,632725.37,-9.29,10.50' WATER
1802,3741332.51,632728.01,-9.39,10.60' WATER
1803,3741357.52,632727.91,-9.29,10.50' WATER
1804,3741382.53,632726.32,-9.29,10.50' WATER
1805,3741407.09,632720.88,-9.39,10.60' WATER
1806,3741431.17,632712.61,-6.70,7.91' WATER
1807,3741455.48,632705.50,-9.29,10.50' WATER
1808,3741479.30,632695.02,-9.29,10.50' WATER
1809,3741503.02,632683.66,-9.19,10.40' WATER
1810,3741527.50,632674.19,-9.29,10.50' WATER
1811,3741551.74,632665.96,-9.19,10.40' WATER
1812,3741576.10,632659.82,-9.29,10.50' WATER
1813,3741600.93,632655.37,-9.29,10.50' WATER
1814,3741625.50,632654.18,-9.29,10.50' WATER
1815,3741650.97,632654.37,-9.19,10.40' WATER
1816,3741676.30,632656.75,-9.19,10.40' WATER
1817,3741702.12,632661.06,-9.19,10.40' WATER
1818,3741727.32,632664.18,-9.09,10.30' WATER
1819,3741752.48,632664.53,-9.29,10.50' WATER
1820,3741777.81,632663.51,-9.19,10.40' WATER
1821,3741802.66,632661.44,-9.29,10.50' WATER
1822,3741827.05,632656.29,-9.19,10.40' WATER
1823,3741851.57,632650.45,-9.29,10.50' WATER
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1824,3741876.35,632645.09,-9.19,10.40' WATER
1825,3741901.07,632640.87,-9.19,10.40' WATER
1826,3741926.00,632637.93,-6.60,7.81' WATER
1827,3741950.69,632637.33,-9.19,10.40' WATER
1828,3741976.37,632638.29,-9.19,10.40' WATER
1829,3742001.49,632640.49,-9.09,10.30' WATER
1830,3742026.67,632641.39,-9.09,10.30' WATER
1831,3742051.90,632641.84,-9.09,10.30' WATER
1832,3742077.36,632641.43,-9.09,10.30' WATER
1833,3742102.40,632639.89,-9.09,10.30' WATER
1834,3742126.81,632637.36,-9.09,10.30' WATER
1835,3742151.65,632632.03,-9.09,10.30' WATER
1836,3742175.83,632625.68,-9.09,10.30' WATER
1837,3742200.50,632619.10,-9.09,10.30' WATER
1838,3742225.23,632613.37,-8.99,10.20' WATER
1839,3742249.40,632607.51,-8.99,10.20' WATER
1840,3742273.99,632602.71,-9.09,10.30' WATER
1841,3742298.56,632599.21,-8.99,10.20' WATER
1842,3742323.76,632596.28,-9.09,10.30' WATER
1843,3742348.93,632595.13,-9.19,10.40' WATER
1844,3742373.62,632594.09,-8.99,10.20' WATER
1845,3742398.91,632592.14,-9.09,10.30' WATER
1846,3742423.64,632589.74,-8.99,10.20' WATER
1847,3742448.28,632586.80,-9.09,10.30' WATER
1848,3742472.79,632582.29,-8.99,10.20' WATER
1849,3742497.81,632577.03,-8.89,10.10' WATER
1850,3742522.22,632572.86,-8.99,10.20' WATER
1851,3742546.74,632569.42,-9.09,10.30' WATER
1852,3742571.92,632566.92,-8.99,10.20' WATER
1853,3742596.72,632565.59,-8.99,10.20' WATER
1854,3742622.06,632565.59,-8.99,10.20' WATER
1855,3742647.36,632566.05,-8.89,10.10' WATER
1856,3742672.62,632565.26,-8.89,10.10' WATER
1857,3742697.27,632564.76,-8.99,10.20' WATER
1858,3742722.34,632562.88,-8.89,10.10' WATER
1859,3742746.93,632559.40,-8.89,10.10' WATER
1860,3742772.10,632556.09,-8.99,10.20' WATER
1861,3742796.74,632551.70,-8.89,10.10' WATER
1862,3742821.31,632546.26,-8.99,10.20' WATER
1863,3742845.88,632541.02,-8.89,10.10' WATER
1864,3742870.52,632536.79,-8.89,10.10' WATER
1865,3742895.30,632532.57,-8.89,10.10' WATER
1866,3742920.02,632529.30,-8.89,10.10' WATER
1867,3742945.06,632528.43,-8.89,10.10' WATER
1868,3742970.03,632529.76,-8.80,10.01' WATER
1869,3742995.64,632530.23,-8.89,10.10' WATER
1870,3743020.40,632530.74,-8.80,10.01' WATER
1871,3743045.75,632529.53,-8.89,10.10' WATER
1872,3743070.85,632527.13,-8.80,10.01' WATER
1873,3743095.20,632524.40,-8.80,10.01' WATER
1874,3743120.24,632519.95,-8.80,10.01' WATER
1875,3743144.37,632513.94,-8.60,9.81' WATER
1876,3743168.78,632506.37,-8.60,9.81' WATER
1877,3743193.16,632499.71,-8.70,9.91' WATER
1878,3743217.53,632492.66,-8.70,9.91' WATER
1879,3743241.99,632485.87,-6.20,7.41' WATER
1880,3743266.54,632479.84,-8.60,9.81' WATER
1881,3743291.13,632475.03,-8.80,10.01' WATER
1882,3743315.70,632472.47,-8.80,10.01' WATER
1883,3743341.09,632471.32,-8.80,10.01' WATER
1884,3743365.87,632471.45,-8.80,10.01' WATER
1885,3743391.34,632472.11,-8.80,10.01' WATER
1886,3743416.18,632471.42,-8.80,10.01' WATER

1887,3743441.71,632469.90,-8.80,10.01' WATER
1888,3743466.63,632467.95,-8.70,9.91' WATER
1889,3743491.13,632465.52,-8.70,9.91' WATER
1890,3743515.99,632462.52,-8.80,10.01' WATER
1891,3743540.86,632458.29,-8.70,9.91' WATER
1892,3743565.59,632453.14,-8.70,9.91' WATER
1893,3743589.66,632448.25,-8.70,9.91' WATER
1894,3743614.24,632442.66,-8.60,9.81' WATER
1895,3743639.31,632438.43,-8.70,9.91' WATER
1896,3743664.18,632436.47,-8.70,9.91' WATER
1897,3743688.98,632436.56,-8.70,9.91' WATER
1898,3743714.48,632436.53,-8.40,9.61' WATER
1899,3743739.48,632438.13,-8.30,9.51' WATER
1900,3743764.62,632438.02,-8.50,9.71' WATER
1901,3743789.88,632436.28,-8.80,10.01' WATER
1902,3743814.60,632433.89,-8.80,10.01' WATER
1903,3743839.81,632430.26,-8.89,10.10' WATER
1904,3743864.29,632425.84,-8.89,10.10' WATER
1905,3743888.31,632418.49,-8.89,10.10' WATER
1906,3743912.88,632410.55,-8.89,10.10' WATER
1907,3743937.00,632403.82,-8.89,10.10' WATER
1908,3743961.34,632398.40,-8.80,10.01' WATER
1909,3743986.31,632393.61,-8.99,10.20' WATER
1910,3744010.85,632390.43,-9.09,10.30' WATER
1911,3744035.82,632389.07,-9.19,10.40' WATER
1912,3744061.26,632389.48,-9.29,10.50' WATER
1913,3744086.54,632390.12,-9.39,10.60' WATER
1914,3744111.90,632393.07,-9.39,10.60' WATER
1915,3744137.30,632394.67,-9.29,10.50' WATER
1916,3744162.24,632394.42,-9.39,10.60' WATER
1917,3744187.65,632393.17,-9.39,10.60' WATER
1918,3744212.75,632391.38,-9.29,10.50' WATER
1919,3744237.11,632389.01,-9.39,10.60' WATER
1920,3744261.91,632383.54,-9.29,10.50' WATER
1921,3744285.93,632376.16,-9.19,10.40' WATER
1922,3744310.51,632368.69,-8.99,10.20' WATER
1923,3744334.66,632362.43,-8.89,10.10' WATER
1924,3744359.44,632356.47,-8.80,10.01' WATER
1925,3744384.06,632350.40,-8.70,9.91' WATER
1926,3744408.62,632346.59,-8.60,9.81' WATER
1927,3744433.31,632344.23,-8.60,9.81' WATER
1928,3744458.65,632342.45,-8.60,9.81' WATER
1929,3744483.57,632341.10,-8.50,9.71' WATER
1930,3744508.96,632342.00,-8.50,9.71' WATER
1931,3744533.93,632343.43,-8.40,9.61' WATER
1932,3744559.51,632343.98,-8.40,9.61' WATER
1933,3744584.02,632342.57,-8.50,9.71' WATER
1934,3744609.04,632338.86,-8.50,9.71' WATER
1935,3744633.99,632335.00,-8.40,9.61' WATER
1936,3744658.39,632329.16,-8.40,9.61' WATER
1937,3744682.43,632321.97,-8.40,9.61' WATER
1938,3744706.86,632315.77,-8.40,9.61' WATER
1939,3744731.88,632310.97,-8.40,9.61' WATER
1940,3744756.49,632307.02,-8.30,9.51' WATER
1941,3744781.14,632304.65,-8.30,9.51' WATER
1942,3744806.29,632304.49,-8.30,9.51' WATER
1943,3744831.45,632306.14,-8.40,9.61' WATER
1944,3744857.23,632308.19,-8.40,9.61' WATER
1945,3744882.61,632309.03,-8.30,9.51' WATER
1946,3744907.22,632306.87,-8.30,9.51' WATER
1947,3744932.26,632301.90,-8.30,9.51' WATER
1948,3744956.72,632296.59,-8.40,9.61' WATER
1949,3744980.61,632288.83,-8.40,9.61' WATER

1950,3745005.15,632281.69,-8.30,9.51' WATER
1951,3745029.37,632276.28,-8.40,9.61' WATER
1952,3745054.18,632272.05,-8.30,9.51' WATER
1953,3745079.17,632270.01,-8.30,9.51' WATER
1954,3745104.26,632269.78,-8.30,9.51' WATER
1955,3745129.46,632270.99,-8.30,9.51' WATER
1956,3745155.09,632273.50,-8.21,9.42' WATER
1957,3745180.69,632276.59,-8.21,9.42' WATER
1958,3745205.97,632276.95,-8.21,9.42' WATER
1959,3745230.66,632275.44,-8.30,9.51' WATER
1960,3745255.34,632271.98,-8.30,9.51' WATER
1961,3745280.07,632267.11,-8.21,9.42' WATER
1962,3745304.40,632259.80,-8.21,9.42' WATER
1963,3745328.78,632252.22,-8.21,9.42' WATER
1964,3745353.30,632245.69,-8.21,9.42' WATER
1965,3745377.55,632237.39,-8.21,9.42' WATER
1966,3745401.81,632230.02,-8.21,9.42' WATER
1967,3745426.17,632225.12,-8.21,9.42' WATER
1968,3745451.00,632221.62,-8.07,9.28' WATER
1969,3745475.76,632218.30,-8.21,9.42' WATER
1970,3745500.80,632217.50,-8.07,9.28' WATER
1971,3745525.84,632217.61,-8.07,9.28' WATER
1972,3745551.05,632218.03,-7.98,9.19' WATER
1973,3745576.80,632219.24,-7.98,9.19' WATER
1974,3745601.98,632220.92,-8.07,9.28' WATER
1975,3745627.03,632221.01,-8.07,9.28' WATER
1976,3745652.13,632219.20,-7.98,9.19' WATER
1977,3745677.17,632216.14,-7.98,9.19' WATER
1978,3745701.84,632212.71,-7.88,9.09' WATER
1979,3745726.45,632208.54,-7.98,9.19' WATER
1980,3745751.04,632204.30,-7.98,9.19' WATER
;
;
;TRANSECT 56
;1.21' TOP WATER 10-11-2011
1981,3740095.16,632337.51,-9.29,10.50' WATER
1982,3740119.92,632333.79,-9.39,10.60' WATER
1983,3740144.43,632330.78,-9.29,10.50' WATER
1984,3740169.58,632328.19,-9.29,10.50' WATER
1985,3740194.40,632325.38,-9.39,10.60' WATER
1986,3740218.83,632321.26,-9.19,10.40' WATER
1987,3740243.57,632317.87,-9.29,10.50' WATER
1988,3740268.92,632317.24,-9.49,10.70' WATER
1989,3740293.99,632318.95,-9.29,10.50' WATER
1990,3740319.43,632321.14,-9.29,10.50' WATER
1991,3740345.01,632324.50,-9.29,10.50' WATER
1992,3740370.92,632328.38,-9.29,10.50' WATER
1993,3740396.48,632332.89,-9.19,10.40' WATER
1994,3740422.13,632336.35,-9.19,10.40' WATER
1995,3740447.46,632337.49,-9.29,10.50' WATER
1996,3740472.60,632337.88,-9.29,10.50' WATER
1997,3740497.39,632336.90,-9.39,10.60' WATER
1998,3740522.35,632335.54,-9.39,10.60' WATER
1999,3740547.24,632332.93,-9.29,10.50' WATER
2000,3740572.10,632329.22,-9.19,10.40' WATER
2001,3740597.07,632325.08,-9.19,10.40' WATER
2002,3740621.36,632320.67,-9.09,10.30' WATER
2003,3740646.14,632317.66,-9.39,10.60' WATER
2004,3740671.18,632315.77,-9.09,10.30' WATER
2005,3740696.03,632315.00,-9.29,10.50' WATER
2006,3740721.72,632315.18,-9.19,10.40' WATER
2007,3740746.64,632314.66,-9.19,10.40' WATER
2008,3740771.78,632314.89,-9.09,10.30' WATER

2009,3740796.83,632314.40,-9.29,10.50' WATER
2010,3740821.88,632312.04,-8.99,10.20' WATER
2011,3740846.64,632310.71,-9.19,10.40' WATER
2012,3740871.37,632306.52,-9.09,10.30' WATER
2013,3740895.94,632299.56,-9.09,10.30' WATER
2014,3740919.76,632291.03,-9.39,10.60' WATER
2015,3740944.21,632280.94,-9.09,10.30' WATER
2016,3740967.80,632268.67,-9.09,10.30' WATER
2017,3740991.27,632256.21,-9.29,10.50' WATER
2018,3741015.50,632245.48,-9.09,10.30' WATER
2019,3741039.30,632236.50,-8.99,10.20' WATER
2020,3741063.58,632229.05,-9.19,10.40' WATER
2021,3741088.45,632223.22,-9.19,10.40' WATER
2022,3741113.13,632219.32,-9.19,10.40' WATER
2023,3741137.93,632215.51,-9.09,10.30' WATER
2024,3741162.32,632212.55,-8.99,10.20' WATER
2025,3741187.40,632210.42,-9.09,10.30' WATER
2026,3741212.46,632208.92,-9.29,10.50' WATER
2027,3741237.63,632208.37,-9.29,10.50' WATER
2028,3741263.06,632209.73,-9.19,10.40' WATER
2029,3741287.80,632210.17,-9.19,10.40' WATER
2030,3741313.31,632211.05,-9.19,10.40' WATER
2031,3741338.48,632209.34,-9.09,10.30' WATER
2032,3741363.22,632205.44,-8.99,10.20' WATER
2033,3741387.12,632198.50,-9.09,10.30' WATER
2034,3741411.82,632190.09,-9.19,10.40' WATER
2035,3741435.43,632180.21,-9.09,10.30' WATER
2036,3741459.27,632169.05,-8.99,10.20' WATER
2037,3741483.56,632157.63,-9.19,10.40' WATER
2038,3741507.31,632146.54,-9.09,10.30' WATER
2039,3741530.93,632135.51,-8.99,10.20' WATER
2040,3741555.03,632124.75,-9.09,10.30' WATER
2041,3741578.87,632115.42,-9.19,10.40' WATER
2042,3741603.83,632109.41,-9.19,10.40' WATER
2043,3741627.90,632103.79,-9.09,10.30' WATER
2044,3741652.37,632097.65,-9.09,10.30' WATER
2045,3741677.26,632091.55,-9.09,10.30' WATER
2046,3741702.04,632088.25,-9.19,10.40' WATER
2047,3741727.19,632088.83,-9.09,10.30' WATER
2048,3741752.55,632090.66,-9.09,10.30' WATER
2049,3741777.93,632093.61,-9.09,10.30' WATER
2050,3741803.50,632096.91,-9.29,10.50' WATER
2051,3741829.02,632099.17,-9.09,10.30' WATER
2052,3741854.05,632101.17,-9.19,10.40' WATER
2053,3741879.59,632102.66,-8.99,10.20' WATER
2054,3741905.22,632104.26,-9.19,10.40' WATER
2055,3741930.15,632105.18,-8.99,10.20' WATER
2056,3741955.76,632106.23,-9.19,10.40' WATER
2057,3741980.68,632106.79,-9.09,10.30' WATER
2058,3742006.12,632106.14,-9.09,10.30' WATER
2059,3742030.96,632105.47,-9.09,10.30' WATER
2060,3742055.66,632103.95,-9.19,10.40' WATER
2061,3742080.81,632101.88,-6.60,7.81' WATER
2062,3742105.91,632099.11,-8.99,10.20' WATER
2063,3742130.52,632096.11,-9.09,10.30' WATER
2064,3742155.44,632092.49,-9.09,10.30' WATER
2065,3742179.80,632088.77,-9.19,10.40' WATER
2066,3742204.57,632084.49,-8.99,10.20' WATER
2067,3742229.35,632079.99,-9.09,10.30' WATER
2068,3742254.02,632075.34,-9.19,10.40' WATER
2069,3742278.77,632072.11,-9.09,10.30' WATER
2070,3742303.51,632069.02,-9.09,10.30' WATER
2071,3742328.56,632067.82,-9.09,10.30' WATER

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2072,3742353.81,632068.32,-9.09,10.30' WATER
2073,3742379.20,632069.27,-8.99,10.20' WATER
2074,3742404.63,632070.64,-9.09,10.30' WATER
2075,3742429.40,632071.14,-9.09,10.30' WATER
2076,3742454.67,632070.90,-8.99,10.20' WATER
2077,3742479.92,632070.16,-8.99,10.20' WATER
2078,3742505.20,632069.36,-9.09,10.30' WATER
2079,3742529.76,632067.90,-8.89,10.10' WATER
2080,3742554.95,632065.99,-8.99,10.20' WATER
2081,3742580.02,632064.35,-8.89,10.10' WATER
2082,3742604.61,632062.81,-8.80,10.01' WATER
2083,3742629.87,632061.58,-8.80,10.01' WATER
2084,3742655.19,632060.60,-8.89,10.10' WATER
2085,3742679.88,632059.68,-8.80,10.01' WATER
2086,3742705.21,632058.90,-8.80,10.01' WATER
2087,3742729.88,632058.01,-8.89,10.10' WATER
2088,3742755.10,632056.72,-8.89,10.10' WATER
2089,3742780.29,632055.32,-8.89,10.10' WATER
2090,3742804.89,632054.19,-8.89,10.10' WATER
2091,3742830.18,632053.50,-8.99,10.20' WATER
2092,3742855.49,632052.48,-8.99,10.20' WATER
2093,3742880.21,632051.55,-8.89,10.10' WATER
2094,3742905.61,632050.36,-8.89,10.10' WATER
2095,3742930.32,632048.68,-8.99,10.20' WATER
2096,3742955.25,632047.69,-8.99,10.20' WATER
2097,3742980.67,632046.77,-8.99,10.20' WATER
2098,3743005.44,632045.37,-8.89,10.10' WATER
2099,3743030.33,632042.00,-8.89,10.10' WATER
2100,3743054.76,632038.77,-8.80,10.01' WATER
2101,3743079.46,632034.18,-8.70,9.91' WATER
2102,3743104.40,632028.31,-8.60,9.81' WATER
2103,3743128.38,632021.43,-8.40,9.61' WATER
2104,3743152.86,632014.21,-8.40,9.61' WATER
2105,3743177.02,632006.34,-8.40,9.61' WATER
2106,3743201.40,631997.70,-8.50,9.71' WATER
2107,3743225.24,631989.08,-8.60,9.81' WATER
2108,3743249.51,631980.24,-8.60,9.81' WATER
2109,3743273.91,631971.51,-8.80,10.01' WATER
2110,3743297.60,631962.51,-8.89,10.10' WATER
2111,3743321.82,631953.17,-8.80,10.01' WATER
2112,3743346.13,631944.17,-8.80,10.01' WATER
2113,3743370.18,631935.86,-8.89,10.10' WATER
2114,3743394.56,631928.36,-8.89,10.10' WATER
2115,3743418.92,631922.37,-8.89,10.10' WATER
2116,3743443.40,631916.35,-8.89,10.10' WATER
2117,3743468.03,631910.88,-8.80,10.01' WATER
2118,3743492.30,631905.72,-8.80,10.01' WATER
2119,3743517.10,631901.12,-8.80,10.01' WATER
2120,3743541.83,631895.67,-8.80,10.01' WATER
2121,3743566.54,631890.47,-8.70,9.91' WATER
2122,3743590.91,631887.09,-8.60,9.81' WATER
2123,3743615.83,631883.44,-8.70,9.91' WATER
2124,3743640.36,631880.50,-8.60,9.81' WATER
2125,3743665.52,631878.31,-8.60,9.81' WATER
2126,3743690.85,631878.33,-8.40,9.61' WATER
2127,3743716.16,631878.71,-8.40,9.61' WATER
2128,3743741.59,631880.73,-8.50,9.71' WATER
2129,3743767.10,631884.06,-8.60,9.81' WATER
2130,3743792.71,631888.08,-8.70,9.91' WATER
2131,3743818.32,631892.43,-8.80,10.01' WATER
2132,3743843.94,631897.50,-8.89,10.10' WATER
2133,3743869.56,631903.09,-8.89,10.10' WATER
2134,3743895.23,631907.77,-8.89,10.10' WATER
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2135,3743921.05,631912.75,-8.99,10.20' WATER
2136,3743946.86,631917.03,-8.99,10.20' WATER
2137,3743972.77,631921.24,-9.09,10.30' WATER
2138,3743997.81,631923.91,-9.19,10.40' WATER
2139,3744023.56,631927.02,-9.29,10.50' WATER
2140,3744048.68,631929.27,-9.39,10.60' WATER
2141,3744074.23,631930.06,-9.39,10.60' WATER
2142,3744099.33,631927.83,-9.39,10.60' WATER
2143,3744123.91,631925.49,-9.49,10.70' WATER
2144,3744148.72,631921.82,-6.80,8.01' WATER
2145,3744173.22,631916.43,-9.39,10.60' WATER
2146,3744197.52,631910.42,-9.29,10.50' WATER
2147,3744222.47,631904.38,-9.39,10.60' WATER
2148,3744247.09,631899.35,-9.19,10.40' WATER
2149,3744271.29,631894.26,-9.29,10.50' WATER
2150,3744295.99,631888.77,-9.19,10.40' WATER
2151,3744320.49,631882.47,-8.89,10.10' WATER
2152,3744344.96,631876.22,-8.89,10.10' WATER
2153,3744369.52,631870.46,-8.70,9.91' WATER
2154,3744393.52,631864.85,-8.70,9.91' WATER
2155,3744418.20,631859.51,-8.50,9.71' WATER
2156,3744442.98,631854.64,-8.40,9.61' WATER
2157,3744467.75,631849.87,-8.40,9.61' WATER
2158,3744492.01,631845.31,-8.50,9.71' WATER
2159,3744516.82,631840.57,-8.40,9.61' WATER
2160,3744541.72,631836.01,-8.30,9.51' WATER
2161,3744565.91,631831.23,-8.40,9.61' WATER
2162,3744590.64,631826.51,-8.21,9.42' WATER
2163,3744615.27,631821.32,-8.40,9.61' WATER
2164,3744639.67,631815.20,-8.30,9.51' WATER
2165,3744663.93,631808.28,-8.21,9.42' WATER
2166,3744688.54,631800.56,-8.21,9.42' WATER
2167,3744712.69,631793.17,-8.21,9.42' WATER
2168,3744737.17,631786.47,-8.21,9.42' WATER
2169,3744761.42,631780.91,-8.21,9.42' WATER
2170,3744785.99,631775.59,-8.40,9.61' WATER
2171,3744810.73,631770.41,-8.30,9.51' WATER
2172,3744835.25,631765.43,-8.40,9.61' WATER
2173,3744859.83,631760.73,-8.30,9.51' WATER
2174,3744884.32,631755.75,-8.30,9.51' WATER
2175,3744909.21,631750.14,-8.21,9.42' WATER
2176,3744933.72,631744.14,-8.21,9.42' WATER
2177,3744957.79,631737.76,-8.21,9.42' WATER
2178,3744982.49,631730.76,-8.07,9.28' WATER
2179,3745006.52,631724.07,-8.40,9.61' WATER
2180,3745031.17,631718.34,-8.30,9.51' WATER
2181,3745055.97,631713.23,-8.40,9.61' WATER
2182,3745080.40,631709.06,-8.40,9.61' WATER
2183,3745104.98,631705.71,-8.40,9.61' WATER
2184,3745129.99,631703.90,-8.40,9.61' WATER
2185,3745155.12,631702.14,-8.40,9.61' WATER
2186,3745179.95,631698.93,-8.40,9.61' WATER
2187,3745204.85,631696.85,-8.40,9.61' WATER
2188,3745229.91,631695.97,-8.40,9.61' WATER
2189,3745255.03,631695.23,-8.40,9.61' WATER
2190,3745280.12,631693.85,-8.50,9.71' WATER
2191,3745305.40,631693.94,-8.30,9.51' WATER
2192,3745330.29,631695.16,-8.40,9.61' WATER
2193,3745355.64,631696.49,-8.30,9.51' WATER
2194,3745380.98,631697.87,-8.40,9.61' WATER
2195,3745406.53,631698.25,-8.30,9.51' WATER
2196,3745431.43,631697.29,-8.21,9.42' WATER
2197,3745456.42,631696.58,-8.40,9.61' WATER
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2198,3745481.08,631693.03,-8.40,9.61' WATER
2199,3745505.61,631686.61,-8.30,9.51' WATER
2200,3745529.65,631677.90,-8.30,9.51' WATER
2201,3745554.01,631667.91,-8.30,9.51' WATER
2202,3745577.58,631657.49,-8.21,9.42' WATER
2203,3745601.75,631645.82,-8.30,9.51' WATER
2204,3745625.52,631636.67,-8.21,9.42' WATER
;
;
;TRANSECT 57
;1.21' TOP WATER 10-11-2011
2205,3740082.69,631878.30,-9.39,10.60' WATER
2206,3740107.14,631873.13,-9.19,10.40' WATER
2207,3740132.07,631869.11,-9.29,10.50' WATER
2208,3740156.62,631866.63,-9.29,10.50' WATER
2209,3740181.46,631864.20,-9.39,10.60' WATER
2210,3740206.59,631861.39,-9.29,10.50' WATER
2211,3740231.38,631858.80,-9.19,10.40' WATER
2212,3740255.89,631855.25,-9.29,10.50' WATER
2213,3740280.69,631851.05,-9.29,10.50' WATER
2214,3740305.30,631846.39,-9.29,10.50' WATER
2215,3740329.90,631841.05,-9.19,10.40' WATER
2216,3740354.40,631836.08,-9.29,10.50' WATER
2217,3740378.92,631831.12,-9.29,10.50' WATER
2218,3740403.74,631826.42,-9.19,10.40' WATER
2219,3740428.72,631822.16,-9.29,10.50' WATER
2220,3740452.91,631818.20,-9.29,10.50' WATER
2221,3740477.61,631814.05,-9.29,10.50' WATER
2222,3740502.75,631809.75,-9.29,10.50' WATER
2223,3740527.17,631805.83,-9.19,10.40' WATER
2224,3740551.93,631802.81,-9.19,10.40' WATER
2225,3740576.78,631799.82,-9.29,10.50' WATER
2226,3740602.00,631797.22,-9.19,10.40' WATER
2227,3740626.66,631794.60,-9.29,10.50' WATER
2228,3740651.24,631792.88,-9.19,10.40' WATER
2229,3740676.48,631790.80,-9.19,10.40' WATER
2230,3740701.14,631788.91,-9.19,10.40' WATER
2231,3740726.38,631786.76,-9.19,10.40' WATER
2232,3740751.47,631785.43,-9.29,10.50' WATER
2233,3740776.13,631784.07,-9.29,10.50' WATER
2234,3740801.51,631783.18,-9.19,10.40' WATER
2235,3740826.30,631782.20,-9.19,10.40' WATER
2236,3740851.70,631781.26,-9.19,10.40' WATER
2237,3740876.58,631780.86,-9.19,10.40' WATER
2238,3740901.99,631780.62,-9.09,10.30' WATER
2239,3740927.21,631781.93,-9.19,10.40' WATER
2240,3740952.45,631783.47,-9.19,10.40' WATER
2241,3740978.05,631786.29,-9.19,10.40' WATER
2242,3741003.14,631788.29,-9.19,10.40' WATER
2243,3741029.01,631792.11,-9.19,10.40' WATER
2244,3741054.51,631798.50,-9.19,10.40' WATER
2245,3741081.05,631806.76,-9.19,10.40' WATER
2246,3741106.88,631812.22,-9.09,10.30' WATER
2247,3741132.33,631813.54,-9.19,10.40' WATER
2248,3741156.95,631809.37,-9.09,10.30' WATER
2249,3741181.38,631804.63,-9.09,10.30' WATER
2250,3741205.59,631795.20,-9.09,10.30' WATER
2251,3741229.44,631787.64,-9.09,10.30' WATER
2252,3741253.66,631777.33,-9.19,10.40' WATER
2253,3741277.72,631768.93,-9.19,10.40' WATER
2254,3741302.27,631760.09,-9.19,10.40' WATER
2255,3741326.69,631753.39,-9.19,10.40' WATER
2256,3741350.69,631747.51,-9.09,10.30' WATER
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2257,3741375.35,631741.86,-9.19,10.40' WATER
2258,3741399.74,631736.30,-9.19,10.40' WATER
2259,3741424.54,631731.19,-9.19,10.40' WATER
2260,3741449.29,631726.46,-9.19,10.40' WATER
2261,3741473.74,631723.58,-9.09,10.30' WATER
2262,3741498.79,631719.88,-9.19,10.40' WATER
2263,3741523.26,631715.41,-9.09,10.30' WATER
2264,3741547.68,631709.81,-8.99,10.20' WATER
2265,3741572.27,631702.83,-9.09,10.30' WATER
2266,3741596.77,631695.61,-9.19,10.40' WATER
2267,3741621.02,631688.99,-9.09,10.30' WATER
2268,3741645.16,631682.41,-9.19,10.40' WATER
2269,3741669.52,631676.24,-9.09,10.30' WATER
2270,3741694.16,631670.61,-9.09,10.30' WATER
2271,3741718.91,631666.59,-9.09,10.30' WATER
2272,3741743.78,631662.96,-9.09,10.30' WATER
2273,3741768.71,631660.41,-9.09,10.30' WATER
2274,3741793.55,631657.07,-9.09,10.30' WATER
2275,3741817.96,631654.69,-8.99,10.20' WATER
2276,3741842.89,631652.11,-9.09,10.30' WATER
2277,3741867.82,631650.17,-9.19,10.40' WATER
2278,3741892.68,631647.62,-9.09,10.30' WATER
2279,3741917.47,631644.56,-9.19,10.40' WATER
2280,3741942.25,631641.30,-9.19,10.40' WATER
2281,3741967.13,631638.23,-9.19,10.40' WATER
2282,3741992.11,631635.49,-9.19,10.40' WATER
2283,3742017.14,631632.70,-9.19,10.40' WATER
2284,3742042.15,631629.73,-9.09,10.30' WATER
2285,3742066.48,631626.52,-9.19,10.40' WATER
2286,3742091.21,631622.27,-9.19,10.40' WATER
2287,3742115.81,631617.56,-9.19,10.40' WATER
2288,3742140.40,631611.44,-9.19,10.40' WATER
2289,3742165.03,631605.52,-9.09,10.30' WATER
2290,3742189.16,631600.34,-9.09,10.30' WATER
2291,3742213.87,631594.96,-9.19,10.40' WATER
2292,3742238.58,631589.67,-9.09,10.30' WATER
2293,3742263.08,631583.49,-9.19,10.40' WATER
2294,3742287.43,631576.63,-8.99,10.20' WATER
2295,3742311.32,631567.85,-9.09,10.30' WATER
2296,3742335.89,631559.46,-9.19,10.40' WATER
2297,3742359.67,631550.52,-9.09,10.30' WATER
2298,3742384.19,631541.73,-8.99,10.20' WATER
2299,3742408.29,631534.63,-9.09,10.30' WATER
2300,3742433.23,631530.11,-9.09,10.30' WATER
2301,3742457.67,631526.18,-8.99,10.20' WATER
2302,3742482.44,631524.22,-9.09,10.30' WATER
2303,3742507.46,631522.79,-9.09,10.30' WATER
2304,3742532.35,631521.21,-9.09,10.30' WATER
2305,3742557.96,631521.50,-9.09,10.30' WATER
2306,3742582.94,631520.88,-9.19,10.40' WATER
2307,3742607.94,631520.32,-9.19,10.40' WATER
2308,3742632.93,631518.69,-9.19,10.40' WATER
2309,3742657.93,631516.80,-9.09,10.30' WATER
2310,3742683.02,631514.93,-9.19,10.40' WATER
2311,3742708.08,631513.20,-9.09,10.30' WATER
2312,3742732.65,631511.32,-8.99,10.20' WATER
2313,3742757.73,631509.00,-8.89,10.10' WATER
2314,3742782.63,631506.88,-8.99,10.20' WATER
2315,3742807.56,631505.20,-8.99,10.20' WATER
2316,3742832.40,631503.59,-9.09,10.30' WATER
2317,3742857.30,631501.83,-9.19,10.40' WATER
2318,3742882.35,631500.35,-9.09,10.30' WATER
2319,3742907.37,631499.03,-9.09,10.30' WATER
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2320,3742932.44,631497.70,-9.19,10.40' WATER
2321,3742957.74,631496.70,-9.09,10.30' WATER
2322,3742982.38,631495.70,-9.19,10.40' WATER
2323,3743007.64,631494.85,-9.09,10.30' WATER
2324,3743032.82,631493.73,-9.09,10.30' WATER
2325,3743057.81,631492.68,-9.09,10.30' WATER
2326,3743082.75,631492.10,-9.09,10.30' WATER
2327,3743108.12,631492.96,-8.99,10.20' WATER
2328,3743133.47,631494.40,-8.99,10.20' WATER
2329,3743158.87,631494.73,-8.89,10.10' WATER
2330,3743183.53,631494.12,-8.89,10.10' WATER
2331,3743209.00,631493.25,-8.89,10.10' WATER
2332,3743233.96,631491.87,-8.89,10.10' WATER
2333,3743258.97,631490.34,-8.89,10.10' WATER
2334,3743283.79,631489.66,-8.89,10.10' WATER
2335,3743309.48,631490.71,-8.89,10.10' WATER
2336,3743334.65,631491.40,-8.89,10.10' WATER
2337,3743359.75,631490.93,-8.89,10.10' WATER
2338,3743384.20,631488.60,-8.89,10.10' WATER
2339,3743409.47,631486.17,-8.89,10.10' WATER
2340,3743434.26,631482.57,-8.80,10.01' WATER
2341,3743458.90,631479.64,-8.99,10.20' WATER
2342,3743483.69,631476.77,-8.80,10.01' WATER
2343,3743508.99,631475.18,-8.80,10.01' WATER
2344,3743533.61,631474.07,-8.80,10.01' WATER
2345,3743558.86,631472.76,-8.80,10.01' WATER
2346,3743583.62,631470.76,-8.80,10.01' WATER
2347,3743608.45,631468.37,-8.80,10.01' WATER
2348,3743633.31,631465.65,-8.70,9.91' WATER
2349,3743658.12,631461.06,-8.70,9.91' WATER
2350,3743682.78,631455.20,-8.60,9.81' WATER
2351,3743706.89,631449.78,-8.60,9.81' WATER
2352,3743731.42,631443.31,-8.60,9.81' WATER
2353,3743756.11,631437.45,-8.50,9.71' WATER
2354,3743780.61,631430.84,-8.60,9.81' WATER
2355,3743805.12,631424.96,-8.60,9.81' WATER
2356,3743829.50,631420.27,-8.70,9.91' WATER
2357,3743853.94,631416.41,-8.80,10.01' WATER
2358,3743878.93,631413.28,-8.80,10.01' WATER
2359,3743903.95,631409.35,-8.99,10.20' WATER
2360,3743928.42,631405.67,-9.09,10.30' WATER
2361,3743953.54,631403.04,-9.19,10.40' WATER
2362,3743978.15,631400.08,-9.19,10.40' WATER
2363,3744002.85,631397.42,-9.39,10.60' WATER
2364,3744028.10,631394.84,-9.39,10.60' WATER
2365,3744052.81,631392.01,-9.39,10.60' WATER
2366,3744077.66,631389.36,-9.49,10.70' WATER
2367,3744102.45,631386.67,-9.49,10.70' WATER
2368,3744127.22,631383.61,-9.49,10.70' WATER
2369,3744151.95,631380.16,-9.49,10.70' WATER
2370,3744177.08,631376.61,-9.49,10.70' WATER
2371,3744201.58,631373.22,-9.39,10.60' WATER
2372,3744226.20,631369.82,-9.49,10.70' WATER
2373,3744250.91,631366.44,-9.29,10.50' WATER
2374,3744275.68,631363.54,-9.49,10.70' WATER
2375,3744301.06,631361.74,-9.29,10.50' WATER
2376,3744325.76,631360.58,-9.39,10.60' WATER
2377,3744351.15,631358.91,-9.09,10.30' WATER
2378,3744375.83,631357.69,-8.99,10.20' WATER
2379,3744400.97,631356.60,-8.99,10.20' WATER
2380,3744425.99,631356.28,-8.89,10.10' WATER
2381,3744450.99,631354.88,-8.89,10.10' WATER
2382,3744475.93,631352.48,-8.89,10.10' WATER

2383,3744500.81,631348.83,-8.80,10.01' WATER
2384,3744525.71,631345.04,-8.89,10.10' WATER
2385,3744549.88,631340.26,-8.80,10.01' WATER
2386,3744574.77,631335.22,-8.80,10.01' WATER
2387,3744599.07,631330.41,-8.80,10.01' WATER
2388,3744623.93,631324.25,-8.70,9.91' WATER
2389,3744647.97,631318.01,-8.80,10.01' WATER
2390,3744672.35,631310.18,-8.60,9.81' WATER
2391,3744696.83,631303.30,-8.80,10.01' WATER
2392,3744721.44,631298.34,-8.60,9.81' WATER
2393,3744746.20,631295.94,-8.60,9.81' WATER
2394,3744771.22,631294.76,-8.80,10.01' WATER
2395,3744796.37,631293.36,-8.70,9.91' WATER
2396,3744821.76,631294.07,-8.60,9.81' WATER
2397,3744847.01,631294.56,-8.60,9.81' WATER
2398,3744872.18,631297.05,-8.70,9.91' WATER
2399,3744897.90,631299.20,-8.60,9.81' WATER
2400,3744922.95,631299.59,-8.50,9.71' WATER
2401,3744948.01,631298.85,-8.40,9.61' WATER
2402,3744973.12,631297.45,-8.30,9.51' WATER
2403,3744998.15,631295.90,-8.30,9.51' WATER
2404,3745022.53,631293.29,-8.21,9.42' WATER
2405,3745047.48,631290.55,-8.21,9.42' WATER
2406,3745072.42,631286.38,-8.30,9.51' WATER
2407,3745096.78,631281.74,-8.40,9.61' WATER
2408,3745121.71,631277.38,-8.50,9.71' WATER
2409,3745145.97,631271.92,-8.50,9.71' WATER
2410,3745170.69,631266.43,-8.40,9.61' WATER
2411,3745195.10,631259.06,-8.50,9.71' WATER
2412,3745219.41,631251.67,-8.40,9.61' WATER
2413,3745243.82,631245.39,-8.40,9.61' WATER
2414,3745268.24,631239.19,-8.40,9.61' WATER
2415,3745292.81,631233.22,-8.40,9.61' WATER
2416,3745316.90,631227.35,-8.40,9.61' WATER
2417,3745341.69,631220.98,-8.40,9.61' WATER
2418,3745365.77,631214.44,-8.30,9.51' WATER
2419,3745390.46,631208.42,-8.40,9.61' WATER
2420,3745414.95,631205.67,-8.30,9.51' WATER
2421,3745440.04,631203.36,-8.21,9.42' WATER
2422,3745465.16,631203.11,-8.30,9.51' WATER
2423,3745490.63,631203.00,-8.30,9.51' WATER
2424,3745515.55,631202.05,-8.30,9.51' WATER
2425,3745540.64,631201.83,-8.30,9.51' WATER
2426,3745565.63,631201.30,-8.30,9.51' WATER
2427,3745591.22,631202.14,-8.30,9.51' WATER
2428,3745616.09,631203.71,-8.30,9.51' WATER
2429,3745641.50,631204.94,-8.21,9.42' WATER
2430,3745666.83,631207.12,-8.21,9.42' WATER
2431,3745692.21,631209.30,-8.21,9.42' WATER
;
;
;TRANSECT 58
;1.21' TOP WATER 10-11-2011
2432,3739935.25,631338.74,-9.29,10.50' WATER
2433,3739961.35,631346.27,-9.39,10.60' WATER
2434,3739987.62,631356.33,-9.29,10.50' WATER
2435,3740013.49,631363.49,-9.29,10.50' WATER
2436,3740039.35,631368.61,-9.39,10.60' WATER
2437,3740064.72,631371.26,-9.39,10.60' WATER
2438,3740089.92,631371.29,-9.29,10.50' WATER
2439,3740115.21,631370.67,-9.39,10.60' WATER
2440,3740139.82,631367.89,-9.29,10.50' WATER
2441,3740164.42,631363.36,-9.39,10.60' WATER

2442,3740188.78,631355.53,-9.39,10.60' WATER
2443,3740212.96,631345.35,-9.29,10.50' WATER
2444,3740236.80,631333.07,-9.29,10.50' WATER
2445,3740260.21,631318.28,-9.39,10.60' WATER
2446,3740283.91,631306.60,-9.29,10.50' WATER
2447,3740307.92,631295.42,-9.29,10.50' WATER
2448,3740332.32,631289.00,-9.39,10.60' WATER
2449,3740356.87,631285.19,-9.39,10.60' WATER
2450,3740381.96,631283.70,-9.29,10.50' WATER
2451,3740407.29,631284.20,-6.60,7.81' WATER
2452,3740432.50,631286.49,-9.39,10.60' WATER
2453,3740457.83,631289.19,-9.29,10.50' WATER
2454,3740483.67,631291.42,-9.39,10.60' WATER
2455,3740508.55,631292.79,-9.39,10.60' WATER
2456,3740533.91,631294.04,-9.29,10.50' WATER
2457,3740559.01,631293.20,-9.29,10.50' WATER
2458,3740583.86,631290.83,-9.29,10.50' WATER
2459,3740609.06,631287.69,-9.29,10.50' WATER
2460,3740633.71,631284.38,-9.29,10.50' WATER
2461,3740658.15,631280.90,-6.70,7.91' WATER
2462,3740683.05,631277.05,-9.29,10.50' WATER
2463,3740707.88,631272.89,-9.29,10.50' WATER
2464,3740732.31,631268.57,-9.29,10.50' WATER
2465,3740757.20,631264.52,-9.39,10.60' WATER
2466,3740781.74,631260.71,-9.29,10.50' WATER
2467,3740806.79,631256.96,-9.39,10.60' WATER
2468,3740831.36,631253.33,-9.29,10.50' WATER
2469,3740855.88,631249.70,-9.29,10.50' WATER
2470,3740880.93,631246.16,-9.49,10.70' WATER
2471,3740905.53,631243.04,-9.29,10.50' WATER
2472,3740930.62,631239.90,-9.29,10.50' WATER
2473,3740955.34,631236.91,-9.39,10.60' WATER
2474,3740980.16,631234.14,-9.29,10.50' WATER
2475,3741005.11,631231.94,-9.29,10.50' WATER
2476,3741029.84,631228.73,-9.39,10.60' WATER
2477,3741054.26,631224.62,-9.29,10.50' WATER
2478,3741078.97,631219.53,-9.29,10.50' WATER
2479,3741103.52,631214.04,-9.29,10.50' WATER
2480,3741128.20,631209.08,-9.29,10.50' WATER
2481,3741153.20,631205.76,-9.39,10.60' WATER
2482,3741177.97,631203.57,-9.29,10.50' WATER
2483,3741202.66,631201.05,-9.29,10.50' WATER
2484,3741227.54,631196.82,-9.29,10.50' WATER
2485,3741251.63,631189.58,-9.29,10.50' WATER
2486,3741275.74,631180.74,-9.29,10.50' WATER
2487,3741299.99,631171.11,-9.29,10.50' WATER
2488,3741323.77,631160.28,-9.29,10.50' WATER
2489,3741348.13,631152.35,-9.29,10.50' WATER
2490,3741372.49,631145.95,-9.29,10.50' WATER
2491,3741397.43,631143.11,-9.29,10.50' WATER
2492,3741422.47,631141.93,-9.29,10.50' WATER
2493,3741447.75,631141.73,-9.29,10.50' WATER
2494,3741472.74,631141.95,-9.39,10.60' WATER
2495,3741498.15,631142.17,-9.29,10.50' WATER
2496,3741523.01,631143.35,-9.29,10.50' WATER
2497,3741548.00,631141.71,-9.29,10.50' WATER
2498,3741572.99,631138.12,-9.29,10.50' WATER
2499,3741597.55,631133.57,-9.09,10.30' WATER
2500,3741622.04,631127.66,-9.19,10.40' WATER
2501,3741646.01,631118.65,-9.29,10.50' WATER
2502,3741670.00,631108.63,-9.29,10.50' WATER
2503,3741694.35,631099.87,-9.09,10.30' WATER
2504,3741718.57,631092.47,-9.19,10.40' WATER

2505,3741743.46,631087.77,-8.99,10.20' WATER
2506,3741767.93,631084.09,-9.09,10.30' WATER
2507,3741792.92,631081.87,-9.09,10.30' WATER
2508,3741817.82,631080.77,-9.09,10.30' WATER
2509,3741843.36,631081.85,-8.99,10.20' WATER
2510,3741868.43,631083.50,-8.99,10.20' WATER
2511,3741894.07,631086.03,-9.09,10.30' WATER
2512,3741919.53,631090.11,-8.99,10.20' WATER
2513,3741945.00,631092.19,-8.89,10.10' WATER
2514,3741970.50,631093.07,-9.09,10.30' WATER
2515,3741995.86,631093.80,-8.99,10.20' WATER
2516,3742021.03,631094.03,-8.99,10.20' WATER
2517,3742045.99,631093.16,-8.99,10.20' WATER
2518,3742070.92,631092.12,-8.99,10.20' WATER
2519,3742095.96,631091.45,-9.09,10.30' WATER
2520,3742121.01,631090.50,-8.99,10.20' WATER
2521,3742146.02,631090.17,-9.09,10.30' WATER
2522,3742171.59,631091.09,-9.09,10.30' WATER
2523,3742196.81,631093.02,-8.99,10.20' WATER
2524,3742222.52,631096.64,-9.09,10.30' WATER
2525,3742248.10,631101.16,-8.99,10.20' WATER
2526,3742273.58,631104.14,-8.99,10.20' WATER
2527,3742299.29,631106.45,-8.99,10.20' WATER
2528,3742324.27,631108.64,-8.99,10.20' WATER
2529,3742349.98,631110.12,-8.99,10.20' WATER
2530,3742375.18,631110.69,-8.99,10.20' WATER
2531,3742400.24,631109.13,-8.99,10.20' WATER
2532,3742424.76,631106.19,-8.99,10.20' WATER
2533,3742449.42,631102.87,-8.89,10.10' WATER
2534,3742474.65,631099.16,-9.09,10.30' WATER
2535,3742498.98,631096.27,-8.99,10.20' WATER
2536,3742523.96,631093.72,-6.50,7.71' WATER
2537,3742548.71,631090.48,-8.99,10.20' WATER
2538,3742573.81,631086.56,-8.99,10.20' WATER
2539,3742598.39,631082.75,-9.19,10.40' WATER
2540,3742623.04,631079.52,-8.89,10.10' WATER
2541,3742647.91,631076.78,-8.99,10.20' WATER
2542,3742672.63,631073.89,-8.89,10.10' WATER
2543,3742697.42,631069.51,-8.89,10.10' WATER
2544,3742722.03,631064.62,-8.99,10.20' WATER
2545,3742746.75,631058.78,-8.99,10.20' WATER
2546,3742770.55,631050.58,-8.99,10.20' WATER
2547,3742794.46,631037.76,-9.09,10.30' WATER
2548,3742818.51,631026.78,-9.29,10.50' WATER
2549,3742842.34,631018.58,-9.09,10.30' WATER
2550,3742867.16,631013.83,-9.09,10.30' WATER
2551,3742892.24,631011.79,-9.09,10.30' WATER
2552,3742917.18,631010.22,-9.09,10.30' WATER
2553,3742942.15,631008.08,-6.50,7.71' WATER
2554,3742966.99,631005.23,-9.29,10.50' WATER
2555,3742991.54,631001.65,-9.09,10.30' WATER
2556,3743016.22,630997.84,-9.09,10.30' WATER
2557,3743041.14,630995.40,-9.09,10.30' WATER
2558,3743066.39,630993.94,-8.99,10.20' WATER
2559,3743091.05,630993.37,-8.99,10.20' WATER
2560,3743116.53,630992.60,-8.99,10.20' WATER
2561,3743141.36,630991.07,-8.99,10.20' WATER
2562,3743165.85,630988.46,-8.89,10.10' WATER
2563,3743190.82,630985.32,-8.89,10.10' WATER
2564,3743215.93,630981.21,-8.80,10.01' WATER
2565,3743240.33,630976.93,-8.89,10.10' WATER
2566,3743264.88,630973.05,-8.89,10.10' WATER
2567,3743289.58,630969.52,-8.89,10.10' WATER

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2568,3743314.80,630965.83,-8.99,10.20' WATER
2569,3743339.37,630961.71,-6.50,7.71' WATER
2570,3743363.72,630956.79,-8.89,10.10' WATER
2571,3743388.40,630951.97,-8.99,10.20' WATER
2572,3743413.39,630948.97,-8.99,10.20' WATER
2573,3743438.07,630947.14,-8.99,10.20' WATER
2574,3743463.25,630946.06,-8.89,10.10' WATER
2575,3743488.71,630946.95,-8.99,10.20' WATER
2576,3743514.07,630950.20,-8.80,10.01' WATER
2577,3743539.63,630954.49,-8.89,10.10' WATER
2578,3743565.32,630958.98,-8.80,10.01' WATER
2579,3743590.96,630962.99,-8.70,9.91' WATER
2580,3743616.50,630966.06,-8.70,9.91' WATER
2581,3743641.75,630967.57,-8.70,9.91' WATER
2582,3743666.97,630966.30,-8.60,9.81' WATER
2583,3743691.52,630961.91,-8.60,9.81' WATER
2584,3743715.77,630954.62,-8.50,9.71' WATER
2585,3743740.08,630945.68,-8.50,9.71' WATER
2586,3743764.03,630937.34,-8.60,9.81' WATER
2587,3743788.29,630929.32,-8.70,9.91' WATER
2588,3743812.87,630922.08,-8.80,10.01' WATER
2589,3743837.06,630915.17,-9.09,10.30' WATER
2590,3743861.46,630908.87,-8.89,10.10' WATER
2591,3743886.11,630903.21,-9.09,10.30' WATER
2592,3743910.50,630898.19,-9.19,10.40' WATER
2593,3743935.43,630893.29,-9.19,10.40' WATER
2594,3743959.87,630888.34,-9.19,10.40' WATER
2595,3743984.32,630883.42,-9.29,10.50' WATER
2596,3744009.39,630879.01,-9.49,10.70' WATER
2597,3744034.05,630875.63,-9.49,10.70' WATER
2598,3744058.92,630873.62,-9.49,10.70' WATER
2599,3744083.98,630873.02,-9.58,10.79' WATER
2600,3744109.26,630873.55,-9.49,10.70' WATER
2601,3744134.67,630874.28,-9.58,10.79' WATER
2602,3744159.65,630874.92,-9.49,10.70' WATER
2603,3744184.71,630875.63,-9.58,10.79' WATER
2604,3744210.30,630876.02,-9.39,10.60' WATER
2605,3744235.13,630875.15,-9.39,10.60' WATER
2606,3744260.11,630872.50,-9.29,10.50' WATER
2607,3744284.80,630868.38,-9.19,10.40' WATER
2608,3744309.29,630863.58,-9.19,10.40' WATER
2609,3744334.13,630858.46,-8.99,10.20' WATER
2610,3744358.33,630853.09,-8.80,10.01' WATER
2611,3744382.94,630847.16,-8.70,9.91' WATER
2612,3744407.48,630840.97,-8.80,10.01' WATER
2613,3744431.65,630835.14,-8.70,9.91' WATER
2614,3744456.61,630829.86,-8.60,9.81' WATER
2615,3744481.27,630825.19,-8.60,9.81' WATER
2616,3744505.51,630820.80,-8.60,9.81' WATER
2617,3744530.30,630816.43,-8.60,9.81' WATER
2618,3744555.11,630812.11,-8.50,9.71' WATER
2619,3744579.92,630807.67,-8.50,9.71' WATER
2620,3744604.24,630803.23,-8.50,9.71' WATER
2621,3744629.15,630798.85,-8.40,9.61' WATER
2622,3744653.56,630794.77,-8.40,9.61' WATER
2623,3744678.44,630790.82,-7.98,9.19' WATER
2624,3744703.20,630787.16,-8.21,9.42' WATER
2625,3744728.04,630784.12,-8.21,9.42' WATER
2626,3744752.77,630781.51,-8.30,9.51' WATER
2627,3744777.99,630779.73,-8.60,9.81' WATER
2628,3744803.23,630780.85,-8.60,9.81' WATER
2629,3744828.72,630783.58,-8.60,9.81' WATER
2630,3744854.28,630786.93,-8.80,10.01' WATER
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2631,3744879.89,630791.21,-8.60,9.81' WATER
2632,3744905.69,630795.66,-8.60,9.81' WATER
2633,3744931.07,630799.15,-8.60,9.81' WATER
2634,3744956.50,630801.87,-8.60,9.81' WATER
2635,3744981.90,630803.79,-8.60,9.81' WATER
2636,3745007.24,630804.41,-8.60,9.81' WATER
2637,3745032.38,630803.56,-8.50,9.71' WATER
2638,3745056.81,630801.24,-8.60,9.81' WATER
2639,3745081.74,630798.89,-8.60,9.81' WATER
2640,3745106.76,630796.60,-8.60,9.81' WATER
2641,3745131.62,630793.76,-8.50,9.71' WATER
2642,3745156.25,630789.80,-8.70,9.91' WATER
2643,3745180.98,630784.42,-8.60,9.81' WATER
2644,3745205.45,630778.03,-8.50,9.71' WATER
2645,3745229.71,630771.11,-8.50,9.71' WATER
2646,3745254.02,630764.59,-8.50,9.71' WATER
2647,3745278.52,630758.88,-8.50,9.71' WATER
2648,3745303.22,630754.27,-8.30,9.51' WATER
2649,3745328.07,630751.07,-8.50,9.71' WATER
2650,3745352.92,630749.81,-8.40,9.61' WATER
2651,3745378.48,630749.78,-8.40,9.61' WATER
2652,3745403.72,630750.86,-8.40,9.61' WATER
2653,3745429.09,630752.59,-8.40,9.61' WATER
2654,3745454.18,630754.26,-8.30,9.51' WATER
2655,3745479.71,630755.02,-8.40,9.61' WATER
2656,3745504.62,630755.33,-8.21,9.42' WATER
2657,3745529.79,630754.86,-8.40,9.61' WATER
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;
;TRANSECT 59
;1.21' TOP WATER 10-11-2011
2658,3739902.52,630921.76,-9.29,10.50' WATER
2659,3739927.48,630917.77,-9.29,10.50' WATER
2660,3739951.66,630912.26,-9.39,10.60' WATER
2661,3739975.98,630903.77,-9.29,10.50' WATER
2662,3739999.90,630894.62,-9.39,10.60' WATER
2663,3740024.08,630882.79,-9.49,10.70' WATER
2664,3740047.94,630871.98,-9.49,10.70' WATER
2665,3740071.93,630860.01,-9.39,10.60' WATER
2666,3740095.81,630849.30,-9.39,10.60' WATER
2667,3740119.76,630840.37,-9.39,10.60' WATER
2668,3740144.13,630833.77,-9.29,10.50' WATER
2669,3740169.05,630831.11,-9.39,10.60' WATER
2670,3740193.45,630828.20,-9.39,10.60' WATER
2671,3740219.01,630828.91,-9.29,10.50' WATER
2672,3740244.03,630829.76,-9.29,10.50' WATER
2673,3740270.03,630835.08,-9.29,10.50' WATER
2674,3740296.01,630843.00,-9.29,10.50' WATER
2675,3740323.15,630856.97,-9.49,10.70' WATER
2676,3740349.16,630868.92,-9.39,10.60' WATER
2677,3740375.31,630876.43,-9.49,10.70' WATER
2678,3740401.39,630881.84,-9.29,10.50' WATER
2679,3740426.70,630884.21,-9.39,10.60' WATER
2680,3740451.45,630882.52,-9.39,10.60' WATER
2681,3740476.44,630880.06,-9.39,10.60' WATER
2682,3740500.96,630873.03,-9.29,10.50' WATER
2683,3740525.72,630867.90,-9.39,10.60' WATER
2684,3740550.14,630861.64,-9.39,10.60' WATER
2685,3740574.77,630857.59,-9.39,10.60' WATER
2686,3740599.31,630853.84,-9.39,10.60' WATER
2687,3740624.01,630850.81,-9.39,10.60' WATER
2688,3740649.49,630848.43,-9.39,10.60' WATER
2689,3740674.00,630846.46,-9.39,10.60' WATER
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2690,3740698.97,630844.96,-9.39,10.60' WATER
2691,3740724.25,630845.29,-9.49,10.70' WATER
2692,3740749.31,630846.47,-9.39,10.60' WATER
2693,3740774.89,630845.86,-9.49,10.70' WATER
2694,3740799.26,630843.00,-9.39,10.60' WATER
2695,3740824.40,630839.31,-9.29,10.50' WATER
2696,3740848.66,630833.15,-9.39,10.60' WATER
2697,3740872.83,630825.30,-9.39,10.60' WATER
2698,3740897.10,630818.81,-9.39,10.60' WATER
2699,3740921.84,630813.47,-9.39,10.60' WATER
2700,3740946.73,630809.00,-9.39,10.60' WATER
2701,3740971.15,630804.70,-9.29,10.50' WATER
2702,3740995.76,630800.08,-9.29,10.50' WATER
2703,3741020.59,630795.66,-9.39,10.60' WATER
2704,3741045.09,630791.69,-9.39,10.60' WATER
2705,3741070.09,630787.37,-9.39,10.60' WATER
2706,3741094.60,630783.36,-9.39,10.60' WATER
2707,3741119.00,630779.93,-9.58,10.79' WATER
2708,3741144.04,630778.50,-9.49,10.70' WATER
2709,3741169.54,630777.59,-9.78,10.99' WATER
2710,3741194.90,630779.38,-9.58,10.79' WATER
2711,3741220.20,630782.07,-9.58,10.79' WATER
2712,3741245.59,630784.09,-9.49,10.70' WATER
2713,3741270.92,630787.04,-9.58,10.79' WATER
2714,3741296.30,630788.01,-9.68,10.89' WATER
2715,3741321.14,630787.00,-9.58,10.79' WATER
2716,3741346.62,630785.24,-9.58,10.79' WATER
2717,3741371.47,630783.45,-9.68,10.89' WATER
2718,3741396.24,630779.43,-9.58,10.79' WATER
2719,3741420.96,630775.12,-9.58,10.79' WATER
2720,3741445.03,630768.84,-9.68,10.89' WATER
2721,3741469.76,630763.22,-9.58,10.79' WATER
2722,3741493.81,630755.70,-9.68,10.89' WATER
2723,3741518.45,630748.39,-9.49,10.70' WATER
2724,3741542.19,630739.36,-9.68,10.89' WATER
2725,3741566.59,630731.10,-9.68,10.89' WATER
2726,3741590.88,630721.98,-9.58,10.79' WATER
2727,3741614.69,630713.64,-9.58,10.79' WATER
2728,3741639.23,630705.92,-9.58,10.79' WATER
2729,3741663.29,630698.91,-9.49,10.70' WATER
2730,3741687.91,630692.28,-9.58,10.79' WATER
2731,3741712.74,630686.98,-9.49,10.70' WATER
2732,3741736.99,630681.87,-9.49,10.70' WATER
2733,3741761.97,630677.31,-9.39,10.60' WATER
2734,3741786.32,630672.64,-9.29,10.50' WATER
2735,3741811.28,630670.09,-9.39,10.60' WATER
2736,3741835.96,630668.39,-9.29,10.50' WATER
2737,3741861.19,630669.13,-9.19,10.40' WATER
2738,3741886.58,630669.54,-9.09,10.30' WATER
2739,3741911.45,630669.04,-9.19,10.40' WATER
2740,3741937.08,630669.22,-9.09,10.30' WATER
2741,3741962.03,630668.35,-9.19,10.40' WATER
2742,3741986.95,630666.37,-9.29,10.50' WATER
2743,3742011.80,630663.56,-9.19,10.40' WATER
2744,3742036.76,630660.85,-9.19,10.40' WATER
2745,3742061.08,630656.86,-9.19,10.40' WATER
2746,3742085.94,630652.55,-9.19,10.40' WATER
2747,3742110.22,630646.82,-9.29,10.50' WATER
2748,3742135.07,630641.43,-6.60,7.81' WATER
2749,3742159.32,630635.39,-9.29,10.50' WATER
2750,3742184.29,630629.90,-9.19,10.40' WATER
2751,3742208.72,630624.49,-9.29,10.50' WATER
2752,3742233.13,630619.91,-9.19,10.40' WATER
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2753,3742258.23,630616.18,-9.19,10.40' WATER
2754,3742282.66,630612.57,-9.19,10.40' WATER
2755,3742307.63,630609.00,-9.29,10.50' WATER
2756,3742331.97,630604.82,-9.19,10.40' WATER
2757,3742356.84,630599.64,-9.19,10.40' WATER
2758,3742380.95,630594.22,-9.29,10.50' WATER
2759,3742405.57,630588.03,-9.29,10.50' WATER
2760,3742430.14,630582.30,-9.29,10.50' WATER
2761,3742454.92,630577.39,-9.19,10.40' WATER
2762,3742479.24,630573.73,-9.29,10.50' WATER
2763,3742504.27,630570.47,-9.09,10.30' WATER
2764,3742529.33,630569.11,-9.09,10.30' WATER
2765,3742554.34,630567.74,-9.09,10.30' WATER
2766,3742579.35,630567.85,-8.99,10.20' WATER
2767,3742604.46,630567.20,-8.89,10.10' WATER
2768,3742629.53,630567.61,-8.89,10.10' WATER
2769,3742655.18,630568.32,-8.80,10.01' WATER
2770,3742680.18,630568.23,-9.09,10.30' WATER
2771,3742705.00,630566.74,-9.19,10.40' WATER
2772,3742729.76,630564.01,-9.29,10.50' WATER
2773,3742754.87,630558.94,-9.19,10.40' WATER
2774,3742779.46,630553.62,-9.19,10.40' WATER
2775,3742803.56,630549.27,-9.19,10.40' WATER
2776,3742828.27,630544.03,-9.29,10.50' WATER
2777,3742852.99,630538.84,-9.19,10.40' WATER
2778,3742877.61,630532.13,-9.39,10.60' WATER
2779,3742901.62,630525.62,-9.19,10.40' WATER
2780,3742925.96,630518.02,-9.29,10.50' WATER
2781,3742950.39,630511.70,-9.29,10.50' WATER
2782,3742974.78,630506.32,-9.29,10.50' WATER
2783,3742999.37,630501.55,-9.19,10.40' WATER
2784,3743024.13,630498.20,-9.09,10.30' WATER
2785,3743049.54,630495.80,-8.80,10.01' WATER
2786,3743074.39,630493.70,-8.60,9.81' WATER
2787,3743099.29,630493.70,-8.40,9.61' WATER
2788,3743124.77,630493.32,-8.21,9.42' WATER
2789,3743149.64,630494.37,-8.30,9.51' WATER
2790,3743175.14,630495.17,-8.40,9.61' WATER
2791,3743200.40,630495.08,-8.70,9.91' WATER
2792,3743225.44,630494.86,-8.80,10.01' WATER
2793,3743250.38,630493.77,-8.89,10.10' WATER
2794,3743275.48,630490.95,-8.89,10.10' WATER
2795,3743299.67,630485.86,-8.89,10.10' WATER
2796,3743324.52,630481.41,-8.89,10.10' WATER
2797,3743349.08,630477.06,-8.89,10.10' WATER
2798,3743373.50,630473.24,-9.09,10.30' WATER
2799,3743398.60,630468.71,-8.89,10.10' WATER
2800,3743423.14,630464.24,-8.99,10.20' WATER
2801,3743447.70,630459.66,-8.89,10.10' WATER
2802,3743472.56,630455.65,-8.99,10.20' WATER
2803,3743496.86,630451.96,-8.99,10.20' WATER
2804,3743521.91,630448.72,-8.89,10.10' WATER
2805,3743546.87,630446.05,-8.80,10.01' WATER
2806,3743571.89,630443.38,-8.80,10.01' WATER
2807,3743596.37,630441.20,-8.89,10.10' WATER
2808,3743621.40,630438.99,-8.99,10.20' WATER
2809,3743646.44,630436.74,-8.89,10.10' WATER
2810,3743671.37,630435.31,-8.60,9.81' WATER
2811,3743696.27,630434.79,-7.98,9.19' WATER
2812,3743721.71,630433.49,-7.88,9.09' WATER
2813,3743746.27,630430.75,-7.88,9.09' WATER
2814,3743770.83,630426.47,-8.40,9.61' WATER
2815,3743795.44,630421.75,-9.29,10.50' WATER
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2816,3743820.27,630417.89,-9.29,10.50' WATER
2817,3743845.00,630414.63,-9.39,10.60' WATER
2818,3743870.29,630412.90,-9.19,10.40' WATER
2819,3743895.00,630411.66,-9.29,10.50' WATER
2820,3743920.32,630411.41,-9.29,10.50' WATER
2821,3743945.13,630410.48,-9.39,10.60' WATER
2822,3743970.52,630408.20,-9.49,10.70' WATER
2823,3743995.31,630405.10,-9.49,10.70' WATER
2824,3744019.43,630400.18,-9.49,10.70' WATER
2825,3744044.02,630393.95,-9.49,10.70' WATER
2826,3744068.59,630387.65,-9.49,10.70' WATER
2827,3744092.48,630379.53,-9.39,10.60' WATER
2828,3744116.84,630371.67,-9.49,10.70' WATER
2829,3744141.30,630365.23,-6.80,8.01' WATER
2830,3744165.79,630360.36,-9.49,10.70' WATER
2831,3744190.95,630357.63,-9.49,10.70' WATER
2832,3744215.50,630355.45,-6.80,8.01' WATER
2833,3744241.17,630355.76,-9.49,10.70' WATER
2834,3744266.38,630357.11,-9.68,10.89' WATER
2835,3744291.72,630358.51,-9.39,10.60' WATER
2836,3744317.11,630359.00,-9.29,10.50' WATER
2837,3744341.99,630359.65,-9.09,10.30' WATER
2838,3744367.46,630359.37,-8.89,10.10' WATER
2839,3744392.38,630358.37,-8.80,10.01' WATER
2840,3744417.34,630357.16,-8.80,10.01' WATER
2841,3744442.46,630355.01,-8.80,10.01' WATER
2842,3744466.99,630352.09,-8.70,9.91' WATER
2843,3744492.00,630349.22,-8.80,10.01' WATER
2844,3744516.43,630345.54,-8.70,9.91' WATER
2845,3744541.29,630341.58,-8.70,9.91' WATER
2846,3744566.11,630337.80,-8.60,9.81' WATER
2847,3744590.79,630332.87,-8.60,9.81' WATER
2848,3744615.17,630326.62,-8.70,9.91' WATER
2849,3744639.35,630319.90,-8.60,9.81' WATER
2850,3744663.28,630310.13,-8.50,9.71' WATER
2851,3744687.09,630298.17,-8.40,9.61' WATER
2852,3744711.20,630286.08,-8.50,9.71' WATER
2853,3744735.08,630277.47,-8.50,9.71' WATER
2854,3744759.47,630270.85,-8.50,9.71' WATER
2855,3744784.31,630266.64,-8.70,9.91' WATER
2856,3744809.04,630263.54,-8.50,9.71' WATER
2857,3744834.05,630261.18,-8.50,9.71' WATER
2858,3744858.93,630258.94,-8.50,9.71' WATER
2859,3744884.06,630259.81,-8.30,9.51' WATER
2860,3744909.68,630261.93,-8.40,9.61' WATER
2861,3744934.87,630264.71,-8.40,9.61' WATER
2862,3744960.52,630267.86,-8.40,9.61' WATER
2863,3744986.11,630270.31,-8.30,9.51' WATER
2864,3745011.60,630273.94,-8.40,9.61' WATER
2865,3745037.48,630278.01,-8.30,9.51' WATER
2866,3745062.63,630282.00,-8.30,9.51' WATER
2867,3745088.36,630285.20,-8.30,9.51' WATER
2868,3745113.67,630287.36,-8.40,9.61' WATER
2869,3745139.05,630288.93,-8.50,9.71' WATER
2870,3745164.07,630288.47,-8.40,9.61' WATER
2871,3745189.00,630285.74,-8.50,9.71' WATER
2872,3745213.94,630280.97,-8.40,9.61' WATER
2873,3745238.15,630276.39,-8.50,9.71' WATER
2874,3745262.85,630269.16,-8.40,9.61' WATER
2875,3745286.92,630262.23,-8.50,9.71' WATER
2876,3745311.77,630256.07,-8.60,9.81' WATER
2877,3745336.12,630251.02,-8.50,9.71' WATER
2878,3745360.63,630246.63,-8.40,9.61' WATER
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2879,3745385.71,630243.27,-8.60,9.81' WATER
2880,3745410.23,630240.31,-8.50,9.71' WATER
2881,3745435.44,630238.39,-8.50,9.71' WATER
2882,3745460.19,630237.15,-8.50,9.71' WATER
2883,3745485.47,630235.54,-8.50,9.71' WATER
2884,3745510.22,630234.13,-8.40,9.61' WATER
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;TRANSECT 60
;1.21' TOP WATER 10-11-2011
2885,3739731.67,630413.87,-9.49,10.70' WATER
2886,3739756.05,630407.13,-9.49,10.70' WATER
2887,3739780.32,630399.23,-9.58,10.79' WATER
2888,3739804.51,630389.91,-9.49,10.70' WATER
2889,3739828.71,630381.09,-9.58,10.79' WATER
2890,3739852.87,630372.68,-9.49,10.70' WATER
2891,3739877.28,630366.21,-9.49,10.70' WATER
2892,3739901.56,630360.52,-9.49,10.70' WATER
2893,3739926.30,630355.73,-9.58,10.79' WATER
2894,3739950.86,630351.42,-9.58,10.79' WATER
2895,3739975.76,630348.00,-9.58,10.79' WATER
2896,3740000.69,630344.86,-9.58,10.79' WATER
2897,3740025.57,630341.73,-9.58,10.79' WATER
2898,3740049.98,630337.61,-9.49,10.70' WATER
2899,3740074.41,630332.23,-9.49,10.70' WATER
2900,3740098.94,630325.91,-9.58,10.79' WATER
2901,3740123.26,630318.89,-9.58,10.79' WATER
2902,3740148.22,630314.23,-9.49,10.70' WATER
2903,3740172.99,630310.95,-9.68,10.89' WATER
2904,3740197.54,630309.03,-9.49,10.70' WATER
2905,3740222.74,630307.52,-9.49,10.70' WATER
2906,3740247.69,630306.23,-9.58,10.79' WATER
2907,3740272.52,630304.04,-9.58,10.79' WATER
2908,3740297.24,630300.65,-9.58,10.79' WATER
2909,3740322.28,630297.04,-9.58,10.79' WATER
2910,3740346.71,630293.41,-9.49,10.70' WATER
2911,3740371.49,630289.21,-9.68,10.89' WATER
2912,3740396.42,630287.26,-9.49,10.70' WATER
2913,3740421.50,630286.95,-9.68,10.89' WATER
2914,3740447.01,630289.37,-9.68,10.89' WATER
2915,3740472.68,630292.81,-9.68,10.89' WATER
2916,3740498.34,630295.18,-9.68,10.89' WATER
2917,3740523.44,630297.01,-9.58,10.79' WATER
2918,3740549.07,630300.00,-9.68,10.89' WATER
2919,3740574.65,630302.58,-9.68,10.89' WATER
2920,3740599.94,630305.67,-9.58,10.79' WATER
2921,3740625.47,630306.90,-9.68,10.89' WATER
2922,3740650.26,630306.84,-9.58,10.79' WATER
2923,3740675.33,630304.92,-9.68,10.89' WATER
2924,3740699.96,630299.65,-9.68,10.89' WATER
2925,3740724.67,630294.41,-9.68,10.89' WATER
2926,3740749.20,630288.61,-9.68,10.89' WATER
2927,3740773.48,630281.74,-9.78,10.99' WATER
2928,3740797.79,630273.47,-9.68,10.89' WATER
2929,3740821.56,630264.50,-9.78,10.99' WATER
2930,3740845.90,630256.74,-9.68,10.89' WATER
2931,3740870.05,630247.83,-9.68,10.89' WATER
2932,3740894.28,630240.32,-9.68,10.89' WATER
2933,3740918.79,630232.70,-9.58,10.79' WATER
2934,3740943.74,630230.77,-9.68,10.89' WATER
2935,3740968.58,630230.53,-9.68,10.89' WATER
2936,3740994.61,630235.82,-9.68,10.89' WATER
2937,3741020.51,630244.19,-9.68,10.89' WATER
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2938,3741047.01,630252.87,-9.68,10.89' WATER
2939,3741072.33,630257.09,-9.68,10.89' WATER
2940,3741098.05,630258.58,-9.78,10.99' WATER
2941,3741122.77,630258.02,-9.78,10.99' WATER
2942,3741148.28,630257.61,-9.88,11.09' WATER
2943,3741173.04,630257.27,-9.88,11.09' WATER
2944,3741197.94,630255.13,-10.08,11.29' WATER
2945,3741223.03,630252.80,-9.98,11.19' WATER
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2948,3741295.57,630227.18,-10.08,11.29' WATER
2949,3741344.91,630219.28,-9.98,11.19' WATER
2950,3741394.82,630217.87,-9.98,11.19' WATER
2951,3741420.19,630215.32,-9.88,11.09' WATER
2952,3741444.38,630209.62,-9.98,11.19' WATER
2953,3741468.94,630202.07,-9.98,11.19' WATER
2954,3741493.25,630194.30,-9.98,11.19' WATER
2955,3741517.43,630186.07,-9.88,11.09' WATER
2956,3741541.41,630178.74,-9.88,11.09' WATER
2957,3741565.82,630171.09,-9.88,11.09' WATER
2958,3741590.36,630165.56,-9.88,11.09' WATER
2959,3741615.21,630160.73,-9.88,11.09' WATER
2960,3741639.95,630157.96,-9.88,11.09' WATER
2961,3741664.79,630156.00,-9.78,10.99' WATER
2962,3741689.67,630154.89,-9.88,11.09' WATER
2963,3741714.92,630155.34,-9.78,10.99' WATER
2964,3741740.37,630156.69,-9.68,10.89' WATER
2965,3741765.75,630159.46,-9.68,10.89' WATER
2966,3741791.02,630159.47,-9.68,10.89' WATER
2967,3741816.20,630158.20,-9.68,10.89' WATER
2968,3741840.72,630153.80,-9.68,10.89' WATER
2969,3741864.97,630147.98,-9.68,10.89' WATER
2970,3741889.42,630138.58,-9.68,10.89' WATER
2971,3741912.95,630125.16,-9.68,10.89' WATER
2972,3741936.72,630112.68,-9.58,10.79' WATER
2973,3741960.76,630104.01,-9.68,10.89' WATER
2974,3741984.90,630095.65,-9.58,10.79' WATER
2975,3742009.55,630091.45,-9.78,10.99' WATER
2976,3742034.50,630088.69,-6.99,8.20' WATER
2977,3742059.52,630089.50,-9.68,10.89' WATER
2978,3742085.33,630094.20,-9.68,10.89' WATER
2979,3742111.52,630101.69,-9.68,10.89' WATER
2980,3742137.41,630107.68,-9.98,11.19' WATER
2981,3742162.87,630112.86,-9.68,10.89' WATER
2982,3742189.03,630118.84,-9.58,10.79' WATER
2983,3742214.35,630121.33,-9.68,10.89' WATER
2984,3742239.80,630122.90,-9.58,10.79' WATER
2985,3742264.76,630119.74,-9.49,10.70' WATER
2986,3742289.18,630113.77,-9.58,10.79' WATER
2987,3742313.39,630105.20,-9.49,10.70' WATER
2988,3742337.11,630095.58,-9.49,10.70' WATER
2989,3742361.32,630084.72,-9.49,10.70' WATER
2990,3742384.84,630073.68,-9.58,10.79' WATER
2991,3742409.16,630064.88,-9.58,10.79' WATER
2992,3742433.56,630056.59,-9.58,10.79' WATER
2993,3742458.18,630052.83,-9.68,10.89' WATER
2994,3742483.04,630051.37,-9.68,10.89' WATER
2995,3742508.47,630052.47,-9.68,10.89' WATER
2996,3742533.66,630055.05,-9.39,10.60' WATER
2997,3742559.42,630058.50,-8.99,10.20' WATER
2998,3742585.15,630061.52,-8.30,9.51' WATER
2999,3742610.52,630065.46,-7.88,9.09' WATER
3000,3742635.84,630066.22,-7.48,8.69' WATER
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3002,3742685.47,630060.10,-7.98,9.19' WATER
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3004,3742734.13,630045.62,-8.40,9.61' WATER
3005,3742758.05,630036.87,-8.80,10.01' WATER
3006,3742782.60,630028.98,-8.99,10.20' WATER
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3021,3743158.44,630017.30,-8.80,10.01' WATER
3022,3743182.65,630007.39,-8.89,10.10' WATER
3023,3743206.44,629994.21,-8.99,10.20' WATER
3024,3743229.87,629980.33,-8.99,10.20' WATER
3025,3743253.46,629967.81,-9.19,10.40' WATER
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3027,3743301.03,629942.75,-9.09,10.30' WATER
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3029,3743348.86,629923.33,-8.89,10.10' WATER
3030,3743373.29,629915.72,-8.80,10.01' WATER
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3032,3743422.04,629902.43,-8.99,10.20' WATER
3033,3743446.69,629896.32,-8.99,10.20' WATER
3034,3743471.27,629893.00,-8.99,10.20' WATER
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3036,3743521.69,629891.37,-9.09,10.30' WATER
3037,3743547.03,629893.35,-8.99,10.20' WATER
3038,3743572.56,629896.11,-9.09,10.30' WATER
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3040,3743623.50,629903.52,-9.29,10.50' WATER
3041,3743649.35,629909.05,-9.39,10.60' WATER
3042,3743675.17,629915.50,-9.29,10.50' WATER
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3060,3744126.31,629900.08,-9.68,10.89' WATER
3061,3744151.50,629897.15,-9.88,11.09' WATER
3062,3744175.92,629892.77,-9.78,10.99' WATER
3063,3744200.27,629885.29,-9.78,10.99' WATER
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3091,3744890.99,629765.11,-8.70,9.91' WATER
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3104,3745211.47,629706.65,-8.60,9.81' WATER
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3106,3745260.79,629701.11,-8.60,9.81' WATER
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3109,3745334.16,629679.10,-8.60,9.81' WATER
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3111,3745383.53,629671.81,-8.50,9.71' WATER
3112,3745408.66,629673.40,-8.60,9.81' WATER
;
;
;TRANSECT 61
;1.21' TOP WATER 10-11-2011
3113,3739812.65,629906.90,-9.68,10.89' WATER
3114,3739836.98,629901.19,-9.68,10.89' WATER
3115,3739860.89,629893.46,-9.78,10.99' WATER
3116,3739885.81,629886.85,-9.78,10.99' WATER
3117,3739909.98,629878.75,-9.78,10.99' WATER
3118,3739934.00,629871.40,-9.68,10.89' WATER
3119,3739958.48,629863.28,-9.58,10.79' WATER
3120,3739983.34,629856.48,-9.68,10.89' WATER
3121,3740007.57,629851.80,-9.68,10.89' WATER
3122,3740032.02,629848.55,-9.68,10.89' WATER
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3123,3740057.04,629849.09,-9.78,10.99' WATER
3124,3740082.89,629852.54,-9.68,10.89' WATER
3125,3740108.61,629856.14,-9.78,10.99' WATER
3126,3740134.79,629864.57,-9.68,10.89' WATER
3127,3740160.98,629875.05,-9.78,10.99' WATER
3128,3740187.75,629887.02,-9.78,10.99' WATER
3129,3740214.15,629897.57,-9.68,10.89' WATER
3130,3740240.02,629904.28,-9.78,10.99' WATER
3131,3740265.58,629907.74,-9.68,10.89' WATER
3132,3740290.59,629908.45,-9.68,10.89' WATER
3133,3740316.18,629908.51,-9.78,10.99' WATER
3134,3740340.63,629903.93,-9.68,10.89' WATER
3135,3740365.41,629899.92,-9.78,10.99' WATER
3136,3740389.26,629892.04,-9.78,10.99' WATER
3137,3740413.87,629885.09,-9.78,10.99' WATER
3138,3740437.87,629875.04,-9.68,10.89' WATER
3139,3740461.79,629866.95,-9.68,10.89' WATER
3140,3740486.47,629858.18,-9.68,10.89' WATER
3141,3740510.56,629851.11,-9.68,10.89' WATER
3142,3740534.72,629844.14,-9.68,10.89' WATER
3143,3740559.49,629837.36,-9.68,10.89' WATER
3144,3740583.69,629830.98,-9.68,10.89' WATER
3145,3740608.55,629824.99,-9.68,10.89' WATER
3146,3740632.78,629819.37,-9.78,10.99' WATER
3147,3740657.13,629814.60,-9.68,10.89' WATER
3148,3740682.09,629809.79,-9.68,10.89' WATER
3149,3740706.55,629806.23,-9.68,10.89' WATER
3150,3740731.53,629802.59,-9.68,10.89' WATER
3151,3740756.55,629800.56,-9.68,10.89' WATER
3152,3740781.55,629798.55,-9.58,10.79' WATER
3153,3740806.52,629798.63,-9.58,10.79' WATER
3154,3740831.47,629798.56,-9.58,10.79' WATER
3155,3740856.94,629800.70,-9.68,10.89' WATER
3156,3740882.35,629803.69,-9.68,10.89' WATER
3157,3740907.75,629805.85,-9.58,10.79' WATER
3158,3740933.70,629808.97,-9.58,10.79' WATER
3159,3740958.97,629811.94,-9.49,10.70' WATER
3160,3740984.69,629814.76,-9.58,10.79' WATER
3161,3741010.09,629819.09,-9.49,10.70' WATER
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3165,3741111.58,629825.88,-9.78,10.99' WATER
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3171,3741258.88,629796.00,-10.08,11.29' WATER
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3173,3741307.51,629780.32,-10.08,11.29' WATER
3174,3741333.68,629771.64,-10.08,11.29' WATER
3175,3741355.99,629764.95,-9.98,11.19' WATER
3176,3741380.51,629758.12,-10.17,11.38' WATER
3177,3741405.04,629752.65,-10.08,11.29' WATER
3178,3741429.76,629749.44,-10.08,11.29' WATER
3179,3741455.09,629746.82,-10.08,11.29' WATER
3180,3741479.92,629747.65,-10.08,11.29' WATER
3181,3741505.24,629748.36,-10.08,11.29' WATER
3182,3741530.98,629752.95,-10.17,11.38' WATER
3183,3741556.72,629757.45,-10.08,11.29' WATER
3184,3741581.88,629759.04,-10.08,11.29' WATER
3185,3741607.07,629759.43,-10.08,11.29' WATER
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3193,3741806.54,629743.82,-9.88,11.09' WATER
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3203,3742051.95,629690.14,-9.78,10.99' WATER
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3205,3742101.96,629686.77,-9.78,10.99' WATER
3206,3742127.20,629684.10,-9.78,10.99' WATER
3207,3742151.44,629679.53,-9.88,11.09' WATER
3208,3742176.32,629674.26,-9.78,10.99' WATER
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3248,3743161.84,629491.01,-9.68,10.89' WATER
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3263,3743535.94,629463.01,-9.49,10.70' WATER
3264,3743560.76,629459.52,-9.58,10.79' WATER
3265,3743584.79,629453.35,-9.49,10.70' WATER
3266,3743609.34,629448.76,-9.49,10.70' WATER
3267,3743634.32,629442.93,-9.58,10.79' WATER
3268,3743659.02,629437.96,-9.58,10.79' WATER
3269,3743683.35,629431.82,-9.49,10.70' WATER
3270,3743707.37,629426.04,-9.49,10.70' WATER
3271,3743731.98,629419.80,-9.58,10.79' WATER
3272,3743756.43,629412.67,-9.68,10.89' WATER
3273,3743780.85,629405.99,-9.68,10.89' WATER
3274,3743805.18,629398.62,-9.68,10.89' WATER
3275,3743829.54,629391.74,-9.68,10.89' WATER
3276,3743853.94,629385.35,-9.78,10.99' WATER
3277,3743878.37,629380.12,-9.78,10.99' WATER
3278,3743903.44,629377.10,-9.98,11.19' WATER
3279,3743928.44,629376.25,-9.88,11.09' WATER
3280,3743953.39,629375.72,-10.31,11.52' WATER
3281,3743979.25,629378.60,-10.17,11.38' WATER
3282,3744004.46,629381.01,-10.08,11.29' WATER
3283,3744030.03,629386.40,-10.08,11.29' WATER
3284,3744055.92,629392.67,-10.08,11.29' WATER
3285,3744082.28,629399.81,-9.98,11.19' WATER
3286,3744108.08,629405.71,-9.98,11.19' WATER
3287,3744159.63,629415.84,-10.17,11.38' WATER
3288,3744185.14,629417.02,-9.98,11.19' WATER
3289,3744209.98,629417.24,-9.98,11.19' WATER
3290,3744234.59,629414.13,-9.88,11.09' WATER
3291,3744259.66,629411.27,-9.88,11.09' WATER
3292,3744308.48,629399.25,-9.78,10.99' WATER
3293,3744332.31,629389.73,-9.88,11.09' WATER
3294,3744356.50,629380.32,-9.58,10.79' WATER
3295,3744380.62,629368.56,-9.58,10.79' WATER
3296,3744404.52,629360.28,-9.49,10.70' WATER
3297,3744429.43,629354.12,-9.49,10.70' WATER
3298,3744454.03,629351.96,-9.39,10.60' WATER
3299,3744478.83,629350.65,-9.39,10.60' WATER
3300,3744504.48,629353.00,-9.29,10.50' WATER
3301,3744530.01,629355.74,-9.29,10.50' WATER
3302,3744555.38,629356.94,-9.29,10.50' WATER
3303,3744580.60,629359.27,-9.19,10.40' WATER
3304,3744606.16,629360.85,-9.19,10.40' WATER
3305,3744631.25,629363.40,-9.19,10.40' WATER
3306,3744656.90,629365.51,-9.19,10.40' WATER
3307,3744682.52,629366.66,-9.19,10.40' WATER
3308,3744707.61,629366.45,-9.09,10.30' WATER
3309,3744732.70,629365.31,-9.19,10.40' WATER
3310,3744757.11,629361.43,-9.09,10.30' WATER
3311,3744781.97,629357.29,-9.09,10.30' WATER
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3313,3744830.30,629341.39,-8.99,10.20' WATER
3314,3744854.55,629334.71,-9.09,10.30' WATER
3315,3744879.01,629327.34,-8.99,10.20' WATER
3316,3744903.37,629320.65,-8.99,10.20' WATER
3317,3744927.62,629312.58,-8.99,10.20' WATER
3318,3744951.54,629303.98,-8.80,10.01' WATER
3319,3744976.27,629296.32,-8.89,10.10' WATER
3320,3745000.70,629289.70,-8.80,10.01' WATER
3321,3745024.73,629283.85,-8.80,10.01' WATER
3322,3745049.36,629277.68,-8.70,9.91' WATER
3323,3745073.56,629271.34,-8.70,9.91' WATER
3324,3745098.25,629264.82,-8.70,9.91' WATER
3325,3745122.47,629258.74,-8.70,9.91' WATER
3326,3745147.33,629253.62,-8.70,9.91' WATER
3327,3745171.68,629249.29,-8.70,9.91' WATER
3328,3745196.65,629247.22,-8.70,9.91' WATER
3329,3745222.22,629246.99,-8.60,9.81' WATER
3330,3745247.11,629248.35,-8.70,9.91' WATER
3331,3745272.67,629249.15,-8.60,9.81' WATER
3332,3745298.23,629251.37,-8.60,9.81' WATER
3333,3745323.35,629252.07,-8.60,9.81' WATER
3334,3745348.47,629250.70,-8.60,9.81' WATER
3335,3745373.08,629249.02,-8.60,9.81' WATER
3336,3745398.37,629246.51,-8.60,9.81' WATER
3337,3745422.92,629243.11,-8.60,9.81' WATER
;
;
;TRANSECT 62
;1.21' TOP WATER 10-11-2011
3338,3739558.49,629334.03,-9.88,11.09' WATER
3339,3739584.65,629342.12,-9.88,11.09' WATER
3340,3739610.82,629351.79,-10.38,11.52' WATER
3341,3739637.03,629359.38,-9.88,11.09' WATER
3342,3739662.84,629365.00,-9.88,11.09' WATER
3343,3739688.33,629369.27,-9.88,11.09' WATER
3344,3739713.58,629369.97,-9.88,11.09' WATER
3345,3739738.64,629368.83,-9.88,11.09' WATER
3346,3739763.31,629365.48,-9.98,11.19' WATER
3347,3739788.17,629361.21,-9.98,11.19' WATER
3348,3739813.01,629357.13,-9.98,11.19' WATER
3349,3739838.09,629356.30,-9.88,11.09' WATER
3350,3739863.17,629357.37,-9.78,10.99' WATER
3351,3739888.35,629358.83,-9.78,10.99' WATER
3352,3739913.96,629360.00,-9.88,11.09' WATER
3353,3739939.21,629361.52,-9.78,10.99' WATER
3354,3739964.17,629360.90,-9.98,11.19' WATER
3355,3739989.42,629358.89,-9.98,11.19' WATER
3356,3740014.04,629355.58,-9.88,11.09' WATER
3357,3740038.37,629350.01,-9.88,11.09' WATER
3358,3740062.87,629343.59,-9.98,11.19' WATER
3359,3740087.22,629336.36,-9.88,11.09' WATER
3360,3740111.64,629328.61,-9.88,11.09' WATER
3361,3740135.53,629319.02,-9.88,11.09' WATER
3362,3740160.11,629313.25,-9.88,11.09' WATER
3363,3740184.62,629309.38,-9.88,11.09' WATER
3364,3740210.20,629309.67,-9.88,11.09' WATER
3365,3740235.31,629312.88,-9.98,11.19' WATER
3366,3740261.14,629317.86,-9.88,11.09' WATER
3367,3740287.04,629322.58,-9.98,11.19' WATER
3368,3740312.57,629327.63,-9.98,11.19' WATER
3369,3740338.14,629328.50,-9.98,11.19' WATER
3370,3740363.03,629326.79,-9.98,11.19' WATER
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3371,3740387.76,629321.75,-9.98,11.19' WATER
3372,3740412.20,629315.70,-9.98,11.19' WATER
3373,3740436.61,629309.86,-9.98,11.19' WATER
3374,3740460.98,629303.79,-9.98,11.19' WATER
3375,3740485.16,629296.84,-9.88,11.09' WATER
3376,3740509.92,629292.01,-9.98,11.19' WATER
3377,3740534.53,629287.90,-9.88,11.09' WATER
3378,3740559.66,629286.21,-9.98,11.19' WATER
3379,3740584.54,629285.85,-9.98,11.19' WATER
3380,3740610.09,629286.70,-9.88,11.09' WATER
3381,3740635.18,629288.84,-9.88,11.09' WATER
3382,3740660.74,629291.65,-9.88,11.09' WATER
3383,3740686.52,629295.33,-9.88,11.09' WATER
3384,3740712.05,629296.89,-9.88,11.09' WATER
3385,3740737.40,629299.31,-9.78,10.99' WATER
3386,3740762.25,629297.80,-9.78,10.99' WATER
3387,3740786.72,629291.59,-9.78,10.99' WATER
3388,3740810.61,629281.75,-9.88,11.09' WATER
3389,3740834.76,629271.24,-9.88,11.09' WATER
3390,3740858.81,629260.83,-9.88,11.09' WATER
3391,3740882.87,629253.41,-9.98,11.19' WATER
3392,3740907.36,629247.16,-9.98,11.19' WATER
3393,3740932.26,629243.67,-9.88,11.09' WATER
3394,3740956.92,629241.06,-9.98,11.19' WATER
3395,3740982.22,629239.58,-9.88,11.09' WATER
3396,3741006.94,629239.67,-9.88,11.09' WATER
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3401,3741132.56,629235.60,-10.17,11.38' WATER
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3403,3741181.11,629220.54,-10.08,11.29' WATER
3404,3741205.15,629210.46,-10.08,11.29' WATER
3405,3741228.99,629199.83,-10.17,11.38' WATER
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3407,3741277.56,629183.41,-10.17,11.38' WATER
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3414,3741452.29,629169.89,-10.31,11.52' WATER
3415,3741477.82,629174.21,-10.40,11.61' WATER
3416,3741503.65,629180.30,-10.50,11.71' WATER
3417,3741529.23,629185.49,-10.40,11.61' WATER
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3422,3741655.33,629186.82,-10.40,11.61' WATER
3423,3741679.66,629177.70,-10.40,11.61' WATER
3424,3741703.87,629170.12,-10.50,11.71' WATER
3425,3741728.14,629165.12,-10.40,11.61' WATER
3426,3741752.46,629157.67,-10.50,11.71' WATER
3427,3741776.70,629147.56,-10.60,11.81' WATER
3428,3741801.11,629139.95,-10.50,11.71' WATER
3429,3741825.12,629132.47,-10.60,11.81' WATER
3430,3741849.75,629128.09,-10.50,11.71' WATER
3431,3741874.84,629125.97,-10.40,11.61' WATER
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3433,3741925.40,629126.95,-10.40,11.61' WATER
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3496,3743491.38,628961.22,-10.17,11.38' WATER
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3559,3745050.51,628731.86,-10.08,11.29' WATER
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3563,3745147.74,628704.26,-10.31,11.52' WATER
3564,3745172.21,628696.52,-10.31,11.52' WATER
3565,3745196.68,628691.26,-10.31,11.52' WATER
3566,3745221.17,628686.57,-10.31,11.52' WATER
3567,3745246.10,628682.57,-10.31,11.52' WATER
3568,3745270.44,628677.77,-10.31,11.52' WATER
3569,3745295.52,628674.49,-10.31,11.52' WATER
;
;
;TRANSECT 63
;1.21' TOP WATER 10-11-2011
3570,3743468.27,634810.39,-8.21,9.42' WATER
3571,3743476.97,634834.10,-8.07,9.28' WATER
3572,3743482.96,634858.43,-8.21,9.42' WATER
3573,3743484.79,634883.52,-8.21,9.42' WATER
3574,3743482.65,634909.34,-8.21,9.42' WATER
3575,3743477.91,634935.00,-8.21,9.42' WATER
3576,3743472.55,634960.70,-8.21,9.42' WATER
3577,3743469.01,634986.34,-8.21,9.42' WATER
3578,3743469.50,635011.51,-8.21,9.42' WATER
3579,3743474.71,635036.04,-8.21,9.42' WATER
3580,3743480.83,635060.58,-8.07,9.28' WATER
3581,3743489.64,635084.76,-8.21,9.42' WATER
3582,3743499.64,635108.61,-8.07,9.28' WATER
3583,3743508.80,635132.52,-8.07,9.28' WATER
3584,3743517.21,635156.63,-8.07,9.28' WATER
3585,3743524.02,635181.04,-8.07,9.28' WATER
3586,3743528.01,635205.84,-8.21,9.42' WATER
3587,3743529.16,635230.87,-8.21,9.42' WATER
3588,3743528.23,635256.06,-8.21,9.42' WATER
3589,3743526.29,635281.32,-8.21,9.42' WATER
3590,3743523.21,635307.13,-8.30,9.51' WATER
3591,3743522.22,635332.65,-8.21,9.42' WATER
3592,3743527.01,635382.03,-8.07,9.28' WATER
3593,3743536.44,635406.14,-8.07,9.28' WATER
3594,3743548.14,635429.90,-8.07,9.28' WATER
3595,3743564.55,635453.20,-8.07,9.28' WATER
3596,3743577.87,635476.62,-7.98,9.19' WATER
3597,3743587.82,635500.48,-8.07,9.28' WATER
3598,3743594.04,635524.82,-8.07,9.28' WATER
3599,3743597.06,635549.88,-8.07,9.28' WATER
3600,3743596.56,635575.00,-8.21,9.42' WATER
3601,3743590.42,635601.10,-8.21,9.42' WATER
3602,3743584.10,635626.79,-8.21,9.42' WATER
3603,3743577.09,635652.92,-8.21,9.42' WATER
3604,3743570.82,635679.12,-8.07,9.28' WATER
3605,3743568.07,635704.62,-8.07,9.28' WATER
3606,3743568.82,635729.85,-8.07,9.28' WATER
3607,3743575.67,635754.05,-8.07,9.28' WATER
3608,3743584.97,635777.96,-8.07,9.28' WATER
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3612,3743621.96,635874.30,-8.07,9.28' WATER
3613,3743624.95,635899.12,-7.88,9.09' WATER
3614,3743626.54,635924.04,-7.88,9.09' WATER
3615,3743626.82,635949.21,-7.88,9.09' WATER
3616,3743626.33,635974.44,-7.88,9.09' WATER
3617,3743625.30,635999.69,-7.78,8.99' WATER
3618,3743623.40,636024.93,-7.78,8.99' WATER
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3622,3743638.87,636123.82,-7.68,8.89' WATER
3623,3743647.12,636148.22,-7.58,8.79' WATER
3624,3743655.37,636172.26,-7.58,8.79' WATER
3625,3743662.79,636196.77,-7.58,8.79' WATER
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3642,3743691.09,636621.35,-7.29,8.50' WATER
3643,3743690.42,636646.55,-7.29,8.50' WATER
3644,3743690.23,636671.67,-7.19,8.40' WATER
3645,3743692.46,636696.89,-7.19,8.40' WATER
3646,3743696.46,636721.51,-7.09,8.30' WATER
3647,3743701.91,636746.07,-7.09,8.30' WATER
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3681,3743802.15,637589.97,-5.68,6.89' WATER
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3708,3743910.05,638256.71,-6.30,7.51' WATER
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3738,3744160.20,638937.23,-7.98,9.19' WATER
3739,3744168.84,638961.28,-8.07,9.28' WATER
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3744,3744224.19,639074.79,-8.80,10.01' WATER
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3807,3745068.19,640462.62,-12.08,13.29' WATER
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3868,3746340.44,641116.68,-9.39,10.60' WATER
3869,3746365.24,641106.81,-9.88,11.09' WATER

APPENDIX I-B
Soil Boring Logs

SOIL CLASSIFICATION CHART

MAJOR DIVISIONS			SYMBOLS GRAPH	SYMBOLS LETTER	TYPICAL DESCRIPTIONS
COARSE GRAINED SOILS	GRAVEL AND GRAVELLY SOILS	CLEAN GRAVELS (LITTLE OR NO FINES)		GW	WELL-GRADED GRAVELS, GRAVEL - SAND MIXTURES
				GP	POORLY-GRADED GRAVELS, GRAVEL - SAND MIXTURES
	MORE THAN 50% OF COARSE FRACTION RETAINED ON NO. 4 SIEVE	GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES)		GM	SILTY GRAVELS, GRAVEL - SAND - SILT MIXTURES
				GC	CLAYEY GRAVELS, GRAVEL - SAND - CLAY MIXTURES
MORE THAN 50% RETAINED ON NO. 200 SIEVE	SAND AND SANDY SOILS	CLEAN SANDS (LITTLE OR NO FINES)		SW	WELL-GRADED SANDS, GRAVELLY SANDS
				SP	POORLY-GRADED SANDS, GRAVELLY SAND
	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)		SM	SILTY SANDS, SAND - SILT MIXTURES
				SC	CLAYEY SANDS, SAND - CLAY MIXTURES
FINE GRAINED SOILS	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
MORE THAN 50% PASSING NO. 200 SIEVE	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 at time noted on log

Initial groundwater level 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
UU	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 A-1

Drilled: Start 8/31/2011 End 8/31/2011	Total Depth (ft): 44	Logged By: RMB Checked By: VT	Driller: Specialized Environmental Resources, LLC	Drilling Method: Wet Rotary	
Surface Elevation (ft) Vertical Datum: 4.4		Hammer Data: N/A		Drilling Equipment: Marsh Buggy-Mounted Drill Rig	
Latitude: N30° 15' 15.1" Longitude: W89° 53' 05.3"		System Datum: Geographic NAD83 (feet)		Groundwater: Date Measured / Depth to Water (ft) / Elevation (ft)	

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0								Zero (0) feet top of deck									
						▽			Water									
									Mudline El. +0.35' NAVD88									
0					1			OH	Very soft tan and gray organic clay									
	5	10			2				Very soft tan and gray organic clay with sand traces (organic content - 17%; specific gravity - 2.57)	128	36	0.16	0.17	15	141	99	0.338	
					3				Very soft tan and gray organic clay									
-5	10	10			4				Tan and gray organic clay with large vertical sand streak on half of sample (organic content - 2.5%)	101					173	107	0.21	
					5			SM	Gray silty sand									
-10	15	6			6			SP	Gray sand with shells and a vertical streak of dark brown organic clay comprising approximately 40% of sample cross-section	56	72.8							
		9			7			CH	Stiff tan and gray clay	25	100.5	1.33	0.75	15	53	33		
		11			8				Medium tan and gray clay with organic matter, sand streaks and ferrous nodules	28	98.6	0.55		15				
-15	20	12			9				Stiff tan and gray clay with sand pockets and shells	27	95.8	1.01		15	68	46		
		10			10				Stiff tan and gray clay with sand pockets	30	94.1	1.44		13				
-20	25																	
		10			11				Stiff tan and gray clay with gravel (SLS)	41	81.2	1.11		3	84	55		
-25	30																	
		12			12				Stiff tan and gray clay (SLS)	45	78.1	1.17		3				
-30	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-1

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-2
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF) [1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35																
-35		6		13				Stiff tan and gray clay	46					82	50		
	40						CL										
		14		14				Medium tan and gray clay with sand and shells	49	77	0.54 0.55*		2 11	46	28		

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-1 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-2
Sheet 2 of 2

Baton Rouge Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/31/2011	8/31/2011	44	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
3.8	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 15' 08.4" / W89° 52' 03.6"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0								Zero (0) feet top of deck									
						▽			Water									
0									Mudline at El. -0.19' NAVD88									
	5	9			1			OH	Very soft dark gray organic clay and peat (organic content - 30%)	523	11.3	0.16	0.058	12			0.088	
	10	10			2				Very soft black organic clay with peat	397	13	0.11	0.17	10	503	293	0.115	
-5		9			3				Very soft gray organic clay	190	25.6	0.13	0.29	11			0.05	
	10	9			4				Very soft gray organic clay (organic content - 29%; specific gravity - 2.19; [1]FV @ 10' - 0.018 ksf)	157	30.8				150	115	0.063	
		10			5				Very soft gray organic clay	163	32.6	0.09	0.52	14	154	115	0.113	
-10		8			6				Very soft gray organic clay (organic content - 17%; [1]FV @ 14' - 0.049 ksf)	153	32.6	0.09	0.63	10			0.221	
	15	5			7				Very soft gray and brown organic clay with sand	177					159	112	0.09	
-15		5			8				Very soft brown organic clay with organic matter	94					216	173	0.079	
	20	7			9				Very soft gray organic clay with sand traces	108	51.7	0.07	0.98	13			0.086	
-20		10			10				Very soft gray organic clay with sand traces	257	29.2	0.13	1.09	15	61	41	0.174	
	25																	
-25		11			11				Very soft tan and gray organic clay	119	45.8	0.02		15			0.21	
	30							CH										
-30		9			12				Very soft tan and gray clay with organic matter	25	71.9	0.11		14	119	79	0.183	
	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Log of Boring B-2

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-3
Sheet 1 of 2

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	FIELD DATA: Blows/foot	FIELD DATA: Collected Sample	FIELD DATA: Sample Name	FIELD DATA: Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF) [1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35																	
-35		10			13				Very soft tan and gray clay with organic matter	42	72.6	0.06		15			0.223	
	40							CL										
-40		8			14				Very soft gray very silty clay with organic matter	24	100.7	0.13		15	29	15	0.295	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-2 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-3
Sheet 2 of 2

Baton Rouge Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	9/1/2011	9/1/2011	44	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
4.4	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 15' 32.9" / W89° 51' 33.5"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0					▽			Zero (0) feet top of deck Water									
									Mudline at El. +0.39' NAVD88									
0		12			1			OH	Very soft dark gray organic clay with peat (organic content - 35%)	396	14.7	0.12	0.06	6			0.126	
	5	9			2				Very soft gray organic clay with peat	339	16.8	0.12	0.17	15	245	150	0.117	
-5		11			3				Very soft gray organic clay	124	36.1	0.10	0.29	15			0.074	
	10	12			4				Very soft gray organic clay ([1]FV @ 14' - 0.026 ksf)	183	29.6	0.15	0.40	15	110	72	0.101	
		8.5			5				Very soft gray organic clay	136	36	0.12	0.52	13			0.304	
-10		12			6				Very soft gray organic clay	114	38.7	0.16	0.63	15	135	98	0.153	
	15	10			7				Very soft gray organic clay	111	42	0.17	0.75	13			0.165	
		9			8			CH	Very soft gray clay with silt, sand pockets and organic matter ([1]FV @ 18' - 0.065 ksf)	56	65.1	0.16	0.86	15	66	41	0.142	
-15	20	9			9			OH	Very soft gray organic clay with silt lenses	88	53	0.12	0.98	14			0.133	
		18			10				Very soft gray organic clay (specific gravity - 2.06)	101	43.6	0.10		13	107	77		
-20	25							CH										
		16.5			11				Very soft gray clay with organic matter and 2½" sand layer	83	58.8	0.17	1.38	14	67	45	0.128	
-25	30							CL										
		8			12				Light gray very silty clay with sand pockets	27					24	9		
-30	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-3

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-4
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	FIELD DATA: Blows/foot	FIELD DATA: Collected Sample	FIELD DATA: Sample Name	FIELD DATA: Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF) [1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35							ML										
		19			13				Firm gray sandy silt	26								61
-35	40							SC										
		11			14				Firm gray clayey sand	19								36

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-3 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-4
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	9/1/2011	9/1/2011	44	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
2.5	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 15' 30.6" / W89° 51' 12.8"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0								Zero (0) feet top of deck									
						▽			Water									
0									Mudline at El. -1.51' NAVD88									
	5				1			OH	Very soft brown and gray organic clay with sand	71								
		11			2			CL	Gray sandy clay with organic matter	40							0.225	61
-5		3.5			3				Gray sandy clay with silt	21								65
	10	19			4			ML	Loose gray sandy silt with clay streaks									
-10		11			5			CL	Medium gray sandy clay with ferrous nodules and organic matter	24	106.1	0.76	0.52	15	37	20		64
	15	8.5			6				Stiff gray very sandy clay with ferrous nodules and organic matter	16	110.2	1.13		5	31	17		
-15		14			7				Stiff gray sandy clay with sand streaks, 2" sandy silt layer at bottom, organic matter and ferrous nodules ([1]FV @ 16' - 0.179 ksf)	19	107.2	1.72		15	38	24		
		7			8				Medium gray clay with sand streaks	20	106.8	0.60		4				
	20	4.5			9				Stiff gray sandy clay with 2" sand layer	22					38	18		
-20		14			10			CH	Stiff gray clay with large sand pockets	29	95.3	1.19		4	56	35		82
	25																	
-25		9			11				Medium tan and light gray clay with sand streaks and silt lenses	35	82.9	0.60		3	79	48		
	30																	
-30		7.5			12				Medium tan and light gray clay with silt streaks	41	79.7	0.93		6				
	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-4

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-5
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF) [1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35																
-35		15.5		13				Stiff tan and gray clay with sand streaks and ferrous nodules (specific gravity = 2.64)	32	88	1.21 1.28*		4 7	72	45		
	40																
-40		9		14				Medium tan and gray clay with 3" sand layer	41	80.7	0.93		6				

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-4 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-5
Sheet 2 of 2

Baton Rouge Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	9/1/2011	9/1/2011	64	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
3.8	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 15' 30.4" / W89° 50' 55.7"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0								Zero (0) feet top of deck									
						▽			Water line									
									Mudline at El. -0.21' NAVD88									
-5	5	10			1			ML	Loose gray sandy silt with organic matter	28	96.7	0.31	0.058	9			0.16	54
		10.5			2			SC	Loose gray clayey sand	38	91.8	0.42	0.17	9	26	7	0.223	46
-10	10	8.5			3			SM	Loose gray silty sand									
		9			4			SC	Loose gray clayey sand	19								49
		10			5			CL	Very soft very sandy clay	20	109.5	0.23	0.52	10	17	5		53
-15	15	14			6				Soft tan and gray very sandy clay with ferrous nodules (organic content - 2.4%; specific gravity - 2.63; [1]FV @ 14' - 0.168 ksf)	24	101.4	0.47		15	33	19		
		10			7				Soft gray sandy clay	23	103.3	0.29	0.75	15				
-20	20	10.5			8				Very soft gray very silty clay with ferrous nodules	22	102	0.22		15	22	8		
		9			9				Soft to medium gray sandy clay with ferrous nodules ([1]FV @ 20' - 0.24 ksf)	22	100.4	0.50		15				
		10			10			CH	Medium tan and gray clay with sand pockets and lenses (SLS)	32	91.3	0.98		6	69	48		
-25	25	12			11				Stiff gray clay with sand and 5 inch sand with clay layer at bottom (SLS)	22	98.9	1.26		6				
												1.17*		14				
-30	30	13			12				Stiff gray clay with sand pockets	29	94.3	1.43		8	69	48		
	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-5

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-6
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715\023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
-35	35																
		10		13				Stiff light gray clay with sand streaks and pockets	30	91.5	1.17		4				
	40						SC										
-40		9.5		14				Firm brown clayey sand									
	45						CL										
		18		15				Medium gray clay with silt lenses	40	82.3	0.91		5	44	23	0.658	
-45	50																
		10.5		16				Medium gray clay with silt and shells (SLS)	32	89	0.70		6	42	24		
-50	55						CH										
		10.5		17				Medium gray clay with shells	46	74.3	0.60		6				
-55	60																
		4		18				Medium gray clay	45					68	44	0.311	
-60																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-5 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-6
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/31/2011	8/31/2011	64	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
5.2	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 14' 37.9" / W89° 51' 37.9"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
5	0				▽			Zero (0) feet top of deck Water line Mudline at El. +1.18' NAVD88									
		10		1			OH	Very soft dark gray organic clay with peat (organic content - 14%)	191	30	0.21	0.06	7	123	90	0.07	
0	5	9		2				Very soft dark gray organic clay with peat	357	17.7	0.11	0.17	14			0.117	
		9.5		3				Very soft dark gray organic clay with peat ([1]FV @ 9' - 0.036 ksf)	311	19.2	0.08	0.29	7			0.101	
-5	10	10		4				Very soft gray organic clay (specific gravity - 2.23)	149	33				125	77	0.128	
		8		5			PT	Very soft gray peat	425					358	211	0.176	
-10	15	10		6				Very soft gray peat ([1]FV @ 14' - 0.036 ksf)	376	15.7	0.17	0.63	7			0.237	
		10		7			SM	Firm gray silty sand with clay								0.248	39
		10		8			CL-ML	Soft gray clayey silt with organic matter traces ([1]FV @ 19' - 0.108 ksf)	21	105.2	0.29	0.86	12	19	5	0.349	
-15	20	10.5		9			CL	Medium gray sandy clay	19	109.5	0.96		15				
		8		10			CH	Stiff tan and gray clay with sand streaks and pockets	30	93.2	1.07		5	66	45		
-20	25																
		13		11				Medium tan and gray clay with sand lenses, pockets and streaks	30	92.3	0.73		3				
-25	30																
		12		12				Medium tan and gray clay (SLS)	49	75.4	0.93		5	86	56		
											0.96*		6				
	35																

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-6

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-7
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715\023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
-30	35																
		15		13				Stiff tan and gray clay (SLS)	47	75.4	1.03		3				
-35	40						CL										
		13		14				Medium tan and gray very sandy clay with sand pockets	27					27	12		
-40	45																
		10		15				Medium tan and gray clay with sand lenses and pockets	36	86.3	0.84		7			0.757	
-45	50						CH										
		15		16				Medium gray clay with sand lenses and pockets	42	78.7	0.71		5	52	32	0.527	
-50	55																
				17				Stiff gray clay									
-55	60																
		16		18				Medium gray clay with sand streaks and pockets	37	84.3	0.54		5	58	37	0.518	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-6 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-7
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/30/2011	8/30/2011	44	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
3.9	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 14' 50.2" / W89° 51' 31.9"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0								Zero (0) feet top of deck									
									Water line									
									Mudline at El. -0.10' NAVD88									
0		10			1			PT	Very soft brown peat								0.081	
	5	11			2			OH	Very soft brown organic clay with peat								0.09	
-5		9			3				Very soft brown organic clay with peat (organic content - 21%)	243					208	149	0.099	
	10	6			4				Very soft brown organic clay with peat	294	18.1	0.13	0.40	6			0.063	
		6			5				Very soft brown organic clay with peat (specific gravity - 1.66)	160	33.6				323	220	0.068	
-10		9			6				Very soft brown organic clay with peat	320	18.3	0.04	0.63	15	290	182	0.092	
	15	12			7				Very soft brown organic clay with organic matter ([1]FV @ 16' - 0.05 ksf)	228	25.2	0.16	0.75	7			0.192	
-15		8			8				Very soft brown organic clay	184					157	117		
	20	12			9				Very soft brown organic clay with organic matter and 2" sandy clay layer ([1]FV @ 20' = 0.05 ksf)	166	40	0.15	0.98	6				
		11			10			CL	Medium gray silty clay with 2" sand layer	30	96.8	0.72		15	23	10		
-20	25							CH										
		12			11				Stiff tan and gray clay with sand streaks	31	95.5	1.42		15	57	38		
-25	30																	
		11			12				Stiff tan and gray clay with silt streaks	44	84.1	1.04		5				
-30	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-7

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-8
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	35																
-35		11		13				Stiff tan and gray clay	42	80.9	1.38		4				
	40																
-40		9		14				Medium tan and gray clay	43	77.5	0.58		15	88	60		

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-7 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-8
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/30/2011	8/30/2011	44	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
5.4	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 14' 42.9" / W89° 50' 59.2"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample	Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
5	0					▽			Zero (0) feet top of deck									
									Water line									
									Mudline at El. +1.36' NAVD88									
		11			1			OH	Very soft dark gray organic clay and peat	469	11.4	0.05	0.06	5	641	449	0.043	
0	5	10			2				Very soft dark gray organic clay and peat	430	13.1	0.07	0.17	3			0.047	
		11			3				Very soft dark gray organic clay and peat ([1]FV @ 9' - 0.022 ksf) (organic content - 45%)	697	9.8	0.06	0.40	2	382	246	0.126	
-5	10	8			4			CH	Very soft gray clay with organic traces (organic content - 5.4%)	91	40.8	0.06	0.29	4	63	36	0.201	
		12			5				Soft gray clay with silt ([1]FV @ 13.5' - 0.214 ksf)	20	107	0.40	0.52	15				
		9			6				Medium gray clay with silt pockets	24	103.4	0.57	0.63	14			0.536	
-10	15	12			7			CL	Medium tan and gray very sandy clay	21	106.6	0.98		15	30	17		
		12			8				Stiff tan and gray sandy clay	19	108.9	1.25		15	37	24		
-15	20	8			9				Stiff tan and gray clay with sand streaks and pockets	22	106.6	1.04		5				
		11			10			CH	Stiff tan and gray clay with sand streaks and pockets	59								
-20	25																	
		11			11				Stiff tan and gray clay with sand streaks and pockets	23	103.8	1.96		10				
-25	30																	
		8			12				Stiff tan and gray clay	43					80	52		
	35																	

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Log of Boring B-8

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-9

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF) [1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
-30	35																
		12		13				Stiff tan and gray clay (SLS)	47	77.9	1.17		3				
-35	40																
		11		14				Stiff tan and gray clay (SLS)	37	82.2	0.88		6			0.618	
											1.02*		4				

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-8 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-9
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	8/30/2011	8/31/2011	62.5	RMB	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
4.8	N/A	Marsh Buggy-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater: Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 14' 31.7" / W89° 50' 36.0"	Geographic NAD83 (feet)			

Notes: See Figure A-1 for explanation of symbols.
Cement-bentonite grout backfill top 25 feet.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
	0				▽			Zero (0) feet top of deck									
								Water line									
								Mudline at El. +0.83' NAVD88									
0	5			1			PT	Very soft dark gray peat (no usable recovery)									
		9		2			OH	Very soft dark gray organic clay and peat (organic content - 57%)	394	12.8	0.09	0.17	10			0.088	
		5		3			PT	Very soft black peat	736					606	435	0.079	
-5	10	7		4			OH	Very soft dark gray organic clay with peat ([1]FV @ 10' - 0.027 ksf) (organic content - 8%)	562	11.4	0.12	0.40	2			0.029	
		8		5			CL	Very soft dark gray clay with silt and 1" peat layer ([1]FV unable to penetrate soil at 12' depth)	27	84.4	0.13	0.52	6	49	29	0.074	
-10	15	9		6				Very soft gray very silty clay with organic matter (specific gravity - 2.67)	26	96.7				27	14	0.025	
		10.5		7				Soft gray silty clay with silt pockets and ferrous nodules	29	89.9	0.26	0.75	15			0.379	
		12		8				Medium gray clay with silt	20	106.8	0.73		15	42	21		
-15	20	9		9				Stiff gray clay with sand	21	106.4	1.65		15				
		4		10				Stiff gray clay with sand streaks	20					43	27		
-20	25																
		10		11				Stiff tan and gray clay with sand streaks and pockets	21	106.2	1.47		10				
-25	30																
		10		12				Medium tan and gray clay with sand streaks and pockets	23	104.8	0.88		15			0.309	
-30	35																

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-9

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-10
Sheet 1 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	FIELD DATA: Blows/foot	FIELD DATA: Collected Sample	FIELD DATA: Sample Name	FIELD DATA: Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
-35	35																	
	40	6			13				Soft tan and gray very sandy clay with shells	29	96.4	0.38		11	28	11	0.397	
		9			14				Medium tan and gray clay with sand streaks, pockets and shells	26	97.6	0.90		15			0.525	
-40	45	9.5			15				Medium tan and gray clay with sand pockets and shells	23	96.8	0.87		6			0.631	
-45	50	3			16			CH	Medium gray clay	60					70	46		
-50	55	20			17				Soft gray clay with sand pockets and streaks	37	84.2	0.39		15				
-55	60	9			18				Soft tan and gray clay with sand pockets	40	83.1	0.42		7	54	33		

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-9 (continued)

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-10
Sheet 2 of 2

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled: Start 9/12/2011 End 9/12/2011	Total Depth (ft): 31.5	Logged By: SM Checked By: VT	Driller: Specialized Environmental Resources, LLC	Drilling Method: Wet Rotary	
Surface Elevation (ft) Vertical Datum: Undetermined		Hammer Data: N/A		Drilling Equipment: Pontoon Barge-Mounted Drill Rig	
Latitude: N30° 14' 13.0" Longitude: W89° 52' 20.0"		System Datum: Geographic NAD83 (feet)		Groundwater: Date Measured 9/12/2011; Depth to Water (ft) 1.0; Elevation (ft)	

Notes: See Figure A-1 for explanation of symbols.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0				▽			Zero (0) feet top of deck Water line									
	5																
	10							Mudline									
		3		1			CL	Very soft dark gray clay with silt	30					44	27		
		12		2				Medium gray silty clay with ferrous nodules								0.284	
	15	13		3				Soft gray very silty clay with ferrous nodules	25					26	12		
		8		4				Stiff gray silty clay with ferrous nodules									
	20	11		5				Stiff gray silty clay with ferrous nodules	24					40	22		
		13		6				Stiff gray silty clay with ferrous nodules									
		3		7			CH	Medium gray clay with ferrous nodules	38					53	34		
	25	9		8			CL	Medium gray silty clay with ferrous nodules									
		19		9			CH	Medium gray clay with ferrous nodules	34					84	55		
	30	13		10			CL	Medium gray silty clay with ferrous nodules									

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-10

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-11
Sheet 1 of 1

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled: Start 9/12/2011 End 9/12/2011	Total Depth (ft): 30	Logged By: SM Checked By: VT	Driller: Specialized Environmental Resources, LLC	Drilling Method: Wet Rotary	
Surface Elevation (ft) Vertical Datum: Undetermined		Hammer Data: N/A		Drilling Equipment: Pontoon Barge-Mounted Drill Rig	
Latitude: N30° 14' 10.6" Longitude: W89° 51' 56.1"		System Datum: Geographic NAD83 (feet)		Groundwater Date Measured: 9/12/2011 Depth to Water (ft): 1.0 Elevation (ft):	

Notes: See Figure A-1 for explanation of symbols.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0				▽			Zero (0) feet top of deck Water line									
	5																
	10	7		1			CL	Mudline Very soft gray silty clay with ferrous nodules									
		9		2				Soft gray very silty clay with ferrous nodules	24					31	17		
		8.5		3				Medium gray sandy clay with ferrous nodules									
	15	13		4				Medium gray very sandy clay with ferrous nodules	24					28	14		
		9		5			CH	Medium brown and gray clay with ferrous nodules									
	20	11		6				Medium green and gray clay with calcareous and ferrous nodules	25					70	49		
		6		7				Stiff green and gray clay with ferrous nodules									
	25	12		8				Stiff green and gray clay with ferrous nodules	27					69	49		
		5		9				Stiff green and gray clay with ferrous nodules									
	30	6		10			CL	Stiff green and gray clay with silt, sand pockets and ferrous nodules	28					47	33		

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-11

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-12
Sheet 1 of 1

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled: Start 9/12/2011 End 9/12/2011	Total Depth (ft): 31	Logged By: SM Checked By: VT	Driller: Specialized Environmental Resources, LLC	Drilling Method: Wet Rotary	
Surface Elevation (ft) Vertical Datum: Undetermined		Hammer Data: N/A		Drilling Equipment: Pontoon Barge-Mounted Drill Rig	
Latitude: N30° 13' 52.0" Longitude: W89° 52' 06.0"		System Datum: Geographic NAD83 (feet)		Groundwater: Date Measured 9/12/2011; Depth to Water (ft) 1.0; Elevation (ft)	

Notes: See Figure A-1 for explanation of symbols.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0				▽			Zero (0) feet top of deck Water line									
	5																
	10							Mudline									
		7		1			SC	Very soft dark gray clayey sand with shells	22					29	10		21
		9		2			CL	Very soft dark gray sandy clay with shells									
	15	10		3				Medium gray clay with silt, ferrous nodules and sand pockets	25					44	26		
		11		4				Medium gray silty clay with calcareous and ferrous nodules									
		12		5			CH	Medium gray clay with calcareous and ferrous nodules	23					54	34		
	20	2.5		6			CL	Medium gray silty clay with calcareous and ferrous nodules									
		11		7			CL-ML	Medium gray clayey silt with calcareous nodules	25					25	6		
	25	10		8			CL	Medium brown and gray silty clay with sand pockets and ferrous nodules									
		6.5		9				Medium tan and gray clay with silt pockets, lenses and ferrous nodules	34					49	29		
	30	9		10				Medium gray silty clay with silt pockets and ferrous nodules									

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-12

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-13
Sheet 1 of 1

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate/LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled: Start 9/12/2011 End 9/12/2011	Total Depth (ft): 31	Logged By: SM Checked By: VT	Driller: Specialized Environmental Resources, LLC	Drilling Method: Wet Rotary	
Surface Elevation (ft) Vertical Datum: Undetermined		Hammer Data: N/A		Drilling Equipment: Pontoon Barge-Mounted Drill Rig	
Latitude: N30° 13' 39.0" Longitude: W89° 52' 25.0"		System Datum: Geographic NAD83 (feet)		Groundwater Date Measured: 9/12/2011 Depth to Water (ft): 1.0 Elevation (ft):	

Notes: See Figure A-1 for explanation of symbols.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0				▽			Zero (0) feet top of deck Water line									
	5																
	10							Mudline									
		9		1			CL	Very soft dark gray very sandy clay with sand pockets	33					31	14		
		10		2				Loose dark gray sandy clay with shells									
	15	11		3				Soft gray very sandy clay with ferrous nodules	17					23	11		
		4		4				Soft gray very sandy clay with ferrous nodules									
		12		5				Medium gray very silty clay with ferrous nodules	18					30	18		
	20	13		6				Medium gray silty clay with ferrous nodules									
		13		7			CH	Medium gray clay with ferrous nodules, sand pockets and lenses	35					70	47		
	25	12		8				Medium gray clay with ferrous nodules									
		9		9				Medium gray clay with ferrous nodules	31					67	47		
		12		10			CL	Medium gray clay with silt pockets, lenses and ferrous nodules	22					42	25		
	30																

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-13

GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-14
Sheet 1 of 1

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

Drilled	Start	End	Total Depth (ft)	Logged By	Checked By	Driller	Drilling Method
	9/12/2011	9/12/2011	31	SM	VT	Specialized Environmental Resources, LLC	Wet Rotary

Surface Elevation (ft) Vertical Datum	Hammer Data	Drilling Equipment
Undetermined	N/A	Pontoon Barge-Mounted Drill Rig

Latitude / Longitude	System Datum	Groundwater Date Measured	Depth to Water (ft)	Elevation (ft)
N30° 13' 31.6" / W89° 52' 04.5"	Geographic NAD83 (feet)	9/12/2011	1.0	

Notes: See Figure A-1 for explanation of symbols.

Elevation (feet)	Depth (feet)	FIELD DATA: Interval Recovered (in)	Blows/foot	Collected Sample: Sample Name	Water Level	Graphic Log	Group Classification	MATERIAL DESCRIPTION	LABORATORY DATA: Water Content, %	Dry Density, (pcf)	Compressive Strength (TSF)[1]	Confining Pressure (KSF)	Strain, %	Liquid Limit (LL), %	Plasticity Index (PI), %	MiniVane Shear Strength (KSF)	Passing No. 200 Sieve, %
0	0				▽			Zero (0) feet top of deck Water line									
	5																
	10							Mudline									
		9		1			CL	Very soft dark gray sandy clay									
		2		2				Very soft dark gray sandy clay with ferrous nodules	31								
	15	8		3			CH	Very soft gray clay with ferrous nodules and shells									
		8.5		4				Very soft tan and gray clay with ferrous nodules	34					58	38		
		6.5		5				Very soft gray clay with ferrous nodules									
	20	8		6				Very soft tan and gray clay with ferrous nodules	30					75	53		
		0		7				Medium gray clay with sand pockets, lenses and ferrous nodules									
	25	4		8				Stiff tan and gray clay with ferrous and calcareous nodules	42					76	53		
		9		9				Medium brown and gray clay with ferrous nodules									
		9.5		10				Stiff brown and gray clay with silt pockets and ferrous nodules	34					63	44		
	30																

*Indicates a remold was used for strength testing.
[1]FV = Field Vane shear strength corrected for material characteristics.

Log of Boring B-14

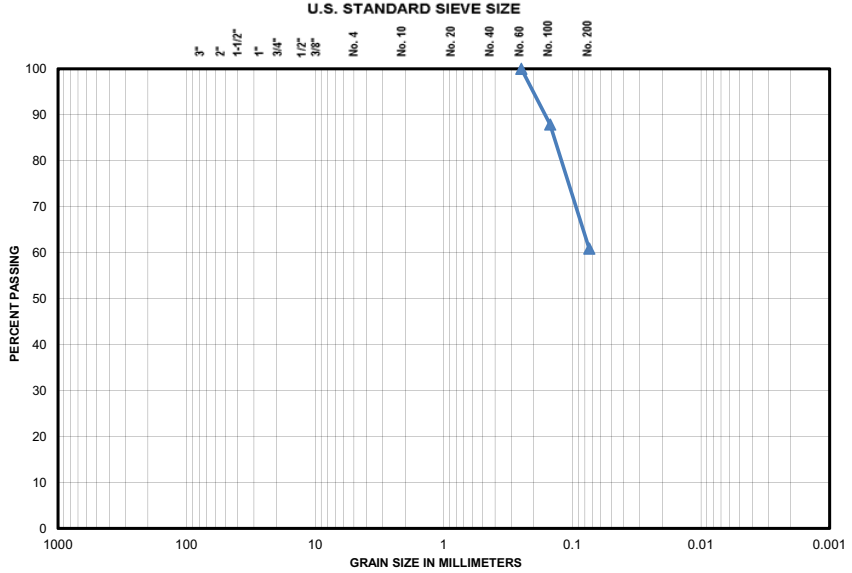
GeoEngineers

Project: Bayou Bonfouca Marsh Creation Project (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project Number: 16715-023-00

Figure A-15
Sheet 1 of 1

Baton Rouge: Date:3/21/12 Path:P:\16\16715023\GINT\BAYOU BONFOUCA MARSH CREATION BORING LOGS.GPJ DBTemplate\LibTemplate\GEOENGINEERS8.GDT/GEIB_GEOTECH_LAB

APPENDIX I-C
Laboratory Testing Results



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 %		39.1	
Coarse Sand %	0.0	Fines (Silt & Clay) %		60.9	
USC Classification	#N/A	C_U	na	C_C	na
Description (D 2488)	Silty sand (SM)				

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	100.0
1/2"	#N/A	No. 100	87.9
3/8"	#N/A	No. 200	60.9

Project		Bayou Bonfouca Marsh Creation		Date Tested	9/27/2011
Project No.		16715-023-00		Tested By	CE
Boring No.		3		Checked By	DAS
Source/Depth		37-39		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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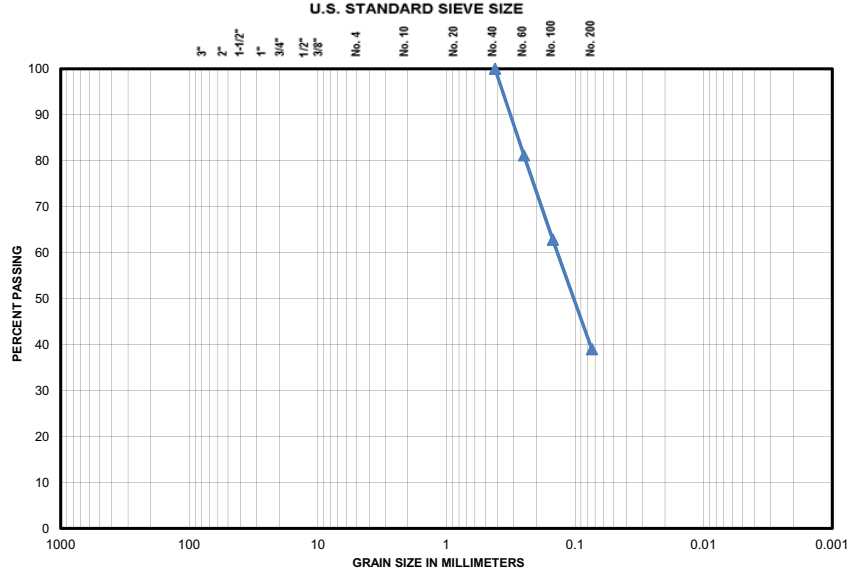
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



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 %		61.0	
Coarse Sand %	0.0	Fines (Silt & Clay) %		39.0	
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	81.2
1/2"	#N/A	No. 100	62.8
3/8"	#N/A	No. 200	39.0

Project		Bayou Bonfouca Marsh Creation		Date Tested	9/27/2011
Project No.		16715-023-00		Tested By	CE
Boring No.		6		Checked By	DAS
Source/Depth		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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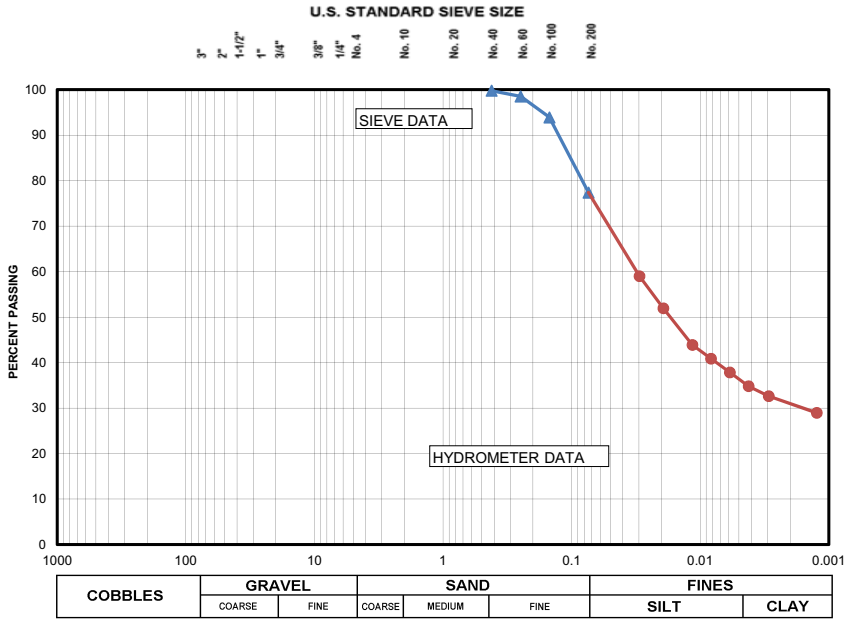
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	o

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	99.8
3/4"	100.0	No. 60	98.5
3/8"	100.0	No. 100	93.9
1/4"	100.0	No. 200	77.4

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	54381
Hydro jar ID:	1163

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/17/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	10	Checked By	DU
Source/Depth (feet)	Composite	Project Manager	JP

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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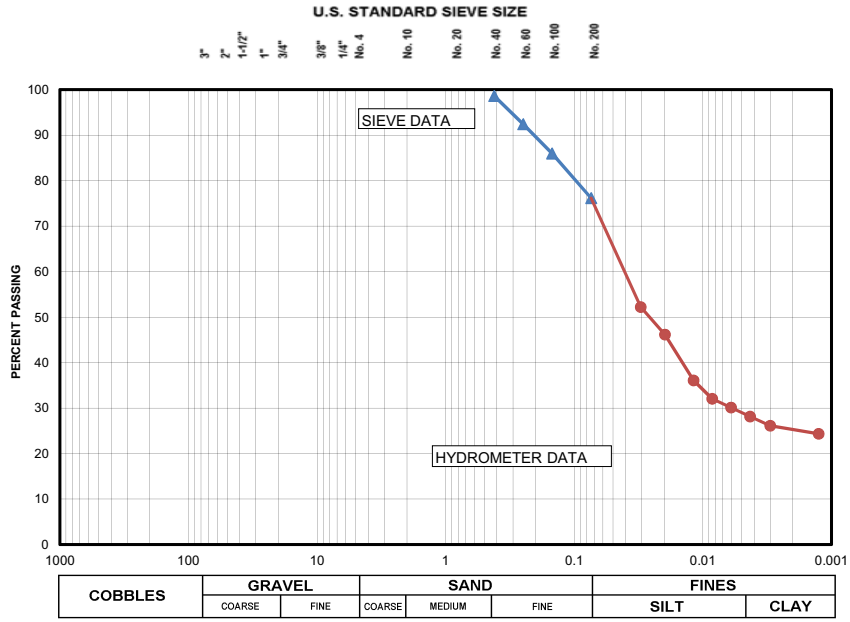
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	o

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	98.6
3/4"	100.0	No. 60	92.4
3/8"	100.0	No. 100	86.0
1/4"	100.0	No. 200	76.2

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	199355
Hydro jar ID:	1164

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/17/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	11	Checked By	DU
Source/Depth (feet)	Composite	Project Manager	JP

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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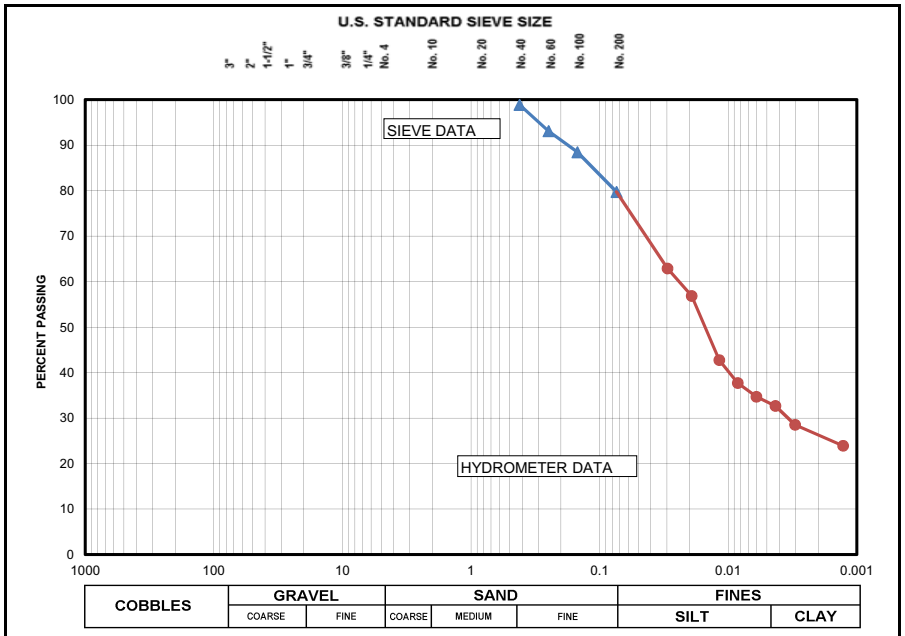
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	o

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	98.9
3/4"	100.0	No. 60	93.1
3/8"	100.0	No. 100	88.5
1/4"	100.0	No. 200	79.7

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	54355
Hydro jar ID:	1158

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/17/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	12	Checked By	DU
Source/Depth (feet)	Composite	Project Manager	JP

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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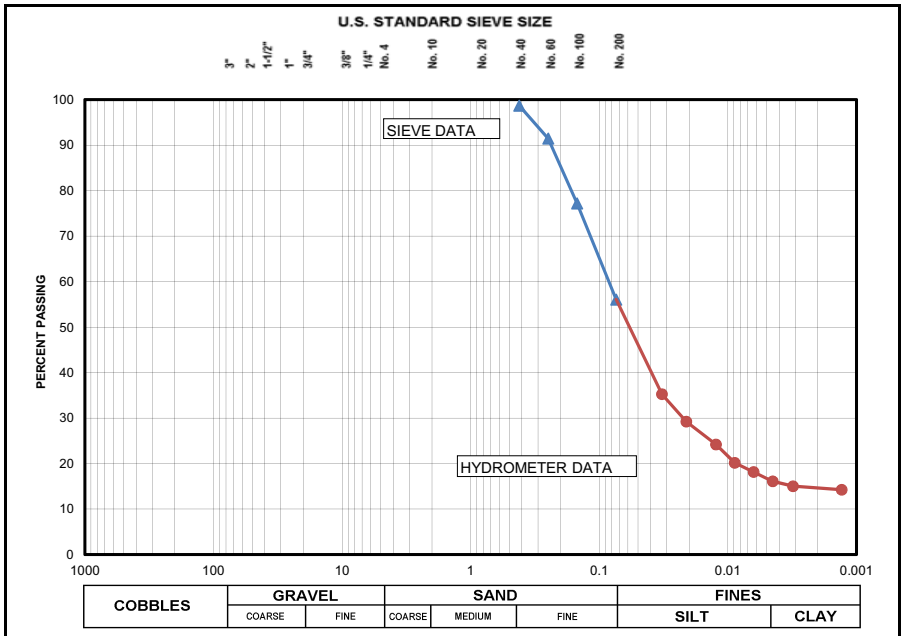
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	o

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	98.7
3/4"	100.0	No. 60	91.5
3/8"	100.0	No. 100	77.2
1/4"	100.0	No. 200	56.1

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	54355
Hydro jar ID:	1150

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/17/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	13	Checked By	DU
Source/Depth (feet)	Composite	Project Manager	JP

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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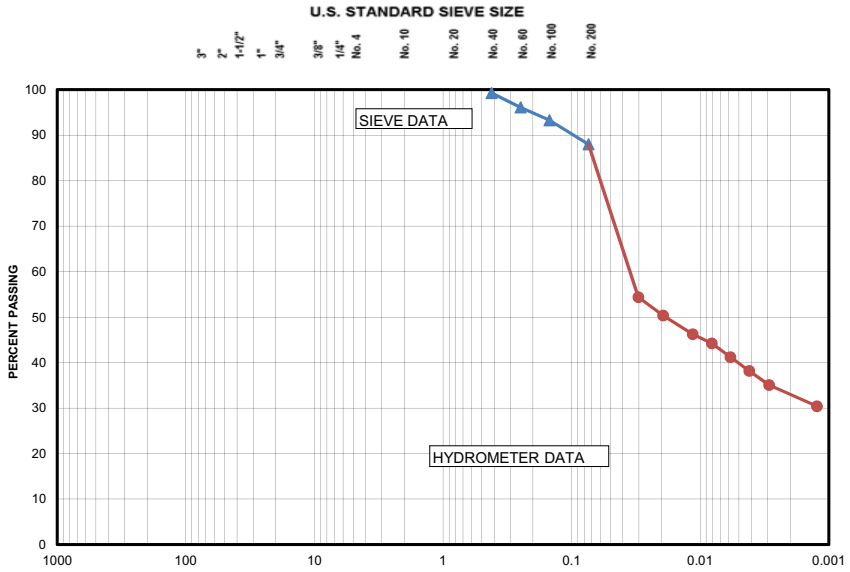
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	0

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	99.3
3/4"	100.0	No. 60	96.1
3/8"	100.0	No. 100	93.3
1/4"	100.0	No. 200	88.0

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	68515
Hydro jar ID:	1165

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/17/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	14	Checked By	DU
Source/Depth (feet)	Composite	Project Manager	JP

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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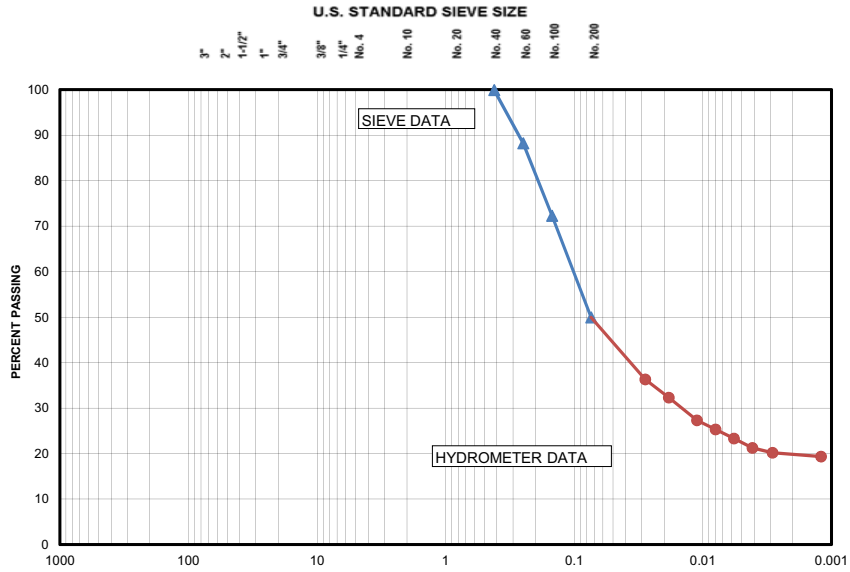
ASTM D 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00



Description (D 2488)	Composite Borrow Area Material

Individual Sieve Data - % Passing			
3"	100.0	No. 4	100.0
2"	100.0	No. 10	100.0
1 1/2"	100.0	No. 20	100.0
1"	100.0	No. 40	99.9
3/4"	100.0	No. 60	88.2
3/8"	100.0	No. 100	72.3
1/4"	100.0	No. 200	49.9

Specific Gravity*	2.65
Dispersion Device	Type A
Dispersion Time	1 min.
Dispersing Agent	$(NaPO_3)_6$
Hydrometer Type	ASTM 152 H
Hydrometer ID:	54355
Hydro jar ID:	1164

*assumed unless noted

Project	Bayou Bonfouca Marsh Creation	Date Tested	10/24/2011
Project No.	16715-023-00	Tested By	BH
Sample ID.	Composite	Checked By	DU
Source/Depth (feet)	-	Project Manager	JP

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 422 SOIL PARTICLE SIZE ANALYSIS

Bayou Bonfouca Marsh Creation

16715-023-00

107 ticks = 1.0
660 ticks = 1"

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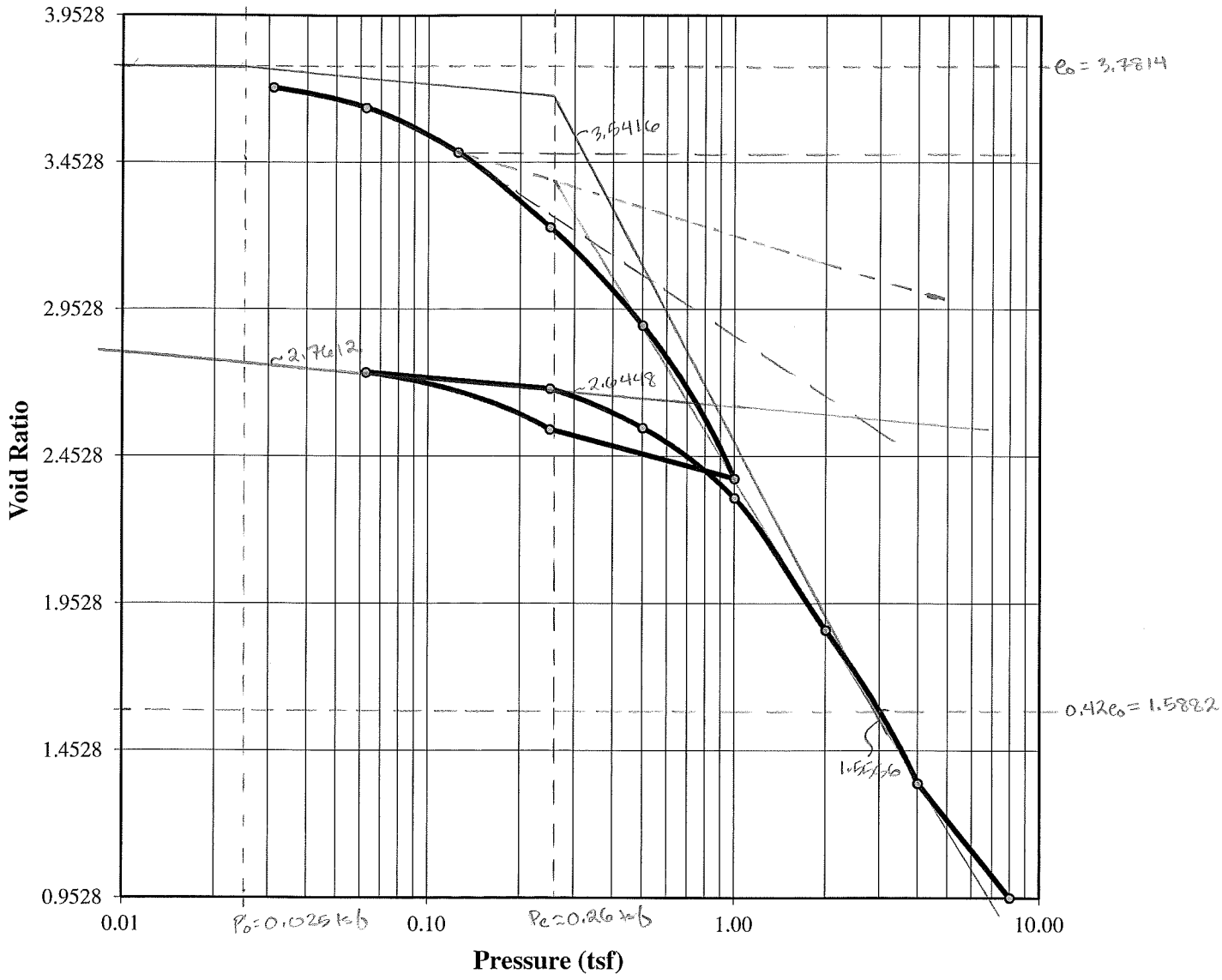
Consolidation Test
Test Results



	Before	After				
Moisture (%):	135.28	62.03	**Liquid Limits:**	141	**Test Date:**	19 Sept 11
Dry Density (pcf):	33.51	68.95	**Plastic Limits:**	42		
Saturation (%):	91.76	120.00	**Plasticity Index (%):**	99		
Void Ratio:	3.7814	0.9508	**Specific Gravity:**	2.574	Measured	

Soil Description: Organic clay (OH)

0.42e_o = 1.58982

Project Number: 16715-023-00 **Depth:** 6 - 8 feet

Sample Number: **Boring Number:** 1

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location:

Remarks: Mudline depth: 4ft, submerged

$\gamma = (1+w)(\gamma_d) = (2.574)(33.51)$
$= 78.84$ = γ_{ave} (assumed)

$\gamma' = 16.44$ pcf

$P'_o = 3'(16.44\ pcf) = 49.32$ psf

$P_c = 0.26$ tsf
$P'_o = 0.025$ tsf

$OCR = \frac{0.26}{0.025} = 10.4$

$C_c = \frac{3.64416 - 1.55556}{\log(3/0.3)} = \underline{1.9860}$

$CR = \frac{C_c}{1+e_o} = \frac{1.9860}{4.7814} = \underline{0.4154}$

$C_r = \frac{2.76128 - 2.64448}{\log(0.3/0.02)} = \underline{0.1164}$

$RR = \frac{C_r}{1+e_o} = \frac{0.1164}{4.7814} = \underline{0.0243}$

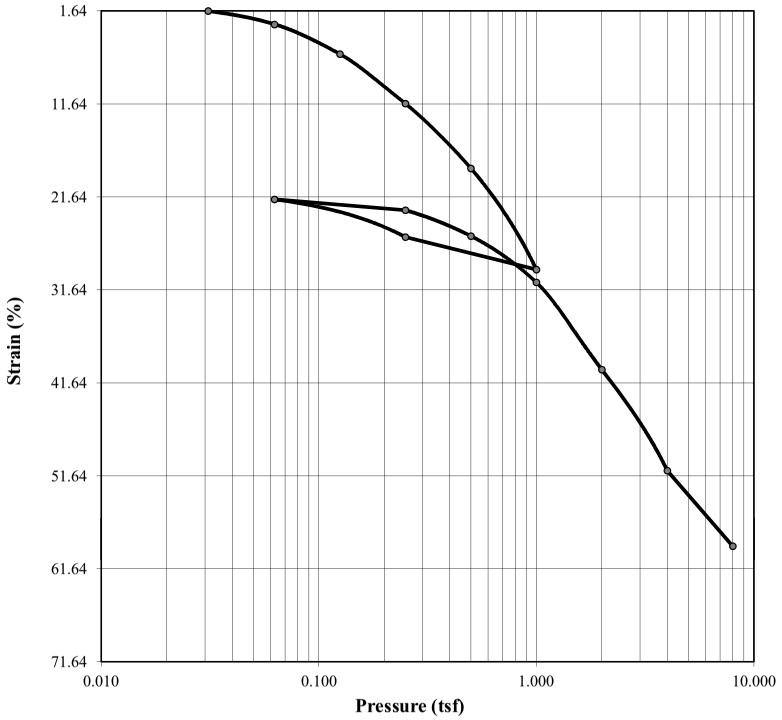
$C_{v\,100}$ @ P'_o = not on chart...
say 1000 ft²/yr

$C_{v\,100}$ @ P'_o ≈ 2.74 ft²/day

$C_{v\,100}$ @ P_c ≈ 11.204 ft²/yr
= 0.031 ft²/day

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	135.28	62.03	**Liquid Limits:**	141	**Test Date:**	19 Sept 11
Dry Density (pcf):	33.51	68.95	**Plastic Limits:**	42		
Saturation (%):	91.76	120.00	**Plasticity Index (%):**	99		
Void Ratio:	3.7814	0.9508	**Specific Gravity:**	2.574	Measured	

Sample Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 6 - 8 feet **Remarks:**

Sample Number: **Boring Number:** 1

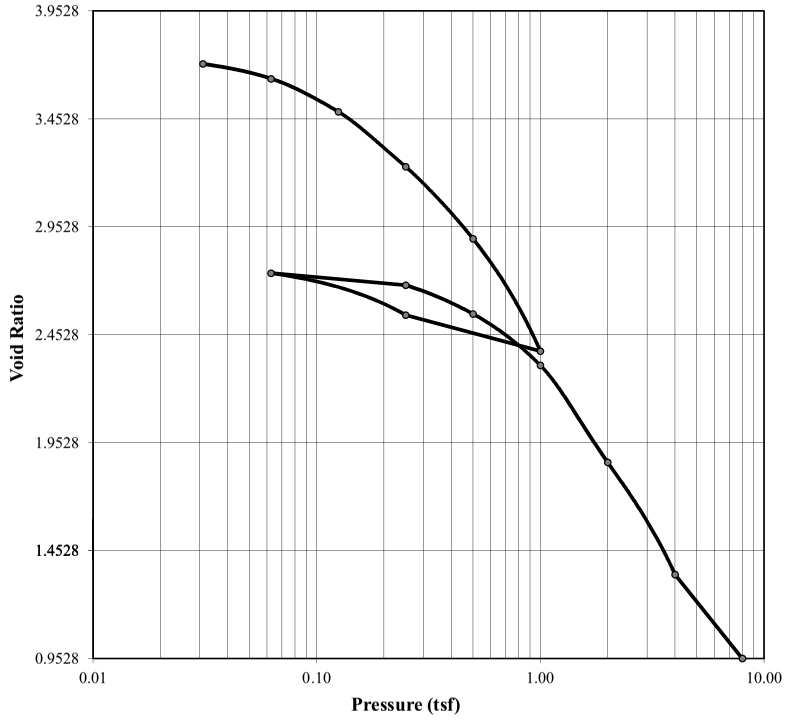
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	135.28	62.03	**Liquid Limits:**	141	**Test Date:**	19 Sept 11
Dry Density (pcf):	33.51	68.95	**Plastic Limits:**	42		
Saturation (%):	91.76	120.00	**Plasticity Index (%):**	99		
Void Ratio:	3.7814	0.9508	**Specific Gravity:**	2.574	Measured	

Soil Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 6 - 8 feet **Remarks:**

Sample Number: **Boring Number:** 1

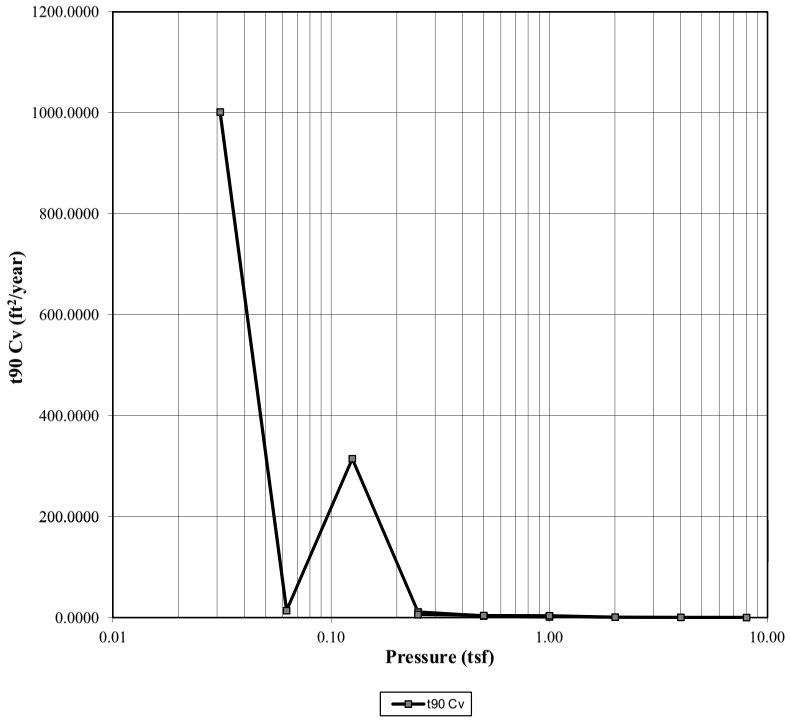
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	135.28	62.03	**Liquid Limits:**	141	**Test Date:**	19 Sept 11
Dry Density (pcf):	33.51	68.95	**Plastic Limits:**	42		
Saturation (%):	91.76	120.00	**Plasticity Index (%):**	99		
Void Ratio:	3.7814	0.9508	**Specific Gravity:**	2.574	Measured	

Soil Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 6 - 8 feet **Remarks:**

Sample Number: **Boring Number:** 1

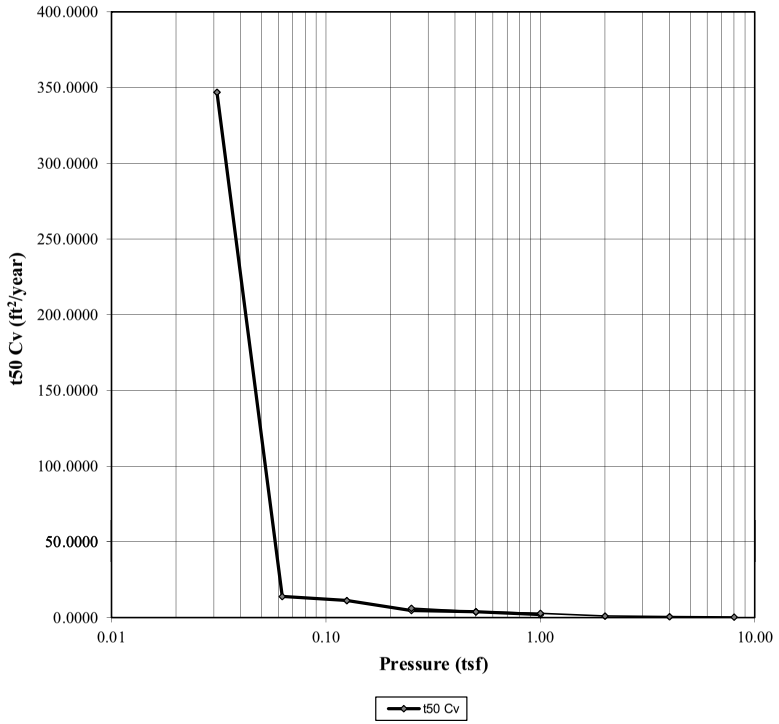
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	135.28	62.03	**Liquid Limits:**	141	**Test Date:**	19 Sept 11
Dry Density (pcf):	33.51	68.95	**Plastic Limits:**	42		
Saturation (%):	91.76	120.00	**Plasticity Index (%):**	99		
Void Ratio:	3.7814	0.9508	**Specific Gravity:**	2.574	Measured	

Soil Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 6 - 8 feet **Remarks:**

Sample Number: **Boring Number:** 1

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number:

Sample Number: **Sample Description:**
Boring Number: 1 Organic clay (OH)
Depth: 6 - 8 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 19 Sept 11

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	0.7500	0.5933	0.00	3.7863	0.000	0.000	0.000	0.000
1	0.031	0.0123	0.7377	0.5810	1.64	3.7078	0.420	0.282	1001.699	346.925
2	0.063	0.0232	0.7268	0.5701	3.09	3.6382	29.401	6.803	13.902	13.958
3	0.125	0.0471	0.7029	0.5462	6.28	3.4857	1.214	7.856	314.849	11.305
4	0.250	0.0870	0.6630	0.5063	11.60	3.2311	30.360	16.709	11.204	4.729
5	0.500	0.1393	0.6107	0.4540	18.57	2.8973	86.157	17.391	3.350	3.855
6	1.000	0.2209	0.5291	0.3724	29.45	2.3766	133.942	25.887	1.617	1.944
7	0.250	0.1947	0.5553	0.3986	25.96	2.5438	0.000	0.000	0.000	0.000
8	0.063	0.1643	0.5857	0.4290	21.91	2.7378	0.000	0.000	0.000	0.000
9	0.250	0.1730	0.5770	0.4203	23.07	2.6822	41.338	9.616	6.232	6.224
10	0.500	0.1939	0.5561	0.3994	25.85	2.5489	59.382	14.315	4.030	3.884
11	1.000	0.2312	0.5188	0.3621	30.83	2.3108	55.209	16.947	3.772	2.855
12	2.000	0.3016	0.4484	0.2917	40.21	1.8616	178.189	35.279	0.873	1.025
13	4.000	0.3831	0.3669	0.2102	51.08	1.3414	211.071	38.880	0.494	0.622
14	8.000	0.4440	0.3060	0.1493	59.20	0.9528	191.240	43.311	0.379	0.389

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11

Sample Number: **Sample Description:**
Boring Number: 1 Organic clay (OH)
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 141.0000 **Initial Void Ratio:** 3.7814 **Initial Height (in):** 0.7500
Plastic Limit: 42.0000 **Plasticity Index (%):** 99.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.5740 **Weight of Ring (g):** 106.9900
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	115.31	65.91
Dry Soil + Container (g)	61.97	49.31
Weight of Container (g)	22.54	22.55
Moisture Content (%)	135.28	62.03
Void Ratio	3.7814	0.9508
Saturation (%)	91.76	120.00
Dry Density (pcf)	33.51	68.95

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

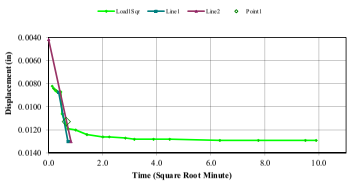
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0006	0.0000	0.0000	3.7814
1	00:00:01	0.0082	0.0076	1.0133	3.7330
2	00:00:02	0.0084	0.0078	1.0400	3.7317
3	00:00:03	0.0085	0.0079	1.0533	3.7311
4	00:00:04	0.0086	0.0080	1.0667	3.7304
5	00:00:05	0.0086	0.0080	1.0667	3.7304
6	00:00:06	0.0087	0.0081	1.0800	3.7298
7	00:00:12	0.0087	0.0081	1.0800	3.7298
8	00:00:15	0.0106	0.0100	1.3333	3.7177
9	00:00:30	0.0119	0.0113	1.5067	3.7094
10	00:01:00	0.0120	0.0114	1.5200	3.7087
11	00:02:00	0.0124	0.0118	1.5733	3.7062
12	00:04:01	0.0126	0.0120	1.6000	3.7049
13	00:05:01	0.0126	0.0120	1.6000	3.7049
14	00:08:02	0.0127	0.0121	1.6133	3.7043
15	00:10:02	0.0128	0.0122	1.6267	3.7036
16	00:15:02	0.0128	0.0122	1.6267	3.7036
17	00:20:03	0.0128	0.0122	1.6267	3.7036
18	00:40:05	0.0129	0.0123	1.6400	3.7030
19	01:00:06	0.0129	0.0123	1.6400	3.7030
20	01:30:11	0.0129	0.0123	1.6400	3.7030
21	01:37:53	0.0129	0.0123	1.6400	3.7030

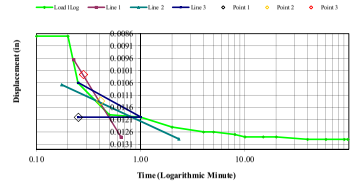
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

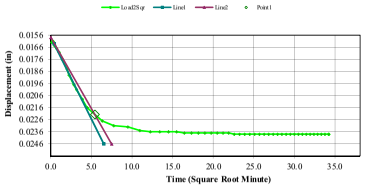
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0129	0.0123	1.6400	3.7030
1	00:00:01	0.0162	0.0156	2.0800	3.6820
2	00:00:02	0.0161	0.0155	2.0667	3.6826
3	00:00:03	0.0161	0.0155	2.0667	3.6826
4	00:00:04	0.0161	0.0155	2.0667	3.6826
5	00:00:05	0.0162	0.0156	2.0800	3.6820
6	00:00:06	0.0162	0.0156	2.0800	3.6820
7	00:00:12	0.0164	0.0158	2.1067	3.6807
8	00:00:15	0.0165	0.0159	2.1200	3.6801
9	00:00:30	0.0167	0.0161	2.1467	3.6788
10	00:01:00	0.0170	0.0164	2.1867	3.6769
11	00:02:00	0.0176	0.0170	2.2667	3.6730
12	00:04:00	0.0184	0.0178	2.3733	3.6679
13	00:05:00	0.0189	0.0183	2.4400	3.6648
14	00:08:01	0.0197	0.0191	2.5467	3.6597
15	00:10:01	0.0201	0.0195	2.6000	3.6571
16	00:15:01	0.0209	0.0203	2.7067	3.6520
17	00:20:01	0.0216	0.0210	2.8000	3.6475
18	00:40:01	0.0227	0.0221	2.9467	3.6405
19	01:00:01	0.0231	0.0225	3.0000	3.6380
20	01:30:00	0.0232	0.0226	3.0133	3.6373
21	02:00:00	0.0235	0.0229	3.0533	3.6354
22	02:29:59	0.0236	0.0230	3.0667	3.6348
23	02:59:59	0.0236	0.0230	3.0667	3.6348
24	03:29:59	0.0236	0.0230	3.0667	3.6348
25	03:59:59	0.0236	0.0230	3.0667	3.6348
26	04:29:58	0.0237	0.0231	3.0800	3.6342
27	04:59:58	0.0237	0.0231	3.0800	3.6342
28	05:29:58	0.0237	0.0231	3.0800	3.6342
29	05:59:57	0.0237	0.0231	3.0800	3.6342
30	06:29:57	0.0237	0.0231	3.0800	3.6342
31	06:59:56	0.0237	0.0231	3.0800	3.6342
32	07:29:56	0.0237	0.0231	3.0800	3.6342
33	07:59:55	0.0237	0.0231	3.0800	3.6342
34	08:29:54	0.0238	0.0232	3.0933	3.6335
35	08:59:53	0.0238	0.0232	3.0933	3.6335
36	09:29:53	0.0238	0.0232	3.0933	3.6335
37	09:59:52	0.0238	0.0232	3.0933	3.6335
38	10:29:51	0.0238	0.0232	3.0933	3.6335
39	10:59:51	0.0238	0.0232	3.0933	3.6335
40	11:29:50	0.0238	0.0232	3.0933	3.6335
41	11:59:49	0.0238	0.0232	3.0933	3.6335
42	12:29:49	0.0238	0.0232	3.0933	3.6335
43	12:59:48	0.0238	0.0232	3.0933	3.6335
44	13:29:47	0.0238	0.0232	3.0933	3.6335
45	13:59:46	0.0238	0.0232	3.0933	3.6335
46	14:29:46	0.0238	0.0232	3.0933	3.6335
47	14:59:45	0.0238	0.0232	3.0933	3.6335
48	15:29:44	0.0238	0.0232	3.0933	3.6335
49	15:59:44	0.0238	0.0232	3.0933	3.6335
50	16:29:43	0.0238	0.0232	3.0933	3.6335
51	16:59:43	0.0238	0.0232	3.0933	3.6335
52	17:29:42	0.0238	0.0232	3.0933	3.6335
53	17:59:42	0.0238	0.0232	3.0933	3.6335
54	18:29:42	0.0238	0.0232	3.0933	3.6335
55	18:59:42	0.0238	0.0232	3.0933	3.6335
56	19:29:42	0.0238	0.0232	3.0933	3.6335
57	19:33:09	0.0238	0.0232	3.0933	3.6335

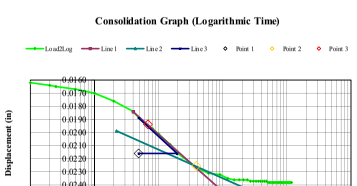
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 2) Load 0.063 tsf

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 19 Sept 11
Test Number:

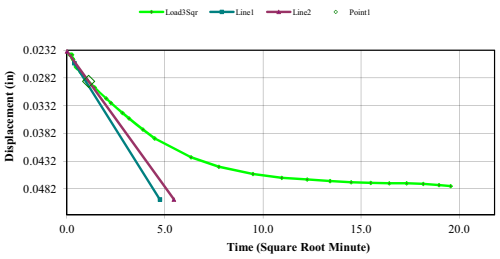
Sample Number:
Boring Number: 1
Depth: 6 - 8 feet
Sample Type: Undisturbed

Soil Description:
Remarks:

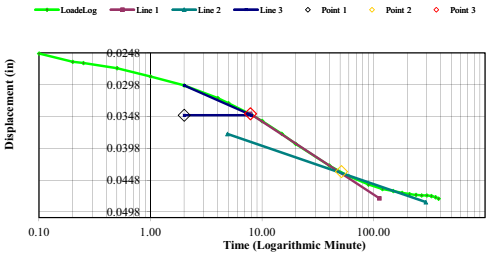
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0238	0.0232	3.0933	3.6335
1	00:00:01	0.0240	0.0234	3.1200	3.6322
2	00:00:02	0.0240	0.0234	3.1200	3.6322
3	00:00:03	0.0240	0.0234	3.1200	3.6322
4	00:00:04	0.0240	0.0234	3.1200	3.6322
5	00:00:05	0.0247	0.0241	3.2133	3.6278
6	00:00:06	0.0249	0.0243	3.2400	3.6265
7	00:00:12	0.0262	0.0256	3.4133	3.6182
8	00:00:15	0.0264	0.0258	3.4400	3.6169
9	00:00:30	0.0272	0.0266	3.5467	3.6118
10	00:01:00	0.0285	0.0279	3.7200	3.6036
11	00:02:00	0.0299	0.0293	3.9067	3.5946
12	00:04:00	0.0319	0.0313	4.1733	3.5819
13	00:05:00	0.0327	0.0321	4.2800	3.5768
14	00:08:00	0.0345	0.0339	4.5200	3.5653
15	00:10:00	0.0355	0.0349	4.6533	3.5589
16	00:15:00	0.0375	0.0369	4.9200	3.5462
17	00:20:00	0.0391	0.0385	5.1333	3.5360
18	00:40:00	0.0425	0.0419	5.5867	3.5143
19	00:59:59	0.0442	0.0436	5.8133	3.5035
20	01:29:58	0.0455	0.0449	5.9867	3.4952
21	01:59:58	0.0462	0.0456	6.0800	3.4907
22	02:29:57	0.0465	0.0459	6.1200	3.4888
23	02:59:57	0.0468	0.0462	6.1600	3.4869
24	03:29:57	0.0470	0.0464	6.1867	3.4856
25	03:59:58	0.0471	0.0465	6.2000	3.4850
26	04:29:58	0.0472	0.0466	6.2133	3.4843
27	04:59:58	0.0472	0.0466	6.2133	3.4843
28	05:29:57	0.0473	0.0467	6.2267	3.4837
29	05:59:57	0.0475	0.0469	6.2533	3.4824
30	06:22:41	0.0477	0.0471	6.2800	3.4811

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 19 Sept 11
Test Number:

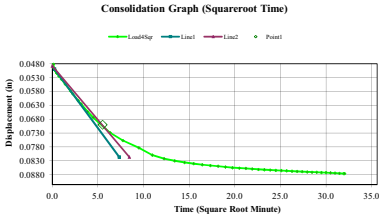
Sample Number:
Boring Number: 1
Depth: 6 - 8 feet
Sample Type: Undisturbed

Soil Description:
Remarks:

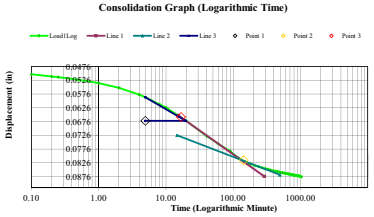
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0477	0.0471	6.2800	3.4811
1	00:00:01	0.0482	0.0476	6.3467	3.4780
2	00:00:02	0.0495	0.0489	6.5200	3.4697
3	00:00:03	0.0498	0.0492	6.5600	3.4678
4	00:00:04	0.0501	0.0495	6.6000	3.4658
5	00:00:05	0.0503	0.0497	6.6267	3.4646
6	00:00:06	0.0504	0.0498	6.6400	3.4639
7	00:00:12	0.0512	0.0506	6.7467	3.4588
8	00:00:15	0.0514	0.0508	6.7733	3.4576
9	00:00:30	0.0524	0.0518	6.9067	3.4512
10	00:01:00	0.0536	0.0530	7.0667	3.4435
11	00:02:00	0.0553	0.0547	7.2933	3.4327
12	00:04:00	0.0578	0.0572	7.6267	3.4168
13	00:05:00	0.0588	0.0582	7.7600	3.4104
14	00:08:00	0.0613	0.0607	8.0933	3.3944
15	00:10:00	0.0625	0.0619	8.2533	3.3868
16	00:15:00	0.0653	0.0647	8.6267	3.3689
17	00:20:00	0.0673	0.0667	8.8933	3.3562
18	00:39:59	0.0728	0.0722	9.6267	3.3211
19	00:59:59	0.0757	0.0751	10.0133	3.3026
20	01:29:59	0.0783	0.0777	10.3600	3.2861
21	01:59:59	0.0809	0.0803	10.7067	3.2695
22	02:29:59	0.0822	0.0816	10.8800	3.2612
23	02:59:58	0.0830	0.0824	10.9867	3.2561
24	03:29:58	0.0836	0.0830	11.0667	3.2523
25	03:59:57	0.0840	0.0834	11.1200	3.2497
26	04:29:57	0.0844	0.0838	11.1733	3.2472
27	04:59:57	0.0847	0.0841	11.2133	3.2453
28	05:29:58	0.0849	0.0843	11.2400	3.2440
29	05:59:57	0.0852	0.0846	11.2800	3.2421
30	06:29:56	0.0855	0.0849	11.3200	3.2402
31	06:59:55	0.0856	0.0850	11.3333	3.2395
32	07:29:55	0.0857	0.0851	11.3467	3.2389
33	07:59:55	0.0859	0.0853	11.3733	3.2376
34	08:29:56	0.0861	0.0855	11.4000	3.2363
35	08:59:56	0.0862	0.0856	11.4133	3.2357
36	09:29:55	0.0863	0.0857	11.4267	3.2351
37	09:59:54	0.0864	0.0858	11.4400	3.2344
38	10:29:53	0.0865	0.0859	11.4533	3.2338
39	10:59:53	0.0866	0.0860	11.4667	3.2332
40	11:29:53	0.0867	0.0861	11.4800	3.2325
41	11:59:53	0.0868	0.0862	11.4933	3.2319
42	12:29:53	0.0869	0.0863	11.5067	3.2312
43	12:59:53	0.0870	0.0864	11.5200	3.2306
44	13:29:53	0.0871	0.0865	11.5333	3.2300
45	13:59:52	0.0871	0.0865	11.5333	3.2300
46	14:29:51	0.0872	0.0866	11.5467	3.2293
47	14:59:51	0.0872	0.0866	11.5467	3.2293
48	15:29:50	0.0873	0.0867	11.5600	3.2287
49	15:59:50	0.0874	0.0868	11.5733	3.2281
50	16:29:50	0.0875	0.0869	11.5867	3.2274
51	16:59:51	0.0876	0.0870	11.6000	3.2268
52	17:06:24	0.0876	0.0870	11.6000	3.2268

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

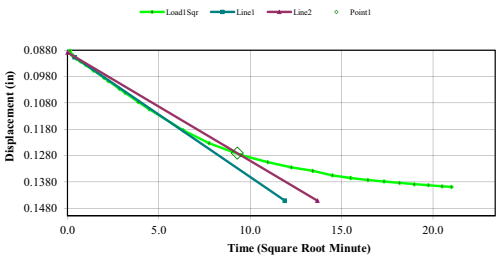
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0876	0.0870	11.6000	3.2268
1	00:00:01	0.0882	0.0876	11.6800	3.2230
2	00:00:02	0.0894	0.0888	11.8400	3.2153
3	00:00:03	0.0896	0.0890	11.8667	3.2140
4	00:00:04	0.0899	0.0893	11.9067	3.2121
5	00:00:05	0.0901	0.0895	11.9333	3.2108
6	00:00:06	0.0903	0.0897	11.9600	3.2096
7	00:00:12	0.0910	0.0904	12.0533	3.2051
8	00:00:15	0.0912	0.0906	12.0800	3.2038
9	00:00:30	0.0922	0.0916	12.2133	3.1975
10	00:01:00	0.0936	0.0930	12.4000	3.1885
11	00:02:00	0.0957	0.0951	12.6800	3.1751
12	00:04:00	0.0985	0.0979	13.0533	3.1573
13	00:05:00	0.0997	0.0991	13.2133	3.1496
14	00:08:00	0.1026	0.1020	13.6000	3.1311
15	00:10:00	0.1042	0.1036	13.8133	3.1209
16	00:15:00	0.1077	0.1071	14.2800	3.0986
17	00:20:00	0.1104	0.1098	14.6400	3.0814
18	00:39:59	0.1184	0.1178	15.7067	3.0304
19	00:59:59	0.1233	0.1227	16.3600	2.9992
20	01:29:58	0.1278	0.1272	16.9600	2.9705
21	01:59:58	0.1305	0.1299	17.3200	2.9533
22	02:29:58	0.1325	0.1319	17.5867	2.9405
23	02:59:58	0.1338	0.1332	17.7600	2.9322
24	03:29:58	0.1355	0.1349	17.9867	2.9214
25	03:59:57	0.1365	0.1359	18.1200	2.9150
26	04:29:56	0.1373	0.1367	18.2267	2.9099
27	04:59:57	0.1378	0.1372	18.2933	2.9067
28	05:29:57	0.1384	0.1378	18.3733	2.9029
29	05:59:56	0.1389	0.1383	18.4400	2.8997
30	06:29:56	0.1392	0.1386	18.4800	2.8978
31	06:59:55	0.1397	0.1391	18.5467	2.8946
32	07:21:18	0.1399	0.1393	18.5733	2.8934

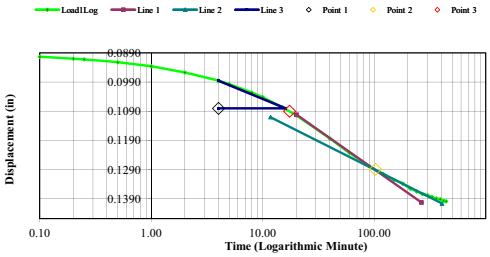
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

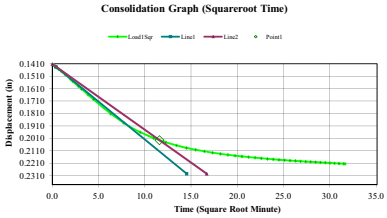
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1399	0.1393	18.5733	2.8934
1	00:00:01	0.1417	0.1411	18.8133	2.8819
2	00:00:02	0.1422	0.1416	18.8800	2.8787
3	00:00:03	0.1424	0.1418	18.9067	2.8774
4	00:00:04	0.1427	0.1421	18.9467	2.8755
5	00:00:05	0.1429	0.1423	18.9733	2.8742
6	00:00:06	0.1431	0.1425	19.0000	2.8730
7	00:00:12	0.1439	0.1433	19.1067	2.8679
8	00:00:15	0.1442	0.1436	19.1467	2.8659
9	00:00:30	0.1455	0.1449	19.3200	2.8577
10	00:01:00	0.1472	0.1466	19.5467	2.8468
11	00:02:00	0.1498	0.1492	19.8933	2.8302
12	00:04:00	0.1536	0.1530	20.4000	2.8060
13	00:05:00	0.1552	0.1546	20.6133	2.7958
14	00:08:00	0.1591	0.1585	21.1333	2.7709
15	00:10:00	0.1613	0.1607	21.4267	2.7569
16	00:15:00	0.1659	0.1653	22.0400	2.7276
17	00:20:00	0.1697	0.1691	22.5467	2.7034
18	00:39:59	0.1813	0.1807	24.0933	2.6294
19	00:59:59	0.1887	0.1881	25.0800	2.5822
20	01:29:59	0.1960	0.1954	26.0533	2.5357
21	01:59:59	0.2008	0.2002	26.6933	2.5051
22	02:29:58	0.2042	0.2036	27.1467	2.4834
23	02:59:58	0.2067	0.2061	27.4800	2.4675
24	03:29:58	0.2087	0.2081	27.7467	2.4547
25	03:59:57	0.2102	0.2096	27.9467	2.4452
26	04:29:57	0.2114	0.2108	28.1067	2.4375
27	**04:59:57**	**0.2126**	**0.2120**	**28.2667**	**2.4299**
28	05:29:57	0.2135	0.2129	28.3867	2.4241
29	05:59:56	0.2143	0.2137	28.4933	2.4190
30	06:29:56	0.2150	0.2144	28.5867	2.4146
31	06:59:56	0.2155	0.2149	28.6533	2.4114
32	07:29:55	0.2160	0.2154	28.7200	2.4082
33	07:59:55	0.2166	0.2160	28.8000	2.4044
34	08:29:55	0.2170	0.2164	28.8533	2.4018
35	08:59:55	0.2175	0.2169	28.9200	2.3986
36	09:29:54	0.2178	0.2172	28.9600	2.3967
37	09:59:53	0.2183	0.2177	29.0267	2.3935
38	10:29:54	0.2185	0.2179	29.0533	2.3923
39	10:59:53	0.2189	0.2183	29.1067	2.3897
40	11:29:53	0.2191	0.2185	29.1333	2.3884
41	11:59:53	0.2194	0.2188	29.1733	2.3865
42	12:29:53	0.2197	0.2191	29.2133	2.3846
43	12:59:52	0.2199	0.2193	29.2400	2.3833
44	13:29:52	0.2201	0.2195	29.2667	2.3821
45	13:59:52	0.2204	0.2198	29.3067	2.3801
46	14:29:52	0.2206	0.2200	29.3333	2.3789
47	14:59:51	0.2208	0.2202	29.3600	2.3776
48	15:29:50	0.2210	0.2204	29.3867	2.3763
49	15:59:51	0.2212	0.2206	29.4133	2.3750
50	16:29:50	0.2214	0.2208	29.4400	2.3738
51	16:39:59	0.2215	0.2209	29.4533	2.3731

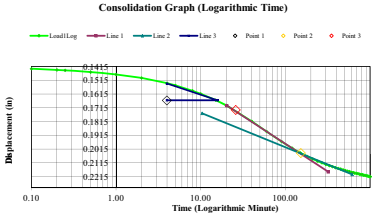
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

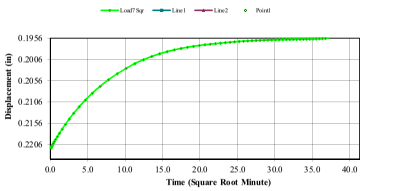
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2215	0.2209	29.4533	2.3731
1	00:00:01	0.2214	0.2208	29.4400	2.3738
2	00:00:02	0.2213	0.2207	29.4267	2.3744
3	00:00:03	0.2211	0.2205	29.4000	2.3757
4	00:00:04	0.2207	0.2201	29.3467	2.3782
5	00:00:05	0.2207	0.2201	29.3467	2.3782
6	00:00:06	0.2206	0.2200	29.3333	2.3789
7	00:00:12	0.2201	0.2195	29.2667	2.3821
8	00:00:15	0.2200	0.2194	29.2533	2.3827
9	00:00:30	0.2194	0.2188	29.1733	2.3865
10	00:01:00	0.2186	0.2180	29.0667	2.3916
11	00:02:00	0.2175	0.2169	28.9200	2.3986
12	00:04:00	0.2158	0.2152	28.6933	2.4095
13	00:05:00	0.2151	0.2145	28.6000	2.4139
14	00:08:00	0.2135	0.2129	28.3867	2.4241
15	00:10:00	0.2126	0.2120	28.2667	2.4299
16	00:14:59	0.2106	0.2100	28.0000	2.4426
17	00:19:59	0.2092	0.2086	27.8133	2.4515
18	00:39:59	0.2055	0.2049	27.3200	2.4751
19	01:00:00	0.2033	0.2027	27.0267	2.4892
20	01:29:59	0.2015	0.2009	26.7867	2.5006
21	01:59:58	0.2004	0.1998	26.6400	2.5077
22	02:29:59	0.1996	0.1990	26.5333	2.5128
23	02:59:59	0.1990	0.1984	26.4533	2.5166
24	03:29:58	0.1986	0.1980	26.4000	2.5191
25	03:59:58	0.1984	0.1978	26.3733	2.5204
26	04:29:58	0.1982	0.1976	26.3467	2.5217
27	04:59:57	0.1980	0.1974	26.3200	2.5230
28	05:29:58	0.1975	0.1969	26.2533	2.5261
29	05:59:57	0.1973	0.1967	26.2267	2.5274
30	06:29:57	0.1972	0.1966	26.2133	2.5281
31	06:59:56	0.1970	0.1964	26.1867	2.5293
32	07:29:56	0.1969	0.1963	26.1733	2.5300
33	07:59:56	0.1968	0.1962	26.1600	2.5306
34	08:29:55	0.1968	0.1962	26.1600	2.5306
35	08:59:55	0.1967	0.1961	26.1467	2.5312
36	09:29:55	0.1967	0.1961	26.1467	2.5312
37	09:59:54	0.1964	0.1958	26.1067	2.5332
38	10:29:55	0.1963	0.1957	26.0933	2.5338
39	10:59:54	0.1962	0.1956	26.0800	2.5344
40	11:29:54	0.1962	0.1956	26.0800	2.5344
41	11:59:54	0.1961	0.1955	26.0667	2.5351
42	12:29:53	0.1961	0.1955	26.0667	2.5351
43	12:59:53	0.1960	0.1954	26.0533	2.5357
44	13:29:53	0.1960	0.1954	26.0533	2.5357
45	13:59:52	0.1960	0.1954	26.0533	2.5357
46	14:29:52	0.1960	0.1954	26.0533	2.5357
47	14:59:52	0.1960	0.1954	26.0533	2.5357
48	15:29:52	0.1959	0.1953	26.0400	2.5363
49	15:59:51	0.1959	0.1953	26.0400	2.5363
50	16:29:51	0.1959	0.1953	26.0400	2.5363
51	16:59:51	0.1959	0.1953	26.0400	2.5363
52	17:29:50	0.1959	0.1953	26.0400	2.5363
53	17:59:50	0.1959	0.1953	26.0400	2.5363
54	18:29:50	0.1958	0.1952	26.0267	2.5370
55	18:59:49	0.1958	0.1952	26.0267	2.5370
56	19:29:49	0.1958	0.1952	26.0267	2.5370
57	19:59:49	0.1958	0.1952	26.0267	2.5370
58	20:29:49	0.1958	0.1952	26.0267	2.5370
59	20:59:48	0.1958	0.1952	26.0267	2.5370
60	21:29:48	0.1957	0.1951	26.0133	2.5376
61	21:59:48	0.1957	0.1951	26.0133	2.5376
62	22:29:47	0.1957	0.1951	26.0133	2.5376
63	22:59:47	0.1957	0.1951	26.0133	2.5376
64	23:29:47	0.1953	0.1947	25.9600	2.5402
65	23:59:07	0.1953	0.1947	25.9600	2.5402

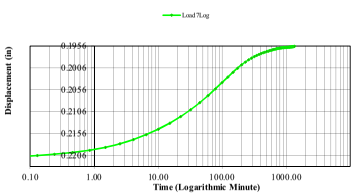
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

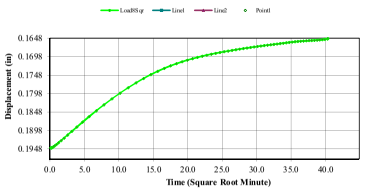
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1953	0.1947	25.9600	2.5402
1	00:00:01	0.1945	0.1939	25.8533	2.5453
2	00:00:01	0.1945	0.1939	25.8533	2.5453
3	00:00:02	0.1945	0.1939	25.8533	2.5453
4	00:00:03	0.1945	0.1939	25.8533	2.5453
5	00:00:04	0.1945	0.1939	25.8533	2.5453
6	00:00:05	0.1944	0.1938	25.8400	2.5459
7	00:00:11	0.1943	0.1937	25.8267	2.5465
8	00:00:14	0.1943	0.1937	25.8267	2.5465
9	00:00:29	0.1940	0.1934	25.7867	2.5485
10	00:00:59	0.1936	0.1930	25.7333	2.5510
11	00:01:59	0.1929	0.1923	25.6400	2.5555
12	00:03:59	0.1920	0.1914	25.5200	2.5612
13	00:04:59	0.1917	0.1911	25.4800	2.5631
14	00:07:59	0.1906	0.1900	25.3333	2.5701
15	00:09:59	0.1901	0.1895	25.2667	2.5733
16	00:14:59	0.1888	0.1882	25.0933	2.5816
17	00:19:59	0.1878	0.1872	24.9600	2.5880
18	00:40:00	0.1845	0.1839	24.5200	2.6090
19	01:00:02	0.1821	0.1815	24.2000	2.6243
20	01:30:04	0.1795	0.1789	23.8533	2.6409
21	02:00:07	0.1776	0.1770	23.6000	2.6530
22	02:30:09	0.1761	0.1755	23.4000	2.6626
23	03:00:11	0.1750	0.1744	23.2533	2.6696
24	03:30:13	0.1740	0.1734	23.1200	2.6760
25	04:00:16	0.1732	0.1726	23.0133	2.6811
26	04:30:18	0.1725	0.1719	22.9200	2.6855
27	05:00:20	0.1719	0.1713	22.8400	2.6893
28	05:30:22	0.1714	0.1708	22.7733	2.6925
29	06:00:25	0.1710	0.1704	22.7200	2.6951
30	06:30:27	0.1705	0.1699	22.6533	2.6983
31	07:00:29	0.1702	0.1696	22.6133	2.7002
32	07:30:32	0.1698	0.1692	22.5600	2.7027
33	08:00:34	0.1696	0.1690	22.5333	2.7040
34	08:30:36	0.1694	0.1688	22.5067	2.7053
35	09:00:38	0.1690	0.1684	22.4533	2.7078
36	09:30:41	0.1688	0.1682	22.4267	2.7091
37	10:00:43	0.1687	0.1681	22.4133	2.7097
38	10:30:45	0.1685	0.1679	22.3867	2.7110
39	11:00:48	0.1682	0.1676	22.3467	2.7129
40	11:30:50	0.1680	0.1674	22.3200	2.7142
41	12:00:52	0.1679	0.1673	22.3067	2.7148
42	12:30:54	0.1678	0.1672	22.2933	2.7155
43	13:00:57	0.1677	0.1671	22.2800	2.7161
44	13:30:59	0.1675	0.1669	22.2533	2.7174
45	14:01:01	0.1673	0.1667	22.2267	2.7187
46	14:31:03	0.1671	0.1665	22.2000	2.7199
47	15:01:06	0.1670	0.1664	22.1867	2.7206
48	15:31:08	0.1669	0.1663	22.1733	2.7212
49	16:01:10	0.1667	0.1661	22.1467	2.7225
50	16:31:13	0.1666	0.1660	22.1333	2.7231
51	17:01:15	0.1665	0.1659	22.1200	2.7238
52	17:31:17	0.1665	0.1659	22.1200	2.7238
53	18:01:19	0.1664	0.1658	22.1067	2.7244
54	18:31:22	0.1664	0.1658	22.1067	2.7244
55	19:01:24	0.1663	0.1657	22.0933	2.7250
56	19:31:26	0.1662	0.1656	22.0800	2.7257
57	20:01:29	0.1658	0.1652	22.0267	2.7282
58	20:31:31	0.1657	0.1651	22.0133	2.7289
59	21:01:33	0.1656	0.1650	22.0000	2.7295
60	21:31:36	0.1656	0.1650	22.0000	2.7295
61	22:01:38	0.1656	0.1650	22.0000	2.7295
62	22:31:40	0.1655	0.1649	21.9867	2.7301
63	23:01:42	0.1655	0.1649	21.9867	2.7301
64	23:31:45	0.1655	0.1649	21.9867	2.7301
65	24:01:47	0.1654	0.1648	21.9733	2.7308
66	24:31:49	0.1654	0.1648	21.9733	2.7308
67	25:01:52	0.1653	0.1647	21.9600	2.7314
68	25:31:54	0.1653	0.1647	21.9600	2.7314
69	26:01:56	0.1652	0.1646	21.9467	2.7321
70	26:31:58	0.1651	0.1645	21.9333	2.7327
71	27:02:01	0.1650	0.1644	21.9200	2.7333
72	27:07:06	0.1649	0.1643	21.9067	2.7340

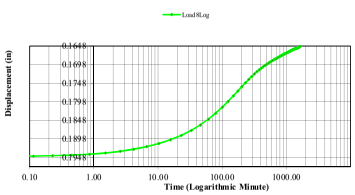
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

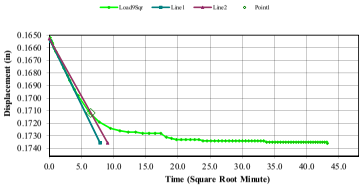
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1649	0.1643	21.9067	2.7340
1	00:00:01	0.1652	0.1646	21.9467	2.7321
2	00:00:02	0.1654	0.1648	21.9733	2.7308
3	00:00:03	0.1654	0.1648	21.9733	2.7308
4	00:00:04	0.1655	0.1649	21.9867	2.7301
5	00:00:05	0.1655	0.1649	21.9867	2.7301
6	00:00:06	0.1655	0.1649	21.9867	2.7301
7	00:00:12	0.1656	0.1650	22.0000	2.7295
8	00:00:15	0.1657	0.1651	22.0133	2.7289
9	00:00:30	0.1660	0.1654	22.0533	2.7270
10	00:01:00	0.1663	0.1657	22.0933	2.7250
11	00:02:01	0.1667	0.1661	22.1467	2.7225
12	00:04:01	0.1673	0.1667	22.2267	2.7187
13	00:05:01	0.1676	0.1670	22.2667	2.7168
14	00:08:01	0.1682	0.1676	22.3467	2.7129
15	00:10:01	0.1686	0.1680	22.4000	2.7104
16	00:15:02	0.1693	0.1687	22.4933	2.7059
17	00:20:02	0.1698	0.1692	22.5600	2.7027
18	00:40:03	0.1712	0.1706	22.7467	2.6938
19	01:00:05	0.1719	0.1713	22.8400	2.6893
20	01:30:07	0.1724	0.1718	22.9067	2.6862
21	02:00:10	0.1726	0.1720	22.9333	2.6849
22	02:30:12	0.1727	0.1721	22.9467	2.6842
23	03:00:14	0.1727	0.1721	22.9467	2.6842
24	03:30:16	0.1728	0.1722	22.9600	2.6836
25	04:00:19	0.1728	0.1722	22.9600	2.6836
26	04:30:21	0.1728	0.1722	22.9600	2.6836
27	05:00:23	0.1728	0.1722	22.9600	2.6836
28	05:30:26	0.1731	0.1725	23.0000	2.6817
29	06:00:28	0.1732	0.1726	23.0133	2.6811
30	06:30:30	0.1733	0.1727	23.0267	2.6804
31	07:00:32	0.1733	0.1727	23.0267	2.6804
32	07:30:35	0.1733	0.1727	23.0267	2.6804
33	08:00:37	0.1733	0.1727	23.0267	2.6804
34	08:30:39	0.1733	0.1727	23.0267	2.6804
35	09:00:42	0.1733	0.1727	23.0267	2.6804
36	09:30:44	0.1734	0.1728	23.0400	2.6798
37	10:00:46	0.1734	0.1728	23.0400	2.6798
38	10:30:48	0.1734	0.1728	23.0400	2.6798
39	11:00:51	0.1734	0.1728	23.0400	2.6798
40	11:30:53	0.1734	0.1728	23.0400	2.6798
41	12:00:55	0.1734	0.1728	23.0400	2.6798
42	12:30:58	0.1734	0.1728	23.0400	2.6798
43	13:01:00	0.1734	0.1728	23.0400	2.6798
44	13:31:02	0.1734	0.1728	23.0400	2.6798
45	14:01:04	0.1734	0.1728	23.0400	2.6798
46	14:31:07	0.1734	0.1728	23.0400	2.6798
47	15:01:09	0.1734	0.1728	23.0400	2.6798
48	15:31:11	0.1734	0.1728	23.0400	2.6798
49	16:01:13	0.1734	0.1728	23.0400	2.6798
50	16:31:16	0.1734	0.1728	23.0400	2.6798
51	17:01:18	0.1734	0.1728	23.0400	2.6798
52	17:31:20	0.1734	0.1728	23.0400	2.6798
53	18:01:23	0.1734	0.1728	23.0400	2.6798
54	18:31:25	0.1734	0.1728	23.0400	2.6798
55	19:01:27	0.1735	0.1729	23.0533	2.6791
56	19:31:29	0.1735	0.1729	23.0533	2.6791
57	20:01:32	0.1735	0.1729	23.0533	2.6791
58	20:31:34	0.1735	0.1729	23.0533	2.6791
59	21:01:36	0.1735	0.1729	23.0533	2.6791
60	21:31:38	0.1735	0.1729	23.0533	2.6791
61	22:01:41	0.1735	0.1729	23.0533	2.6791
62	22:31:43	0.1735	0.1729	23.0533	2.6791
63	23:01:45	0.1735	0.1729	23.0533	2.6791
64	23:31:48	0.1735	0.1729	23.0533	2.6791
65	24:01:50	0.1735	0.1729	23.0533	2.6791
66	24:31:52	0.1735	0.1729	23.0533	2.6791
67	25:01:54	0.1735	0.1729	23.0533	2.6791
68	25:31:57	0.1735	0.1729	23.0533	2.6791
69	26:01:59	0.1735	0.1729	23.0533	2.6791
70	26:32:01	0.1735	0.1729	23.0533	2.6791
71	27:02:04	0.1735	0.1729	23.0533	2.6791
72	27:32:06	0.1735	0.1729	23.0533	2.6791
73	28:02:08	0.1735	0.1729	23.0533	2.6791
74	28:32:11	0.1735	0.1729	23.0533	2.6791
75	29:02:13	0.1735	0.1729	23.0533	2.6791
76	29:32:15	0.1735	0.1729	23.0533	2.6791
77	30:02:18	0.1735	0.1729	23.0533	2.6791
78	30:32:20	0.1735	0.1729	23.0533	2.6791
79	31:02:22	0.1735	0.1729	23.0533	2.6791
80	31:09:25	0.1736	0.1730	23.0667	2.6785

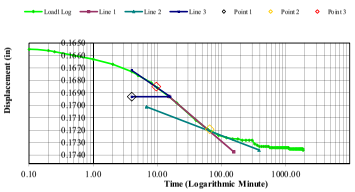
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

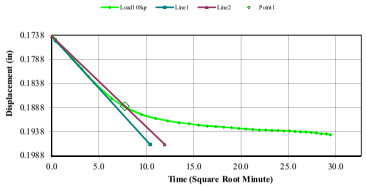
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1736	0.1730	23.0667	2.6785
1	00:00:00	0.1737	0.1731	23.0800	2.6779
2	00:00:01	0.1743	0.1737	23.1600	2.6740
3	00:00:02	0.1744	0.1738	23.1733	2.6734
4	00:00:03	0.1744	0.1738	23.1733	2.6734
5	00:00:04	0.1745	0.1739	23.1867	2.6728
6	00:00:05	0.1745	0.1739	23.1867	2.6728
7	00:00:11	0.1751	0.1745	23.2667	2.6689
8	00:00:14	0.1751	0.1745	23.2667	2.6689
9	00:00:29	0.1755	0.1749	23.3200	2.6664
10	00:01:00	0.1761	0.1755	23.4000	2.6626
11	00:02:00	0.1769	0.1763	23.5067	2.6575
12	00:04:00	0.1777	0.1783	23.6933	2.6485
13	00:05:00	0.1788	0.1782	23.7600	2.6454
14	00:08:00	0.1801	0.1795	23.9333	2.6371
15	00:10:00	0.1808	0.1802	24.0267	2.6326
16	00:15:01	0.1824	0.1818	24.2400	2.6224
17	00:20:01	0.1837	0.1831	24.4133	2.6141
18	00:40:02	0.1870	0.1864	24.8533	2.5931
19	01:00:04	0.1887	0.1881	25.0800	2.5822
20	01:30:06	0.1903	0.1897	25.2933	2.5720
21	02:00:09	0.1911	0.1905	25.4000	2.5669
22	02:30:11	0.1916	0.1910	25.4667	2.5638
23	03:00:13	0.1920	0.1914	25.5200	2.5612
24	03:30:15	0.1922	0.1916	25.5467	2.5599
25	04:00:18	0.1925	0.1919	25.5867	2.5580
26	04:30:20	0.1927	0.1921	25.6133	2.5567
27	05:00:22	0.1928	0.1922	25.6267	2.5561
28	05:30:24	0.1929	0.1923	25.6400	2.5555
29	06:00:27	0.1930	0.1924	25.6533	2.5548
30	06:30:29	0.1932	0.1926	25.6800	2.5536
31	07:00:31	0.1933	0.1927	25.6933	2.5529
32	07:30:34	0.1934	0.1928	25.7067	2.5523
33	08:00:36	0.1935	0.1929	25.7200	2.5516
34	08:30:38	0.1935	0.1929	25.7200	2.5516
35	09:00:40	0.1936	0.1930	25.7333	2.5510
36	09:30:43	0.1936	0.1930	25.7333	2.5510
37	10:00:45	0.1937	0.1931	25.7467	2.5504
38	10:30:47	0.1937	0.1931	25.7467	2.5504
39	11:00:49	0.1938	0.1932	25.7600	2.5497
40	11:30:52	0.1939	0.1933	25.7733	2.5491
41	12:00:54	0.1939	0.1933	25.7733	2.5491
42	12:30:56	0.1940	0.1934	25.7867	2.5485
43	13:00:58	0.1941	0.1935	25.8000	2.5478
44	13:31:01	0.1943	0.1937	25.8267	2.5465
45	14:01:03	0.1943	0.1937	25.8267	2.5465
46	14:26:21	0.1945	0.1939	25.8533	2.5453

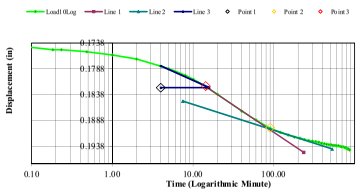
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

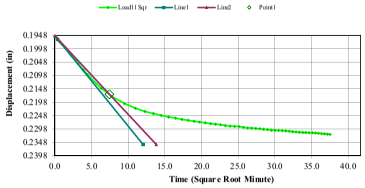
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1945	0.1939	25.8533	2.5453
1	00:00:01	0.1953	0.1947	25.9600	2.5402
2	00:00:02	0.1957	0.1951	26.0133	2.5376
3	00:00:03	0.1958	0.1952	26.0267	2.5370
4	00:00:04	0.1959	0.1953	26.0400	2.5363
5	00:00:05	0.1960	0.1954	26.0533	2.5357
6	00:00:06	0.1960	0.1954	26.0533	2.5357
7	00:00:12	0.1965	0.1959	26.1200	2.5325
8	00:00:15	0.1967	0.1961	26.1467	2.5312
9	00:00:30	0.1973	0.1967	26.2267	2.5274
10	00:01:00	0.1982	0.1976	26.3467	2.5217
11	00:02:00	0.1994	0.1988	26.5067	2.5140
12	00:04:00	0.2014	0.2008	26.7733	2.5013
13	00:05:00	0.2022	0.2016	26.8800	2.4962
14	00:08:00	0.2041	0.2035	27.1333	2.4841
15	00:10:01	0.2053	0.2047	27.2933	2.4764
16	00:15:01	0.2077	0.2071	27.6133	2.4611
17	00:20:01	0.2095	0.2089	27.8533	2.4496
18	00:40:03	0.2146	0.2140	28.5333	2.4171
19	01:00:04	0.2176	0.2170	28.9333	2.3980
20	01:30:07	0.2203	0.2197	29.2933	2.3808
21	02:00:09	0.2220	0.2214	29.5200	2.3699
22	02:30:11	0.2232	0.2226	29.6800	2.3623
23	03:00:13	0.2240	0.2234	29.7867	2.3572
24	03:30:16	0.2247	0.2241	29.8800	2.3527
25	04:00:18	0.2253	0.2247	29.9600	2.3489
26	04:30:20	0.2257	0.2251	30.0133	2.3464
27	05:00:22	0.2262	0.2256	30.0800	2.3432
28	05:30:25	0.2265	0.2259	30.1200	2.3413
29	06:00:27	0.2269	0.2263	30.1733	2.3387
30	06:30:29	0.2272	0.2266	30.2133	2.3368
31	07:00:32	0.2275	0.2269	30.2533	2.3349
32	07:30:34	0.2278	0.2272	30.2933	2.3330
33	08:00:36	0.2280	0.2274	30.3200	2.3317
34	08:30:39	0.2282	0.2276	30.3467	2.3304
35	09:00:41	0.2285	0.2279	30.3867	2.3285
36	09:30:43	0.2287	0.2281	30.4133	2.3272
37	10:00:45	0.2288	0.2282	30.4267	2.3266
38	10:30:48	0.2289	0.2283	30.4400	2.3260
39	11:00:50	0.2292	0.2286	30.4800	2.3240
40	11:30:52	0.2294	0.2288	30.5067	2.3228
41	12:00:54	0.2295	0.2289	30.5200	2.3221
42	12:30:57	0.2296	0.2290	30.5333	2.3215
43	13:00:59	0.2297	0.2291	30.5467	2.3209
44	13:31:01	0.2299	0.2293	30.5733	2.3196
45	14:01:04	0.2300	0.2294	30.5867	2.3189
46	14:31:06	0.2302	0.2296	30.6133	2.3177
47	15:01:08	0.2303	0.2297	30.6267	2.3170
48	15:31:11	0.2303	0.2297	30.6267	2.3170
49	16:01:13	0.2304	0.2298	30.6400	2.3164
50	16:31:15	0.2305	0.2299	30.6533	2.3158
51	17:01:17	0.2306	0.2300	30.6667	2.3151
52	17:31:20	0.2308	0.2302	30.6933	2.3138
53	18:01:22	0.2309	0.2303	30.7067	2.3132
54	18:31:24	0.2310	0.2304	30.7200	2.3126
55	19:01:27	0.2311	0.2305	30.7333	2.3119
56	19:31:29	0.2311	0.2305	30.7333	2.3119
57	20:01:31	0.2312	0.2306	30.7467	2.3113
58	20:31:33	0.2312	0.2306	30.7467	2.3113
59	21:01:36	0.2313	0.2307	30.7600	2.3107
60	21:31:38	0.2314	0.2308	30.7733	2.3100
61	22:01:40	0.2315	0.2309	30.7867	2.3094
62	22:31:42	0.2316	0.2310	30.8000	2.3087
63	23:01:45	0.2317	0.2311	30.8133	2.3081
64	23:27:41	0.2318	0.2312	30.8267	2.3075

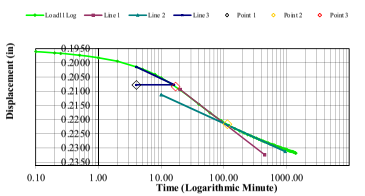
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

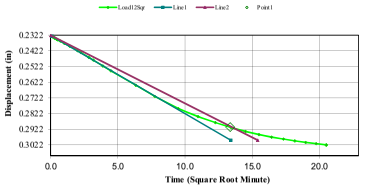
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2318	0.2312	30.8267	2.3075
1	00:00:01	0.2331	0.2325	31.0000	2.2992
2	00:00:02	0.2334	0.2328	31.0400	2.2973
3	00:00:03	0.2336	0.2330	31.0667	2.2960
4	00:00:04	0.2338	0.2332	31.0933	2.2947
5	00:00:05	0.2339	0.2333	31.1067	2.2941
6	00:00:06	0.2342	0.2336	31.1467	2.2922
7	00:00:12	0.2348	0.2342	31.2267	2.2883
8	00:00:15	0.2351	0.2345	31.2667	2.2864
9	00:00:30	0.2359	0.2353	31.3733	2.2813
10	00:01:00	0.2373	0.2367	31.5600	2.2724
11	00:02:00	0.2392	0.2386	31.8133	2.2603
12	00:04:00	0.2421	0.2415	32.2000	2.2418
13	00:05:00	0.2432	0.2426	32.3467	2.2348
14	00:08:01	0.2463	0.2457	32.7600	2.2150
15	00:10:01	0.2480	0.2474	32.9867	2.2042
16	00:15:01	0.2518	0.2512	33.4933	2.1800
17	00:20:01	0.2549	0.2543	33.9067	2.1602
18	00:40:03	0.2641	0.2635	35.1333	2.1015
19	01:00:04	0.2713	0.2707	36.0933	2.0556
20	01:30:04	0.2790	0.2784	37.1200	2.0066
21	02:00:04	0.2841	0.2835	37.8000	1.9740
22	02:30:04	0.2879	0.2873	38.3067	1.9498
23	03:00:03	0.2911	0.2905	38.7333	1.9294
24	03:30:03	0.2936	0.2930	39.0667	1.9135
25	04:00:03	0.2956	0.2950	39.3333	1.9007
26	04:30:02	0.2972	0.2966	39.5467	1.8905
27	05:00:02	0.2984	0.2978	39.7067	1.8829
28	05:30:01	0.2996	0.2990	39.8667	1.8752
29	06:00:00	0.3006	0.3000	40.0000	1.8689
30	06:30:00	0.3014	0.3008	40.1067	1.8638
31	06:59:59	0.3022	0.3016	40.2133	1.8587
32	07:00:42	0.3022	0.3016	40.2133	1.8587

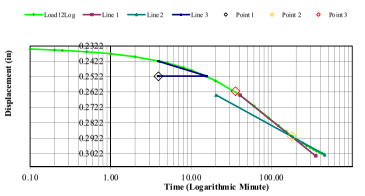
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

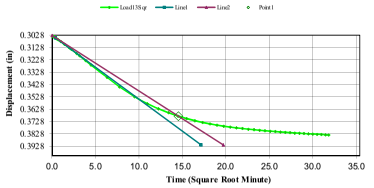
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3022	0.3016	40.2133	1.8587
1	00:00:01	0.3038	0.3032	40.4267	1.8485
2	00:00:02	0.3039	0.3033	40.4400	1.8478
3	00:00:03	0.3041	0.3035	40.4667	1.8465
4	00:00:04	0.3042	0.3036	40.4800	1.8459
5	00:00:05	0.3044	0.3038	40.5067	1.8446
6	00:00:06	0.3045	0.3039	40.5200	1.8440
7	00:00:12	0.3053	0.3047	40.6267	1.8389
8	00:00:15	0.3056	0.3050	40.6667	1.8370
9	00:00:30	0.3065	0.3059	40.7867	1.8312
10	00:01:00	0.3079	0.3073	40.9733	1.8223
11	00:02:00	0.3101	0.3095	41.2667	1.8083
12	00:04:00	0.3131	0.3125	41.6667	1.7892
13	00:05:00	0.3143	0.3137	41.8267	1.7815
14	00:08:00	0.3176	0.3170	42.2667	1.7605
15	00:09:59	0.3194	0.3188	42.5067	1.7490
16	00:14:59	0.3234	0.3228	43.0400	1.7235
17	00:19:59	0.3269	0.3263	43.5067	1.7012
18	00:39:59	0.3370	0.3364	44.8533	1.6368
19	00:59:58	0.3447	0.3441	45.8800	1.5877
20	01:29:58	0.3527	0.3521	46.9467	1.5367
21	01:59:57	0.3584	0.3578	47.7067	1.5004
22	02:29:56	0.3625	0.3619	48.2533	1.4742
23	02:59:55	0.3656	0.3650	48.6667	1.4545
24	03:29:54	0.3685	0.3679	49.0533	1.4360
25	03:59:54	0.3705	0.3699	49.3200	1.4232
26	04:29:53	0.3722	0.3716	49.5467	1.4124
27	04:59:52	0.3736	0.3730	49.7333	1.4035
28	05:29:51	0.3747	0.3741	49.8800	1.3964
29	05:59:51	0.3757	0.3751	50.0133	1.3901
30	06:29:50	0.3766	0.3760	50.1333	1.3843
31	06:59:49	0.3773	0.3767	50.2267	1.3799
32	07:29:48	0.3779	0.3773	50.3067	1.3760
33	07:59:48	0.3784	0.3778	50.3733	1.3729
34	08:29:47	0.3791	0.3785	50.4667	1.3684
35	08:59:46	0.3794	0.3788	50.5067	1.3665
36	09:29:46	0.3799	0.3793	50.5733	1.3633
37	09:59:45	0.3803	0.3797	50.6267	1.3607
38	10:29:45	0.3807	0.3801	50.6800	1.3582
39	10:59:45	0.3809	0.3803	50.7067	1.3569
40	11:29:46	0.3813	0.3807	50.7600	1.3544
41	11:59:46	0.3816	0.3810	50.8000	1.3525
42	12:29:46	0.3818	0.3812	50.8267	1.3512
43	12:59:45	0.3822	0.3816	50.8800	1.3486
44	13:29:45	0.3823	0.3817	50.8933	1.3480
45	13:59:44	0.3825	0.3819	50.9200	1.3467
46	14:29:43	0.3828	0.3822	50.9600	1.3448
47	14:59:42	0.3830	0.3824	50.9867	1.3435
48	15:29:42	0.3832	0.3826	51.0133	1.3423
49	15:59:41	0.3833	0.3827	51.0267	1.3416
50	16:29:41	0.3836	0.3830	51.0667	1.3397
51	16:53:28	0.3837	0.3831	51.0800	1.3391

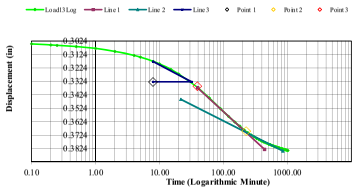
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

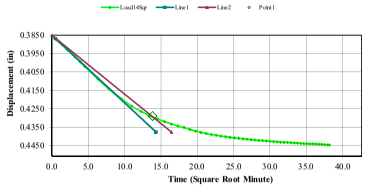
Sample Number: **Soil Description:**
Boring Number: 1
Depth: 6 - 8 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3837	0.3831	51.0800	1.3391
1	00:00:01	0.3856	0.3850	51.3333	1.3270
2	00:00:02	0.3859	0.3853	51.3733	1.3250
3	00:00:03	0.3861	0.3855	51.4000	1.3238
4	00:00:04	0.3863	0.3857	51.4267	1.3225
5	00:00:05	0.3864	0.3858	51.4400	1.3219
6	00:00:06	0.3864	0.3858	51.4400	1.3219
7	00:00:12	0.3868	0.3862	51.4933	1.3193
8	00:00:15	0.3870	0.3864	51.5200	1.3180
9	00:00:30	0.3877	0.3871	51.6133	1.3136
10	00:01:00	0.3887	0.3881	51.7467	1.3072
11	00:02:00	0.3902	0.3896	51.9467	1.2976
12	00:04:00	0.3923	0.3917	52.2267	1.2842
13	00:05:00	0.3932	0.3926	52.3467	1.2785
14	00:08:00	0.3954	0.3948	52.6400	1.2645
15	00:10:00	0.3968	0.3962	52.8267	1.2556
16	00:15:01	0.3995	0.3989	53.1867	1.2383
17	00:20:01	0.4018	0.4012	53.4933	1.2237
18	00:40:01	0.4088	0.4082	54.4267	1.1791
19	01:00:01	0.4138	0.4132	55.0933	1.1472
20	01:30:01	0.4195	0.4189	55.8533	1.1108
21	02:00:01	0.4235	0.4229	56.3867	1.0853
22	02:30:02	0.4264	0.4258	56.7733	1.0668
23	03:00:02	0.4288	0.4282	57.0933	1.0515
24	03:30:02	0.4305	0.4299	57.3200	1.0407
25	04:00:02	0.4320	0.4314	57.5200	1.0311
26	04:30:03	0.4333	0.4327	57.6933	1.0229
27	05:00:03	0.4343	0.4337	57.8267	1.0165
28	05:30:03	0.4351	0.4345	57.9333	1.0114
29	06:00:04	0.4362	0.4356	58.0800	1.0044
30	06:30:04	0.4371	0.4365	58.2000	0.9986
31	07:00:04	0.4378	0.4372	58.2933	0.9942
32	07:30:05	0.4384	0.4378	58.3733	0.9903
33	08:00:05	0.4390	0.4384	58.4533	0.9865
34	08:30:05	0.4393	0.4387	58.4933	0.9846
35	09:00:05	0.4398	0.4392	58.5600	0.9814
36	09:30:06	0.4401	0.4395	58.6000	0.9795
37	10:00:06	0.4405	0.4399	58.6533	0.9770
38	10:30:06	0.4408	0.4402	58.6933	0.9750
39	11:00:06	0.4410	0.4404	58.7200	0.9738
40	11:30:05	0.4413	0.4407	58.7600	0.9719
41	12:00:04	0.4415	0.4409	58.7867	0.9706
42	12:30:04	0.4417	0.4411	58.8133	0.9693
43	13:00:03	0.4419	0.4413	58.8400	0.9680
44	13:30:02	0.4422	0.4416	58.8800	0.9661
45	14:00:02	0.4423	0.4417	58.8933	0.9655
46	14:30:03	0.4424	0.4418	58.9067	0.9648
47	15:00:02	0.4426	0.4420	58.9333	0.9636
48	15:30:01	0.4428	0.4422	58.9600	0.9623
49	16:00:01	0.4429	0.4423	58.9733	0.9617
50	16:30:00	0.4431	0.4425	59.0000	0.9604
51	17:00:01	0.4432	0.4426	59.0133	0.9597
52	17:30:00	0.4432	0.4426	59.0133	0.9597
53	18:00:00	0.4434	0.4428	59.0400	0.9585
54	18:29:59	0.4435	0.4429	59.0533	0.9578
55	18:59:59	0.4436	0.4430	59.0667	0.9572
56	19:29:59	0.4438	0.4432	59.0933	0.9559
57	19:59:59	0.4439	0.4433	59.1067	0.9553
58	20:29:58	0.4439	0.4433	59.1067	0.9553
59	20:59:57	0.4440	0.4434	59.1200	0.9546
60	21:29:57	0.4440	0.4434	59.1200	0.9546
61	21:59:57	0.4441	0.4435	59.1333	0.9540
62	22:29:56	0.4442	0.4436	59.1467	0.9534
63	22:59:56	0.4443	0.4437	59.1600	0.9527
64	23:29:56	0.4445	0.4439	59.1867	0.9515
65	23:59:56	0.4446	0.4440	59.2000	0.9508
66	24:17:42	0.4446	0.4440	59.2000	0.9508

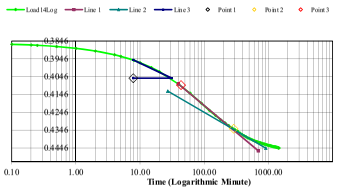
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Graph (Squareroot Time)



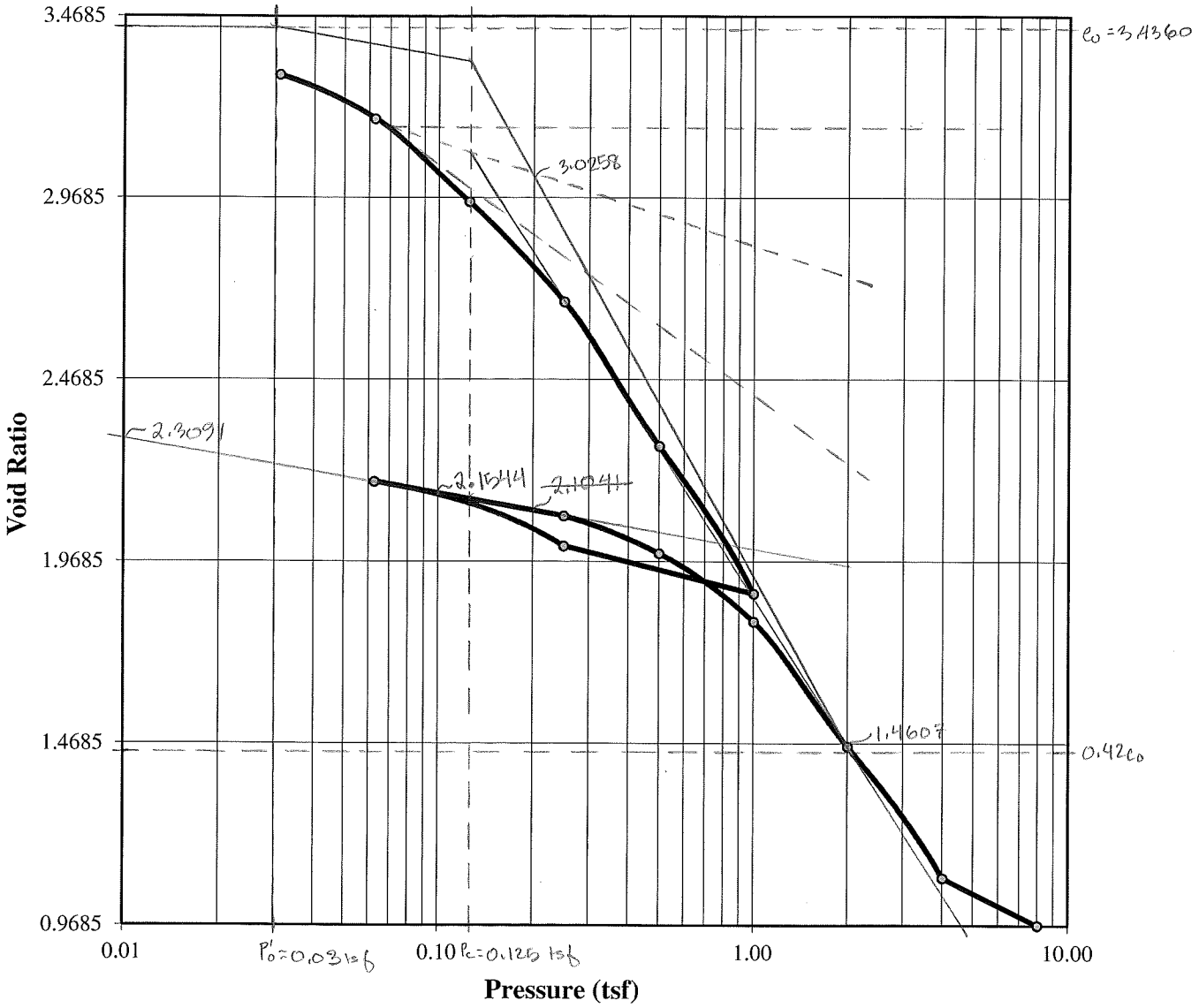
Consolidation Graph (Logarithmic Time)



32 ticks = 0.5
(30 ticks = 1")

GEOENGINEERS

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	150	**Test Date:**	19 Sept 11
Moisture (%):	156.84	59.29	**Plastic Limits:**	35		
Dry Density (pcf):	30.78	61.02	**Plasticity Index (%):**	115		
Saturation (%):	99.85	104.82				
Void Ratio:	3.4360	0.9731	**Specific Gravity:**	2.186	Measured	

Soil Description: Organic clay (OH) $0.42e_0 = 1.4431$

Project Number: 16715-023-00 **Depth:** 10 - 12 feet

Sample Number: **Boring Number:** 2

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location:

Remarks: Mudline depth: 4ft, submerged
$\gamma = 30.78(2.5684) = 79.06$
$\gamma' = 16.66$ psf
$P'_0 = 2(70.5-62.4) + 2(64.4-62.4) + 2(74.2-62.4) + 1(16.66)$
$= 60.46$ psf

$P'_0 = 0.0302$ tsf
$P_c = 0.125$ tsf
$OCR = \frac{0.125}{0.0302} = 4.14$
$C_c = \frac{3.0258 - 1.4607}{\log(2/0.2)} = \underline{1.5651}$

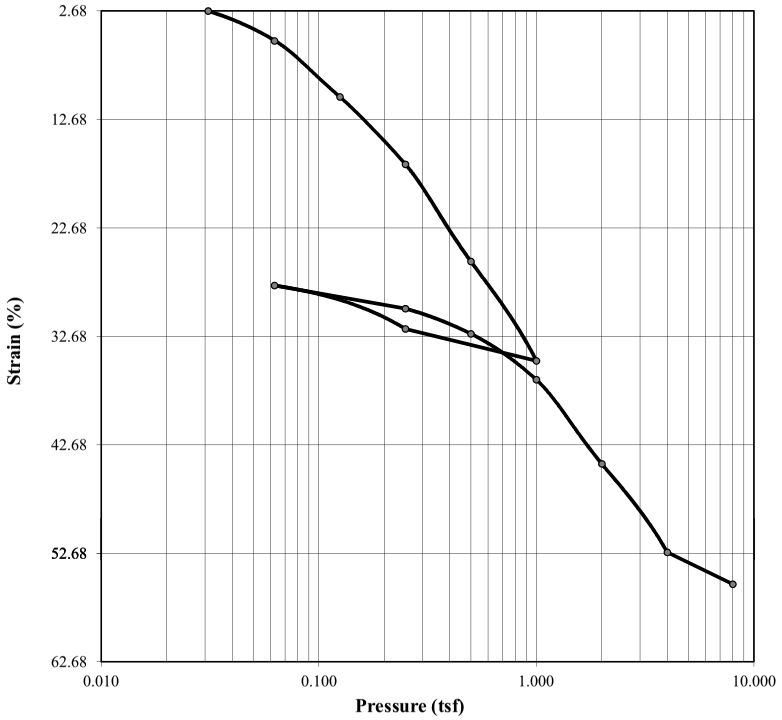
$CR = \frac{1.5651}{4.4360} = \underline{0.3528}$
$C_r = \frac{2.3091 - 2.1544}{\log(0.1/0.01)} = \underline{0.1547}$
$RR = \frac{0.1547}{4.4360} = \underline{0.0349}$

$C_{v\,t90}$ @ P'_0 = 8.255 ft²/yr
= 0.0226 ft²/day

$C_{v\,t90}$ @ P_c = 6.99 ft²/yr
= 0.0192 ft²/day

GeoEngineers

Consolidation Test
Test Results

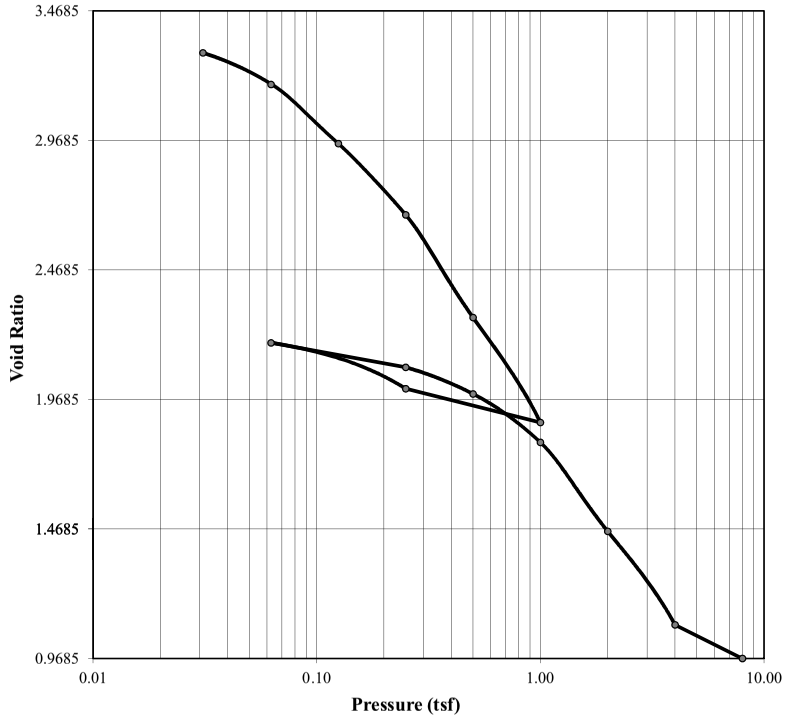


	Before	After				
			Liquid Limits:	150	Test Date:	19 Sept 11
Moisture (%):	156.84	59.29	Plastic Limits:	35		
Dry Density (pcf):	30.78	61.02	Plasticity Index (%):	115		
Saturation (%):	99.85	104.82				
Void Ratio:	3.4360	0.9731	Specific Gravity:	2.186	Measured	

Sample Description:	Organic clay (OH)		
Project Number:	16715-023-00	Depth: 10 - 12 feet	Remarks:
Sample Number:		Boring Number: 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results

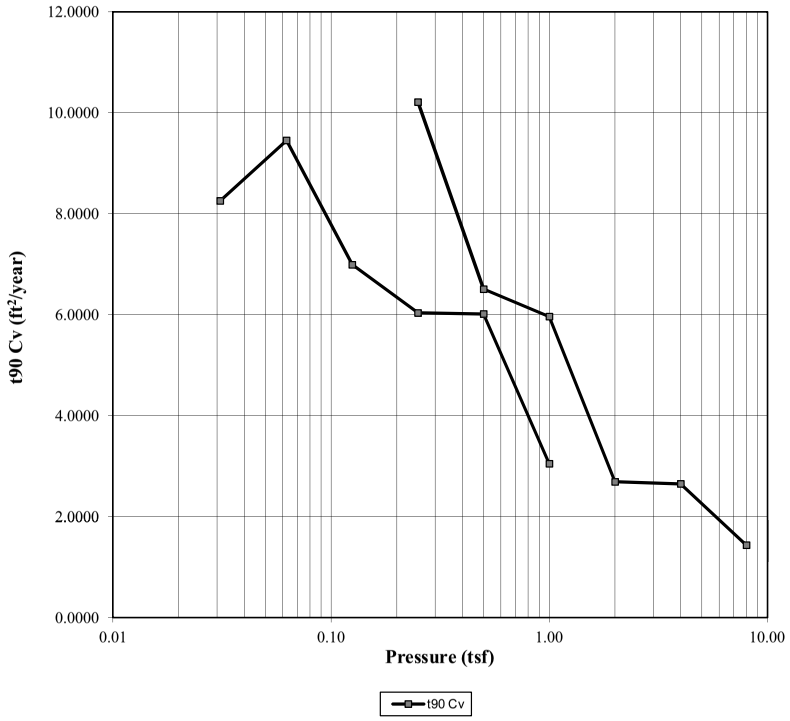


	Before	After				
			Liquid Limits:	150	Test Date:	19 Sept 11
Moisture (%):	156.84	59.29	Plastic Limits:	35		
Dry Density (pcf):	30.78	61.02	Plasticity Index (%):	115		
Saturation (%):	99.85	104.82				
Void Ratio:	3.4360	0.9731	Specific Gravity:	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	Depth: 10 - 12 feet	Remarks:
Sample Number:		Boring Number: 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results

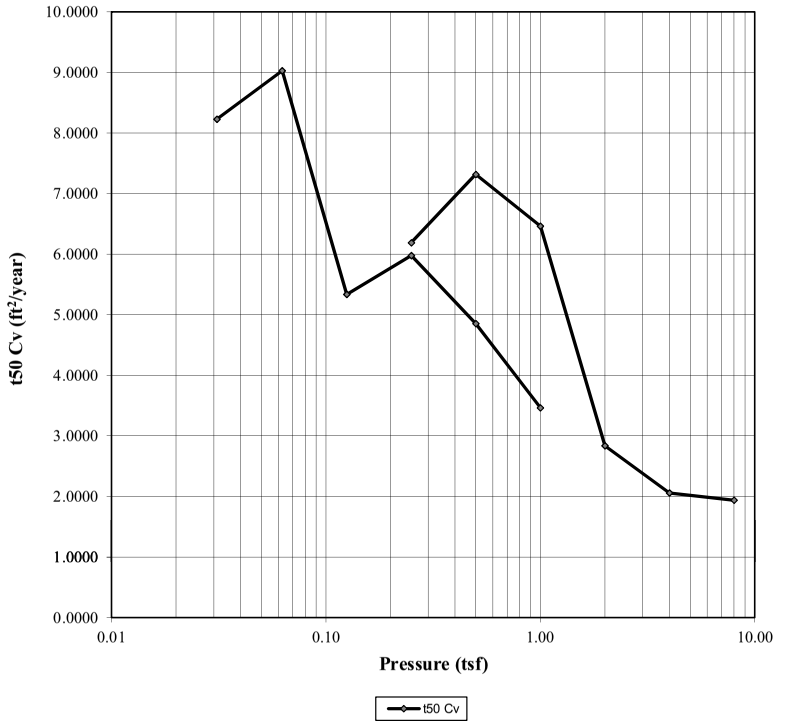


	Before	After				
Moisture (%):	156.84	59.29	**Liquid Limits:**	150	**Test Date:**	19 Sept 11
Dry Density (pcf):	30.78	61.02	**Plastic Limits:**	35		
Saturation (%):	99.85	104.82	**Plasticity Index (%):**	115		
Void Ratio:	3.4360	0.9731	**Specific Gravity:**	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 10 - 12 feet	**Remarks:**
Sample Number:		**Boring Number:** 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	156.84	59.29	**Liquid Limits:**	150	**Test Date:**	19 Sept 11
Dry Density (pcf):	30.78	61.02	**Plastic Limits:**	35		
Saturation (%):	99.85	104.82	**Plasticity Index (%):**	115		
Void Ratio:	3.4360	0.9731	**Specific Gravity:**	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 10 - 12 feet	**Remarks:**
Sample Number:		**Boring Number:** 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number:

Sample Number: **Sample Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 19 Sept 11

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	0.7500	0.5805	0.00	3.4257	0.000	0.000	0.000	0.000
1	0.031	0.0201	0.7299	0.5604	2.68	3.3071	49.941	11.639	8.255	8.228
2	0.063	0.0408	0.7092	0.5397	5.44	3.1849	41.174	10.016	9.453	9.027
3	0.125	0.0795	0.6705	0.5010	10.60	2.9565	49.769	15.150	6.990	5.334
4	0.250	0.1261	0.6239	0.4544	16.81	2.6816	49.896	11.709	6.037	5.976
5	0.500	0.1933	0.5567	0.3872	25.77	2.2850	39.868	11.481	6.015	4.853
6	1.000	0.2620	0.4880	0.3185	34.93	1.8796	60.459	12.361	3.048	3.463
7	0.250	0.2399	0.5101	0.3406	31.99	2.0100	0.000	0.000	0.000	0.000
8	0.063	0.2099	0.5401	0.3706	27.99	2.1871	0.000	0.000	0.000	0.000
9	0.250	0.2259	0.5241	0.3546	30.12	2.0927	20.817	7.980	10.210	6.188
10	0.500	0.2433	0.5067	0.3372	32.44	1.9900	30.534	6.308	6.506	7.316
11	1.000	0.2750	0.4750	0.3055	36.67	1.8029	29.278	6.277	5.963	6.461
12	2.000	0.3332	0.4168	0.2473	44.43	1.4595	49.975	11.009	2.690	2.837
13	4.000	0.3944	0.3556	0.1861	52.59	1.0984	36.946	11.048	2.648	2.058
14	8.000	0.4164	0.3336	0.1641	55.52	0.9685	60.003	10.321	1.435	1.938

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11

Sample Number: **Sample Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 150.0000 **Initial Void Ratio:** 3.4360 **Initial Height (in):** 0.7500
Plastic Limit: 35.0000 **Plasticity Index (%):** 115.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.1860 **Weight of Ring (g):** 234.8800
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	142.64	67.24
Dry Soil + Container (g)	69.27	52.40
Weight of Container (g)	22.49	27.37
Moisture Content (%)	156.84	59.29
Void Ratio	3.4360	0.9731
Saturation (%)	99.85	104.82
Dry Density (pcf)	30.78	61.02

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

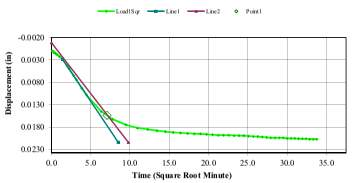
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

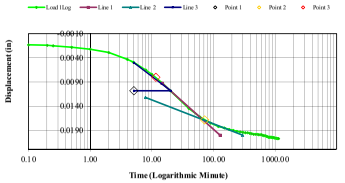
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0006	0.0000	0.0000	3.4360
1	00:00:01	0.0010	0.0004	0.0533	3.4336
2	00:00:02	0.0011	0.0005	0.0667	3.4330
3	00:00:03	0.0011	0.0005	0.0667	3.4330
4	00:00:04	0.0012	0.0006	0.0800	3.4325
5	00:00:05	0.0013	0.0007	0.0933	3.4319
6	00:00:06	0.0013	0.0007	0.0933	3.4319
7	00:00:12	0.0014	0.0008	0.1067	3.4313
8	00:00:15	0.0015	0.0009	0.1200	3.4307
9	00:00:30	0.0018	0.0012	0.1600	3.4289
10	00:01:00	0.0022	0.0016	0.2133	3.4265
11	00:02:00	0.0029	0.0023	0.3067	3.4224
12	00:04:00	0.0043	0.0037	0.4933	3.4141
13	00:05:00	0.0049	0.0043	0.5733	3.4106
14	00:08:00	0.0065	0.0059	0.7867	3.4011
15	00:10:00	0.0074	0.0068	0.9067	3.3958
16	00:15:00	0.0093	0.0087	1.1600	3.3845
17	00:20:00	0.0108	0.0102	1.3600	3.3757
18	00:40:00	0.0145	0.0139	1.8533	3.3538
19	01:00:00	0.0162	0.0156	2.0800	3.3437
20	01:29:59	0.0175	0.0169	2.2533	3.3360
21	01:59:59	0.0182	0.0176	2.3467	3.3319
22	02:29:58	0.0185	0.0179	2.3867	3.3301
23	02:59:58	0.0188	0.0182	2.4267	3.3284
24	03:29:58	0.0190	0.0184	2.4533	3.3272
25	03:59:58	0.0192	0.0186	2.4800	3.3260
26	04:29:58	0.0193	0.0187	2.4933	3.3254
27	04:59:57	0.0194	0.0188	2.5067	3.3248
28	05:29:57	0.0195	0.0189	2.5200	3.3242
29	05:59:56	0.0195	0.0189	2.5200	3.3242
30	06:29:56	0.0196	0.0190	2.5333	3.3236
31	06:59:55	0.0197	0.0191	2.5467	3.3230
32	07:29:55	0.0198	0.0192	2.5600	3.3224
33	07:59:54	0.0198	0.0192	2.5600	3.3224
34	08:29:53	0.0198	0.0192	2.5600	3.3224
35	08:59:52	0.0199	0.0193	2.5733	3.3219
36	09:29:52	0.0199	0.0193	2.5733	3.3219
37	09:59:51	0.0199	0.0193	2.5733	3.3219
38	10:29:50	0.0200	0.0194	2.5867	3.3213
39	10:59:50	0.0201	0.0195	2.6000	3.3207
40	11:29:49	0.0201	0.0195	2.6000	3.3207
41	11:59:48	0.0202	0.0196	2.6133	3.3201
42	12:29:47	0.0203	0.0197	2.6267	3.3195
43	12:59:47	0.0204	0.0198	2.6400	3.3189
44	13:29:46	0.0204	0.0198	2.6400	3.3189
45	13:59:45	0.0204	0.0198	2.6400	3.3189
46	14:29:45	0.0204	0.0198	2.6400	3.3189
47	14:59:44	0.0205	0.0199	2.6533	3.3183
48	15:29:43	0.0205	0.0199	2.6533	3.3183
49	15:59:43	0.0205	0.0199	2.6533	3.3183
50	16:29:42	0.0206	0.0200	2.6667	3.3177
51	16:59:42	0.0206	0.0200	2.6667	3.3177
52	17:29:42	0.0206	0.0200	2.6667	3.3177
53	17:59:42	0.0207	0.0201	2.6800	3.3171
54	18:29:41	0.0207	0.0201	2.6800	3.3171
55	18:59:41	0.0207	0.0201	2.6800	3.3171

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

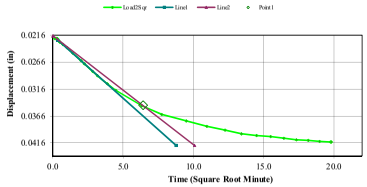
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

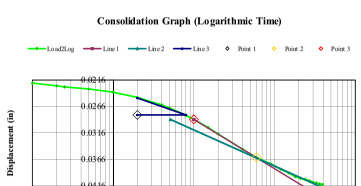
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0207	0.0201	2.6800	3.3171
1	00:00:01	0.0222	0.0216	2.8800	3.3082
2	00:00:02	0.0222	0.0216	2.8800	3.3082
3	00:00:03	0.0222	0.0216	2.8800	3.3082
4	00:00:04	0.0222	0.0216	2.8800	3.3082
5	00:00:05	0.0222	0.0216	2.8800	3.3082
6	00:00:06	0.0222	0.0216	2.8800	3.3082
7	00:00:12	0.0227	0.0221	2.9467	3.3053
8	00:00:15	0.0229	0.0223	2.9733	3.3041
9	00:00:30	0.0233	0.0227	3.0267	3.3017
10	00:01:00	0.0239	0.0233	3.1067	3.2982
11	00:02:00	0.0249	0.0243	3.2400	3.2923
12	00:04:00	0.0263	0.0257	3.4267	3.2840
13	00:05:00	0.0269	0.0263	3.5067	3.2804
14	00:08:00	0.0283	0.0277	3.6933	3.2722
15	00:10:00	0.0291	0.0285	3.8000	3.2674
16	00:14:59	0.0306	0.0300	4.0000	3.2586
17	00:19:59	0.0318	0.0312	4.1600	3.2515
18	00:39:59	0.0347	0.0341	4.5467	3.2343
19	00:59:58	0.0363	0.0357	4.7600	3.2249
20	01:29:58	0.0375	0.0369	4.9200	3.2178
21	01:59:57	0.0385	0.0379	5.0533	3.2118
22	02:29:56	0.0392	0.0386	5.1467	3.2077
23	02:59:56	0.0399	0.0393	5.2400	3.2036
24	03:29:57	0.0402	0.0396	5.2800	3.2018
25	03:59:57	0.0404	0.0398	5.3067	3.2006
26	04:29:57	0.0407	0.0401	5.3467	3.1988
27	04:59:57	0.0410	0.0404	5.3867	3.1971
28	05:29:57	0.0411	0.0405	5.4000	3.1965
29	05:59:56	0.0413	0.0407	5.4267	3.1953
30	06:29:55	0.0414	0.0408	5.4400	3.1947
31	06:32:20	0.0414	0.0408	5.4400	3.1947

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

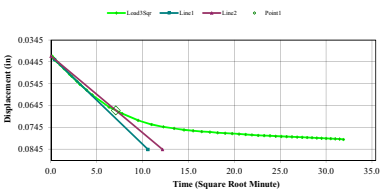
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

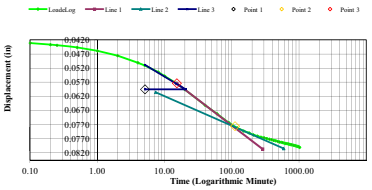
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0414	0.0408	5.4400	3.1947
1	00:00:01	0.0419	0.0413	5.5067	3.1917
2	00:00:02	0.0423	0.0417	5.5600	3.1894
3	00:00:03	0.0426	0.0420	5.6000	3.1876
4	00:00:04	0.0428	0.0422	5.6267	3.1864
5	00:00:05	0.0430	0.0424	5.6533	3.1852
6	00:00:06	0.0431	0.0425	5.6667	3.1846
7	00:00:12	0.0437	0.0431	5.7467	3.1811
8	00:00:15	0.0439	0.0433	5.7733	3.1799
9	00:00:30	0.0447	0.0441	5.8800	3.1752
10	00:01:00	0.0459	0.0453	6.0400	3.1681
11	00:02:00	0.0476	0.0470	6.2667	3.1580
12	00:04:00	0.0501	0.0495	6.6000	3.1432
13	00:05:00	0.0510	0.0504	6.7200	3.1379
14	00:08:00	0.0534	0.0528	7.0400	3.1237
15	00:10:00	0.0548	0.0542	7.2267	3.1154
16	00:15:00	0.0574	0.0568	7.5733	3.1001
17	00:19:59	0.0596	0.0590	7.8667	3.0870
18	00:39:59	0.0652	0.0646	8.6133	3.0539
19	00:59:59	0.0682	0.0676	9.0133	3.0362
20	01:29:59	0.0713	0.0707	9.4267	3.0178
21	01:59:59	0.0732	0.0726	9.6800	3.0066
22	02:29:59	0.0743	0.0737	9.8267	3.0001
23	02:59:58	0.0750	0.0744	9.9200	2.9960
24	03:29:58	0.0757	0.0751	10.0133	2.9918
25	03:59:57	0.0761	0.0755	10.0667	2.9894
26	04:29:58	0.0765	0.0759	10.1200	2.9871
27	04:59:58	0.0767	0.0761	10.1467	2.9859
28	05:29:58	0.0770	0.0764	10.1867	2.9841
29	05:59:57	0.0772	0.0766	10.2133	2.9829
30	06:29:56	0.0774	0.0768	10.2400	2.9818
31	06:59:55	0.0776	0.0770	10.2667	2.9806
32	07:29:55	0.0778	0.0772	10.2933	2.9794
33	07:59:56	0.0780	0.0774	10.3200	2.9782
34	08:29:56	0.0782	0.0776	10.3467	2.9770
35	08:59:55	0.0783	0.0777	10.3600	2.9764
36	09:29:55	0.0784	0.0778	10.3733	2.9758
37	09:59:54	0.0786	0.0780	10.4000	2.9747
38	10:29:53	0.0787	0.0781	10.4133	2.9741
39	10:59:53	0.0788	0.0782	10.4267	2.9735
40	11:29:53	0.0789	0.0783	10.4400	2.9729
41	11:59:53	0.0790	0.0784	10.4533	2.9723
42	12:29:54	0.0791	0.0785	10.4667	2.9717
43	12:59:53	0.0792	0.0786	10.4800	2.9711
44	13:29:53	0.0793	0.0787	10.4933	2.9705
45	13:59:52	0.0794	0.0788	10.5067	2.9699
46	14:29:51	0.0795	0.0789	10.5200	2.9693
47	14:59:51	0.0796	0.0790	10.5333	2.9687
48	15:29:50	0.0797	0.0791	10.5467	2.9682
49	15:59:50	0.0798	0.0792	10.5600	2.9676
50	16:29:51	0.0799	0.0793	10.5733	2.9670
51	16:56:09	0.0801	0.0795	10.6000	2.9658

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

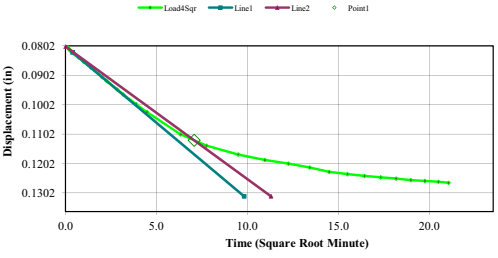
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

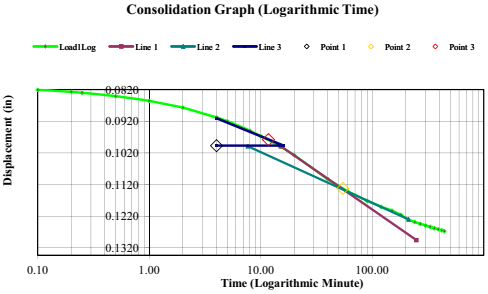
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0801	0.0795	10.6000	2.9658
1	00:00:01	0.0807	0.0801	10.6800	2.9622
2	00:00:02	0.0813	0.0807	10.7600	2.9587
3	00:00:03	0.0815	0.0809	10.7867	2.9575
4	00:00:04	0.0818	0.0812	10.8267	2.9557
5	00:00:05	0.0819	0.0813	10.8400	2.9551
6	00:00:06	0.0821	0.0815	10.8667	2.9540
7	00:00:12	0.0827	0.0821	10.9467	2.9504
8	00:00:15	0.0830	0.0824	10.9867	2.9486
9	00:00:30	0.0841	0.0835	11.1333	2.9421
10	00:01:00	0.0856	0.0850	11.3333	2.9333
11	00:02:00	0.0877	0.0871	11.6133	2.9208
12	00:04:00	0.0908	0.0902	12.0267	2.9025
13	00:05:00	0.0920	0.0914	12.1867	2.8954
14	00:08:00	0.0950	0.0944	12.5867	2.8777
15	00:10:00	0.0967	0.0961	12.8133	2.8676
16	00:15:00	0.1000	0.0994	13.2533	2.8481
17	00:19:59	0.1027	0.1021	13.6133	2.8321
18	00:39:59	0.1103	0.1097	14.6267	2.7872
19	00:59:59	0.1141	0.1135	15.1333	2.7647
20	01:29:58	0.1171	0.1165	15.5333	2.7469
21	01:59:58	0.1190	0.1184	15.7867	2.7357
22	02:29:58	0.1202	0.1196	15.9467	2.7286
23	02:59:58	0.1215	0.1209	16.1200	2.7209
24	03:29:57	0.1230	0.1224	16.3200	2.7120
25	03:59:57	0.1238	0.1232	16.4267	2.7073
26	04:29:56	0.1244	0.1238	16.5067	2.7038
27	04:59:56	0.1249	0.1243	16.5733	2.7008
28	05:29:57	0.1253	0.1247	16.6267	2.6984
29	05:59:56	0.1258	0.1252	16.6933	2.6955
30	06:29:55	0.1261	0.1255	16.7333	2.6937
31	06:59:55	0.1264	0.1258	16.7733	2.6919
32	07:22:46	0.1267	0.1261	16.8133	2.6902

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

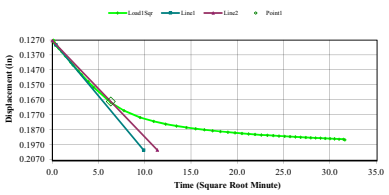
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1267	0.1261	16.8133	2.6902
1	00:00:01	0.1271	0.1265	16.8667	2.6878
2	00:00:02	0.1283	0.1277	17.0267	2.6807
3	00:00:03	0.1287	0.1281	17.0800	2.6783
4	00:00:04	0.1291	0.1285	17.1333	2.6760
5	00:00:05	0.1294	0.1288	17.1733	2.6742
6	00:00:06	0.1296	0.1290	17.2000	2.6730
7	00:00:12	0.1307	0.1301	17.3467	2.6665
8	00:00:15	0.1310	0.1304	17.3867	2.6647
9	00:00:30	0.1326	0.1320	17.6000	2.6553
10	00:01:00	0.1347	0.1341	17.8800	2.6428
11	00:02:00	0.1377	0.1371	18.2800	2.6251
12	00:04:00	0.1420	0.1414	18.8533	2.5997
13	00:05:00	0.1437	0.1431	19.0800	2.5896
14	00:08:00	0.1478	0.1472	19.6267	2.5654
15	00:09:59	0.1501	0.1495	19.9333	2.5518
16	00:14:59	0.1548	0.1542	20.5600	2.5240
17	00:19:59	0.1586	0.1580	21.0667	2.5015
18	00:39:59	0.1689	0.1683	22.4400	2.4406
19	00:59:58	0.1743	0.1737	23.1600	2.4086
20	01:29:58	0.1789	0.1783	23.7733	2.3814
21	01:59:58	0.1815	0.1809	24.1200	2.3660
22	02:29:58	0.1833	0.1827	24.3600	2.3554
23	02:59:57	0.1846	0.1840	24.5333	2.3477
24	03:29:57	0.1856	0.1850	24.6667	2.3418
25	03:59:57	0.1865	0.1859	24.7867	2.3365
26	04:29:56	0.1871	0.1865	24.8667	2.3329
27	04:59:57	0.1878	0.1872	24.9600	2.3288
28	05:29:56	0.1883	0.1877	25.0267	2.3258
29	05:59:56	0.1887	0.1881	25.0800	2.3235
30	06:29:56	0.1892	0.1886	25.1467	2.3205
31	06:59:55	0.1896	0.1890	25.2000	2.3181
32	07:29:55	0.1899	0.1893	25.2400	2.3164
33	07:59:54	0.1902	0.1896	25.2800	2.3146
34	08:29:55	0.1906	0.1900	25.3333	2.3122
35	08:59:54	0.1908	0.1902	25.3600	2.3110
36	09:29:54	0.1910	0.1904	25.3867	2.3099
37	09:59:53	0.1913	0.1907	25.4267	2.3081
38	10:29:53	0.1915	0.1909	25.4533	2.3069
39	10:59:53	0.1917	0.1911	25.4800	2.3057
40	11:29:52	0.1919	0.1913	25.5067	2.3045
41	11:59:53	0.1921	0.1915	25.5333	2.3033
42	12:29:52	0.1923	0.1917	25.5600	2.3022
43	12:59:52	0.1925	0.1919	25.5867	2.3010
44	13:29:51	0.1926	0.1920	25.6000	2.3004
45	13:59:52	0.1927	0.1921	25.6133	2.2998
46	14:29:51	0.1929	0.1923	25.6400	2.2986
47	14:59:50	0.1931	0.1925	25.6667	2.2974
48	15:29:50	0.1932	0.1926	25.6800	2.2968
49	15:59:50	0.1934	0.1928	25.7067	2.2957
50	16:29:50	0.1935	0.1929	25.7200	2.2951
51	16:39:13	0.1939	0.1933	25.7733	2.2927

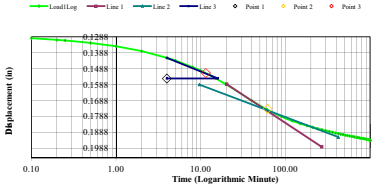
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

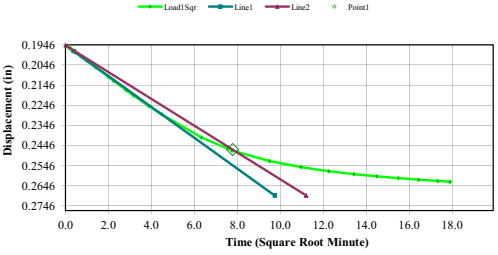
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1939	0.1933	25.7733	2.2927
1	00:00:01	0.1956	0.1950	26.0000	2.2826
2	00:00:02	0.1961	0.1955	26.0667	2.2797
3	00:00:03	0.1964	0.1958	26.1067	2.2779
4	00:00:04	0.1967	0.1961	26.1467	2.2761
5	00:00:05	0.1970	0.1964	26.1867	2.2744
6	00:00:06	0.1972	0.1966	26.2133	2.2732
7	00:00:12	0.1982	0.1976	26.3467	2.2673
8	00:00:15	0.1986	0.1980	26.4000	2.2649
9	00:00:30	0.2002	0.1996	26.6133	2.2554
10	00:01:00	0.2025	0.2019	26.9200	2.2418
11	00:02:00	0.2058	0.2052	27.3600	2.2223
12	00:04:00	0.2105	0.2099	27.9867	2.1945
13	00:05:00	0.2124	0.2118	28.2400	2.1833
14	00:08:00	0.2171	0.2165	28.8667	2.1555
15	00:10:00	0.2197	0.2191	29.2133	2.1401
16	00:15:00	0.2250	0.2244	29.9200	2.1088
17	00:20:00	0.2291	0.2285	30.4667	2.0845
18	00:40:00	0.2406	0.2400	32.0000	2.0165
19	01:00:00	0.2471	0.2465	32.8667	1.9780
20	01:29:59	0.2523	0.2517	33.5600	1.9473
21	01:59:59	0.2553	0.2547	33.9600	1.9295
22	02:29:59	0.2574	0.2568	34.2400	1.9171
23	02:59:59	0.2588	0.2582	34.4267	1.9088
24	03:29:58	0.2599	0.2593	34.5733	1.9023
25	03:59:59	0.2608	0.2602	34.6933	1.8970
26	04:29:58	0.2616	0.2610	34.8000	1.8923
27	04:59:58	0.2622	0.2616	34.8800	1.8887
28	05:19:48	0.2626	0.2620	34.9333	1.8864

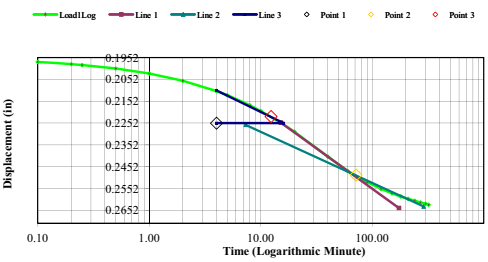
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

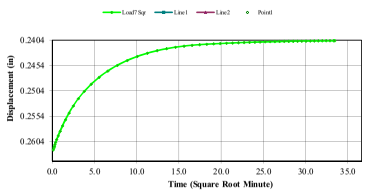
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2626	0.2620	34.9333	1.8864
1	00:00:01	0.2620	0.2614	34.8533	1.8899
2	00:00:02	0.2619	0.2613	34.8400	1.8905
3	00:00:03	0.2618	0.2612	34.8267	1.8911
4	00:00:04	0.2611	0.2605	34.7333	1.8952
5	00:00:05	0.2610	0.2604	34.7200	1.8958
6	00:00:06	0.2608	0.2602	34.6933	1.8970
7	00:00:12	0.2602	0.2596	34.6133	1.9006
8	00:00:15	0.2600	0.2594	34.5867	1.9017
9	00:00:30	0.2591	0.2585	34.4667	1.9071
10	00:01:00	0.2580	0.2574	34.3200	1.9136
11	00:02:00	0.2564	0.2558	34.1067	1.9230
12	00:04:00	0.2542	0.2536	33.8133	1.9360
13	00:05:00	0.2533	0.2527	33.6933	1.9414
14	00:08:00	0.2514	0.2508	33.4400	1.9526
15	00:10:00	0.2504	0.2498	33.3067	1.9585
16	00:15:00	0.2486	0.2480	33.0667	1.9692
17	00:20:00	0.2472	0.2466	32.8800	1.9774
18	00:39:59	0.2445	0.2439	32.5200	1.9934
19	00:59:59	0.2434	0.2428	32.3733	1.9999
20	01:29:59	0.2425	0.2419	32.2533	2.0052
21	01:59:58	0.2421	0.2415	32.2000	2.0076
22	02:29:59	0.2418	0.2412	32.1600	2.0094
23	02:59:58	0.2416	0.2410	32.1333	2.0106
24	03:29:58	0.2415	0.2409	32.1200	2.0112
25	03:59:58	0.2414	0.2408	32.1067	2.0118
26	04:29:57	0.2413	0.2407	32.0933	2.0123
27	04:59:57	0.2412	0.2406	32.0800	2.0129
28	05:29:57	0.2411	0.2405	32.0667	2.0135
29	05:59:56	0.2411	0.2405	32.0667	2.0135
30	06:29:56	0.2410	0.2404	32.0533	2.0141
31	06:59:56	0.2410	0.2404	32.0533	2.0141
32	07:29:55	0.2410	0.2404	32.0533	2.0141
33	07:59:55	0.2409	0.2403	32.0400	2.0147
34	08:29:55	0.2409	0.2403	32.0400	2.0147
35	08:59:54	0.2408	0.2402	32.0267	2.0153
36	09:29:54	0.2407	0.2401	32.0133	2.0159
37	09:59:54	0.2407	0.2401	32.0133	2.0159
38	10:29:53	0.2407	0.2401	32.0133	2.0159
39	10:59:53	0.2407	0.2401	32.0133	2.0159
40	11:29:53	0.2406	0.2400	32.0000	2.0165
41	11:59:53	0.2406	0.2400	32.0000	2.0165
42	12:29:52	0.2406	0.2400	32.0000	2.0165
43	12:59:52	0.2406	0.2400	32.0000	2.0165
44	13:29:52	0.2406	0.2400	32.0000	2.0165
45	13:59:51	0.2406	0.2400	32.0000	2.0165
46	14:29:52	0.2406	0.2400	32.0000	2.0165
47	14:59:51	0.2406	0.2400	32.0000	2.0165
48	15:29:50	0.2406	0.2400	32.0000	2.0165
49	15:59:51	0.2405	0.2399	31.9867	2.0171
50	16:29:51	0.2405	0.2399	31.9867	2.0171
51	16:59:50	0.2405	0.2399	31.9867	2.0171
52	17:29:49	0.2405	0.2399	31.9867	2.0171
53	17:59:50	0.2405	0.2399	31.9867	2.0171
54	18:29:49	0.2405	0.2399	31.9867	2.0171
55	18:38:01	0.2405	0.2399	31.9867	2.0171

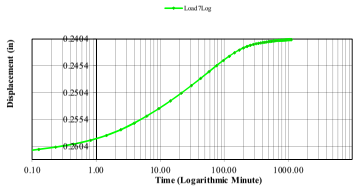
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

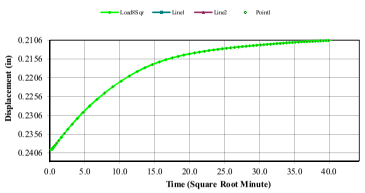
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2405	0.2399	31.9867	2.0171
1	00:00:01	0.2397	0.2391	31.8800	2.0218
2	00:00:02	0.2397	0.2391	31.8800	2.0218
3	00:00:03	0.2396	0.2390	31.8667	2.0224
4	00:00:04	0.2396	0.2390	31.8667	2.0224
5	00:00:05	0.2395	0.2389	31.8533	2.0230
6	00:00:06	0.2395	0.2389	31.8533	2.0230
7	00:00:12	0.2391	0.2385	31.8000	2.0254
8	00:00:15	0.2390	0.2384	31.7867	2.0259
9	00:00:30	0.2386	0.2380	31.7333	2.0283
10	00:01:00	0.2379	0.2373	31.6400	2.0325
11	00:02:00	0.2370	0.2364	31.5200	2.0378
12	00:04:00	0.2355	0.2349	31.3200	2.0466
13	00:05:00	0.2349	0.2343	31.2400	2.0502
14	00:08:00	0.2334	0.2328	31.0400	2.0591
15	00:10:00	0.2326	0.2320	30.9333	2.0638
16	00:15:00	0.2308	0.2302	30.6933	2.0744
17	00:20:00	0.2294	0.2288	30.5067	2.0827
18	00:40:01	0.2254	0.2248	29.9733	2.1064
19	01:00:03	0.2229	0.2223	29.6400	2.1212
20	01:30:05	0.2205	0.2199	29.3200	2.1354
21	02:00:07	0.2189	0.2183	29.1067	2.1448
22	02:30:10	0.2179	0.2173	28.9733	2.1507
23	03:00:12	0.2170	0.2164	28.8533	2.1561
24	03:30:14	0.2163	0.2157	28.7600	2.1602
25	04:00:17	0.2158	0.2152	28.6933	2.1632
26	04:30:19	0.2153	0.2147	28.6267	2.1661
27	05:00:21	0.2150	0.2144	28.5867	2.1679
28	05:30:23	0.2147	0.2141	28.5467	2.1697
29	06:00:26	0.2143	0.2137	28.4933	2.1720
30	06:30:28	0.2141	0.2135	28.4667	2.1732
31	07:00:30	0.2139	0.2133	28.4400	2.1744
32	07:30:33	0.2137	0.2131	28.4133	2.1756
33	08:00:35	0.2135	0.2129	28.3867	2.1768
34	08:30:37	0.2133	0.2127	28.3600	2.1780
35	09:00:39	0.2131	0.2125	28.3333	2.1791
36	09:30:42	0.2130	0.2124	28.3200	2.1797
37	10:00:44	0.2128	0.2122	28.2933	2.1809
38	10:30:46	0.2127	0.2121	28.2800	2.1815
39	11:00:49	0.2126	0.2120	28.2667	2.1821
40	11:30:51	0.2125	0.2119	28.2533	2.1827
41	12:00:53	0.2124	0.2118	28.2400	2.1833
42	12:30:55	0.2123	0.2117	28.2267	2.1839
43	13:00:58	0.2122	0.2116	28.2133	2.1845
44	13:31:00	0.2121	0.2115	28.2000	2.1851
45	14:01:02	0.2119	0.2113	28.1733	2.1862
46	14:31:04	0.2119	0.2113	28.1733	2.1862
47	15:01:07	0.2118	0.2112	28.1600	2.1868
48	15:31:09	0.2118	0.2112	28.1600	2.1868
49	16:01:11	0.2117	0.2111	28.1467	2.1874
50	16:31:13	0.2116	0.2110	28.1333	2.1880
51	17:01:16	0.2116	0.2110	28.1333	2.1880
52	17:31:18	0.2115	0.2109	28.1200	2.1886
53	18:01:20	0.2115	0.2109	28.1200	2.1886
54	18:31:23	0.2114	0.2108	28.1067	2.1892
55	19:01:25	0.2113	0.2107	28.0933	2.1898
56	19:31:27	0.2112	0.2106	28.0800	2.1904
57	20:01:30	0.2111	0.2105	28.0667	2.1910
58	20:31:32	0.2111	0.2105	28.0667	2.1910
59	21:01:34	0.2110	0.2104	28.0533	2.1916
60	21:31:36	0.2110	0.2104	28.0533	2.1916
61	22:01:39	0.2110	0.2104	28.0533	2.1916
62	22:31:41	0.2110	0.2104	28.0533	2.1916
63	23:01:43	0.2109	0.2103	28.0400	2.1921
64	23:31:46	0.2109	0.2103	28.0400	2.1921
65	24:01:48	0.2108	0.2102	28.0267	2.1927
66	24:31:50	0.2108	0.2102	28.0267	2.1927
67	25:01:52	0.2108	0.2102	28.0267	2.1927
68	25:31:55	0.2107	0.2101	28.0133	2.1933
69	26:01:57	0.2107	0.2101	28.0133	2.1933
70	26:31:59	0.2107	0.2101	28.0133	2.1933
71	27:02:02	0.2106	0.2100	28.0000	2.1939
72	27:09:08	0.2105	0.2099	27.9867	2.1945

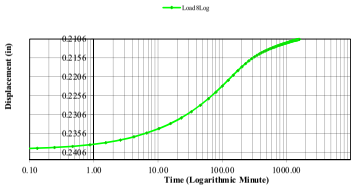
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:
Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

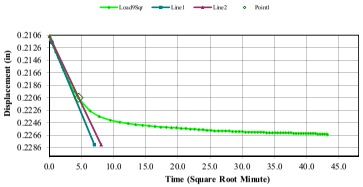
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2105	0.2099	27.9867	2.1945
1	00:00:01	0.2107	0.2101	28.0133	2.1933
2	00:00:02	0.2111	0.2105	28.0667	2.1910
3	00:00:03	0.2113	0.2107	28.0933	2.1898
4	00:00:04	0.2114	0.2108	28.1067	2.1892
5	00:00:05	0.2115	0.2109	28.1200	2.1886
6	00:00:06	0.2116	0.2110	28.1333	2.1880
7	00:00:12	0.2118	0.2112	28.1600	2.1868
8	00:00:15	0.2120	0.2114	28.1867	2.1856
9	00:00:30	0.2125	0.2119	28.2533	2.1827
10	00:01:00	0.2133	0.2127	28.3600	2.1780
11	00:02:00	0.2142	0.2136	28.4800	2.1726
12	00:04:00	0.2157	0.2151	28.6800	2.1638
13	00:05:00	0.2162	0.2156	28.7467	2.1608
14	00:08:00	0.2175	0.2169	28.9200	2.1531
15	00:10:00	0.2182	0.2176	29.0133	2.1490
16	00:15:01	0.2196	0.2190	29.2000	2.1407
17	00:20:01	0.2206	0.2200	29.3333	2.1348
18	00:40:03	0.2227	0.2221	29.6133	2.1224
19	01:00:04	0.2236	0.2230	29.7333	2.1170
20	01:30:06	0.2242	0.2236	29.8133	2.1135
21	02:00:09	0.2245	0.2239	29.8533	2.1117
22	02:30:11	0.2247	0.2241	29.8800	2.1105
23	03:00:13	0.2249	0.2243	29.9067	2.1093
24	03:30:16	0.2250	0.2244	29.9200	2.1088
25	04:00:18	0.2251	0.2245	29.9333	2.1082
26	04:30:20	0.2252	0.2246	29.9467	2.1076
27	05:00:22	0.2253	0.2247	29.9600	2.1070
28	05:30:25	0.2253	0.2247	29.9600	2.1070
29	06:00:27	0.2254	0.2248	29.9733	2.1064
30	06:30:29	0.2254	0.2248	29.9733	2.1064
31	07:00:32	0.2255	0.2249	29.9867	2.1058
32	07:30:34	0.2255	0.2249	29.9867	2.1058
33	08:00:36	0.2256	0.2250	30.0000	2.1052
34	08:30:39	0.2256	0.2250	30.0000	2.1052
35	09:00:41	0.2257	0.2251	30.0133	2.1046
36	09:30:43	0.2257	0.2251	30.0133	2.1046
37	10:00:45	0.2258	0.2252	30.0267	2.1040
38	10:30:48	0.2258	0.2252	30.0267	2.1040
39	11:00:50	0.2259	0.2253	30.0400	2.1034
40	11:30:52	0.2259	0.2253	30.0400	2.1034
41	12:00:55	0.2259	0.2253	30.0400	2.1034
42	12:30:57	0.2259	0.2253	30.0400	2.1034
43	13:00:59	0.2259	0.2253	30.0400	2.1034
44	13:31:01	0.2260	0.2254	30.0533	2.1028
45	14:01:04	0.2260	0.2254	30.0533	2.1028
46	14:31:06	0.2260	0.2254	30.0533	2.1028
47	15:01:08	0.2260	0.2254	30.0533	2.1028
48	15:31:10	0.2261	0.2255	30.0667	2.1022
49	16:01:13	0.2261	0.2255	30.0667	2.1022
50	16:31:15	0.2261	0.2255	30.0667	2.1022
51	17:01:17	0.2261	0.2255	30.0667	2.1022
52	17:31:20	0.2261	0.2255	30.0667	2.1022
53	18:01:22	0.2261	0.2255	30.0667	2.1022
54	18:31:24	0.2261	0.2255	30.0667	2.1022
55	19:01:26	0.2262	0.2256	30.0800	2.1017
56	19:31:29	0.2262	0.2256	30.0800	2.1017
57	20:01:31	0.2262	0.2256	30.0800	2.1017
58	20:31:33	0.2262	0.2256	30.0800	2.1017
59	21:01:35	0.2262	0.2256	30.0800	2.1017
60	21:31:38	0.2262	0.2256	30.0800	2.1017
61	22:01:40	0.2262	0.2256	30.0800	2.1017
62	22:31:42	0.2262	0.2256	30.0800	2.1017
63	23:01:45	0.2262	0.2256	30.0800	2.1017
64	23:31:47	0.2262	0.2256	30.0800	2.1017
65	24:01:49	0.2263	0.2257	30.0933	2.1011
66	24:31:51	0.2263	0.2257	30.0933	2.1011
67	25:01:54	0.2263	0.2257	30.0933	2.1011
68	25:31:56	0.2263	0.2257	30.0933	2.1011
69	26:01:58	0.2263	0.2257	30.0933	2.1011
70	26:32:01	0.2263	0.2257	30.0933	2.1011
71	27:02:03	0.2263	0.2257	30.0933	2.1011
72	27:32:05	0.2263	0.2257	30.0933	2.1011
73	28:02:08	0.2263	0.2257	30.0933	2.1011
74	28:32:10	0.2263	0.2257	30.0933	2.1011
75	29:02:12	0.2264	0.2258	30.1067	2.1005
76	29:32:15	0.2264	0.2258	30.1067	2.1005
77	30:02:17	0.2264	0.2258	30.1067	2.1005
78	30:32:19	0.2264	0.2258	30.1067	2.1005
79	31:02:21	0.2264	0.2258	30.1067	2.1005
80	31:10:13	0.2265	0.2259	30.1200	2.0999

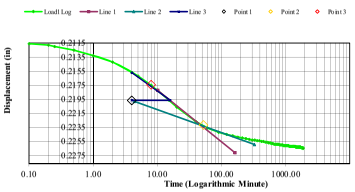
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:
Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

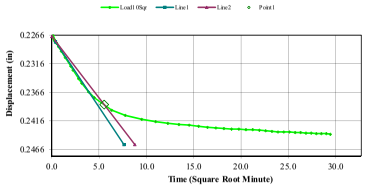
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2265	0.2259	30.1200	2.0999
1	00:00:01	0.2267	0.2261	30.1467	2.0987
2	00:00:02	0.2271	0.2265	30.2000	2.0963
3	00:00:03	0.2273	0.2267	30.2267	2.0951
4	00:00:04	0.2274	0.2268	30.2400	2.0946
5	00:00:05	0.2275	0.2269	30.2533	2.0940
6	00:00:06	0.2276	0.2270	30.2667	2.0934
7	00:00:12	0.2279	0.2273	30.3067	2.0916
8	00:00:15	0.2280	0.2274	30.3200	2.0910
9	00:00:30	0.2286	0.2280	30.4000	2.0875
10	00:01:00	0.2294	0.2288	30.5067	2.0827
11	00:02:00	0.2305	0.2299	30.6533	2.0762
12	00:04:00	0.2320	0.2314	30.8533	2.0673
13	00:05:01	0.2327	0.2321	30.9467	2.0632
14	00:08:01	0.2342	0.2336	31.1467	2.0543
15	00:10:01	0.2350	0.2344	31.2533	2.0496
16	00:15:01	0.2365	0.2359	31.4533	2.0407
17	00:20:02	0.2375	0.2369	31.5867	2.0348
18	00:40:03	0.2397	0.2391	31.8800	2.0218
19	01:00:05	0.2406	0.2400	32.0000	2.0165
20	01:30:07	0.2413	0.2407	32.0933	2.0123
21	02:00:09	0.2417	0.2411	32.1467	2.0100
22	02:30:12	0.2420	0.2414	32.1867	2.0082
23	03:00:14	0.2422	0.2416	32.2133	2.0070
24	03:30:16	0.2423	0.2417	32.2267	2.0064
25	04:00:18	0.2425	0.2419	32.2533	2.0052
26	04:30:21	0.2427	0.2421	32.2800	2.0041
27	05:00:23	0.2428	0.2422	32.2933	2.0035
28	05:30:25	0.2429	0.2423	32.3067	2.0029
29	06:00:27	0.2430	0.2424	32.3200	2.0023
30	06:30:30	0.2430	0.2424	32.3200	2.0023
31	07:00:32	0.2431	0.2425	32.3333	2.0017
32	07:30:34	0.2431	0.2425	32.3333	2.0017
33	08:00:36	0.2432	0.2426	32.3467	2.0011
34	08:30:39	0.2433	0.2427	32.3600	2.0005
35	09:00:41	0.2434	0.2428	32.3733	1.9999
36	09:30:43	0.2435	0.2429	32.3867	1.9993
37	10:00:46	0.2435	0.2429	32.3867	1.9993
38	10:30:48	0.2435	0.2429	32.3867	1.9993
39	11:00:50	0.2436	0.2430	32.4000	1.9987
40	11:30:52	0.2436	0.2430	32.4000	1.9987
41	12:00:55	0.2437	0.2431	32.4133	1.9981
42	12:30:57	0.2437	0.2431	32.4133	1.9981
43	13:00:59	0.2438	0.2432	32.4267	1.9976
44	13:31:01	0.2438	0.2432	32.4267	1.9976
45	14:01:04	0.2438	0.2432	32.4267	1.9976
46	14:25:40	0.2439	0.2433	32.4400	1.9970

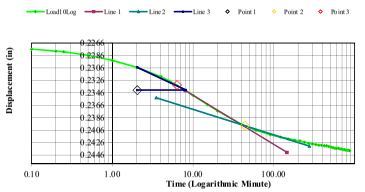
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

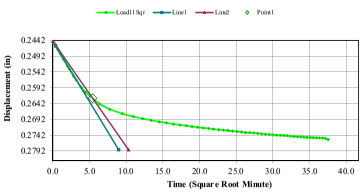
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2439	0.2433	32.4400	1.9970
1	00:00:01	0.2448	0.2442	32.5600	1.9916
2	00:00:02	0.2451	0.2445	32.6000	1.9899
3	00:00:03	0.2453	0.2447	32.6267	1.9887
4	00:00:04	0.2454	0.2448	32.6400	1.9881
5	00:00:05	0.2455	0.2449	32.6533	1.9875
6	00:00:06	0.2456	0.2450	32.6667	1.9869
7	00:00:12	0.2462	0.2456	32.7467	1.9834
8	00:00:15	0.2463	0.2457	32.7600	1.9828
9	00:00:30	0.2472	0.2466	32.8800	1.9774
10	00:01:00	0.2484	0.2478	33.0400	1.9703
11	00:02:00	0.2501	0.2495	33.2667	1.9603
12	00:04:00	0.2524	0.2518	33.5733	1.9467
13	00:05:00	0.2533	0.2527	33.6933	1.9414
14	00:08:01	0.2555	0.2549	33.9867	1.9284
15	00:10:01	0.2567	0.2561	34.1467	1.9213
16	00:15:01	0.2590	0.2584	34.4533	1.9077
17	00:20:01	0.2606	0.2600	34.6667	1.8982
18	00:40:03	0.2643	0.2637	35.1600	1.8763
19	01:00:04	0.2660	0.2654	35.3867	1.8663
20	01:30:07	0.2674	0.2668	35.5733	1.8580
21	02:00:09	0.2683	0.2677	35.6933	1.8526
22	02:30:11	0.2690	0.2684	35.7867	1.8485
23	03:00:14	0.2695	0.2689	35.8533	1.8455
24	03:30:16	0.2700	0.2694	35.9200	1.8426
25	04:00:18	0.2703	0.2697	35.9600	1.8408
26	04:30:20	0.2707	0.2701	36.0133	1.8385
27	05:00:23	0.2710	0.2704	36.0533	1.8367
28	05:30:25	0.2712	0.2706	36.0800	1.8355
29	06:00:27	0.2715	0.2709	36.1200	1.8337
30	06:30:30	0.2717	0.2711	36.1467	1.8325
31	07:00:32	0.2719	0.2713	36.1733	1.8314
32	07:30:34	0.2721	0.2715	36.2000	1.8302
33	08:00:36	0.2723	0.2717	36.2267	1.8290
34	08:30:39	0.2725	0.2719	36.2533	1.8278
35	09:00:41	0.2726	0.2720	36.2667	1.8272
36	09:30:43	0.2727	0.2721	36.2800	1.8266
37	10:00:46	0.2729	0.2723	36.3067	1.8254
38	10:30:48	0.2731	0.2725	36.3333	1.8243
39	11:00:50	0.2732	0.2726	36.3467	1.8237
40	11:30:52	0.2734	0.2728	36.3733	1.8225
41	12:00:55	0.2734	0.2728	36.3733	1.8225
42	12:30:57	0.2735	0.2729	36.3867	1.8219
43	13:00:59	0.2736	0.2730	36.4000	1.8213
44	13:31:01	0.2738	0.2732	36.4267	1.8201
45	14:01:04	0.2739	0.2733	36.4400	1.8195
46	14:31:06	0.2740	0.2734	36.4533	1.8189
47	15:01:08	0.2741	0.2735	36.4667	1.8183
48	15:31:11	0.2742	0.2736	36.4800	1.8178
49	16:01:13	0.2742	0.2736	36.4800	1.8178
50	16:31:15	0.2743	0.2737	36.4933	1.8172
51	17:01:18	0.2744	0.2738	36.5067	1.8166
52	17:31:20	0.2745	0.2739	36.5200	1.8160
53	18:01:22	0.2746	0.2740	36.5333	1.8154
54	18:31:24	0.2747	0.2741	36.5467	1.8148
55	19:01:27	0.2747	0.2741	36.5467	1.8148
56	19:31:29	0.2748	0.2742	36.5600	1.8142
57	20:01:31	0.2749	0.2743	36.5733	1.8136
58	20:31:34	0.2749	0.2743	36.5733	1.8136
59	21:01:36	0.2750	0.2744	36.5867	1.8130
60	21:31:38	0.2750	0.2744	36.5867	1.8130
61	22:01:40	0.2751	0.2745	36.6000	1.8124
62	22:31:43	0.2751	0.2745	36.6000	1.8124
63	23:01:45	0.2752	0.2746	36.6133	1.8118
64	23:29:36	0.2756	0.2750	36.6667	1.8095

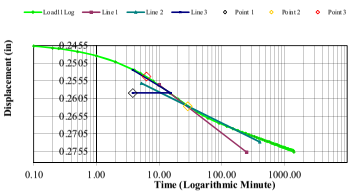
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

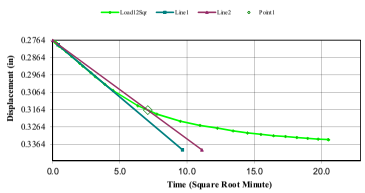
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2756	0.2750	36.6667	1.8095
1	00:00:01	0.2772	0.2766	36.8800	1.8000
2	00:00:02	0.2775	0.2769	36.9200	1.7982
3	00:00:03	0.2779	0.2773	36.9733	1.7959
4	00:00:04	0.2781	0.2775	37.0000	1.7947
5	00:00:05	0.2782	0.2776	37.0133	1.7941
6	00:00:06	0.2784	0.2778	37.0400	1.7929
7	00:00:12	0.2796	0.2790	37.2000	1.7858
8	00:00:15	0.2798	0.2792	37.2267	1.7846
9	00:00:30	0.2811	0.2805	37.4000	1.7769
10	00:01:00	0.2830	0.2824	37.6533	1.7657
11	00:02:00	0.2858	0.2852	38.0267	1.7491
12	00:04:00	0.2897	0.2891	38.5467	1.7261
13	00:05:00	0.2913	0.2907	38.7600	1.7166
14	00:08:00	0.2951	0.2945	39.2667	1.6941
15	00:10:00	0.2974	0.2968	39.5733	1.6805
16	00:15:01	0.3018	0.3012	40.1600	1.6545
17	00:20:01	0.3053	0.3047	40.6267	1.6338
18	00:40:02	0.3142	0.3136	41.8133	1.5812
19	01:00:04	0.3190	0.3184	42.4533	1.5528
20	01:30:03	0.3231	0.3225	43.0000	1.5285
21	02:00:03	0.3255	0.3249	43.3200	1.5143
22	02:30:03	0.3271	0.3265	43.5333	1.5049
23	03:00:03	0.3287	0.3281	43.7467	1.4954
24	03:30:02	0.3299	0.3293	43.9067	1.4883
25	04:00:02	0.3307	0.3301	44.0133	1.4836
26	04:30:01	0.3315	0.3309	44.1200	1.4788
27	05:00:01	0.3319	0.3313	44.1733	1.4765
28	05:30:00	0.3325	0.3319	44.2533	1.4729
29	05:59:59	0.3330	0.3324	44.3200	1.4700
30	06:29:59	0.3334	0.3328	44.3733	1.4676
31	06:59:58	0.3337	0.3331	44.4133	1.4658
32	07:01:19	0.3338	0.3332	44.4267	1.4652

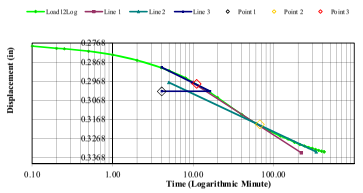
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

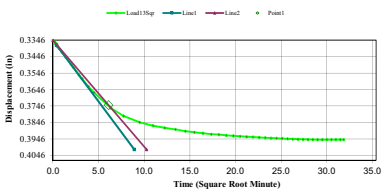
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

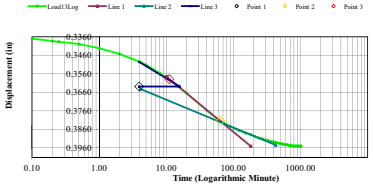
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3338	0.3332	44.4267	1.4652
1	00:00:01	0.3355	0.3349	44.6533	1.4552
2	00:00:02	0.3359	0.3353	44.7067	1.4528
3	00:00:03	0.3363	0.3357	44.7600	1.4504
4	00:00:04	0.3365	0.3359	44.7867	1.4493
5	00:00:05	0.3367	0.3361	44.8133	1.4481
6	00:00:06	0.3370	0.3364	44.8533	1.4463
7	00:00:12	0.3382	0.3376	45.0133	1.4392
8	00:00:15	0.3386	0.3380	45.0667	1.4368
9	00:00:30	0.3399	0.3393	45.2400	1.4292
10	00:01:00	0.3421	0.3415	45.5333	1.4161
11	00:02:00	0.3452	0.3446	45.9467	1.3978
12	00:04:00	0.3494	0.3488	46.5067	1.3730
13	00:05:00	0.3512	0.3506	46.7467	1.3623
14	00:08:00	0.3556	0.3550	47.3333	1.3363
15	00:10:00	0.3579	0.3573	47.6400	1.3227
16	00:15:00	0.3627	0.3621	48.2800	1.2943
17	00:20:00	0.3664	0.3658	48.7733	1.2724
18	00:39:59	0.3758	0.3752	50.0267	1.2168
19	00:59:59	0.3807	0.3801	50.6800	1.1878
20	01:29:58	0.3845	0.3839	51.1867	1.1654
21	01:59:57	0.3866	0.3860	51.4667	1.1529
22	02:29:57	0.3879	0.3873	51.6400	1.1453
23	02:59:56	0.3888	0.3882	51.7600	1.1399
24	03:29:55	0.3899	0.3893	51.9067	1.1334
25	03:59:54	0.3906	0.3900	52.0000	1.1293
26	04:29:53	0.3911	0.3905	52.0667	1.1263
27	04:59:53	0.3917	0.3911	52.1467	1.1228
28	05:29:52	0.3920	0.3914	52.1867	1.1210
29	05:59:51	0.3924	0.3918	52.2400	1.1186
30	06:29:50	0.3927	0.3921	52.2800	1.1169
31	06:59:50	0.3930	0.3924	52.3200	1.1151
32	07:29:49	0.3933	0.3927	52.3600	1.1133
33	07:59:48	0.3934	0.3928	52.3733	1.1127
34	08:29:48	0.3937	0.3931	52.4133	1.1109
35	08:59:47	0.3939	0.3933	52.4400	1.1098
36	09:29:46	0.3941	0.3935	52.4667	1.1086
37	09:59:46	0.3942	0.3936	52.4800	1.1080
38	10:29:46	0.3943	0.3937	52.4933	1.1074
39	10:59:46	0.3945	0.3939	52.5200	1.1062
40	11:29:46	0.3947	0.3941	52.5467	1.1050
41	11:59:47	0.3948	0.3942	52.5600	1.1044
42	12:29:46	0.3949	0.3943	52.5733	1.1038
43	12:59:46	0.3950	0.3944	52.5867	1.1033
44	13:29:45	0.3950	0.3944	52.5867	1.1033
45	13:59:44	0.3950	0.3944	52.5867	1.1033
46	14:29:44	0.3950	0.3944	52.5867	1.1033
47	14:59:43	0.3950	0.3944	52.5867	1.1033
48	15:29:42	0.3950	0.3944	52.5867	1.1033
49	15:59:42	0.3950	0.3944	52.5867	1.1033
50	16:29:42	0.3950	0.3944	52.5867	1.1033
51	16:53:38	0.3950	0.3944	52.5867	1.1033

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

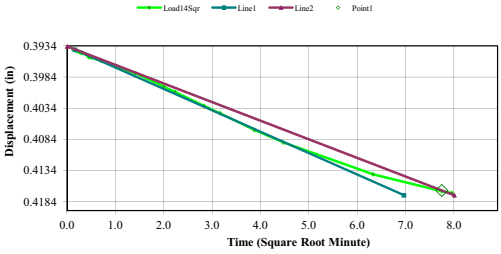
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

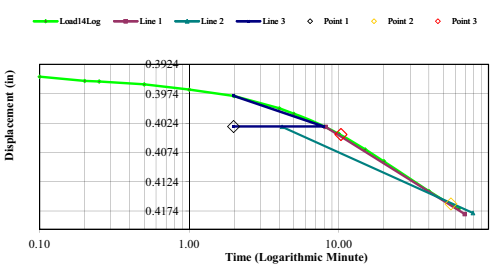
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3950	0.3944	52.5867	1.1033
1	00:00:01	0.3940	0.3934	52.4533	1.1092
2	00:00:02	0.3942	0.3936	52.4800	1.1080
3	00:00:03	0.3943	0.3937	52.4933	1.1074
4	00:00:04	0.3944	0.3938	52.5067	1.1068
5	00:00:05	0.3945	0.3939	52.5200	1.1062
6	00:00:06	0.3945	0.3939	52.5200	1.1062
7	00:00:12	0.3952	0.3946	52.6133	1.1021
8	00:00:15	0.3953	0.3947	52.6267	1.1015
9	00:00:30	0.3958	0.3952	52.6933	1.0985
10	00:01:00	0.3967	0.3961	52.8133	1.0932
11	00:02:00	0.3978	0.3972	52.9600	1.0867
12	00:04:00	0.3999	0.3993	53.2400	1.0743
13	00:05:00	0.4008	0.4002	53.3600	1.0690
14	00:08:00	0.4030	0.4024	53.6533	1.0559
15	00:10:00	0.4042	0.4036	53.8133	1.0488
16	00:15:00	0.4069	0.4063	54.1733	1.0329
17	00:20:00	0.4089	0.4083	54.4400	1.0210
18	00:40:00	0.4140	0.4134	55.1200	0.9909
19	01:00:00	0.4167	0.4161	55.4800	0.9749
20	01:03:19	0.4170	0.4164	55.5200	0.9731

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



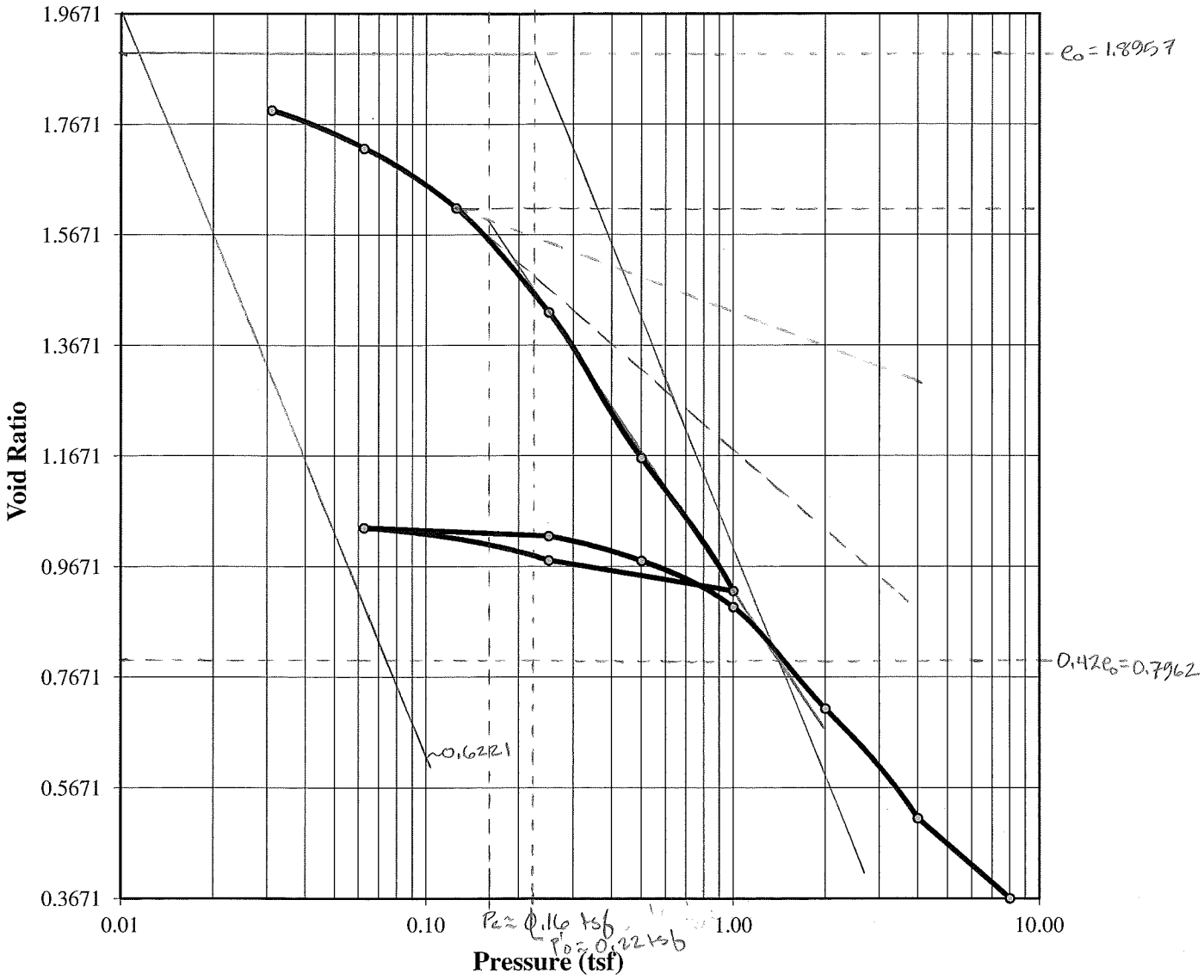
Consolidation Graph (Logarithmic Time)



40 ticks = 0.2
(100 ticks = 1")

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	99.80	41.00	**Liquid Limits:**	107	**Test Date:**	26 Oct 2011
Dry Density (pcf):	44.36	89.89	**Plastic Limits:**	30		
Saturation (%):	108.14	195.27	**Plasticity Index (%):**	77		
Void Ratio:	1.8957	0.3652	**Specific Gravity:**	2.064	Measured	

Soil Description: Organic clay (OH)

0.42e₀ = 0.7062

Project Number: 16715-023-00 **Depth:** 22 - 24 feet

Sample Number: **Boring Number:** 3

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

Remarks: γ = 1.998 (49.36 pcf) = 88.1 pcf

γavg @ 22-24 ft = 88.1 pcf

γavg = (72.9 + 73.8 + 80.0 + 83.8 + 85 + 82.1 + 88.6 + 101.6 + 99.6 + 98.1)/10

= 85.7 pcf

γ'avg = 23.3 pcf

P'o = 23.3 (19.0) = 442.7 psf

= 0.22 tsf

OCR = 0.16 / 0.22 ≈ 0.73

OCR < 1

Behaves as Normally consolidated

$C_c = \frac{1.9671 - 0.6221}{\log\left(\frac{0.1}{0.01}\right)}$

$= 1.345$

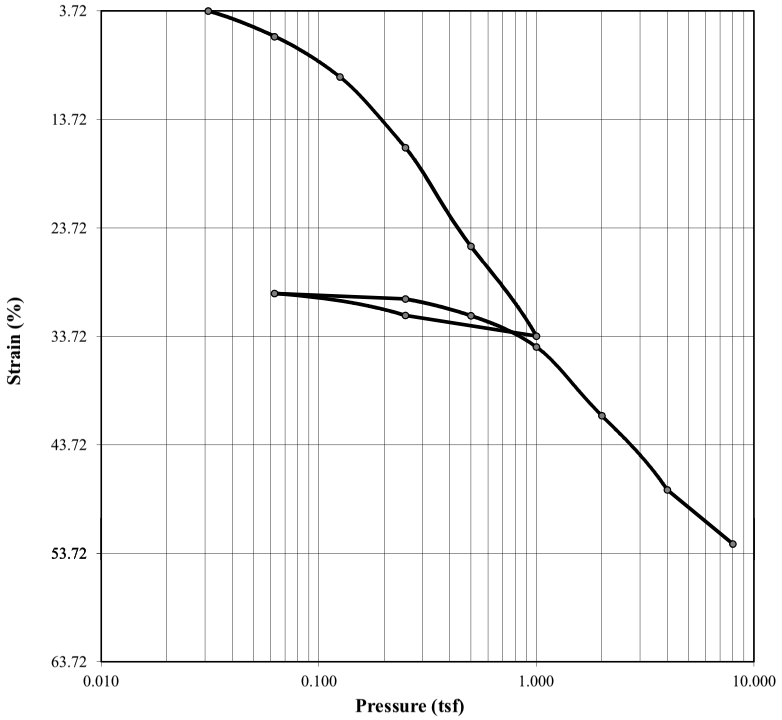
$CR = \frac{1.345}{2.8957} = 0.4645$

C_v @ P'o ≈ 2 ft²/yr

≈ 0.005 ft²/day

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	107	**Test Date:**	26 Oct 2011
Moisture (%):	99.80	41.00	**Plastic Limits:**	30		
Dry Density (pcf):	44.36	89.89	**Plasticity Index (%):**	77		
Saturation (%):	108.14	195.27				
Void Ratio:	1.8957	0.3652	**Specific Gravity:**	2.064	Measured	

Sample Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 22 - 24 feet **Remarks:**

Sample Number: **Boring Number:** 3

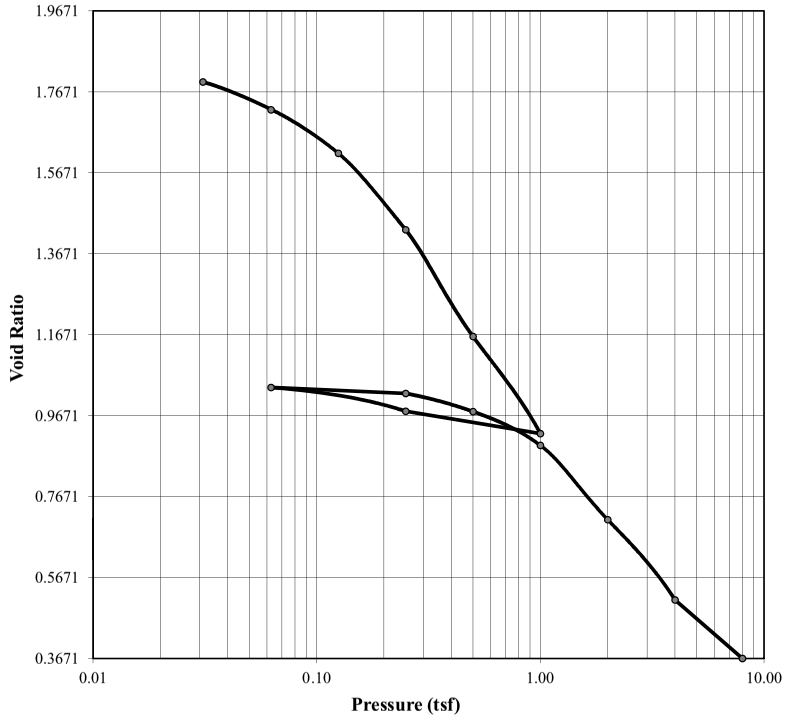
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	107	**Test Date:**	26 Oct 2011
Moisture (%):	99.80	41.00	**Plastic Limits:**	30		
Dry Density (pcf):	44.36	89.89	**Plasticity Index (%):**	77		
Saturation (%):	108.14	195.27				
Void Ratio:	1.8957	0.3652	**Specific Gravity:**	2.064	Measured	

Soil Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 22 - 24 feet **Remarks:**

Sample Number: **Boring Number:** 3

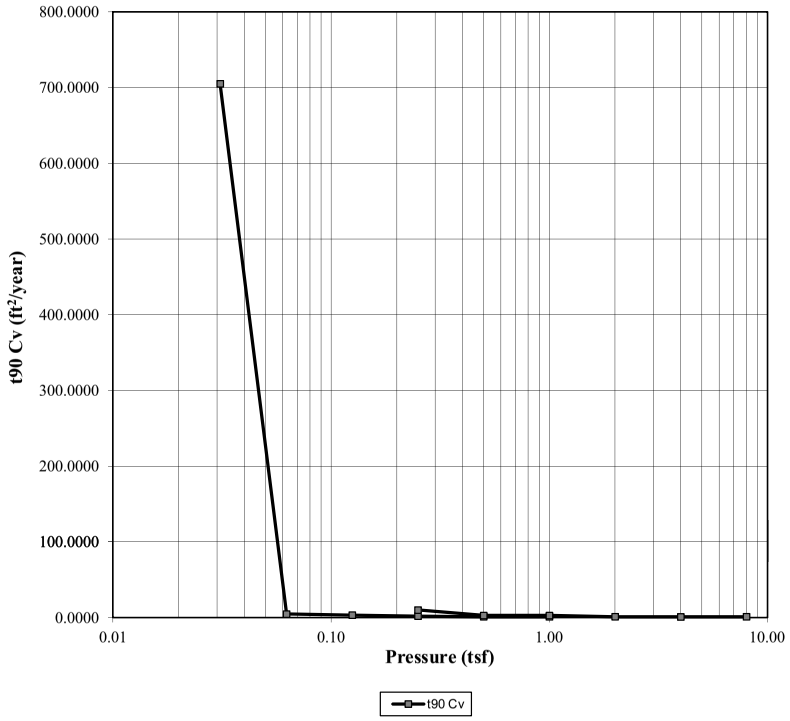
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results

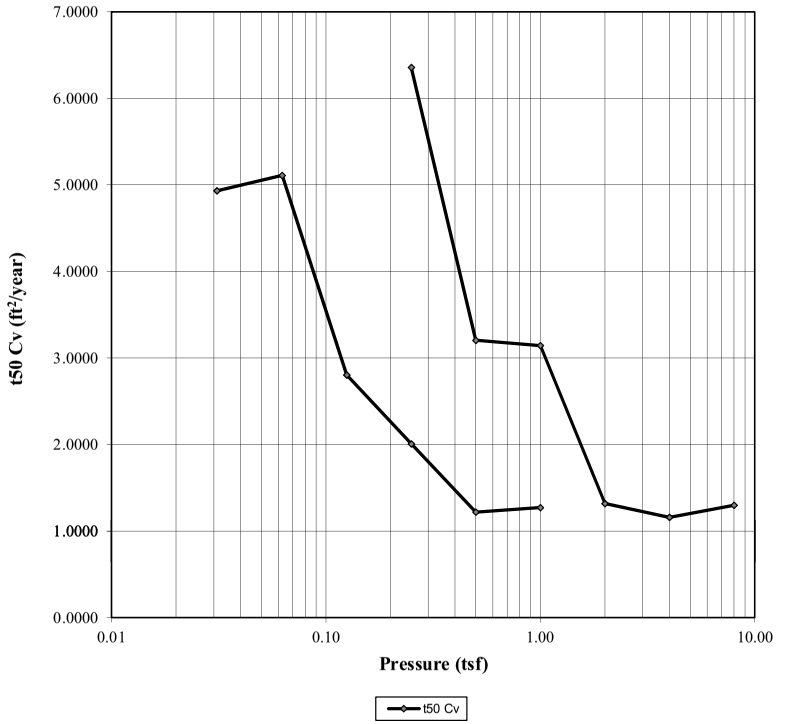


	Before	After				
Moisture (%):	99.80	41.00	**Liquid Limits:**	107	**Test Date:**	26 Oct 2011
Dry Density (pcf):	44.36	89.89	**Plastic Limits:**	30		
Saturation (%):	108.14	195.27	**Plasticity Index (%):**	77		
Void Ratio:	1.8957	0.3652	**Specific Gravity:**	2.064	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 22 - 24 feet	**Remarks:**
Sample Number:		**Boring Number:** 3	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	99.80	41.00	**Liquid Limits:**	107	**Test Date:**	26 Oct 2011
Dry Density (pcf):	44.36	89.89	**Plastic Limits:**	30		
Saturation (%):	108.14	195.27	**Plasticity Index (%):**	77		
Void Ratio:	1.8957	0.3652	**Specific Gravity:**	2.064	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 22 - 24 feet	**Remarks:**
Sample Number:		**Boring Number:** 3	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Sample Description: Organic clay (OH)
Remarks:

Test Number:
Test Date: 26 Oct 2011

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	0.7500	0.4913	0.00	1.8996	0.000	0.000	0.000	0.000
1	0.031	0.0279	0.7221	0.4634	3.72	1.7917	0.572	19.005	704.982	4.932
2	0.063	0.0457	0.7043	0.4456	6.09	1.7229	81.217	17.451	4.726	5.110
3	0.125	0.0735	0.6765	0.4178	9.80	1.6154	106.451	29.355	3.327	2.803
4	0.250	0.1224	0.6276	0.3689	16.32	1.4264	152.640	35.271	1.997	2.007
5	0.500	0.1906	0.5594	0.3007	25.41	1.1627	200.807	46.144	1.206	1.219
6	1.000	0.2527	0.4973	0.2386	33.69	0.9226	171.206	34.977	1.118	1.271
7	0.250	0.2384	0.5116	0.2529	31.79	0.9779	0.000	0.000	0.000	0.000
8	0.063	0.2232	0.5268	0.2681	29.76	1.0367	0.000	0.000	0.000	0.000
9	0.250	0.2270	0.5230	0.2643	30.27	1.0220	20.912	7.735	10.121	6.357
10	0.500	0.2386	0.5114	0.2527	31.81	0.9771	71.008	14.672	2.850	3.204
11	1.000	0.2602	0.4898	0.2311	34.69	0.8936	65.716	13.722	2.825	3.143
12	2.000	0.3077	0.4423	0.1836	41.03	0.7100	126.899	26.693	1.193	1.317
13	4.000	0.3590	0.3910	0.1323	47.87	0.5117	114.249	23.732	1.035	1.158
14	8.000	0.3964	0.3536	0.0949	52.85	0.3671	83.619	17.310	1.157	1.298

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 6715-023-00
Test Date: 26 Oct 2011

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Sample Description: Organic clay (OH)
Remarks:

Test Number:
Liquid Limit: 107.0000
Plastic Limit: 30.0000
Specific Gravity: 2.0640 Measured

Initial Void Ratio: 1.8957
Plasticity Index (%): 77.0000
Weight of Ring (g): 106.9800

Initial Height (in): 0.7500
Initial Diameter (in): 2.5000

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	123.15	84.78
Dry Soil + Container (g)	72.88	68.08
Weight of Container (g)	22.51	27.35
Moisture Content (%)	99.80	41.00
Void Ratio	1.8957	0.3652
Saturation (%)	108.14	195.27
Dry Density (pcf)	44.36	89.89

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 2011
Test Number:

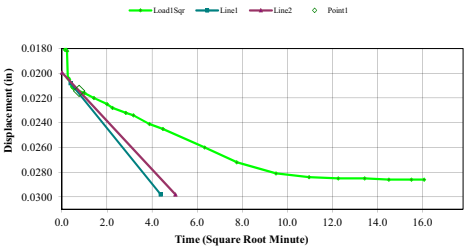
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

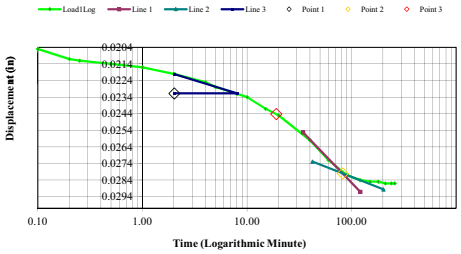
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0007	0.0000	0.0000	1.8957
1	00:00:01	0.0181	0.0174	2.3200	1.8285
2	00:00:02	0.0181	0.0174	2.3200	1.8285
3	00:00:03	0.0182	0.0175	2.3333	1.8281
4	00:00:04	0.0204	0.0197	2.6267	1.8196
5	00:00:05	0.0204	0.0197	2.6267	1.8196
6	00:00:06	0.0205	0.0198	2.6400	1.8192
7	00:00:12	0.0211	0.0204	2.7200	1.8169
8	00:00:15	0.0212	0.0205	2.7333	1.8165
9	00:00:30	0.0214	0.0207	2.7600	1.8157
10	00:01:00	0.0216	0.0209	2.7867	1.8150
11	00:02:00	0.0220	0.0213	2.8400	1.8134
12	00:04:00	0.0225	0.0218	2.9067	1.8115
13	00:05:01	0.0228	0.0221	2.9467	1.8103
14	00:08:01	0.0232	0.0225	3.0000	1.8088
15	00:10:02	0.0234	0.0227	3.0267	1.8080
16	00:15:02	0.0241	0.0234	3.1200	1.8053
17	00:20:03	0.0245	0.0238	3.1733	1.8038
18	00:40:05	0.0260	0.0253	3.3733	1.7980
19	01:00:06	0.0272	0.0265	3.5333	1.7934
20	01:30:08	0.0281	0.0274	3.6533	1.7899
21	02:00:10	0.0284	0.0277	3.6933	1.7887
22	02:30:12	0.0285	0.0278	3.7067	1.7883
23	03:00:15	0.0285	0.0278	3.7067	1.7883
24	03:30:17	0.0286	0.0279	3.7200	1.7879
25	04:00:19	0.0286	0.0279	3.7200	1.7879
26	04:18:04	0.0286	0.0279	3.7200	1.7879

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 2011
Test Number:

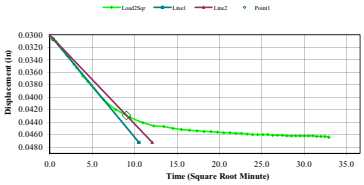
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

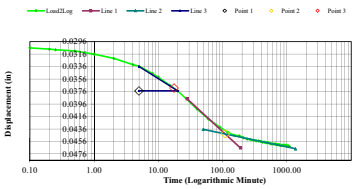
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0286	0.0279	3.7200	1.7879
1	00:00:01	0.0305	0.0298	3.9733	1.7806
2	00:00:02	0.0305	0.0298	3.9733	1.7806
3	00:00:03	0.0305	0.0298	3.9733	1.7806
4	00:00:04	0.0306	0.0299	3.9867	1.7802
5	00:00:05	0.0306	0.0299	3.9867	1.7802
6	00:00:06	0.0306	0.0299	3.9867	1.7802
7	00:00:12	0.0308	0.0301	4.0133	1.7795
8	00:00:15	0.0309	0.0302	4.0267	1.7791
9	00:00:30	0.0311	0.0304	4.0533	1.7783
10	00:01:00	0.0316	0.0309	4.1200	1.7764
11	00:02:01	0.0323	0.0316	4.2133	1.7737
12	00:04:01	0.0333	0.0326	4.3467	1.7698
13	00:05:01	0.0336	0.0329	4.3867	1.7686
14	00:08:01	0.0347	0.0340	4.5333	1.7644
15	00:10:01	0.0353	0.0346	4.6133	1.7621
16	00:15:02	0.0366	0.0359	4.7867	1.7571
17	00:20:02	0.0375	0.0368	4.9067	1.7536
18	00:40:03	0.0404	0.0397	5.2933	1.7424
19	01:00:05	0.0420	0.0413	5.5067	1.7362
20	01:30:07	0.0433	0.0426	5.6800	1.7312
21	02:00:10	0.0441	0.0434	5.7867	1.7281
22	02:30:12	0.0446	0.0439	5.8533	1.7262
23	03:00:14	0.0447	0.0440	5.8667	1.7258
24	03:30:16	0.0450	0.0443	5.9067	1.7246
25	04:00:19	0.0452	0.0445	5.9333	1.7239
26	04:30:21	0.0453	0.0446	5.9467	1.7235
27	05:00:23	0.0454	0.0447	5.9600	1.7231
28	**05:30:25**	**0.0455**	**0.0448**	**5.9733**	**1.7227**
29	06:00:28	0.0455	0.0448	5.9733	1.7227
30	06:30:30	0.0456	0.0449	5.9867	1.7223
31	07:00:32	0.0457	0.0450	6.0000	1.7219
32	07:30:35	0.0457	0.0450	6.0000	1.7219
33	08:00:37	0.0458	0.0451	6.0133	1.7215
34	08:30:39	0.0458	0.0451	6.0133	1.7215
35	09:00:41	0.0459	0.0452	6.0267	1.7212
36	09:30:44	0.0460	0.0453	6.0400	1.7208
37	10:00:46	0.0460	0.0453	6.0400	1.7208
38	10:30:48	0.0460	0.0453	6.0400	1.7208
39	11:00:50	0.0460	0.0453	6.0400	1.7208
40	11:30:53	0.0461	0.0454	6.0533	1.7204
41	12:00:55	0.0461	0.0454	6.0533	1.7204
42	12:30:57	0.0461	0.0454	6.0533	1.7204
43	13:01:00	0.0462	0.0455	6.0667	1.7200
44	13:31:02	0.0462	0.0455	6.0667	1.7200
45	14:01:04	0.0462	0.0455	6.0667	1.7200
46	14:31:07	0.0462	0.0455	6.0667	1.7200
47	15:01:09	0.0462	0.0455	6.0667	1.7200
48	15:31:11	0.0462	0.0455	6.0667	1.7200
49	16:01:13	0.0462	0.0455	6.0667	1.7200
50	16:31:16	0.0463	0.0456	6.0800	1.7196
51	17:01:18	0.0463	0.0456	6.0800	1.7196
52	17:31:20	0.0463	0.0456	6.0800	1.7196
53	18:01:23	0.0464	0.0457	6.0933	1.7192
54	18:03:30	0.0464	0.0457	6.0933	1.7192

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

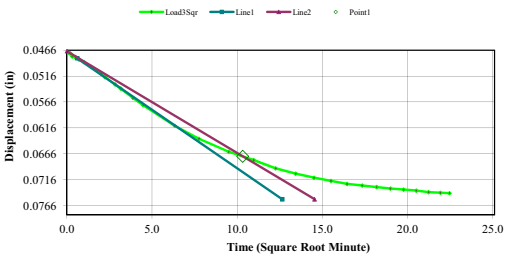
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

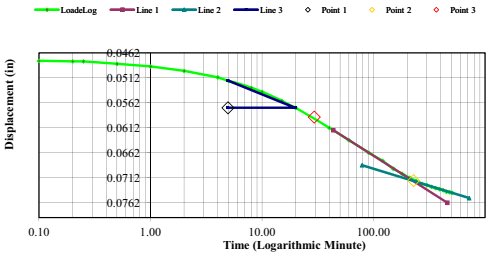
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0464	0.0457	6.0933	1.7192
1	00:00:01	0.0471	0.0464	6.1867	1.7165
2	00:00:02	0.0472	0.0465	6.2000	1.7161
3	00:00:03	0.0473	0.0466	6.2133	1.7157
4	00:00:04	0.0474	0.0467	6.2267	1.7154
5	00:00:05	0.0476	0.0469	6.2533	1.7146
6	00:00:06	0.0478	0.0471	6.2800	1.7138
7	00:00:12	0.0479	0.0472	6.2933	1.7134
8	00:00:15	0.0479	0.0472	6.2933	1.7134
9	00:00:30	0.0484	0.0477	6.3600	1.7115
10	00:01:00	0.0489	0.0482	6.4267	1.7096
11	00:02:00	0.0498	0.0491	6.5467	1.7061
12	00:04:00	0.0511	0.0504	6.7200	1.7011
13	00:05:00	0.0518	0.0511	6.8133	1.6984
14	00:08:00	0.0532	0.0525	7.0000	1.6930
15	00:10:00	0.0540	0.0533	7.1067	1.6899
16	00:15:01	0.0558	0.0551	7.3467	1.6829
17	00:20:01	0.0572	0.0565	7.5333	1.6775
18	00:40:03	0.0612	0.0605	8.0667	1.6621
19	01:00:04	0.0637	0.0630	8.4000	1.6524
20	01:30:07	0.0662	0.0655	8.7333	1.6428
21	02:00:09	0.0678	0.0671	8.9467	1.6366
22	02:30:11	0.0694	0.0687	9.1600	1.6304
23	03:00:14	0.0704	0.0697	9.2933	1.6266
24	03:30:16	0.0712	0.0705	9.4000	1.6235
25	04:00:18	0.0718	0.0711	9.4800	1.6212
26	04:30:20	0.0724	0.0717	9.5600	1.6188
27	05:00:23	0.0727	0.0720	9.6000	1.6177
28	05:30:25	0.0730	0.0723	9.6400	1.6165
29	06:00:27	0.0733	0.0726	9.6800	1.6154
30	06:30:30	0.0735	0.0728	9.7067	1.6146
31	07:00:32	0.0737	0.0730	9.7333	1.6138
32	07:30:34	0.0740	0.0733	9.7733	1.6127
33	08:00:36	0.0741	0.0734	9.7867	1.6123
34	08:24:22	0.0742	0.0735	9.8000	1.6119

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

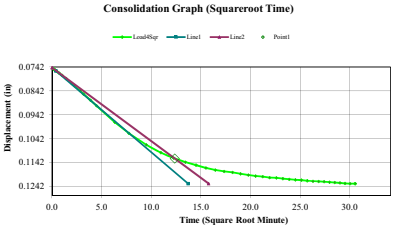
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

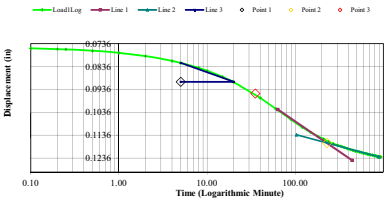
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0742	0.0735	9.8000	1.6119
1	00:00:01	0.0749	0.0742	9.8933	1.6092
2	00:00:02	0.0751	0.0744	9.9200	1.6084
3	00:00:03	0.0751	0.0744	9.9200	1.6084
4	00:00:04	0.0754	0.0747	9.9600	1.6073
5	00:00:05	0.0755	0.0748	9.9733	1.6069
6	00:00:06	0.0756	0.0749	9.9867	1.6065
7	00:00:12	0.0759	0.0752	10.0267	1.6053
8	00:00:15	0.0760	0.0753	10.0400	1.6049
9	00:00:30	0.0767	0.0760	10.1333	1.6022
10	00:01:00	0.0776	0.0769	10.2533	1.5988
11	00:02:00	0.0790	0.0783	10.4400	1.5934
12	00:04:00	0.0811	0.0804	10.7200	1.5853
13	00:05:01	0.0820	0.0813	10.8400	1.5818
14	00:08:01	0.0841	0.0834	11.1200	1.5737
15	00:10:01	0.0855	0.0848	11.3067	1.5683
16	00:15:01	0.0881	0.0874	11.6533	1.5582
17	00:20:02	0.0904	0.0897	11.9600	1.5493
18	00:40:03	0.0973	0.0966	12.8800	1.5227
19	01:00:05	0.1020	0.1013	13.5067	1.5046
20	01:30:07	0.1068	0.1061	14.1467	1.4860
21	02:00:09	0.1101	0.1094	14.5867	1.4733
22	02:30:12	0.1124	0.1117	14.8933	1.4644
23	03:00:14	0.1141	0.1134	15.1200	1.4578
24	03:30:16	0.1153	0.1146	15.2800	1.4532
25	04:00:18	0.1165	0.1158	15.4400	1.4486
26	04:30:21	0.1174	0.1167	15.5600	1.4451
27	05:00:23	0.1180	0.1173	15.6400	1.4428
28	05:30:25	0.1184	0.1177	15.6933	1.4412
29	06:00:28	0.1190	0.1183	15.7733	1.4389
30	06:30:30	0.1195	0.1188	15.8400	1.4370
31	07:00:32	0.1199	0.1192	15.8933	1.4354
32	07:30:34	0.1202	0.1195	15.9333	1.4343
33	08:00:37	0.1206	0.1199	15.9867	1.4327
34	08:30:39	0.1207	0.1200	16.0000	1.4324
35	09:00:41	0.1210	0.1203	16.0400	1.4312
36	09:30:44	0.1213	0.1206	16.0800	1.4300
37	10:00:46	0.1215	0.1208	16.1067	1.4293
38	10:30:48	0.1216	0.1209	16.1200	1.4289
39	11:00:50	0.1219	0.1212	16.1600	1.4277
40	11:30:53	0.1221	0.1214	16.1867	1.4270
41	12:00:55	0.1222	0.1215	16.2000	1.4266
42	12:30:57	0.1223	0.1216	16.2133	1.4262
43	13:01:00	0.1225	0.1218	16.2400	1.4254
44	13:31:02	0.1226	0.1219	16.2533	1.4250
45	14:01:04	0.1228	0.1221	16.2800	1.4243
46	14:31:07	0.1230	0.1223	16.3067	1.4235
47	15:01:09	0.1231	0.1224	16.3200	1.4231
48	15:31:11	0.1231	0.1224	16.3200	1.4231
49	15:33:17	0.1231	0.1224	16.3200	1.4231

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

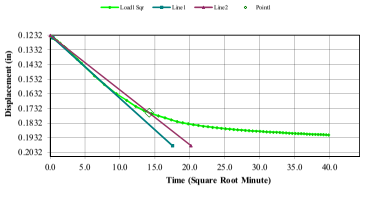
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1231	0.1224	16.3200	1.4231
1	00:00:01	0.1241	0.1234	16.4533	1.4192
2	00:00:02	0.1244	0.1237	16.4933	1.4181
3	00:00:03	0.1245	0.1238	16.5067	1.4177
4	00:00:04	0.1246	0.1239	16.5200	1.4173
5	00:00:05	0.1247	0.1240	16.5333	1.4169
6	00:00:06	0.1247	0.1240	16.5333	1.4169
7	00:00:12	0.1252	0.1245	16.6000	1.4150
8	00:00:15	0.1254	0.1247	16.6267	1.4142
9	00:00:30	0.1260	0.1253	16.7067	1.4119
10	00:01:00	0.1270	0.1263	16.8400	1.4080
11	00:02:00	0.1286	0.1279	17.0533	1.4019
12	00:04:00	0.1310	0.1303	17.3733	1.3926
13	00:05:00	0.1320	0.1313	17.5067	1.3887
14	00:08:00	0.1347	0.1340	17.8667	1.3783
15	00:10:00	0.1362	0.1355	18.0667	1.3725
16	00:15:01	0.1396	0.1389	18.5200	1.3594
17	00:20:01	0.1423	0.1416	18.8800	1.3490
18	00:40:03	0.1509	0.1502	20.0267	1.3158
19	01:00:04	0.1568	0.1561	20.8133	1.2930
20	01:30:07	0.1632	0.1625	21.6667	1.2683
21	02:00:09	0.1677	0.1670	22.2667	1.2509
22	02:30:11	0.1718	0.1711	22.8133	1.2351
23	03:00:14	0.1746	0.1739	23.1867	1.2243
24	03:30:16	0.1767	0.1760	23.4667	1.2162
25	04:00:18	0.1783	0.1776	23.6800	1.2100
26	04:30:20	0.1796	0.1789	23.8533	1.2050
27	05:00:23	0.1810	0.1803	24.0400	1.1995
28	05:30:25	0.1822	0.1815	24.2000	1.1949
29	06:00:27	0.1830	0.1823	24.3067	1.1918
30	06:30:30	0.1837	0.1830	24.4000	1.1891
31	07:00:32	0.1843	0.1836	24.4800	1.1868
32	07:30:34	0.1848	0.1841	24.5467	1.1849
33	08:00:36	0.1854	0.1847	24.6267	1.1826
34	08:30:39	0.1857	0.1850	24.6667	1.1814
35	09:00:41	0.1862	0.1855	24.7333	1.1795
36	09:30:43	0.1864	0.1857	24.7600	1.1787
37	10:00:46	0.1868	0.1861	24.8133	1.1772
38	10:30:48	0.1871	0.1864	24.8533	1.1760
39	11:00:50	0.1873	0.1866	24.8800	1.1752
40	11:30:52	0.1876	0.1869	24.9200	1.1741
41	12:00:55	0.1878	0.1871	24.9467	1.1733
42	12:30:57	0.1880	0.1873	24.9733	1.1725
43	13:00:59	0.1882	0.1875	25.0000	1.1717
44	13:31:02	0.1884	0.1877	25.0267	1.1710
45	14:01:04	0.1886	0.1879	25.0533	1.1702
46	14:31:06	0.1887	0.1880	25.0667	1.1698
47	15:01:08	0.1888	0.1881	25.0800	1.1694
48	15:31:11	0.1890	0.1883	25.1067	1.1687
49	16:01:13	0.1892	0.1885	25.1333	1.1679
50	16:31:15	0.1893	0.1886	25.1467	1.1675
51	17:01:18	0.1895	0.1888	25.1733	1.1667
52	17:31:20	0.1895	0.1888	25.1733	1.1667
53	18:01:22	0.1896	0.1889	25.1867	1.1663
54	18:31:25	0.1898	0.1891	25.2133	1.1656
55	19:01:27	0.1899	0.1892	25.2267	1.1652
56	19:31:29	0.1901	0.1894	25.2533	1.1644
57	20:01:31	0.1902	0.1895	25.2667	1.1640
58	20:31:34	0.1903	0.1896	25.2800	1.1636
59	21:01:36	0.1904	0.1897	25.2933	1.1633
60	21:31:38	0.1904	0.1897	25.2933	1.1633
61	22:01:41	0.1905	0.1898	25.3067	1.1629
62	22:31:43	0.1907	0.1900	25.3333	1.1621
63	23:01:45	0.1908	0.1901	25.3467	1.1617
64	23:31:47	0.1909	0.1902	25.3600	1.1613
65	24:01:50	0.1909	0.1902	25.3600	1.1613
66	24:31:52	0.1910	0.1903	25.3733	1.1609
67	25:01:54	0.1910	0.1903	25.3733	1.1609
68	25:31:57	0.1911	0.1904	25.3867	1.1606
69	26:01:59	0.1912	0.1905	25.4000	1.1602
70	26:31:05	0.1913	0.1906	25.4133	1.1598

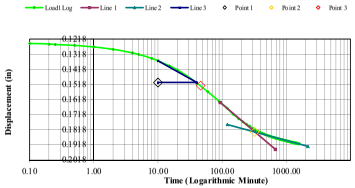
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

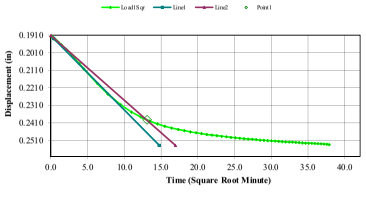
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1913	0.1906	25.4133	1.1598
1	00:00:01	0.1916	0.1909	25.4533	1.1586
2	00:00:02	0.1920	0.1913	25.5067	1.1571
3	00:00:03	0.1922	0.1915	25.5333	1.1563
4	00:00:04	0.1923	0.1916	25.5467	1.1559
5	00:00:05	0.1924	0.1917	25.5600	1.1555
6	00:00:06	0.1926	0.1919	25.5867	1.1548
7	00:00:12	0.1930	0.1923	25.6400	1.1532
8	00:00:15	0.1932	0.1925	25.6667	1.1524
9	00:00:30	0.1938	0.1931	25.7467	1.1501
10	00:01:00	0.1949	0.1942	25.8933	1.1459
11	00:02:00	0.1964	0.1957	26.0933	1.1401
12	00:04:01	0.1988	0.1981	26.4133	1.1308
13	00:05:01	0.1998	0.1991	26.5467	1.1270
14	00:08:01	0.2023	0.2016	26.8800	1.1173
15	00:10:01	0.2039	0.2032	27.0933	1.1111
16	00:15:01	0.2072	0.2065	27.5333	1.0984
17	00:20:02	0.2101	0.2094	27.9200	1.0872
18	00:40:03	0.2185	0.2178	29.0400	1.0548
19	01:00:05	0.2245	0.2238	29.8400	1.0316
20	01:30:07	0.2306	0.2299	30.6533	1.0080
21	02:00:09	0.2348	0.2341	31.2133	0.9918
22	02:30:12	0.2376	0.2369	31.5867	0.9810
23	03:00:14	0.2399	0.2392	31.8933	0.9721
24	03:30:16	0.2415	0.2408	32.1067	0.9660
25	04:00:19	0.2429	0.2422	32.2933	0.9606
26	04:30:21	0.2439	0.2432	32.4267	0.9567
27	05:00:23	0.2447	0.2440	32.5333	0.9536
28	05:30:25	0.2454	0.2447	32.6267	0.9509
29	06:00:28	0.2461	0.2454	32.7200	0.9482
30	06:30:30	0.2466	0.2459	32.7867	0.9463
31	07:00:32	0.2471	0.2464	32.8533	0.9443
32	07:30:34	0.2476	0.2469	32.9200	0.9424
33	08:00:37	0.2479	0.2472	32.9600	0.9413
34	08:30:39	0.2483	0.2476	33.0133	0.9397
35	09:00:41	0.2486	0.2479	33.0533	0.9386
36	09:30:44	0.2489	0.2482	33.0933	0.9374
37	10:00:46	0.2493	0.2486	33.1467	0.9358
38	10:30:48	0.2495	0.2488	33.1733	0.9351
39	11:00:50	0.2497	0.2490	33.2000	0.9343
40	11:30:53	0.2500	0.2493	33.2400	0.9331
41	12:00:55	0.2502	0.2495	33.2667	0.9324
42	12:30:57	0.2503	0.2496	33.2800	0.9320
43	13:00:59	0.2505	0.2498	33.3067	0.9312
44	13:31:02	0.2508	0.2501	33.3467	0.9301
45	14:01:04	0.2509	0.2502	33.3600	0.9297
46	14:31:06	0.2511	0.2504	33.3867	0.9289
47	15:01:09	0.2512	0.2505	33.4000	0.9285
48	15:31:11	0.2513	0.2506	33.4133	0.9281
49	16:01:13	0.2515	0.2508	33.4400	0.9274
50	16:31:15	0.2517	0.2510	33.4667	0.9266
51	17:01:18	0.2518	0.2511	33.4800	0.9262
52	17:31:20	0.2519	0.2512	33.4933	0.9258
53	18:01:22	0.2519	0.2512	33.4933	0.9258
54	18:31:25	0.2521	0.2514	33.5200	0.9250
55	19:01:27	0.2522	0.2515	33.5333	0.9247
56	19:31:29	0.2524	0.2517	33.5600	0.9239
57	20:01:31	0.2525	0.2518	33.5733	0.9235
58	20:31:34	0.2526	0.2519	33.5867	0.9231
59	21:01:36	0.2526	0.2519	33.5867	0.9231
60	21:31:38	0.2527	0.2520	33.6000	0.9227
61	22:01:41	0.2528	0.2521	33.6133	0.9223
62	22:31:43	0.2529	0.2522	33.6267	0.9220
63	23:01:45	0.2530	0.2523	33.6400	0.9216
64	23:31:47	0.2531	0.2524	33.6533	0.9212
65	23:54:50	0.2534	0.2527	33.6933	0.9200

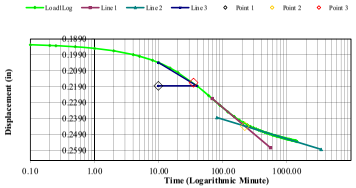
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

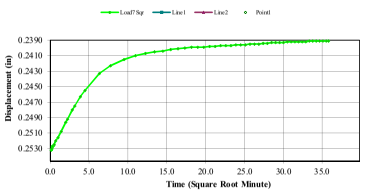
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

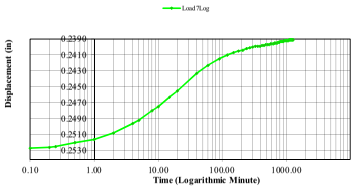
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2534	0.2527	33.6933	0.9200
1	00:00:01	0.2532	0.2525	33.6667	0.9208
2	00:00:02	0.2531	0.2524	33.6533	0.9212
3	00:00:03	0.2530	0.2523	33.6400	0.9216
4	00:00:04	0.2528	0.2521	33.6133	0.9223
5	00:00:05	0.2527	0.2520	33.6000	0.9227
6	00:00:06	0.2527	0.2520	33.6000	0.9227
7	00:00:12	0.2526	0.2519	33.5867	0.9231
8	00:00:15	0.2525	0.2518	33.5733	0.9235
9	00:00:30	0.2520	0.2513	33.5067	0.9254
10	00:01:00	0.2516	0.2509	33.4533	0.9270
11	00:02:00	0.2508	0.2501	33.3467	0.9301
12	00:04:00	0.2496	0.2489	33.1867	0.9347
13	00:05:00	0.2492	0.2485	33.1333	0.9362
14	00:08:01	0.2480	0.2473	32.9733	0.9409
15	00:10:01	0.2475	0.2468	32.9067	0.9428
16	00:15:01	0.2463	0.2456	32.7467	0.9474
17	00:20:01	0.2455	0.2448	32.6400	0.9505
18	00:40:03	0.2433	0.2426	32.3467	0.9590
19	01:00:04	0.2423	0.2416	32.2133	0.9629
20	01:30:07	0.2415	0.2408	32.1067	0.9660
21	02:00:09	0.2410	0.2403	32.0400	0.9679
22	02:30:11	0.2407	0.2400	32.0000	0.9691
23	03:00:14	0.2405	0.2398	31.9733	0.9698
24	03:30:16	0.2404	0.2397	31.9600	0.9702
25	04:00:18	0.2402	0.2395	31.9333	0.9710
26	04:30:20	0.2401	0.2394	31.9200	0.9714
27	05:00:23	0.2400	0.2393	31.9067	0.9718
28	05:30:25	0.2399	0.2392	31.8933	0.9721
29	06:00:27	0.2399	0.2392	31.8933	0.9721
30	06:30:29	0.2399	0.2392	31.8933	0.9721
31	07:00:32	0.2398	0.2391	31.8800	0.9725
32	07:30:34	0.2398	0.2391	31.8800	0.9725
33	08:00:36	0.2397	0.2390	31.8667	0.9729
34	08:30:39	0.2397	0.2390	31.8667	0.9729
35	09:00:41	0.2397	0.2390	31.8667	0.9729
36	09:30:43	0.2396	0.2389	31.8533	0.9733
37	10:00:45	0.2396	0.2389	31.8533	0.9733
38	10:30:48	0.2396	0.2389	31.8533	0.9733
39	11:00:50	0.2395	0.2388	31.8400	0.9737
40	11:30:52	0.2395	0.2388	31.8400	0.9737
41	12:00:55	0.2395	0.2388	31.8400	0.9737
42	12:30:57	0.2394	0.2387	31.8267	0.9741
43	13:00:59	0.2394	0.2387	31.8267	0.9741
44	13:31:01	0.2393	0.2386	31.8133	0.9745
45	14:01:04	0.2393	0.2386	31.8133	0.9745
46	14:31:06	0.2393	0.2386	31.8133	0.9745
47	15:01:08	0.2393	0.2386	31.8133	0.9745
48	15:31:11	0.2392	0.2385	31.8000	0.9748
49	16:01:13	0.2392	0.2385	31.8000	0.9748
50	16:31:15	0.2392	0.2385	31.8000	0.9748
51	17:01:17	0.2392	0.2385	31.8000	0.9748
52	17:31:20	0.2392	0.2385	31.8000	0.9748
53	18:01:22	0.2392	0.2385	31.8000	0.9748
54	18:31:24	0.2391	0.2384	31.7867	0.9752
55	19:01:27	0.2391	0.2384	31.7867	0.9752
56	19:31:29	0.2391	0.2384	31.7867	0.9752
57	20:01:31	0.2391	0.2384	31.7867	0.9752
58	20:31:33	0.2391	0.2384	31.7867	0.9752
59	21:01:36	0.2391	0.2384	31.7867	0.9752
60	21:22:11	0.2391	0.2384	31.7867	0.9752

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

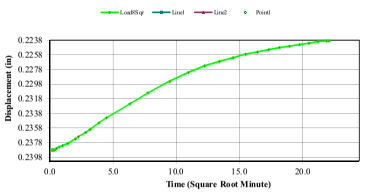
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

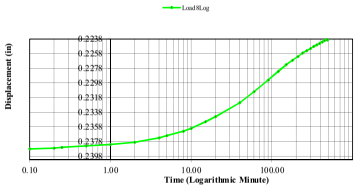
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2391	0.2384	31.7867	0.9752
1	00:00:01	0.2388	0.2381	31.7467	0.9764
2	00:00:02	0.2388	0.2381	31.7467	0.9764
3	00:00:03	0.2388	0.2381	31.7467	0.9764
4	00:00:04	0.2388	0.2381	31.7467	0.9764
5	00:00:05	0.2388	0.2381	31.7467	0.9764
6	00:00:06	0.2388	0.2381	31.7467	0.9764
7	00:00:12	0.2387	0.2380	31.7333	0.9768
8	00:00:15	0.2386	0.2379	31.7200	0.9772
9	00:00:30	0.2384	0.2377	31.6933	0.9779
10	00:01:00	0.2382	0.2375	31.6667	0.9787
11	00:02:00	0.2379	0.2372	31.6267	0.9799
12	00:04:00	0.2373	0.2366	31.5467	0.9822
13	00:05:00	0.2370	0.2363	31.5067	0.9833
14	00:08:00	0.2364	0.2357	31.4267	0.9857
15	00:10:00	0.2360	0.2353	31.3733	0.9872
16	00:15:01	0.2351	0.2344	31.2533	0.9907
17	00:20:01	0.2344	0.2337	31.1600	0.9934
18	00:40:03	0.2325	0.2318	30.9067	1.0007
19	01:00:04	0.2310	0.2303	30.7067	1.0065
20	01:30:07	0.2294	0.2287	30.4933	1.0127
21	02:00:09	0.2282	0.2275	30.3333	1.0173
22	02:30:11	0.2273	0.2266	30.2133	1.0208
23	03:00:13	0.2267	0.2260	30.1333	1.0231
24	03:30:16	0.2262	0.2255	30.0667	1.0250
25	04:00:18	0.2257	0.2250	30.0000	1.0270
26	04:30:20	0.2254	0.2247	29.9600	1.0281
27	05:00:22	0.2251	0.2244	29.9200	1.0293
28	05:30:25	0.2248	0.2241	29.8800	1.0304
29	06:00:27	0.2246	0.2239	29.8533	1.0312
30	06:30:29	0.2244	0.2237	29.8267	1.0320
31	07:00:32	0.2242	0.2235	29.8000	1.0328
32	07:30:34	0.2240	0.2233	29.7733	1.0335
33	08:00:36	0.2239	0.2232	29.7600	1.0339
34	08:08:21	0.2239	0.2232	29.7600	1.0339

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

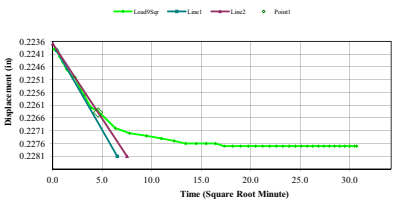
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2239	0.2232	29.7600	1.0339
1	00:00:01	0.2239	0.2232	29.7600	1.0339
2	00:00:02	0.2239	0.2232	29.7600	1.0339
3	00:00:03	0.2239	0.2232	29.7600	1.0339
4	00:00:04	0.2239	0.2232	29.7600	1.0339
5	00:00:05	0.2239	0.2232	29.7600	1.0339
6	00:00:06	0.2239	0.2232	29.7600	1.0339
7	00:00:12	0.2240	0.2233	29.7733	1.0335
8	00:00:15	0.2240	0.2233	29.7733	1.0335
9	00:00:30	0.2242	0.2235	29.8000	1.0328
10	00:01:00	0.2244	0.2237	29.8267	1.0320
11	00:02:00	0.2247	0.2240	29.8667	1.0308
12	00:04:00	0.2250	0.2243	29.9067	1.0297
13	00:05:00	0.2250	0.2243	29.9067	1.0297
14	00:08:00	0.2255	0.2248	29.9733	1.0277
15	00:10:00	0.2257	0.2250	30.0000	1.0270
16	00:15:00	0.2262	0.2255	30.0667	1.0250
17	00:20:00	0.2263	0.2256	30.0800	1.0247
18	00:40:00	0.2270	0.2263	30.1733	1.0219
19	01:00:00	0.2272	0.2265	30.2000	1.0212
20	01:30:00	0.2273	0.2266	30.2133	1.0208
21	02:00:00	0.2274	0.2267	30.2267	1.0204
22	02:30:00	0.2275	0.2268	30.2400	1.0200
23	03:00:00	0.2276	0.2269	30.2533	1.0196
24	03:30:00	0.2276	0.2269	30.2533	1.0196
25	04:00:00	0.2276	0.2269	30.2533	1.0196
26	04:30:00	0.2276	0.2269	30.2533	1.0196
27	05:00:00	0.2277	0.2270	30.2667	1.0192
28	05:30:01	0.2277	0.2270	30.2667	1.0192
29	06:00:01	0.2277	0.2270	30.2667	1.0192
30	06:30:01	0.2277	0.2270	30.2667	1.0192
31	07:00:01	0.2277	0.2270	30.2667	1.0192
32	07:30:01	0.2277	0.2270	30.2667	1.0192
33	08:00:01	0.2277	0.2270	30.2667	1.0192
34	08:30:01	0.2277	0.2270	30.2667	1.0192
35	09:00:00	0.2277	0.2270	30.2667	1.0192
36	09:29:59	0.2277	0.2270	30.2667	1.0192
37	09:59:59	0.2277	0.2270	30.2667	1.0192
38	10:29:58	0.2277	0.2270	30.2667	1.0192
39	10:59:57	0.2277	0.2270	30.2667	1.0192
40	11:29:57	0.2277	0.2270	30.2667	1.0192
41	11:59:57	0.2277	0.2270	30.2667	1.0192
42	12:29:57	0.2277	0.2270	30.2667	1.0192
43	12:59:57	0.2277	0.2270	30.2667	1.0192
44	13:29:57	0.2277	0.2270	30.2667	1.0192
45	13:59:56	0.2277	0.2270	30.2667	1.0192
46	14:29:55	0.2277	0.2270	30.2667	1.0192
47	14:59:55	0.2277	0.2270	30.2667	1.0192
48	15:29:54	0.2277	0.2270	30.2667	1.0192
49	15:42:46	0.2277	0.2270	30.2667	1.0192

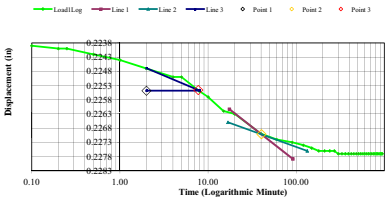
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

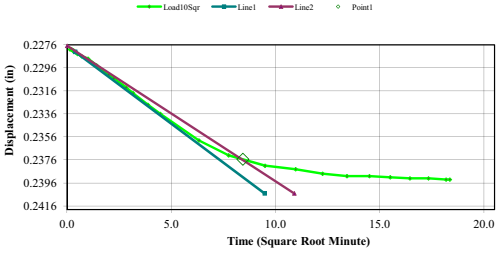
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2277	0.2270	30.2667	1.0192
1	00:00:01	0.2280	0.2273	30.3067	1.0181
2	00:00:02	0.2280	0.2273	30.3067	1.0181
3	00:00:03	0.2280	0.2273	30.3067	1.0181
4	00:00:04	0.2281	0.2274	30.3200	1.0177
5	00:00:05	0.2281	0.2274	30.3200	1.0177
6	00:00:06	0.2281	0.2274	30.3200	1.0177
7	00:00:12	0.2283	0.2276	30.3467	1.0169
8	00:00:15	0.2284	0.2277	30.3600	1.0165
9	00:00:30	0.2286	0.2279	30.3867	1.0158
10	00:01:00	0.2288	0.2281	30.4133	1.0150
11	00:02:00	0.2294	0.2287	30.4933	1.0127
12	00:04:00	0.2302	0.2295	30.6000	1.0096
13	00:05:00	0.2305	0.2298	30.6400	1.0084
14	00:08:00	0.2313	0.2306	30.7467	1.0053
15	00:10:00	0.2318	0.2311	30.8133	1.0034
16	00:15:00	0.2328	0.2321	30.9467	0.9996
17	00:19:59	0.2336	0.2329	31.0533	0.9965
18	00:40:00	0.2359	0.2352	31.3600	0.9876
19	01:00:01	0.2372	0.2365	31.5333	0.9826
20	01:30:04	0.2381	0.2374	31.6533	0.9791
21	02:00:06	0.2384	0.2377	31.6933	0.9779
22	02:30:08	0.2388	0.2381	31.7467	0.9764
23	03:00:11	0.2390	0.2383	31.7733	0.9756
24	03:30:13	0.2390	0.2383	31.7733	0.9756
25	04:00:15	0.2391	0.2384	31.7867	0.9752
26	04:30:17	0.2392	0.2385	31.8000	0.9748
27	05:00:20	0.2392	0.2385	31.8000	0.9748
28	05:30:22	0.2393	0.2386	31.8133	0.9745
29	05:36:58	0.2393	0.2386	31.8133	0.9745

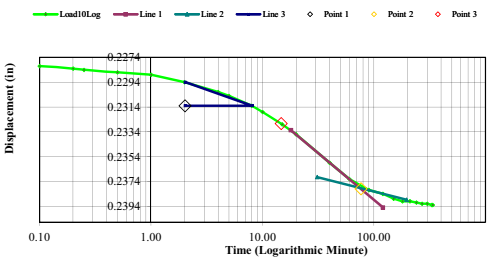
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

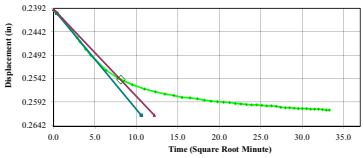
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

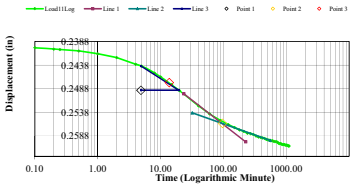
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2393	0.2386	31.8133	0.9745
1	00:00:01	0.2398	0.2391	31.8800	0.9725
2	00:00:02	0.2399	0.2392	31.8933	0.9721
3	00:00:03	0.2400	0.2393	31.9067	0.9718
4	00:00:04	0.2400	0.2393	31.9067	0.9718
5	00:00:05	0.2401	0.2394	31.9200	0.9714
6	00:00:06	0.2401	0.2394	31.9200	0.9714
7	00:00:12	0.2404	0.2397	31.9600	0.9702
8	00:00:15	0.2405	0.2398	31.9733	0.9698
9	00:00:30	0.2408	0.2401	32.0133	0.9687
10	00:01:00	0.2414	0.2407	32.0933	0.9664
11	00:02:00	0.2422	0.2415	32.2000	0.9633
12	00:04:00	0.2436	0.2429	32.3867	0.9579
13	00:05:00	0.2440	0.2433	32.4400	0.9563
14	00:08:01	0.2455	0.2448	32.6400	0.9505
15	00:10:01	0.2463	0.2456	32.7467	0.9474
16	00:15:01	0.2479	0.2472	32.9600	0.9413
17	00:20:02	0.2492	0.2485	33.1333	0.9362
18	00:40:03	0.2524	0.2517	33.5600	0.9239
19	01:00:05	0.2541	0.2534	33.7867	0.9173
20	01:30:07	0.2555	0.2548	33.9733	0.9119
21	02:00:09	0.2564	0.2557	34.0933	0.9084
22	02:30:12	0.2570	0.2563	34.1733	0.9061
23	03:00:14	0.2575	0.2568	34.2400	0.9042
24	03:30:16	0.2578	0.2571	34.2800	0.9030
25	04:00:18	0.2582	0.2575	34.3333	0.9015
26	04:30:21	0.2583	0.2576	34.3467	0.9011
27	05:00:23	0.2585	0.2578	34.3733	0.9003
28	05:30:25	0.2588	0.2581	34.4133	0.8992
29	06:00:28	0.2590	0.2583	34.4400	0.8984
30	06:30:30	0.2591	0.2584	34.4533	0.8980
31	07:00:32	0.2592	0.2585	34.4667	0.8976
32	07:30:35	0.2593	0.2586	34.4800	0.8972
33	08:00:37	0.2595	0.2588	34.5067	0.8965
34	08:30:39	0.2596	0.2589	34.5200	0.8961
35	09:00:41	0.2597	0.2590	34.5333	0.8957
36	09:30:44	0.2598	0.2591	34.5467	0.8953
37	10:00:46	0.2598	0.2591	34.5467	0.8953
38	10:30:48	0.2599	0.2592	34.5600	0.8949
39	11:00:50	0.2600	0.2593	34.5733	0.8945
40	11:30:53	0.2600	0.2593	34.5733	0.8945
41	12:00:55	0.2601	0.2594	34.5867	0.8942
42	12:30:57	0.2603	0.2596	34.6133	0.8934
43	13:01:00	0.2604	0.2597	34.6267	0.8930
44	13:31:02	0.2604	0.2597	34.6267	0.8930
45	14:01:04	0.2605	0.2598	34.6400	0.8926
46	14:31:06	0.2606	0.2599	34.6533	0.8922
47	15:01:09	0.2606	0.2599	34.6533	0.8922
48	15:31:11	0.2606	0.2599	34.6533	0.8922
49	16:01:13	0.2607	0.2600	34.6667	0.8918
50	16:31:16	0.2607	0.2600	34.6667	0.8918
51	17:01:18	0.2607	0.2600	34.6667	0.8918
52	17:31:20	0.2608	0.2601	34.6800	0.8914
53	18:01:23	0.2609	0.2602	34.6933	0.8911
54	18:25:57	0.2609	0.2602	34.6933	0.8911

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

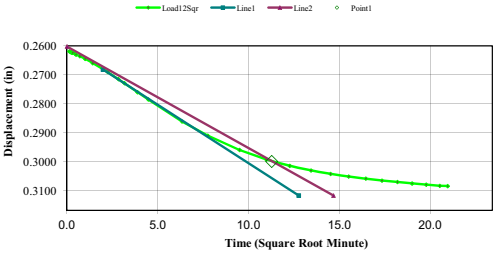
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

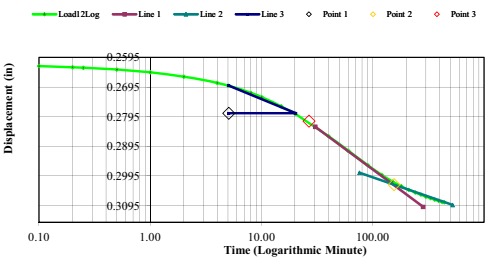
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2609	0.2602	34.6933	0.8911
1	00:00:01	0.2619	0.2612	34.8267	0.8872
2	00:00:02	0.2621	0.2614	34.8533	0.8864
3	00:00:03	0.2622	0.2615	34.8667	0.8860
4	00:00:04	0.2623	0.2616	34.8800	0.8857
5	00:00:05	0.2623	0.2616	34.8800	0.8857
6	00:00:06	0.2624	0.2617	34.8933	0.8853
7	00:00:12	0.2628	0.2621	34.9467	0.8837
8	00:00:15	0.2630	0.2623	34.9733	0.8830
9	00:00:30	0.2636	0.2629	35.0533	0.8806
10	00:01:00	0.2645	0.2638	35.1733	0.8772
11	00:02:00	0.2660	0.2653	35.3733	0.8714
12	00:04:00	0.2681	0.2674	35.6533	0.8633
13	00:05:01	0.2690	0.2683	35.7733	0.8598
14	00:08:01	0.2715	0.2708	36.1067	0.8501
15	00:10:01	0.2729	0.2722	36.2933	0.8447
16	00:15:01	0.2760	0.2753	36.7067	0.8328
17	00:20:02	0.2785	0.2778	37.0400	0.8231
18	00:40:03	0.2861	0.2854	38.0533	0.7938
19	01:00:05	0.2910	0.2903	38.7067	0.7749
20	01:30:07	0.2959	0.2952	39.3600	0.7559
21	02:00:09	0.2992	0.2985	39.8000	0.7432
22	02:30:12	0.3014	0.3007	40.0933	0.7347
23	03:00:14	0.3030	0.3023	40.3067	0.7285
24	03:30:16	0.3042	0.3035	40.4667	0.7239
25	04:00:18	0.3051	0.3044	40.5867	0.7204
26	04:30:21	0.3058	0.3051	40.6800	0.7177
27	05:00:23	0.3065	0.3058	40.7733	0.7150
28	05:30:25	0.3070	0.3063	40.8400	0.7131
29	06:00:28	0.3075	0.3068	40.9067	0.7111
30	06:30:30	0.3079	0.3072	40.9600	0.7096
31	07:00:32	0.3083	0.3076	41.0133	0.7081
32	07:18:42	0.3084	0.3077	41.0267	0.7077

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

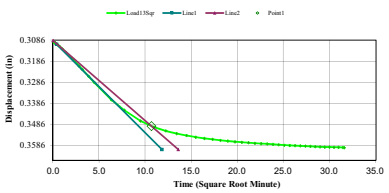
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

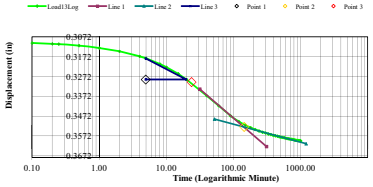
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3084	0.3077	41.0267	0.7077
1	00:00:01	0.3097	0.3090	41.2000	0.7027
2	00:00:02	0.3098	0.3091	41.2133	0.7023
3	00:00:03	0.3099	0.3092	41.2267	0.7019
4	00:00:04	0.3101	0.3094	41.2533	0.7011
5	00:00:05	0.3102	0.3095	41.2667	0.7007
6	00:00:06	0.3103	0.3096	41.2800	0.7003
7	00:00:12	0.3107	0.3100	41.3333	0.6988
8	00:00:15	0.3108	0.3101	41.3467	0.6984
9	00:00:30	0.3116	0.3109	41.4533	0.6953
10	00:01:00	0.3128	0.3121	41.6133	0.6907
11	00:02:00	0.3145	0.3138	41.8400	0.6841
12	00:04:00	0.3170	0.3163	42.1733	0.6745
13	00:05:00	0.3180	0.3173	42.3067	0.6706
14	00:08:00	0.3209	0.3202	42.6933	0.6594
15	00:10:01	0.3225	0.3218	42.9067	0.6532
16	00:15:01	0.3258	0.3251	43.3467	0.6405
17	00:20:01	0.3287	0.3280	43.7333	0.6293
18	00:40:03	0.3369	0.3362	44.8267	0.5976
19	01:00:04	0.3419	0.3412	45.4933	0.5783
20	01:30:07	0.3470	0.3463	46.1733	0.5586
21	02:00:09	0.3499	0.3492	46.5600	0.5474
22	02:30:11	0.3517	0.3510	46.8000	0.5405
23	03:00:13	0.3530	0.3523	46.9733	0.5355
24	03:30:16	0.3539	0.3532	47.0933	0.5320
25	04:00:18	0.3547	0.3540	47.2000	0.5289
26	04:30:20	0.3553	0.3546	47.2800	0.5266
27	05:00:22	0.3557	0.3550	47.3333	0.5251
28	05:30:25	0.3562	0.3555	47.4000	0.5231
29	06:00:27	0.3565	0.3558	47.4400	0.5220
30	06:30:29	0.3569	0.3562	47.4933	0.5204
31	07:00:31	0.3571	0.3564	47.5200	0.5196
32	07:30:34	0.3573	0.3566	47.5467	0.5189
33	08:00:36	0.3576	0.3569	47.5867	0.5177
34	08:30:38	0.3578	0.3571	47.6133	0.5169
35	09:00:41	0.3579	0.3572	47.6267	0.5166
36	09:30:43	0.3581	0.3574	47.6533	0.5158
37	10:00:45	0.3583	0.3576	47.6800	0.5150
38	10:30:47	0.3585	0.3578	47.7067	0.5142
39	11:00:50	0.3586	0.3579	47.7200	0.5139
40	11:30:52	0.3587	0.3580	47.7333	0.5135
41	12:00:54	0.3588	0.3581	47.7467	0.5131
42	12:30:57	0.3589	0.3582	47.7600	0.5127
43	13:00:59	0.3590	0.3583	47.7733	0.5123
44	13:31:01	0.3592	0.3585	47.8000	0.5115
45	14:01:04	0.3593	0.3586	47.8133	0.5112
46	14:31:06	0.3594	0.3587	47.8267	0.5108
47	15:01:08	0.3594	0.3587	47.8267	0.5108
48	15:31:10	0.3595	0.3588	47.8400	0.5104
49	16:01:13	0.3595	0.3588	47.8400	0.5104
50	16:31:15	0.3596	0.3589	47.8533	0.5100
51	16:40:32	0.3597	0.3590	47.8667	0.5096

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 2011
Test Number:

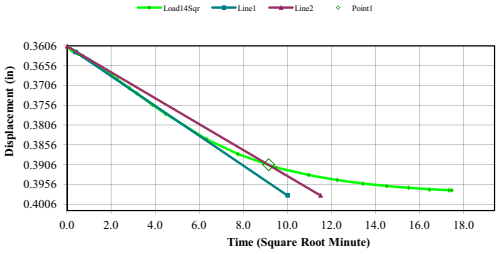
Sample Number:
Boring Number: 3
Depth: 22 - 24 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

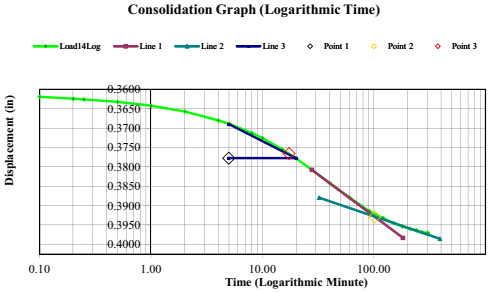
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3597	0.3590	47.8667	0.5096
1	00:00:01	0.3612	0.3605	48.0667	0.5038
2	00:00:02	0.3615	0.3608	48.1067	0.5027
3	00:00:03	0.3618	0.3611	48.1467	0.5015
4	00:00:04	0.3618	0.3611	48.1467	0.5015
5	00:00:05	0.3619	0.3612	48.1600	0.5011
6	00:00:06	0.3619	0.3612	48.1600	0.5011
7	00:00:12	0.3624	0.3617	48.2267	0.4992
8	00:00:15	0.3626	0.3619	48.2533	0.4984
9	00:00:30	0.3632	0.3625	48.3333	0.4961
10	00:01:00	0.3642	0.3635	48.4667	0.4922
11	00:02:01	0.3657	0.3650	48.6667	0.4864
12	00:04:01	0.3680	0.3673	48.9733	0.4776
13	00:05:01	0.3689	0.3682	49.0933	0.4741
14	00:08:01	0.3713	0.3706	49.4133	0.4648
15	00:10:01	0.3726	0.3719	49.5867	0.4598
16	00:15:02	0.3755	0.3748	49.9733	0.4486
17	00:20:02	0.3778	0.3771	50.2800	0.4397
18	00:40:03	0.3842	0.3835	51.1333	0.4150
19	01:00:05	0.3879	0.3872	51.6267	0.4007
20	01:30:07	0.3914	0.3907	52.0933	0.3872
21	02:00:10	0.3932	0.3925	52.3333	0.3803
22	02:30:12	0.3945	0.3938	52.5067	0.3752
23	03:00:14	0.3954	0.3947	52.6267	0.3718
24	03:30:16	0.3960	0.3953	52.7067	0.3695
25	04:00:19	0.3964	0.3957	52.7600	0.3679
26	04:30:21	0.3969	0.3962	52.8267	0.3660
27	05:00:23	0.3971	0.3964	52.8533	0.3652
28	05:04:24	0.3971	0.3964	52.8533	0.3652

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



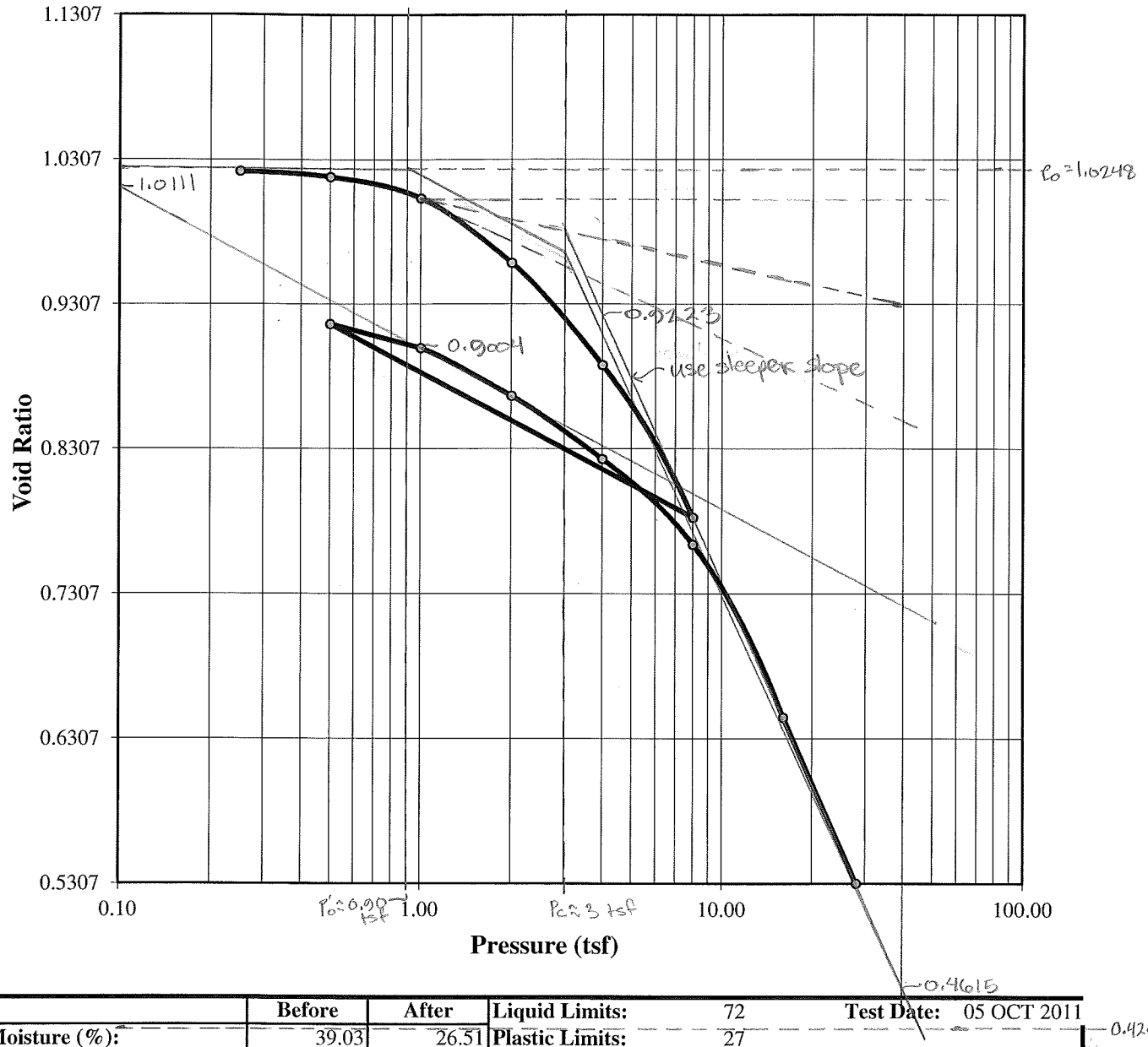
Consolidation Graph (Logarithmic Time)



107 ticks = 0.7
(60 ticks = 1")

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	39.03	26.51	**Liquid Limits:**	72	**Test Date:**	05 OCT 2011
Dry Density (pcf):	81.30	103.94	**Plastic Limits:**	27		
Saturation (%):	100.24	119.35	**Plasticity Index (%):**	45		
Void Ratio:	1.0248	0.5305	**Specific Gravity:**	2.642	Assumed	

Soil Description: Tan and light gray clay (CH)

Project Number: 16715-023-00 **Depth:** 37 - 39 feet

Sample Number: **Boring Number:** 4

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location:

Remarks: $\gamma = 81.3$ pcf $(1.3903) = 113.0$ pcf
$\gamma_{avg} = [70(2) + 110(6) + 2(121.6 + 123.8 + 128.2 + 128.2(2)) + 122.3(4) + 111.9(4) + 112.4(4) + 113(4)]/34$
$\gamma_{avg} = 115.5$ pcf
$\gamma'_{avg} = 53.1$ pcf

* Assumed based on nearby soil classifications

$P'_o = 53.1$ pcf $(34$ feet$) = 1,805.4$ psf
≈ 0.903 tsf

$OCR = 3/0.903 = 3.32$

$C_c = \frac{0.9223 - 0.46615}{\log(30/3)} = 0.4608$

$CR = \frac{0.4608}{2.6248} = 0.2276$

$C_r = \frac{1.0111 - 0.9004}{\log(1/0.1)} = 0.1107$

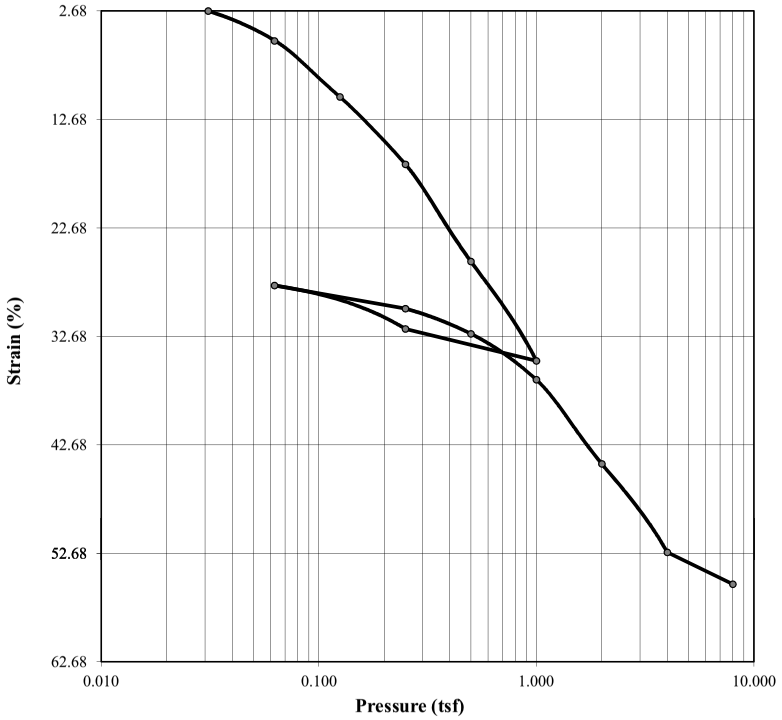
$RR = \frac{0.1107}{2.0248} = 0.0547$

C_v @ $P'_o \approx 870$ ft²/yr
$= 2.4$ ft²/day

C_v @ $P_c = 121.2$ ft²/yr
$= 0.33$ ft²/day

GeoEngineers

Consolidation Test
Test Results

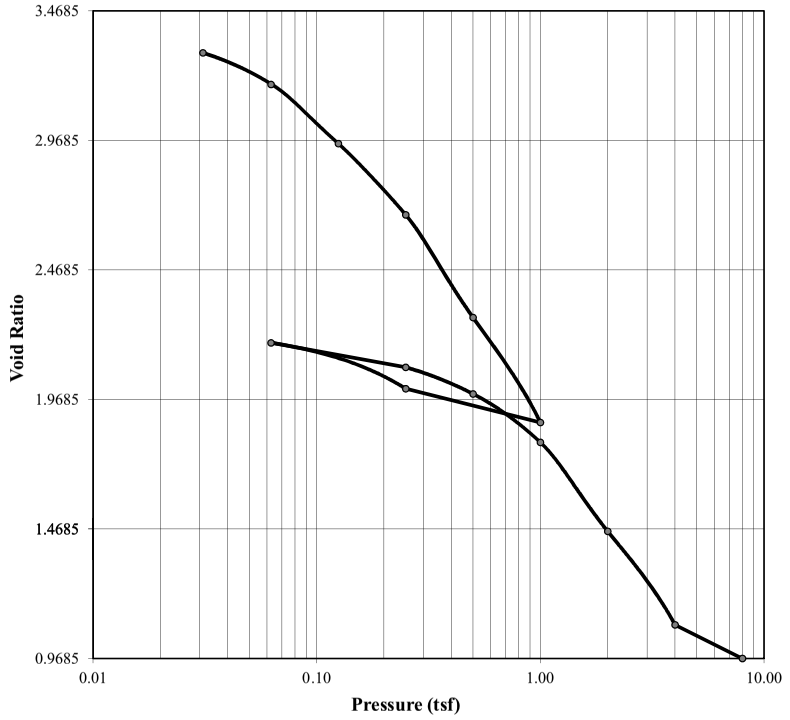


	Before	After				
			Liquid Limits:	150	Test Date:	19 Sept 11
Moisture (%):	156.84	59.29	Plastic Limits:	35		
Dry Density (pcf):	30.78	61.02	Plasticity Index (%):	115		
Saturation (%):	99.85	104.82				
Void Ratio:	3.4360	0.9731	Specific Gravity:	2.186	Measured	

Sample Description:	Organic clay (OH)		
Project Number:	16715-023-00	Depth: 10 - 12 feet	Remarks:
Sample Number:		Boring Number: 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results

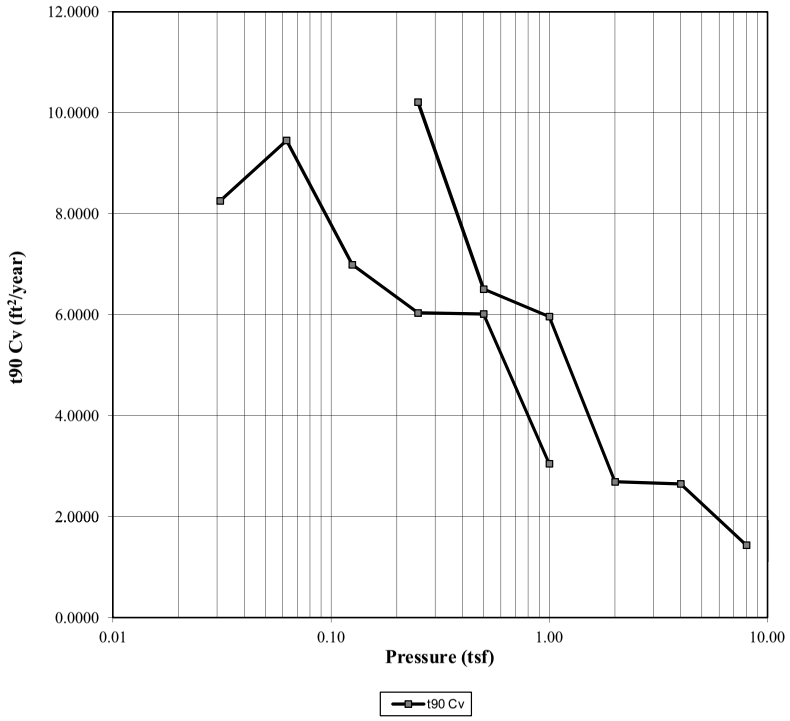


	Before	After				
			Liquid Limits:	150	Test Date:	19 Sept 11
Moisture (%):	156.84	59.29	Plastic Limits:	35		
Dry Density (pcf):	30.78	61.02	Plasticity Index (%):	115		
Saturation (%):	99.85	104.82				
Void Ratio:	3.4360	0.9731	Specific Gravity:	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	Depth: 10 - 12 feet	Remarks:
Sample Number:		Boring Number: 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results

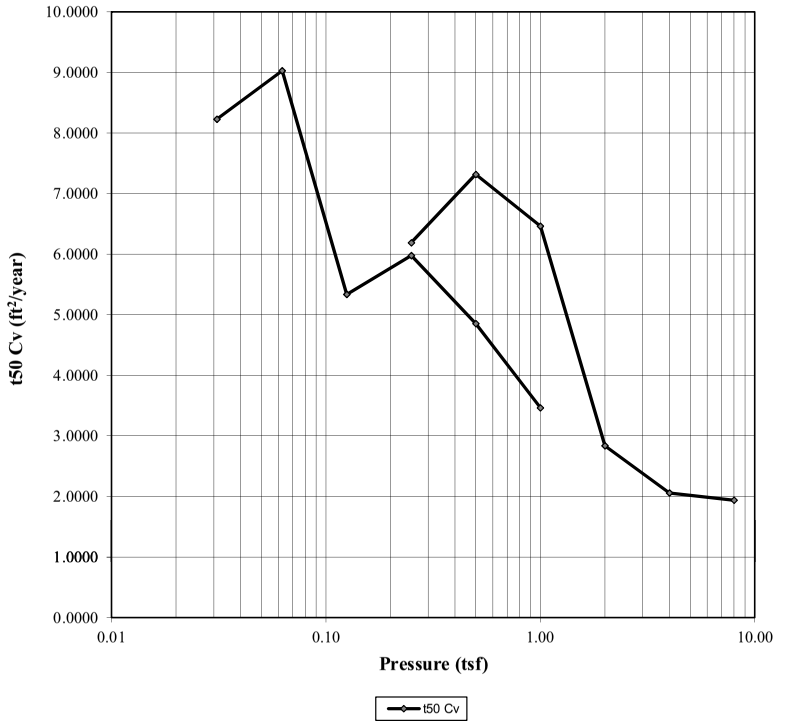


	Before	After				
Moisture (%):	156.84	59.29	**Liquid Limits:**	150	**Test Date:**	19 Sept 11
Dry Density (pcf):	30.78	61.02	**Plastic Limits:**	35		
Saturation (%):	99.85	104.82	**Plasticity Index (%):**	115		
Void Ratio:	3.4360	0.9731	**Specific Gravity:**	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 10 - 12 feet	**Remarks:**
Sample Number:		**Boring Number:** 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	156.84	59.29	**Liquid Limits:**	150	**Test Date:**	19 Sept 11
Dry Density (pcf):	30.78	61.02	**Plastic Limits:**	35		
Saturation (%):	99.85	104.82	**Plasticity Index (%):**	115		
Void Ratio:	3.4360	0.9731	**Specific Gravity:**	2.186	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 10 - 12 feet	**Remarks:**
Sample Number:		**Boring Number:** 2	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, Louisiana		

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number:

Sample Number: **Sample Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 19 Sept 11

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	0.7500	0.5805	0.00	3.4257	0.000	0.000	0.000	0.000
1	0.031	0.0201	0.7299	0.5604	2.68	3.3071	49.941	11.639	8.255	8.228
2	0.063	0.0408	0.7092	0.5397	5.44	3.1849	41.174	10.016	9.453	9.027
3	0.125	0.0795	0.6705	0.5010	10.60	2.9565	49.769	15.150	6.990	5.334
4	0.250	0.1261	0.6239	0.4544	16.81	2.6816	49.896	11.709	6.037	5.976
5	0.500	0.1933	0.5567	0.3872	25.77	2.2850	39.868	11.481	6.015	4.853
6	1.000	0.2620	0.4880	0.3185	34.93	1.8796	60.459	12.361	3.048	3.463
7	0.250	0.2399	0.5101	0.3406	31.99	2.0100	0.000	0.000	0.000	0.000
8	0.063	0.2099	0.5401	0.3706	27.99	2.1871	0.000	0.000	0.000	0.000
9	0.250	0.2259	0.5241	0.3546	30.12	2.0927	20.817	7.980	10.210	6.188
10	0.500	0.2433	0.5067	0.3372	32.44	1.9900	30.534	6.308	6.506	7.316
11	1.000	0.2750	0.4750	0.3055	36.67	1.8029	29.278	6.277	5.963	6.461
12	2.000	0.3332	0.4168	0.2473	44.43	1.4595	49.975	11.009	2.690	2.837
13	4.000	0.3944	0.3556	0.1861	52.59	1.0984	36.946	11.048	2.648	2.058
14	8.000	0.4164	0.3336	0.1641	55.52	0.9685	60.003	10.321	1.435	1.938

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11

Sample Number: **Sample Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 150.0000 **Initial Void Ratio:** 3.4360 **Initial Height (in):** 0.7500
Plastic Limit: 35.0000 **Plasticity Index (%):** 115.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.1860 **Weight of Ring (g):** 234.8800
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	142.64	67.24
Dry Soil + Container (g)	69.27	52.40
Weight of Container (g)	22.49	27.37
Moisture Content (%)	156.84	59.29
Void Ratio	3.4360	0.9731
Saturation (%)	99.85	104.82
Dry Density (pcf)	30.78	61.02

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

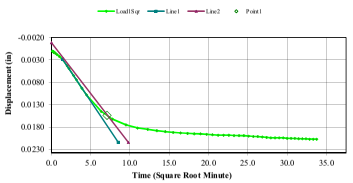
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

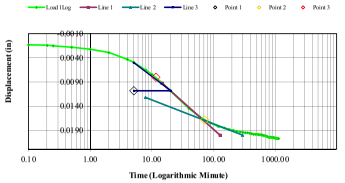
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0006	0.0000	0.0000	3.4360
1	00:00:01	0.0010	0.0004	0.0533	3.4336
2	00:00:02	0.0011	0.0005	0.0667	3.4330
3	00:00:03	0.0011	0.0005	0.0667	3.4330
4	00:00:04	0.0012	0.0006	0.0800	3.4325
5	00:00:05	0.0013	0.0007	0.0933	3.4319
6	00:00:06	0.0013	0.0007	0.0933	3.4319
7	00:00:12	0.0014	0.0008	0.1067	3.4313
8	00:00:15	0.0015	0.0009	0.1200	3.4307
9	00:00:30	0.0018	0.0012	0.1600	3.4289
10	00:01:00	0.0022	0.0016	0.2133	3.4265
11	00:02:00	0.0029	0.0023	0.3067	3.4224
12	00:04:00	0.0043	0.0037	0.4933	3.4141
13	00:05:00	0.0049	0.0043	0.5733	3.4106
14	00:08:00	0.0065	0.0059	0.7867	3.4011
15	00:10:00	0.0074	0.0068	0.9067	3.3958
16	00:15:00	0.0093	0.0087	1.1600	3.3845
17	00:20:00	0.0108	0.0102	1.3600	3.3757
18	00:40:00	0.0145	0.0139	1.8533	3.3538
19	01:00:00	0.0162	0.0156	2.0800	3.3437
20	01:29:59	0.0175	0.0169	2.2533	3.3360
21	01:59:59	0.0182	0.0176	2.3467	3.3319
22	02:29:58	0.0185	0.0179	2.3867	3.3301
23	02:59:58	0.0188	0.0182	2.4267	3.3284
24	03:29:58	0.0190	0.0184	2.4533	3.3272
25	03:59:58	0.0192	0.0186	2.4800	3.3260
26	04:29:58	0.0193	0.0187	2.4933	3.3254
27	04:59:57	0.0194	0.0188	2.5067	3.3248
28	05:29:57	0.0195	0.0189	2.5200	3.3242
29	05:59:56	0.0195	0.0189	2.5200	3.3242
30	06:29:56	0.0196	0.0190	2.5333	3.3236
31	06:59:55	0.0197	0.0191	2.5467	3.3230
32	07:29:55	0.0198	0.0192	2.5600	3.3224
33	07:59:54	0.0198	0.0192	2.5600	3.3224
34	08:29:53	0.0198	0.0192	2.5600	3.3224
35	08:59:52	0.0199	0.0193	2.5733	3.3219
36	09:29:52	0.0199	0.0193	2.5733	3.3219
37	09:59:51	0.0199	0.0193	2.5733	3.3219
38	10:29:50	0.0200	0.0194	2.5867	3.3213
39	10:59:50	0.0201	0.0195	2.6000	3.3207
40	11:29:49	0.0201	0.0195	2.6000	3.3207
41	11:59:48	0.0202	0.0196	2.6133	3.3201
42	12:29:47	0.0203	0.0197	2.6267	3.3195
43	12:59:47	0.0204	0.0198	2.6400	3.3189
44	13:29:46	0.0204	0.0198	2.6400	3.3189
45	13:59:45	0.0204	0.0198	2.6400	3.3189
46	14:29:45	0.0204	0.0198	2.6400	3.3189
47	14:59:44	0.0205	0.0199	2.6533	3.3183
48	15:29:43	0.0205	0.0199	2.6533	3.3183
49	15:59:43	0.0205	0.0199	2.6533	3.3183
50	16:29:42	0.0206	0.0200	2.6667	3.3177
51	16:59:42	0.0206	0.0200	2.6667	3.3177
52	17:29:42	0.0206	0.0200	2.6667	3.3177
53	17:59:42	0.0207	0.0201	2.6800	3.3171
54	18:29:41	0.0207	0.0201	2.6800	3.3171
55	18:59:41	0.0207	0.0201	2.6800	3.3171

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

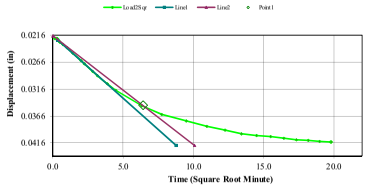
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

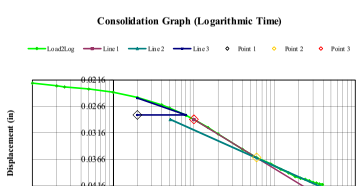
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0207	0.0201	2.6800	3.3171
1	00:00:01	0.0222	0.0216	2.8800	3.3082
2	00:00:02	0.0222	0.0216	2.8800	3.3082
3	00:00:03	0.0222	0.0216	2.8800	3.3082
4	00:00:04	0.0222	0.0216	2.8800	3.3082
5	00:00:05	0.0222	0.0216	2.8800	3.3082
6	00:00:06	0.0222	0.0216	2.8800	3.3082
7	00:00:12	0.0227	0.0221	2.9467	3.3053
8	00:00:15	0.0229	0.0223	2.9733	3.3041
9	00:00:30	0.0233	0.0227	3.0267	3.3017
10	00:01:00	0.0239	0.0233	3.1067	3.2982
11	00:02:00	0.0249	0.0243	3.2400	3.2923
12	00:04:00	0.0263	0.0257	3.4267	3.2840
13	00:05:00	0.0269	0.0263	3.5067	3.2804
14	00:08:00	0.0283	0.0277	3.6933	3.2722
15	00:10:00	0.0291	0.0285	3.8000	3.2674
16	00:14:59	0.0306	0.0300	4.0000	3.2586
17	00:19:59	0.0318	0.0312	4.1600	3.2515
18	00:39:59	0.0347	0.0341	4.5467	3.2343
19	00:59:58	0.0363	0.0357	4.7600	3.2249
20	01:29:58	0.0375	0.0369	4.9200	3.2178
21	01:59:57	0.0385	0.0379	5.0533	3.2118
22	02:29:56	0.0392	0.0386	5.1467	3.2077
23	02:59:56	0.0399	0.0393	5.2400	3.2036
24	03:29:57	0.0402	0.0396	5.2800	3.2018
25	03:59:57	0.0404	0.0398	5.3067	3.2006
26	04:29:57	0.0407	0.0401	5.3467	3.1988
27	04:59:57	0.0410	0.0404	5.3867	3.1971
28	05:29:57	0.0411	0.0405	5.4000	3.1965
29	05:59:56	0.0413	0.0407	5.4267	3.1953
30	06:29:55	0.0414	0.0408	5.4400	3.1947
31	06:32:20	0.0414	0.0408	5.4400	3.1947

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

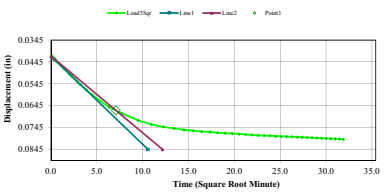
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

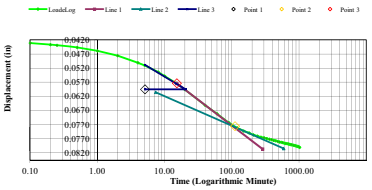
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0414	0.0408	5.4400	3.1947
1	00:00:01	0.0419	0.0413	5.5067	3.1917
2	00:00:02	0.0423	0.0417	5.5600	3.1894
3	00:00:03	0.0426	0.0420	5.6000	3.1876
4	00:00:04	0.0428	0.0422	5.6267	3.1864
5	00:00:05	0.0430	0.0424	5.6533	3.1852
6	00:00:06	0.0431	0.0425	5.6667	3.1846
7	00:00:12	0.0437	0.0431	5.7467	3.1811
8	00:00:15	0.0439	0.0433	5.7733	3.1799
9	00:00:30	0.0447	0.0441	5.8800	3.1752
10	00:01:00	0.0459	0.0453	6.0400	3.1681
11	00:02:00	0.0476	0.0470	6.2667	3.1580
12	00:04:00	0.0501	0.0495	6.6000	3.1432
13	00:05:00	0.0510	0.0504	6.7200	3.1379
14	00:08:00	0.0534	0.0528	7.0400	3.1237
15	00:10:00	0.0548	0.0542	7.2267	3.1154
16	00:15:00	0.0574	0.0568	7.5733	3.1001
17	00:19:59	0.0596	0.0590	7.8667	3.0870
18	00:39:59	0.0652	0.0646	8.6133	3.0539
19	00:59:59	0.0682	0.0676	9.0133	3.0362
20	01:29:59	0.0713	0.0707	9.4267	3.0178
21	01:59:59	0.0732	0.0726	9.6800	3.0066
22	02:29:59	0.0743	0.0737	9.8267	3.0001
23	02:59:58	0.0750	0.0744	9.9200	2.9960
24	03:29:58	0.0757	0.0751	10.0133	2.9918
25	03:59:57	0.0761	0.0755	10.0667	2.9894
26	04:29:58	0.0765	0.0759	10.1200	2.9871
27	04:59:58	0.0767	0.0761	10.1467	2.9859
28	05:29:58	0.0770	0.0764	10.1867	2.9841
29	05:59:57	0.0772	0.0766	10.2133	2.9829
30	06:29:56	0.0774	0.0768	10.2400	2.9818
31	06:59:55	0.0776	0.0770	10.2667	2.9806
32	07:29:55	0.0778	0.0772	10.2933	2.9794
33	07:59:56	0.0780	0.0774	10.3200	2.9782
34	08:29:56	0.0782	0.0776	10.3467	2.9770
35	08:59:55	0.0783	0.0777	10.3600	2.9764
36	09:29:55	0.0784	0.0778	10.3733	2.9758
37	09:59:54	0.0786	0.0780	10.4000	2.9747
38	10:29:53	0.0787	0.0781	10.4133	2.9741
39	10:59:53	0.0788	0.0782	10.4267	2.9735
40	11:29:53	0.0789	0.0783	10.4400	2.9729
41	11:59:53	0.0790	0.0784	10.4533	2.9723
42	12:29:54	0.0791	0.0785	10.4667	2.9717
43	12:59:53	0.0792	0.0786	10.4800	2.9711
44	13:29:53	0.0793	0.0787	10.4933	2.9705
45	13:59:52	0.0794	0.0788	10.5067	2.9699
46	14:29:51	0.0795	0.0789	10.5200	2.9693
47	14:59:51	0.0796	0.0790	10.5333	2.9687
48	15:29:50	0.0797	0.0791	10.5467	2.9682
49	15:59:50	0.0798	0.0792	10.5600	2.9676
50	16:29:51	0.0799	0.0793	10.5733	2.9670
51	16:56:09	0.0801	0.0795	10.6000	2.9658

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

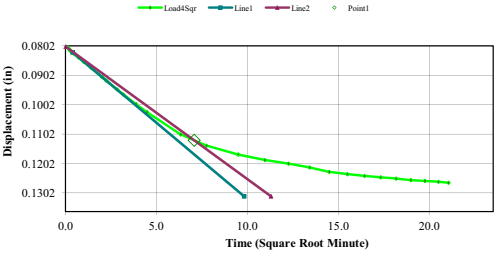
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

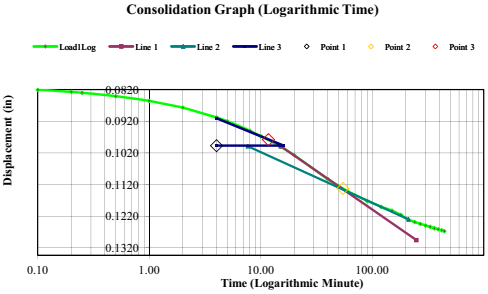
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0801	0.0795	10.6000	2.9658
1	00:00:01	0.0807	0.0801	10.6800	2.9622
2	00:00:02	0.0813	0.0807	10.7600	2.9587
3	00:00:03	0.0815	0.0809	10.7867	2.9575
4	00:00:04	0.0818	0.0812	10.8267	2.9557
5	00:00:05	0.0819	0.0813	10.8400	2.9551
6	00:00:06	0.0821	0.0815	10.8667	2.9540
7	00:00:12	0.0827	0.0821	10.9467	2.9504
8	00:00:15	0.0830	0.0824	10.9867	2.9486
9	00:00:30	0.0841	0.0835	11.1333	2.9421
10	00:01:00	0.0856	0.0850	11.3333	2.9333
11	00:02:00	0.0877	0.0871	11.6133	2.9208
12	00:04:00	0.0908	0.0902	12.0267	2.9025
13	00:05:00	0.0920	0.0914	12.1867	2.8954
14	00:08:00	0.0950	0.0944	12.5867	2.8777
15	00:10:00	0.0967	0.0961	12.8133	2.8676
16	00:15:00	0.1000	0.0994	13.2533	2.8481
17	00:19:59	0.1027	0.1021	13.6133	2.8321
18	00:39:59	0.1103	0.1097	14.6267	2.7872
19	00:59:59	0.1141	0.1135	15.1333	2.7647
20	01:29:58	0.1171	0.1165	15.5333	2.7469
21	01:59:58	0.1190	0.1184	15.7867	2.7357
22	02:29:58	0.1202	0.1196	15.9467	2.7286
23	02:59:58	0.1215	0.1209	16.1200	2.7209
24	03:29:57	0.1230	0.1224	16.3200	2.7120
25	03:59:57	0.1238	0.1232	16.4267	2.7073
26	04:29:56	0.1244	0.1238	16.5067	2.7038
27	04:59:56	0.1249	0.1243	16.5733	2.7008
28	05:29:57	0.1253	0.1247	16.6267	2.6984
29	05:59:56	0.1258	0.1252	16.6933	2.6955
30	06:29:55	0.1261	0.1255	16.7333	2.6937
31	06:59:55	0.1264	0.1258	16.7733	2.6919
32	07:22:46	0.1267	0.1261	16.8133	2.6902

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

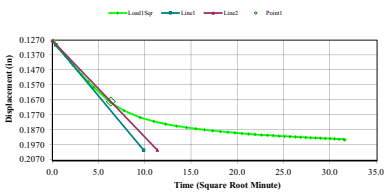
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1267	0.1261	16.8133	2.6902
1	00:00:01	0.1271	0.1265	16.8667	2.6878
2	00:00:02	0.1283	0.1277	17.0267	2.6807
3	00:00:03	0.1287	0.1281	17.0800	2.6783
4	00:00:04	0.1291	0.1285	17.1333	2.6760
5	00:00:05	0.1294	0.1288	17.1733	2.6742
6	00:00:06	0.1296	0.1290	17.2000	2.6730
7	00:00:12	0.1307	0.1301	17.3467	2.6665
8	00:00:15	0.1310	0.1304	17.3867	2.6647
9	00:00:30	0.1326	0.1320	17.6000	2.6553
10	00:01:00	0.1347	0.1341	17.8800	2.6428
11	00:02:00	0.1377	0.1371	18.2800	2.6251
12	00:04:00	0.1420	0.1414	18.8533	2.5997
13	00:05:00	0.1437	0.1431	19.0800	2.5896
14	00:08:00	0.1478	0.1472	19.6267	2.5654
15	00:09:59	0.1501	0.1495	19.9333	2.5518
16	00:14:59	0.1548	0.1542	20.5600	2.5240
17	00:19:59	0.1586	0.1580	21.0667	2.5015
18	00:39:59	0.1689	0.1683	22.4400	2.4406
19	00:59:58	0.1743	0.1737	23.1600	2.4086
20	01:29:58	0.1789	0.1783	23.7733	2.3814
21	01:59:58	0.1815	0.1809	24.1200	2.3660
22	02:29:58	0.1833	0.1827	24.3600	2.3554
23	02:59:57	0.1846	0.1840	24.5333	2.3477
24	03:29:57	0.1856	0.1850	24.6667	2.3418
25	03:59:57	0.1865	0.1859	24.7867	2.3365
26	04:29:56	0.1871	0.1865	24.8667	2.3329
27	04:59:57	0.1878	0.1872	24.9600	2.3288
28	05:29:56	0.1883	0.1877	25.0267	2.3258
29	05:59:56	0.1887	0.1881	25.0800	2.3235
30	06:29:56	0.1892	0.1886	25.1467	2.3205
31	06:59:55	0.1896	0.1890	25.2000	2.3181
32	07:29:55	0.1899	0.1893	25.2400	2.3164
33	07:59:54	0.1902	0.1896	25.2800	2.3146
34	08:29:55	0.1906	0.1900	25.3333	2.3122
35	08:59:54	0.1908	0.1902	25.3600	2.3110
36	09:29:54	0.1910	0.1904	25.3867	2.3099
37	09:59:53	0.1913	0.1907	25.4267	2.3081
38	10:29:53	0.1915	0.1909	25.4533	2.3069
39	10:59:53	0.1917	0.1911	25.4800	2.3057
40	11:29:52	0.1919	0.1913	25.5067	2.3045
41	11:59:53	0.1921	0.1915	25.5333	2.3033
42	12:29:52	0.1923	0.1917	25.5600	2.3022
43	12:59:52	0.1925	0.1919	25.5867	2.3010
44	13:29:51	0.1926	0.1920	25.6000	2.3004
45	13:59:52	0.1927	0.1921	25.6133	2.2998
46	14:29:51	0.1929	0.1923	25.6400	2.2986
47	14:59:50	0.1931	0.1925	25.6667	2.2974
48	15:29:50	0.1932	0.1926	25.6800	2.2968
49	15:59:50	0.1934	0.1928	25.7067	2.2957
50	16:29:50	0.1935	0.1929	25.7200	2.2951
51	16:39:13	0.1939	0.1933	25.7733	2.2927

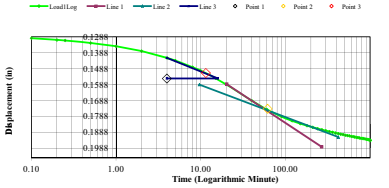
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

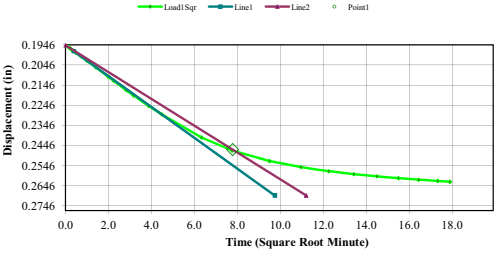
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1939	0.1933	25.7733	2.2927
1	00:00:01	0.1956	0.1950	26.0000	2.2826
2	00:00:02	0.1961	0.1955	26.0667	2.2797
3	00:00:03	0.1964	0.1958	26.1067	2.2779
4	00:00:04	0.1967	0.1961	26.1467	2.2761
5	00:00:05	0.1970	0.1964	26.1867	2.2744
6	00:00:06	0.1972	0.1966	26.2133	2.2732
7	00:00:12	0.1982	0.1976	26.3467	2.2673
8	00:00:15	0.1986	0.1980	26.4000	2.2649
9	00:00:30	0.2002	0.1996	26.6133	2.2554
10	00:01:00	0.2025	0.2019	26.9200	2.2418
11	00:02:00	0.2058	0.2052	27.3600	2.2223
12	00:04:00	0.2105	0.2099	27.9867	2.1945
13	00:05:00	0.2124	0.2118	28.2400	2.1833
14	00:08:00	0.2171	0.2165	28.8667	2.1555
15	00:10:00	0.2197	0.2191	29.2133	2.1401
16	00:15:00	0.2250	0.2244	29.9200	2.1088
17	00:20:00	0.2291	0.2285	30.4667	2.0845
18	00:40:00	0.2406	0.2400	32.0000	2.0165
19	01:00:00	0.2471	0.2465	32.8667	1.9780
20	01:29:59	0.2523	0.2517	33.5600	1.9473
21	01:59:59	0.2553	0.2547	33.9600	1.9295
22	02:29:59	0.2574	0.2568	34.2400	1.9171
23	02:59:59	0.2588	0.2582	34.4267	1.9088
24	03:29:58	0.2599	0.2593	34.5733	1.9023
25	03:59:59	0.2608	0.2602	34.6933	1.8970
26	04:29:58	0.2616	0.2610	34.8000	1.8923
27	04:59:58	0.2622	0.2616	34.8800	1.8887
28	05:19:48	0.2626	0.2620	34.9333	1.8864

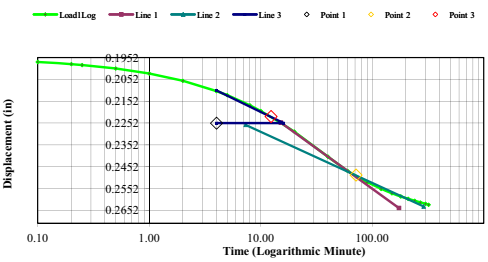
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

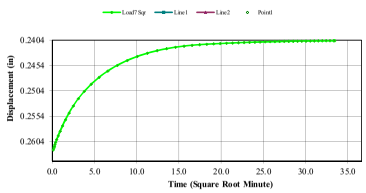
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2626	0.2620	34.9333	1.8864
1	00:00:01	0.2620	0.2614	34.8533	1.8899
2	00:00:02	0.2619	0.2613	34.8400	1.8905
3	00:00:03	0.2618	0.2612	34.8267	1.8911
4	00:00:04	0.2611	0.2605	34.7333	1.8952
5	00:00:05	0.2610	0.2604	34.7200	1.8958
6	00:00:06	0.2608	0.2602	34.6933	1.8970
7	00:00:12	0.2602	0.2596	34.6133	1.9006
8	00:00:15	0.2600	0.2594	34.5867	1.9017
9	00:00:30	0.2591	0.2585	34.4667	1.9071
10	00:01:00	0.2580	0.2574	34.3200	1.9136
11	00:02:00	0.2564	0.2558	34.1067	1.9230
12	00:04:00	0.2542	0.2536	33.8133	1.9360
13	00:05:00	0.2533	0.2527	33.6933	1.9414
14	00:08:00	0.2514	0.2508	33.4400	1.9526
15	00:10:00	0.2504	0.2498	33.3067	1.9585
16	00:15:00	0.2486	0.2480	33.0667	1.9692
17	00:20:00	0.2472	0.2466	32.8800	1.9774
18	00:39:59	0.2445	0.2439	32.5200	1.9934
19	00:59:59	0.2434	0.2428	32.3733	1.9999
20	01:29:59	0.2425	0.2419	32.2533	2.0052
21	01:59:58	0.2421	0.2415	32.2000	2.0076
22	02:29:59	0.2418	0.2412	32.1600	2.0094
23	02:59:58	0.2416	0.2410	32.1333	2.0106
24	03:29:58	0.2415	0.2409	32.1200	2.0112
25	03:59:58	0.2414	0.2408	32.1067	2.0118
26	04:29:57	0.2413	0.2407	32.0933	2.0123
27	04:59:57	0.2412	0.2406	32.0800	2.0129
28	05:29:57	0.2411	0.2405	32.0667	2.0135
29	05:59:56	0.2411	0.2405	32.0667	2.0135
30	06:29:56	0.2410	0.2404	32.0533	2.0141
31	06:59:56	0.2410	0.2404	32.0533	2.0141
32	07:29:55	0.2410	0.2404	32.0533	2.0141
33	07:59:55	0.2409	0.2403	32.0400	2.0147
34	08:29:55	0.2409	0.2403	32.0400	2.0147
35	08:59:54	0.2408	0.2402	32.0267	2.0153
36	09:29:54	0.2407	0.2401	32.0133	2.0159
37	09:59:54	0.2407	0.2401	32.0133	2.0159
38	10:29:53	0.2407	0.2401	32.0133	2.0159
39	10:59:53	0.2407	0.2401	32.0133	2.0159
40	11:29:53	0.2406	0.2400	32.0000	2.0165
41	11:59:53	0.2406	0.2400	32.0000	2.0165
42	12:29:52	0.2406	0.2400	32.0000	2.0165
43	12:59:52	0.2406	0.2400	32.0000	2.0165
44	13:29:52	0.2406	0.2400	32.0000	2.0165
45	13:59:51	0.2406	0.2400	32.0000	2.0165
46	14:29:52	0.2406	0.2400	32.0000	2.0165
47	14:59:51	0.2406	0.2400	32.0000	2.0165
48	15:29:50	0.2406	0.2400	32.0000	2.0165
49	15:59:51	0.2405	0.2399	31.9867	2.0171
50	16:29:51	0.2405	0.2399	31.9867	2.0171
51	16:59:50	0.2405	0.2399	31.9867	2.0171
52	17:29:49	0.2405	0.2399	31.9867	2.0171
53	17:59:50	0.2405	0.2399	31.9867	2.0171
54	18:29:49	0.2405	0.2399	31.9867	2.0171
55	18:38:01	0.2405	0.2399	31.9867	2.0171

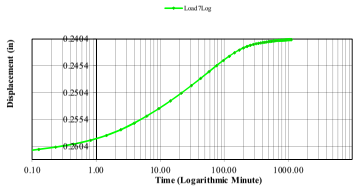
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

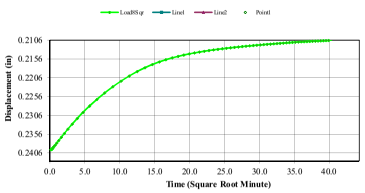
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2405	0.2399	31.9867	2.0171
1	00:00:01	0.2397	0.2391	31.8800	2.0218
2	00:00:02	0.2397	0.2391	31.8800	2.0218
3	00:00:03	0.2396	0.2390	31.8667	2.0224
4	00:00:04	0.2396	0.2390	31.8667	2.0224
5	00:00:05	0.2395	0.2389	31.8533	2.0230
6	00:00:06	0.2395	0.2389	31.8533	2.0230
7	00:00:12	0.2391	0.2385	31.8000	2.0254
8	00:00:15	0.2390	0.2384	31.7867	2.0259
9	00:00:30	0.2386	0.2380	31.7333	2.0283
10	00:01:00	0.2379	0.2373	31.6400	2.0325
11	00:02:00	0.2370	0.2364	31.5200	2.0378
12	00:04:00	0.2355	0.2349	31.3200	2.0466
13	00:05:00	0.2349	0.2343	31.2400	2.0502
14	00:08:00	0.2334	0.2328	31.0400	2.0591
15	00:10:00	0.2326	0.2320	30.9333	2.0638
16	00:15:00	0.2308	0.2302	30.6933	2.0744
17	00:20:00	0.2294	0.2288	30.5067	2.0827
18	00:40:01	0.2254	0.2248	29.9733	2.1064
19	01:00:03	0.2229	0.2223	29.6400	2.1212
20	01:30:05	0.2205	0.2199	29.3200	2.1354
21	02:00:07	0.2189	0.2183	29.1067	2.1448
22	02:30:10	0.2179	0.2173	28.9733	2.1507
23	03:00:12	0.2170	0.2164	28.8533	2.1561
24	03:30:14	0.2163	0.2157	28.7600	2.1602
25	04:00:17	0.2158	0.2152	28.6933	2.1632
26	04:30:19	0.2153	0.2147	28.6267	2.1661
27	05:00:21	0.2150	0.2144	28.5867	2.1679
28	05:30:23	0.2147	0.2141	28.5467	2.1697
29	06:00:26	0.2143	0.2137	28.4933	2.1720
30	06:30:28	0.2141	0.2135	28.4667	2.1732
31	07:00:30	0.2139	0.2133	28.4400	2.1744
32	07:30:33	0.2137	0.2131	28.4133	2.1756
33	08:00:35	0.2135	0.2129	28.3867	2.1768
34	08:30:37	0.2133	0.2127	28.3600	2.1780
35	09:00:39	0.2131	0.2125	28.3333	2.1791
36	09:30:42	0.2130	0.2124	28.3200	2.1797
37	10:00:44	0.2128	0.2122	28.2933	2.1809
38	10:30:46	0.2127	0.2121	28.2800	2.1815
39	11:00:49	0.2126	0.2120	28.2667	2.1821
40	11:30:51	0.2125	0.2119	28.2533	2.1827
41	12:00:53	0.2124	0.2118	28.2400	2.1833
42	12:30:55	0.2123	0.2117	28.2267	2.1839
43	13:00:58	0.2122	0.2116	28.2133	2.1845
44	13:31:00	0.2121	0.2115	28.2000	2.1851
45	14:01:02	0.2119	0.2113	28.1733	2.1862
46	14:31:04	0.2119	0.2113	28.1733	2.1862
47	15:01:07	0.2118	0.2112	28.1600	2.1868
48	15:31:09	0.2118	0.2112	28.1600	2.1868
49	16:01:11	0.2117	0.2111	28.1467	2.1874
50	16:31:13	0.2116	0.2110	28.1333	2.1880
51	17:01:16	0.2116	0.2110	28.1333	2.1880
52	17:31:18	0.2115	0.2109	28.1200	2.1886
53	18:01:20	0.2115	0.2109	28.1200	2.1886
54	18:31:23	0.2114	0.2108	28.1067	2.1892
55	19:01:25	0.2113	0.2107	28.0933	2.1898
56	19:31:27	0.2112	0.2106	28.0800	2.1904
57	20:01:30	0.2111	0.2105	28.0667	2.1910
58	20:31:32	0.2111	0.2105	28.0667	2.1910
59	21:01:34	0.2110	0.2104	28.0533	2.1916
60	21:31:36	0.2110	0.2104	28.0533	2.1916
61	22:01:39	0.2110	0.2104	28.0533	2.1916
62	22:31:41	0.2110	0.2104	28.0533	2.1916
63	23:01:43	0.2109	0.2103	28.0400	2.1921
64	23:31:46	0.2109	0.2103	28.0400	2.1921
65	24:01:48	0.2108	0.2102	28.0267	2.1927
66	24:31:50	0.2108	0.2102	28.0267	2.1927
67	25:01:52	0.2108	0.2102	28.0267	2.1927
68	25:31:55	0.2107	0.2101	28.0133	2.1933
69	26:01:57	0.2107	0.2101	28.0133	2.1933
70	26:31:59	0.2107	0.2101	28.0133	2.1933
71	27:02:02	0.2106	0.2100	28.0000	2.1939
72	27:09:08	0.2105	0.2099	27.9867	2.1945

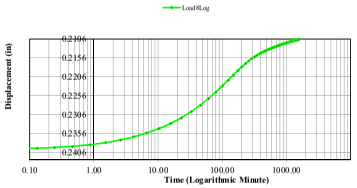
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:
Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

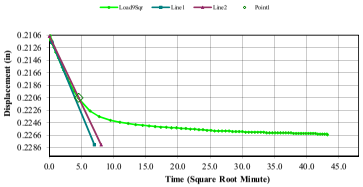
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2105	0.2099	27.9867	2.1945
1	00:00:01	0.2107	0.2101	28.0133	2.1933
2	00:00:02	0.2111	0.2105	28.0667	2.1910
3	00:00:03	0.2113	0.2107	28.0933	2.1898
4	00:00:04	0.2114	0.2108	28.1067	2.1892
5	00:00:05	0.2115	0.2109	28.1200	2.1886
6	00:00:06	0.2116	0.2110	28.1333	2.1880
7	00:00:12	0.2118	0.2112	28.1600	2.1868
8	00:00:15	0.2120	0.2114	28.1867	2.1856
9	00:00:30	0.2125	0.2119	28.2533	2.1827
10	00:01:00	0.2133	0.2127	28.3600	2.1780
11	00:02:00	0.2142	0.2136	28.4800	2.1726
12	00:04:00	0.2157	0.2151	28.6800	2.1638
13	00:05:00	0.2162	0.2156	28.7467	2.1608
14	00:08:00	0.2175	0.2169	28.9200	2.1531
15	00:10:00	0.2182	0.2176	29.0133	2.1490
16	00:15:01	0.2196	0.2190	29.2000	2.1407
17	00:20:01	0.2206	0.2200	29.3333	2.1348
18	00:40:03	0.2227	0.2221	29.6133	2.1224
19	01:00:04	0.2236	0.2230	29.7333	2.1170
20	01:30:06	0.2242	0.2236	29.8133	2.1135
21	02:00:09	0.2245	0.2239	29.8533	2.1117
22	02:30:11	0.2247	0.2241	29.8800	2.1105
23	03:00:13	0.2249	0.2243	29.9067	2.1093
24	03:30:16	0.2250	0.2244	29.9200	2.1088
25	04:00:18	0.2251	0.2245	29.9333	2.1082
26	04:30:20	0.2252	0.2246	29.9467	2.1076
27	05:00:22	0.2253	0.2247	29.9600	2.1070
28	05:30:25	0.2253	0.2247	29.9600	2.1070
29	06:00:27	0.2254	0.2248	29.9733	2.1064
30	06:30:29	0.2254	0.2248	29.9733	2.1064
31	07:00:32	0.2255	0.2249	29.9867	2.1058
32	07:30:34	0.2255	0.2249	29.9867	2.1058
33	08:00:36	0.2256	0.2250	30.0000	2.1052
34	08:30:39	0.2256	0.2250	30.0000	2.1052
35	09:00:41	0.2257	0.2251	30.0133	2.1046
36	09:30:43	0.2257	0.2251	30.0133	2.1046
37	10:00:45	0.2258	0.2252	30.0267	2.1040
38	10:30:48	0.2258	0.2252	30.0267	2.1040
39	11:00:50	0.2259	0.2253	30.0400	2.1034
40	11:30:52	0.2259	0.2253	30.0400	2.1034
41	12:00:55	0.2259	0.2253	30.0400	2.1034
42	12:30:57	0.2259	0.2253	30.0400	2.1034
43	13:00:59	0.2259	0.2253	30.0400	2.1034
44	13:31:01	0.2260	0.2254	30.0533	2.1028
45	14:01:04	0.2260	0.2254	30.0533	2.1028
46	14:31:06	0.2260	0.2254	30.0533	2.1028
47	15:01:08	0.2260	0.2254	30.0533	2.1028
48	15:31:10	0.2261	0.2255	30.0667	2.1022
49	16:01:13	0.2261	0.2255	30.0667	2.1022
50	16:31:15	0.2261	0.2255	30.0667	2.1022
51	17:01:17	0.2261	0.2255	30.0667	2.1022
52	17:31:20	0.2261	0.2255	30.0667	2.1022
53	18:01:22	0.2261	0.2255	30.0667	2.1022
54	18:31:24	0.2261	0.2255	30.0667	2.1022
55	19:01:26	0.2262	0.2256	30.0800	2.1017
56	19:31:29	0.2262	0.2256	30.0800	2.1017
57	20:01:31	0.2262	0.2256	30.0800	2.1017
58	20:31:33	0.2262	0.2256	30.0800	2.1017
59	21:01:35	0.2262	0.2256	30.0800	2.1017
60	21:31:38	0.2262	0.2256	30.0800	2.1017
61	22:01:40	0.2262	0.2256	30.0800	2.1017
62	22:31:42	0.2262	0.2256	30.0800	2.1017
63	23:01:45	0.2262	0.2256	30.0800	2.1017
64	23:31:47	0.2262	0.2256	30.0800	2.1017
65	24:01:49	0.2263	0.2257	30.0933	2.1011
66	24:31:51	0.2263	0.2257	30.0933	2.1011
67	25:01:54	0.2263	0.2257	30.0933	2.1011
68	25:31:56	0.2263	0.2257	30.0933	2.1011
69	26:01:58	0.2263	0.2257	30.0933	2.1011
70	26:32:01	0.2263	0.2257	30.0933	2.1011
71	27:02:03	0.2263	0.2257	30.0933	2.1011
72	27:32:05	0.2263	0.2257	30.0933	2.1011
73	28:02:08	0.2263	0.2257	30.0933	2.1011
74	28:32:10	0.2263	0.2257	30.0933	2.1011
75	29:02:12	0.2264	0.2258	30.1067	2.1005
76	29:32:15	0.2264	0.2258	30.1067	2.1005
77	30:02:17	0.2264	0.2258	30.1067	2.1005
78	30:32:19	0.2264	0.2258	30.1067	2.1005
79	31:02:21	0.2264	0.2258	30.1067	2.1005
80	31:10:13	0.2265	0.2259	30.1200	2.0999

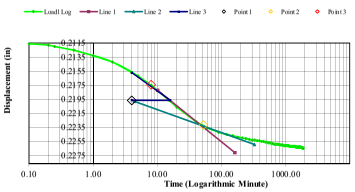
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:
Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

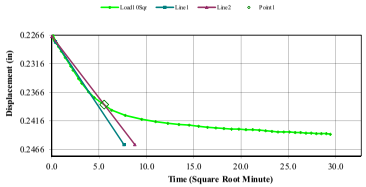
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed
Soil Description: Organic clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2265	0.2259	30.1200	2.0999
1	00:00:01	0.2267	0.2261	30.1467	2.0987
2	00:00:02	0.2271	0.2265	30.2000	2.0963
3	00:00:03	0.2273	0.2267	30.2267	2.0951
4	00:00:04	0.2274	0.2268	30.2400	2.0946
5	00:00:05	0.2275	0.2269	30.2533	2.0940
6	00:00:06	0.2276	0.2270	30.2667	2.0934
7	00:00:12	0.2279	0.2273	30.3067	2.0916
8	00:00:15	0.2280	0.2274	30.3200	2.0910
9	00:00:30	0.2286	0.2280	30.4000	2.0875
10	00:01:00	0.2294	0.2288	30.5067	2.0827
11	00:02:00	0.2305	0.2299	30.6533	2.0762
12	00:04:00	0.2320	0.2314	30.8533	2.0673
13	00:05:01	0.2327	0.2321	30.9467	2.0632
14	00:08:01	0.2342	0.2336	31.1467	2.0543
15	00:10:01	0.2350	0.2344	31.2533	2.0496
16	00:15:01	0.2365	0.2359	31.4533	2.0407
17	00:20:02	0.2375	0.2369	31.5867	2.0348
18	00:40:03	0.2397	0.2391	31.8800	2.0218
19	01:00:05	0.2406	0.2400	32.0000	2.0165
20	01:30:07	0.2413	0.2407	32.0933	2.0123
21	02:00:09	0.2417	0.2411	32.1467	2.0100
22	02:30:12	0.2420	0.2414	32.1867	2.0082
23	03:00:14	0.2422	0.2416	32.2133	2.0070
24	03:30:16	0.2423	0.2417	32.2267	2.0064
25	04:00:18	0.2425	0.2419	32.2533	2.0052
26	04:30:21	0.2427	0.2421	32.2800	2.0041
27	05:00:23	0.2428	0.2422	32.2933	2.0035
28	05:30:25	0.2429	0.2423	32.3067	2.0029
29	06:00:27	0.2430	0.2424	32.3200	2.0023
30	06:30:30	0.2430	0.2424	32.3200	2.0023
31	07:00:32	0.2431	0.2425	32.3333	2.0017
32	07:30:34	0.2431	0.2425	32.3333	2.0017
33	08:00:36	0.2432	0.2426	32.3467	2.0011
34	08:30:39	0.2433	0.2427	32.3600	2.0005
35	09:00:41	0.2434	0.2428	32.3733	1.9999
36	09:30:43	0.2435	0.2429	32.3867	1.9993
37	10:00:46	0.2435	0.2429	32.3867	1.9993
38	10:30:48	0.2435	0.2429	32.3867	1.9993
39	11:00:50	0.2436	0.2430	32.4000	1.9987
40	11:30:52	0.2436	0.2430	32.4000	1.9987
41	12:00:55	0.2437	0.2431	32.4133	1.9981
42	12:30:57	0.2437	0.2431	32.4133	1.9981
43	13:00:59	0.2438	0.2432	32.4267	1.9976
44	13:31:01	0.2438	0.2432	32.4267	1.9976
45	14:01:04	0.2438	0.2432	32.4267	1.9976
46	14:25:40	0.2439	0.2433	32.4400	1.9970

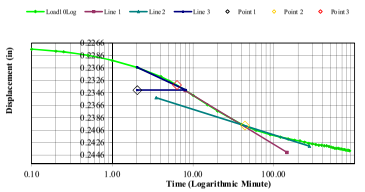
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

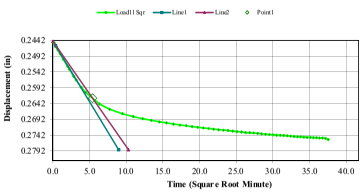
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2439	0.2433	32.4400	1.9970
1	00:00:01	0.2448	0.2442	32.5600	1.9916
2	00:00:02	0.2451	0.2445	32.6000	1.9899
3	00:00:03	0.2453	0.2447	32.6267	1.9887
4	00:00:04	0.2454	0.2448	32.6400	1.9881
5	00:00:05	0.2455	0.2449	32.6533	1.9875
6	00:00:06	0.2456	0.2450	32.6667	1.9869
7	00:00:12	0.2462	0.2456	32.7467	1.9834
8	00:00:15	0.2463	0.2457	32.7600	1.9828
9	00:00:30	0.2472	0.2466	32.8800	1.9774
10	00:01:00	0.2484	0.2478	33.0400	1.9703
11	00:02:00	0.2501	0.2495	33.2667	1.9603
12	00:04:00	0.2524	0.2518	33.5733	1.9467
13	00:05:00	0.2533	0.2527	33.6933	1.9414
14	00:08:01	0.2555	0.2549	33.9867	1.9284
15	00:10:01	0.2567	0.2561	34.1467	1.9213
16	00:15:01	0.2590	0.2584	34.4533	1.9077
17	00:20:01	0.2606	0.2600	34.6667	1.8982
18	00:40:03	0.2643	0.2637	35.1600	1.8763
19	01:00:04	0.2660	0.2654	35.3867	1.8663
20	01:30:07	0.2674	0.2668	35.5733	1.8580
21	02:00:09	0.2683	0.2677	35.6933	1.8526
22	02:30:11	0.2690	0.2684	35.7867	1.8485
23	03:00:14	0.2695	0.2689	35.8533	1.8455
24	03:30:16	0.2700	0.2694	35.9200	1.8426
25	04:00:18	0.2703	0.2697	35.9600	1.8408
26	04:30:20	0.2707	0.2701	36.0133	1.8385
27	05:00:23	0.2710	0.2704	36.0533	1.8367
28	05:30:25	0.2712	0.2706	36.0800	1.8355
29	06:00:27	0.2715	0.2709	36.1200	1.8337
30	06:30:30	0.2717	0.2711	36.1467	1.8325
31	07:00:32	0.2719	0.2713	36.1733	1.8314
32	07:30:34	0.2721	0.2715	36.2000	1.8302
33	08:00:36	0.2723	0.2717	36.2267	1.8290
34	08:30:39	0.2725	0.2719	36.2533	1.8278
35	09:00:41	0.2726	0.2720	36.2667	1.8272
36	09:30:43	0.2727	0.2721	36.2800	1.8266
37	10:00:46	0.2729	0.2723	36.3067	1.8254
38	10:30:48	0.2731	0.2725	36.3333	1.8243
39	11:00:50	0.2732	0.2726	36.3467	1.8237
40	11:30:52	0.2734	0.2728	36.3733	1.8225
41	12:00:55	0.2734	0.2728	36.3733	1.8225
42	12:30:57	0.2735	0.2729	36.3867	1.8219
43	13:00:59	0.2736	0.2730	36.4000	1.8213
44	13:31:01	0.2738	0.2732	36.4267	1.8201
45	14:01:04	0.2739	0.2733	36.4400	1.8195
46	14:31:06	0.2740	0.2734	36.4533	1.8189
47	15:01:08	0.2741	0.2735	36.4667	1.8183
48	15:31:11	0.2742	0.2736	36.4800	1.8178
49	16:01:13	0.2742	0.2736	36.4800	1.8178
50	16:31:15	0.2743	0.2737	36.4933	1.8172
51	17:01:18	0.2744	0.2738	36.5067	1.8166
52	17:31:20	0.2745	0.2739	36.5200	1.8160
53	18:01:22	0.2746	0.2740	36.5333	1.8154
54	18:31:24	0.2747	0.2741	36.5467	1.8148
55	19:01:27	0.2747	0.2741	36.5467	1.8148
56	19:31:29	0.2748	0.2742	36.5600	1.8142
57	20:01:31	0.2749	0.2743	36.5733	1.8136
58	20:31:34	0.2749	0.2743	36.5733	1.8136
59	21:01:36	0.2750	0.2744	36.5867	1.8130
60	21:31:38	0.2750	0.2744	36.5867	1.8130
61	22:01:40	0.2751	0.2745	36.6000	1.8124
62	22:31:43	0.2751	0.2745	36.6000	1.8124
63	23:01:45	0.2752	0.2746	36.6133	1.8118
64	23:29:36	0.2756	0.2750	36.6667	1.8095

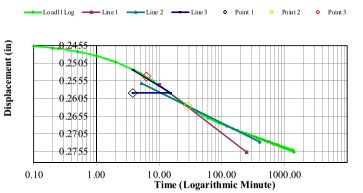
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 19 Sept 11
Test Number:

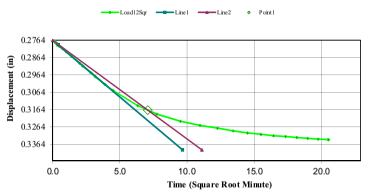
Sample Number: **Soil Description:**
Boring Number: 2 Organic clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2756	0.2750	36.6667	1.8095
1	00:00:01	0.2772	0.2766	36.8800	1.8000
2	00:00:02	0.2775	0.2769	36.9200	1.7982
3	00:00:03	0.2779	0.2773	36.9733	1.7959
4	00:00:04	0.2781	0.2775	37.0000	1.7947
5	00:00:05	0.2782	0.2776	37.0133	1.7941
6	00:00:06	0.2784	0.2778	37.0400	1.7929
7	00:00:12	0.2796	0.2790	37.2000	1.7858
8	00:00:15	0.2798	0.2792	37.2267	1.7846
9	00:00:30	0.2811	0.2805	37.4000	1.7769
10	00:01:00	0.2830	0.2824	37.6533	1.7657
11	00:02:00	0.2858	0.2852	38.0267	1.7491
12	00:04:00	0.2897	0.2891	38.5467	1.7261
13	00:05:00	0.2913	0.2907	38.7600	1.7166
14	00:08:00	0.2951	0.2945	39.2667	1.6941
15	00:10:00	0.2974	0.2968	39.5733	1.6805
16	00:15:01	0.3018	0.3012	40.1600	1.6545
17	00:20:01	0.3053	0.3047	40.6267	1.6338
18	00:40:02	0.3142	0.3136	41.8133	1.5812
19	01:00:04	0.3190	0.3184	42.4533	1.5528
20	01:30:03	0.3231	0.3225	43.0000	1.5285
21	02:00:03	0.3255	0.3249	43.3200	1.5143
22	02:30:03	0.3271	0.3265	43.5333	1.5049
23	03:00:03	0.3287	0.3281	43.7467	1.4954
24	03:30:02	0.3299	0.3293	43.9067	1.4883
25	04:00:02	0.3307	0.3301	44.0133	1.4836
26	04:30:01	0.3315	0.3309	44.1200	1.4788
27	05:00:01	0.3319	0.3313	44.1733	1.4765
28	05:30:00	0.3325	0.3319	44.2533	1.4729
29	05:59:59	0.3330	0.3324	44.3200	1.4700
30	06:29:59	0.3334	0.3328	44.3733	1.4676
31	06:59:58	0.3337	0.3331	44.4133	1.4658
32	07:01:19	0.3338	0.3332	44.4267	1.4652

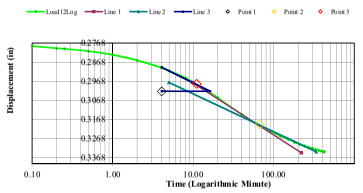
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

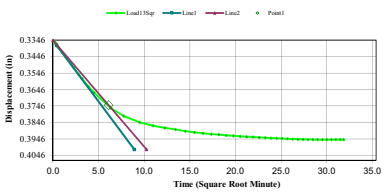
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

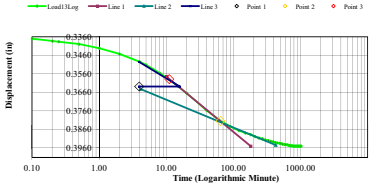
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3338	0.3332	44.4267	1.4652
1	00:00:01	0.3355	0.3349	44.6533	1.4552
2	00:00:02	0.3359	0.3353	44.7067	1.4528
3	00:00:03	0.3363	0.3357	44.7600	1.4504
4	00:00:04	0.3365	0.3359	44.7867	1.4493
5	00:00:05	0.3367	0.3361	44.8133	1.4481
6	00:00:06	0.3370	0.3364	44.8533	1.4463
7	00:00:12	0.3382	0.3376	45.0133	1.4392
8	00:00:15	0.3386	0.3380	45.0667	1.4368
9	00:00:30	0.3399	0.3393	45.2400	1.4292
10	00:01:00	0.3421	0.3415	45.5333	1.4161
11	00:02:00	0.3452	0.3446	45.9467	1.3978
12	00:04:00	0.3494	0.3488	46.5067	1.3730
13	00:05:00	0.3512	0.3506	46.7467	1.3623
14	00:08:00	0.3556	0.3550	47.3333	1.3363
15	00:10:00	0.3579	0.3573	47.6400	1.3227
16	00:15:00	0.3627	0.3621	48.2800	1.2943
17	00:20:00	0.3664	0.3658	48.7733	1.2724
18	00:39:59	0.3758	0.3752	50.0267	1.2168
19	00:59:59	0.3807	0.3801	50.6800	1.1878
20	01:29:58	0.3845	0.3839	51.1867	1.1654
21	01:59:57	0.3866	0.3860	51.4667	1.1529
22	02:29:57	0.3879	0.3873	51.6400	1.1453
23	02:59:56	0.3888	0.3882	51.7600	1.1399
24	03:29:55	0.3899	0.3893	51.9067	1.1334
25	03:59:54	0.3906	0.3900	52.0000	1.1293
26	04:29:53	0.3911	0.3905	52.0667	1.1263
27	04:59:53	0.3917	0.3911	52.1467	1.1228
28	05:29:52	0.3920	0.3914	52.1867	1.1210
29	05:59:51	0.3924	0.3918	52.2400	1.1186
30	06:29:50	0.3927	0.3921	52.2800	1.1169
31	06:59:50	0.3930	0.3924	52.3200	1.1151
32	07:29:49	0.3933	0.3927	52.3600	1.1133
33	07:59:48	0.3934	0.3928	52.3733	1.1127
34	08:29:48	0.3937	0.3931	52.4133	1.1109
35	08:59:47	0.3939	0.3933	52.4400	1.1098
36	09:29:46	0.3941	0.3935	52.4667	1.1086
37	09:59:46	0.3942	0.3936	52.4800	1.1080
38	10:29:46	0.3943	0.3937	52.4933	1.1074
39	10:59:46	0.3945	0.3939	52.5200	1.1062
40	11:29:46	0.3947	0.3941	52.5467	1.1050
41	11:59:47	0.3948	0.3942	52.5600	1.1044
42	12:29:46	0.3949	0.3943	52.5733	1.1038
43	12:59:46	0.3950	0.3944	52.5867	1.1033
44	13:29:45	0.3950	0.3944	52.5867	1.1033
45	13:59:44	0.3950	0.3944	52.5867	1.1033
46	14:29:44	0.3950	0.3944	52.5867	1.1033
47	14:59:43	0.3950	0.3944	52.5867	1.1033
48	15:29:42	0.3950	0.3944	52.5867	1.1033
49	15:59:42	0.3950	0.3944	52.5867	1.1033
50	16:29:42	0.3950	0.3944	52.5867	1.1033
51	16:53:38	0.3950	0.3944	52.5867	1.1033

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 19 Sept 11
Test Number:

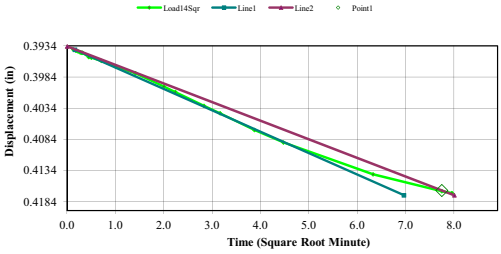
Sample Number:
Boring Number: 2
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic clay (OH)
Remarks:

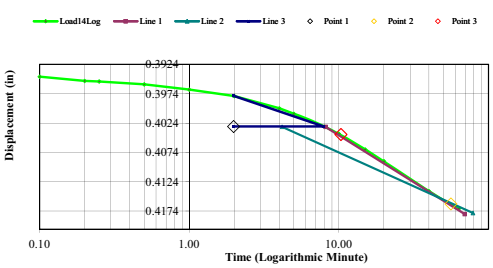
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3950	0.3944	52.5867	1.1033
1	00:00:01	0.3940	0.3934	52.4533	1.1092
2	00:00:02	0.3942	0.3936	52.4800	1.1080
3	00:00:03	0.3943	0.3937	52.4933	1.1074
4	00:00:04	0.3944	0.3938	52.5067	1.1068
5	00:00:05	0.3945	0.3939	52.5200	1.1062
6	00:00:06	0.3945	0.3939	52.5200	1.1062
7	00:00:12	0.3952	0.3946	52.6133	1.1021
8	00:00:15	0.3953	0.3947	52.6267	1.1015
9	00:00:30	0.3958	0.3952	52.6933	1.0985
10	00:01:00	0.3967	0.3961	52.8133	1.0932
11	00:02:00	0.3978	0.3972	52.9600	1.0867
12	00:04:00	0.3999	0.3993	53.2400	1.0743
13	00:05:00	0.4008	0.4002	53.3600	1.0690
14	00:08:00	0.4030	0.4024	53.6533	1.0559
15	00:10:00	0.4042	0.4036	53.8133	1.0488
16	00:15:00	0.4069	0.4063	54.1733	1.0329
17	00:20:00	0.4089	0.4083	54.4400	1.0210
18	00:40:00	0.4140	0.4134	55.1200	0.9909
19	01:00:00	0.4167	0.4161	55.4800	0.9749
20	01:03:19	0.4170	0.4164	55.5200	0.9731

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



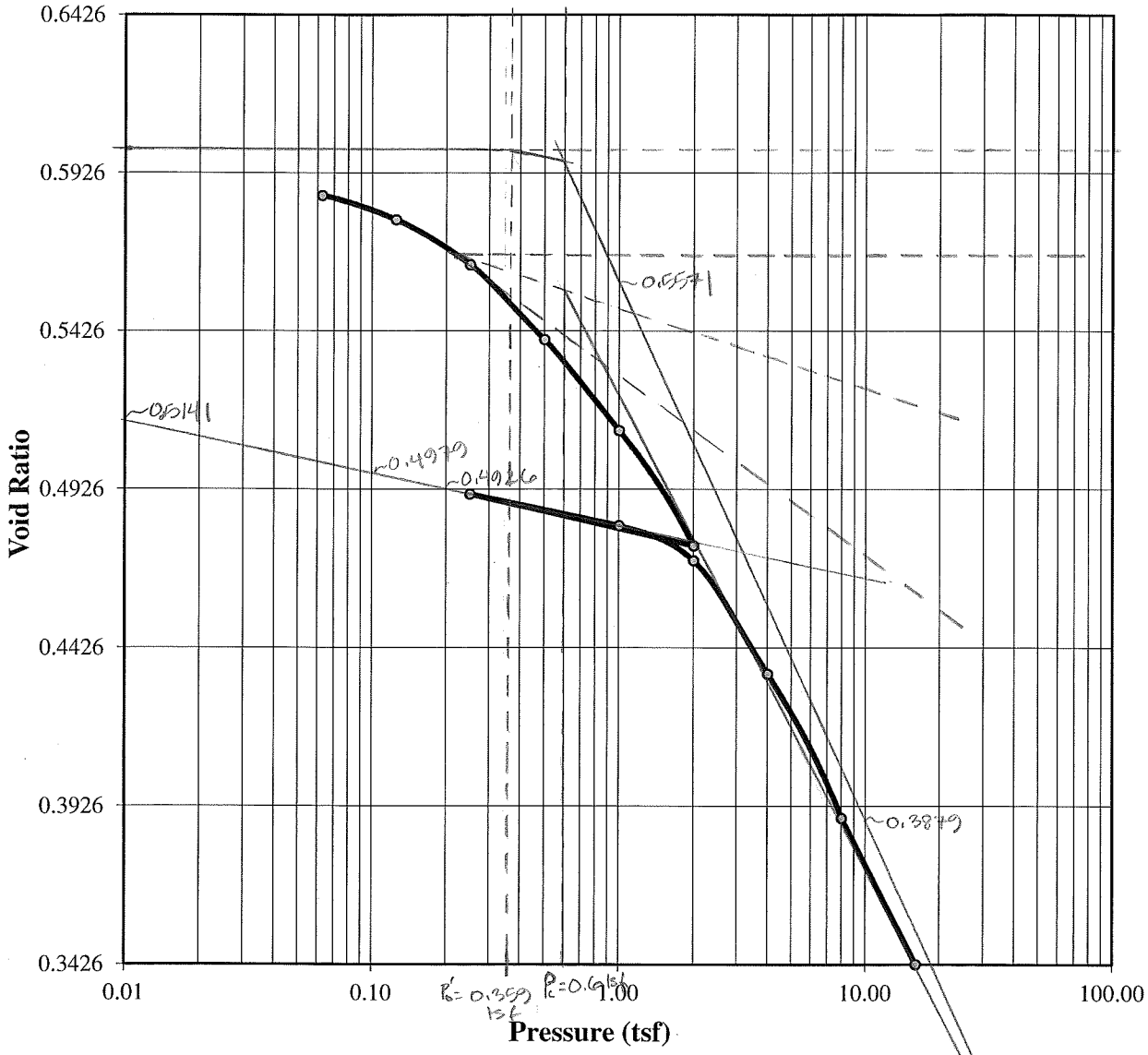
Consolidation Graph (Logarithmic Time)



107 ticks = 0.1
(60 ticks = 1")

GEOENGINEERS

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	33	**Test Date:**	23 Sept 11
Moisture (%):	22.72	15.89	**Plastic Limits:**	14		
Dry Density (pcf):	102.51	119.85	**Plasticity Index (%):**	19		
Saturation (%):	99.63	113.56				
Void Ratio:	0.5999	0.3460	**Specific Gravity:**	2.625	Measured	

Soil Description: Very sandy clay (CL) ~~0.42e₀ = 0.2520~~ 0.42e₀ = 0.252

Project Number: 16715-023-00 **Depth:** 14 - 16 feet

Sample Number: **Boring Number:** 5

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location:

Remarks: Mudline depth: 4 ft, submerged
$\gamma = 102.51\ pcf\ (1.2272) = 125.8\ pcf$
$\gamma' = 63.4\ pcf$
$\gamma_{av} = \frac{(123.5)2 + (126.9)4 + (131.2)4 - 1(125.8)}{11}$
$= 127.75\ pcf$
$\gamma'_{av} = 65.35\ pcf$

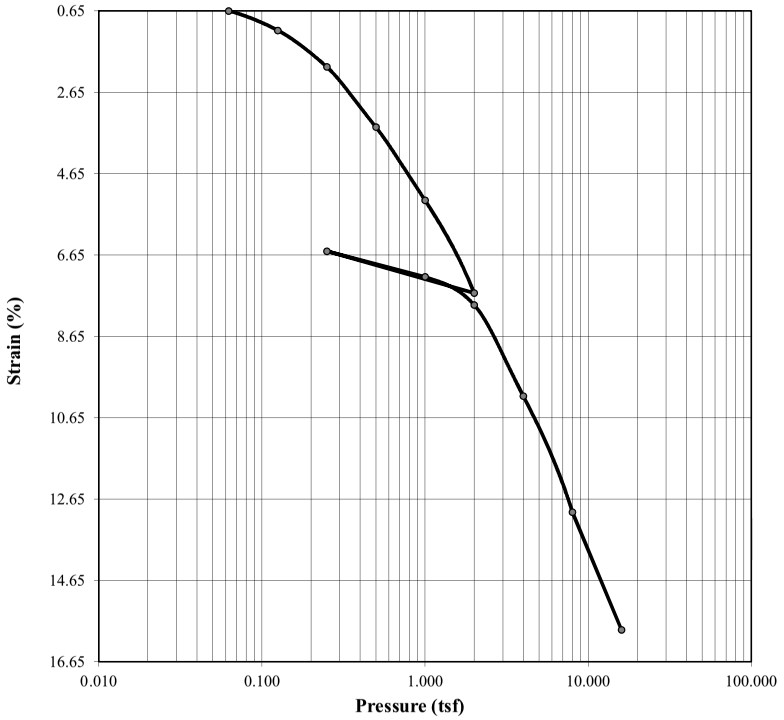
$P'_o = 63.35\ pcf\ (11\ ft) = 718\ psf$
$= 0.359\ tsf$
$P_c = 0.6\ tsf$
$OCR = \frac{0.6}{0.359} = 1.671$
$C_c = \frac{0.5571 - 0.3879}{\log(10/1)} = \underline{0.1692}$

$CR = \frac{0.1692}{1.5999} = \underline{0.1058}$
$C_r = \frac{0.5141 - 0.4979}{\log(0.1/0.01)} = \underline{0.0162}$
$RR = \frac{0.0162}{1.5999} = \underline{0.0101}$

C_{vt90} @ $P'_o \approx 193\ ft^2/yr$
$= 0.53\ ft^2/day$
C_{t90} @ $P'_c \approx 287\ ft^2/yr$
$= 0.786\ ft^2/day$

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.72	15.89	**Liquid Limits:**	33	**Test Date:**	23 Sept 11
Dry Density (pcf):	102.51	119.85	**Plastic Limits:**	14		
Saturation (%):	99.63	113.56	**Plasticity Index (%):**	19		
Void Ratio:	0.5999	0.3460	**Specific Gravity:**	2.625	Measured	

Sample Description: Very sandy clay (CL)

Project Number: 16715-023-00 **Depth:** 14 - 16 feet **Remarks:**

Sample Number: **Boring Number:** 5

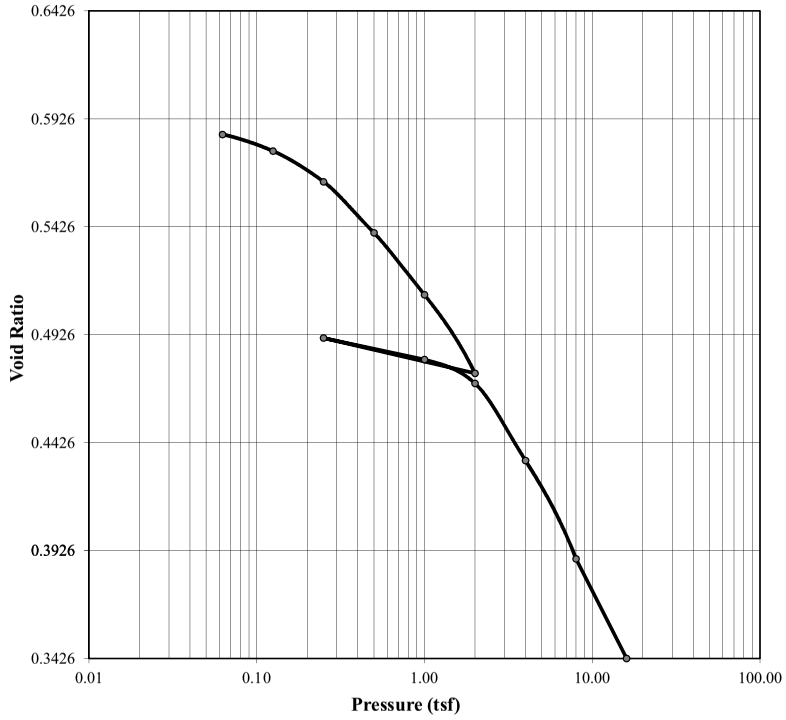
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.72	15.89	**Liquid Limits:**	33	**Test Date:**	23 Sept 11
Dry Density (pcf):	102.51	119.85	**Plastic Limits:**	14		
Saturation (%):	99.63	113.56	**Plasticity Index (%):**	19		
Void Ratio:	0.5999	0.3460	**Specific Gravity:**	2.625	Measured	

Soil Description: Very sandy clay (CL)

Project Number: 16715-023-00 **Depth:** 14 - 16 feet **Remarks:**

Sample Number: **Boring Number:** 5

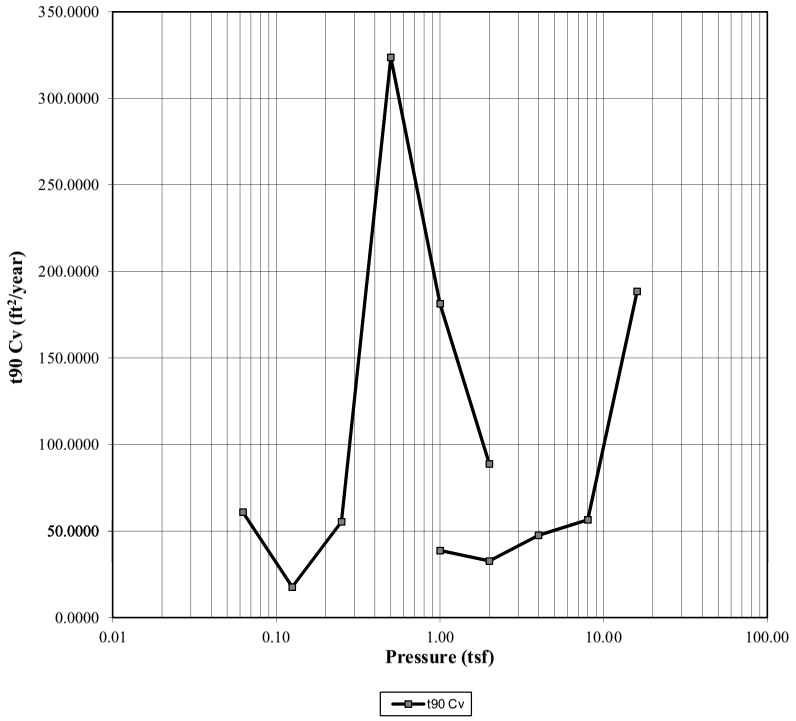
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.72	15.89	**Liquid Limits:**	33	**Test Date:**	23 Sept 11
Dry Density (pcf):	102.51	119.85	**Plastic Limits:**	14		
Saturation (%):	99.63	113.56	**Plasticity Index (%):**	19		
Void Ratio:	0.5999	0.3460	**Specific Gravity:**	2.625	Measured	

Soil Description: Very sandy clay (CL)

Project Number: 16715-023-00 **Depth:** 14 - 16 feet **Remarks:**

Sample Number: **Boring Number:** 5

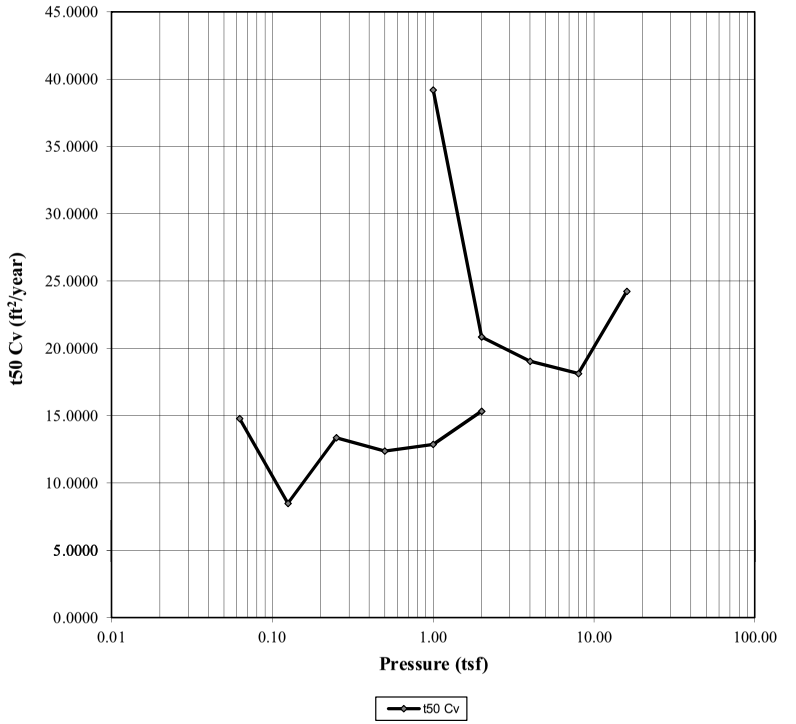
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	22.72	15.89	**Liquid Limits:**	33	**Test Date:**	23 Sept 11
Dry Density (pcf):	102.51	119.85	**Plastic Limits:**	14		
Saturation (%):	99.63	113.56	**Plasticity Index (%):**	19		
Void Ratio:	0.5999	0.3460	**Specific Gravity:**	2.625	Measured	

Soil Description: Very sandy clay (CL)

Project Number: 16715-023-00 **Depth:** 14 - 16 feet **Remarks:**

Sample Number: **Boring Number:** 5

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, Louisiana

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, Louisiana
Job Number:

Sample Number: **Sample Description:**
Boring Number: 5 Very sandy clay (CL)
Depth: 14 - 16 feet **Remarks:**
Sample Type: Undisturbed **Test Number:**
Test Date: 23 Sept 11

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	0.7500	0.2800	0.00	0.5958	0.000	0.000	0.000	0.000
1	0.063	0.0049	0.7451	0.2751	0.65	0.5854	7.050	6.748	60.937	14.790
2	0.125	0.0085	0.7415	0.2715	1.13	0.5777	24.041	11.647	17.697	8.486
3	0.250	0.0152	0.7348	0.2648	2.03	0.5635	7.547	7.263	55.362	13.364
4	0.500	0.0263	0.7237	0.2537	3.51	0.5398	1.252	7.610	323.679	12.373
5	1.000	0.0398	0.7102	0.2402	5.31	0.5111	2.152	7.045	181.377	12.870
6	2.000	0.0569	0.6931	0.2231	7.59	0.4747	4.188	5.633	88.768	15.331
7	0.250	0.0492	0.7008	0.2308	6.56	0.4911	0.000	0.000	0.000	0.000
8	1.000	0.0539	0.6961	0.2261	7.19	0.4811	9.679	2.222	38.738	39.197
9	2.000	0.0591	0.6909	0.2209	7.88	0.4700	11.296	4.116	32.698	20.850
10	4.000	0.0759	0.6741	0.2041	10.12	0.4343	7.395	4.290	47.552	19.042
11	8.000	0.0973	0.6527	0.1827	12.97	0.3888	5.834	4.225	56.506	18.127
12	16.000	0.1190	0.6310	0.1610	15.87	0.3426	1.635	2.954	188.473	24.232

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, Louisiana
Job Number: **Test Date:** 23 Sept 11

Sample Number: **Sample Description:**
Boring Number: 5 Very sandy clay (CL)
Depth: 14 - 16 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 33.0000 **Initial Void Ratio:** 0.5999 **Initial Height (in):** 0.7500
Plastic Limit: 14.0000 **Plasticity Index (%):** 19.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.6250 **Weight of Ring (g):** 220.0300
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	152.79	139.73
Dry Soil + Container (g)	128.68	124.32
Weight of Container (g)	22.57	27.34
Moisture Content (%)	22.72	15.89
Void Ratio	0.5999	0.3460
Saturation (%)	99.63	113.56
Dry Density (pcf)	102.51	119.85

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

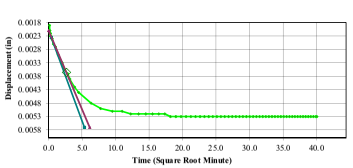
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0004	0.0000	0.0000	0.5999
1	00:00:01	0.0019	0.0015	0.2000	0.5967
2	00:00:02	0.0021	0.0017	0.2267	0.5963
3	00:00:03	0.0022	0.0018	0.2400	0.5961
4	00:00:04	0.0022	0.0018	0.2400	0.5961
5	00:00:05	0.0023	0.0019	0.2533	0.5958
6	00:00:06	0.0023	0.0019	0.2533	0.5958
7	00:00:12	0.0024	0.0020	0.2667	0.5956
8	00:00:15	0.0024	0.0020	0.2667	0.5956
9	00:00:30	0.0026	0.0022	0.2933	0.5952
10	00:01:00	0.0027	0.0023	0.3067	0.5950
11	00:02:00	0.0030	0.0026	0.3467	0.5944
12	00:04:00	0.0033	0.0029	0.3867	0.5937
13	00:05:00	0.0035	0.0031	0.4133	0.5933
14	00:08:00	0.0037	0.0033	0.4400	0.5929
15	00:10:00	0.0039	0.0035	0.4667	0.5924
16	00:15:01	0.0042	0.0038	0.5067	0.5918
17	00:20:01	0.0044	0.0040	0.5333	0.5914
18	00:40:03	0.0048	0.0044	0.5867	0.5905
19	01:00:04	0.0050	0.0046	0.6133	0.5901
20	01:30:07	0.0051	0.0047	0.6267	0.5899
21	02:00:09	0.0051	0.0047	0.6267	0.5899
22	02:30:11	0.0052	0.0048	0.6400	0.5897
23	03:00:14	0.0052	0.0048	0.6400	0.5897
24	03:30:16	0.0052	0.0048	0.6400	0.5897
25	04:00:18	0.0052	0.0048	0.6400	0.5897
26	04:30:20	0.0052	0.0048	0.6400	0.5897
27	05:00:23	0.0052	0.0048	0.6400	0.5897
28	05:30:25	0.0053	0.0049	0.6533	0.5894
29	06:00:27	0.0053	0.0049	0.6533	0.5894
30	06:30:30	0.0053	0.0049	0.6533	0.5894
31	07:00:32	0.0053	0.0049	0.6533	0.5894
32	07:30:34	0.0053	0.0049	0.6533	0.5894
33	08:00:36	0.0053	0.0049	0.6533	0.5894
34	08:30:39	0.0053	0.0049	0.6533	0.5894
35	09:00:41	0.0053	0.0049	0.6533	0.5894
36	09:30:43	0.0053	0.0049	0.6533	0.5894
37	10:00:45	0.0053	0.0049	0.6533	0.5894
38	10:30:48	0.0053	0.0049	0.6533	0.5894
39	11:00:50	0.0053	0.0049	0.6533	0.5894
40	11:30:52	0.0053	0.0049	0.6533	0.5894
41	12:00:55	0.0053	0.0049	0.6533	0.5894
42	12:30:57	0.0053	0.0049	0.6533	0.5894
43	13:00:59	0.0053	0.0049	0.6533	0.5894
44	13:31:01	0.0053	0.0049	0.6533	0.5894
45	14:01:04	0.0053	0.0049	0.6533	0.5894
46	14:31:06	0.0053	0.0049	0.6533	0.5894
47	15:01:08	0.0053	0.0049	0.6533	0.5894
48	15:31:10	0.0053	0.0049	0.6533	0.5894
49	16:01:13	0.0053	0.0049	0.6533	0.5894
50	16:31:15	0.0053	0.0049	0.6533	0.5894
51	17:01:17	0.0053	0.0049	0.6533	0.5894
52	17:31:20	0.0053	0.0049	0.6533	0.5894
53	18:01:22	0.0053	0.0049	0.6533	0.5894
54	18:31:24	0.0053	0.0049	0.6533	0.5894
55	19:01:27	0.0053	0.0049	0.6533	0.5894
56	19:31:29	0.0053	0.0049	0.6533	0.5894
57	20:01:31	0.0053	0.0049	0.6533	0.5894
58	20:31:33	0.0053	0.0049	0.6533	0.5894
59	21:01:36	0.0053	0.0049	0.6533	0.5894
60	21:31:38	0.0053	0.0049	0.6533	0.5894
61	22:01:40	0.0053	0.0049	0.6533	0.5894
62	22:31:43	0.0053	0.0049	0.6533	0.5894
63	23:01:45	0.0053	0.0049	0.6533	0.5894
64	23:31:47	0.0053	0.0049	0.6533	0.5894
65	24:01:49	0.0053	0.0049	0.6533	0.5894
66	24:31:52	0.0053	0.0049	0.6533	0.5894
67	25:01:54	0.0053	0.0049	0.6533	0.5894
68	25:31:56	0.0053	0.0049	0.6533	0.5894
69	26:01:59	0.0053	0.0049	0.6533	0.5894
70	26:32:01	0.0053	0.0049	0.6533	0.5894
71	26:43:27	0.0053	0.0049	0.6533	0.5894

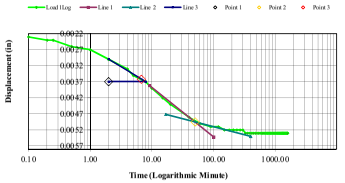
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 1) Load 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

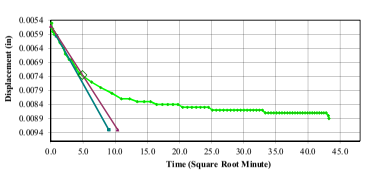
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0053	0.0049	0.6533	0.5894
1	00:00:01	0.0055	0.0051	0.6800	0.5890
2	00:00:02	0.0057	0.0053	0.7067	0.5886
3	00:00:03	0.0057	0.0053	0.7067	0.5886
4	00:00:04	0.0057	0.0053	0.7067	0.5886
5	00:00:05	0.0058	0.0054	0.7200	0.5884
6	00:00:06	0.0058	0.0054	0.7200	0.5884
7	00:00:12	0.0058	0.0054	0.7200	0.5884
8	00:00:15	0.0059	0.0055	0.7333	0.5882
9	00:00:30	0.0059	0.0055	0.7333	0.5882
10	00:01:00	0.0060	0.0056	0.7467	0.5880
11	00:02:00	0.0062	0.0058	0.7733	0.5875
12	00:04:00	0.0064	0.0060	0.8000	0.5871
13	00:05:00	0.0066	0.0062	0.8267	0.5867
14	00:08:01	0.0068	0.0064	0.8533	0.5862
15	00:10:01	0.0068	0.0064	0.8533	0.5862
16	00:15:01	0.0071	0.0067	0.8933	0.5856
17	00:20:02	0.0073	0.0069	0.9200	0.5852
18	00:40:03	0.0076	0.0072	0.9600	0.5845
19	01:00:05	0.0078	0.0074	0.9867	0.5841
20	01:30:07	0.0080	0.0076	1.0133	0.5837
21	02:00:09	0.0082	0.0078	1.0400	0.5833
22	02:30:11	0.0082	0.0078	1.0400	0.5833
23	03:00:14	0.0083	0.0079	1.0533	0.5830
24	03:30:16	0.0083	0.0079	1.0533	0.5830
25	04:00:18	0.0083	0.0079	1.0533	0.5830
26	04:30:21	0.0084	0.0080	1.0667	0.5828
27	05:00:23	0.0084	0.0080	1.0667	0.5828
28	05:30:25	0.0084	0.0080	1.0667	0.5828
29	06:00:27	0.0084	0.0080	1.0667	0.5828
30	06:30:30	0.0084	0.0080	1.0667	0.5828
31	07:00:32	0.0085	0.0081	1.0800	0.5826
32	07:30:34	0.0085	0.0081	1.0800	0.5826
33	08:00:37	0.0085	0.0081	1.0800	0.5826
34	08:30:39	0.0085	0.0081	1.0800	0.5826
35	09:00:41	0.0085	0.0081	1.0800	0.5826
36	09:30:43	0.0085	0.0081	1.0800	0.5826
37	10:00:46	0.0085	0.0081	1.0800	0.5826
38	10:30:48	0.0086	0.0082	1.0933	0.5824
39	11:00:50	0.0086	0.0082	1.0933	0.5824
40	11:30:53	0.0086	0.0082	1.0933	0.5824
41	12:00:55	0.0086	0.0082	1.0933	0.5824
42	12:30:57	0.0086	0.0082	1.0933	0.5824
43	13:01:00	0.0086	0.0082	1.0933	0.5824
44	13:31:02	0.0086	0.0082	1.0933	0.5824
45	14:01:04	0.0086	0.0082	1.0933	0.5824
46	14:31:06	0.0086	0.0082	1.0933	0.5824
47	15:01:09	0.0086	0.0082	1.0933	0.5824
48	15:31:11	0.0086	0.0082	1.0933	0.5824
49	16:01:13	0.0086	0.0082	1.0933	0.5824
50	16:31:15	0.0086	0.0082	1.0933	0.5824
51	17:01:18	0.0086	0.0082	1.0933	0.5824
52	17:31:20	0.0086	0.0082	1.0933	0.5824
53	18:01:22	0.0086	0.0082	1.0933	0.5824
54	18:31:25	0.0087	0.0083	1.1067	0.5822
55	19:01:27	0.0087	0.0083	1.1067	0.5822
56	19:31:29	0.0087	0.0083	1.1067	0.5822
57	20:01:31	0.0087	0.0083	1.1067	0.5822
58	20:31:34	0.0087	0.0083	1.1067	0.5822
59	21:01:36	0.0087	0.0083	1.1067	0.5822
60	21:31:38	0.0087	0.0083	1.1067	0.5822
61	22:01:40	0.0087	0.0083	1.1067	0.5822
62	22:31:43	0.0087	0.0083	1.1067	0.5822
63	23:01:45	0.0087	0.0083	1.1067	0.5822
64	23:31:47	0.0087	0.0083	1.1067	0.5822
65	24:01:49	0.0087	0.0083	1.1067	0.5822
66	24:31:52	0.0087	0.0083	1.1067	0.5822
67	25:01:54	0.0087	0.0083	1.1067	0.5822
68	25:31:56	0.0087	0.0083	1.1067	0.5822
69	26:01:59	0.0087	0.0083	1.1067	0.5822
70	26:32:01	0.0087	0.0083	1.1067	0.5822
71	27:02:03	0.0087	0.0083	1.1067	0.5822
72	27:32:06	0.0087	0.0083	1.1067	0.5822
73	28:02:08	0.0087	0.0083	1.1067	0.5822
74	28:32:10	0.0087	0.0083	1.1067	0.5822
75	29:02:13	0.0087	0.0083	1.1067	0.5822
76	29:32:15	0.0087	0.0083	1.1067	0.5822
77	30:02:17	0.0087	0.0083	1.1067	0.5822
78	30:32:19	0.0087	0.0083	1.1067	0.5822
79	31:02:22	0.0088	0.0084	1.1200	0.5820
80	31:10:11	0.0089	0.0085	1.1333	0.5818

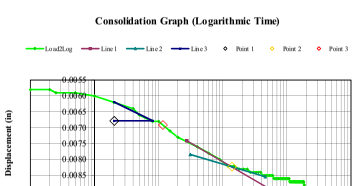
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 2) Load 0.125 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

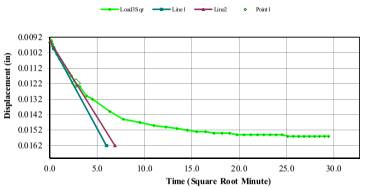
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0089	0.0085	1.1333	0.5818
1	00:00:01	0.0094	0.0090	1.2000	0.5807
2	00:00:02	0.0095	0.0091	1.2133	0.5805
3	00:00:03	0.0096	0.0092	1.2267	0.5803
4	00:00:04	0.0097	0.0093	1.2400	0.5801
5	00:00:05	0.0098	0.0094	1.2533	0.5798
6	00:00:06	0.0098	0.0094	1.2533	0.5798
7	00:00:12	0.0100	0.0096	1.2800	0.5794
8	00:00:15	0.0100	0.0096	1.2800	0.5794
9	00:00:30	0.0103	0.0099	1.3200	0.5788
10	00:01:00	0.0106	0.0102	1.3600	0.5781
11	00:02:00	0.0110	0.0106	1.4133	0.5773
12	00:04:00	0.0115	0.0111	1.4800	0.5762
13	00:05:00	0.0117	0.0113	1.5067	0.5758
14	00:08:00	0.0123	0.0119	1.5867	0.5745
15	00:10:01	0.0124	0.0120	1.6000	0.5743
16	00:15:01	0.0130	0.0126	1.6800	0.5730
17	00:20:01	0.0132	0.0128	1.7067	0.5726
18	00:40:03	0.0140	0.0136	1.8133	0.5709
19	01:00:04	0.0145	0.0141	1.8800	0.5698
20	01:30:07	0.0147	0.0143	1.9067	0.5694
21	02:00:09	0.0149	0.0145	1.9333	0.5690
22	02:30:11	0.0150	0.0146	1.9467	0.5688
23	03:00:13	0.0151	0.0147	1.9600	0.5685
24	03:30:16	0.0152	0.0148	1.9733	0.5683
25	04:00:18	0.0153	0.0149	1.9867	0.5681
26	04:30:20	0.0153	0.0149	1.9867	0.5681
27	05:00:23	0.0154	0.0150	2.0000	0.5679
28	05:30:25	0.0154	0.0150	2.0000	0.5679
29	06:00:27	0.0154	0.0150	2.0000	0.5679
30	06:30:29	0.0155	0.0151	2.0133	0.5677
31	07:00:32	0.0155	0.0151	2.0133	0.5677
32	07:30:34	0.0155	0.0151	2.0133	0.5677
33	08:00:36	0.0155	0.0151	2.0133	0.5677
34	08:30:38	0.0155	0.0151	2.0133	0.5677
35	09:00:41	0.0155	0.0151	2.0133	0.5677
36	09:30:43	0.0155	0.0151	2.0133	0.5677
37	10:00:45	0.0155	0.0151	2.0133	0.5677
38	10:30:47	0.0156	0.0152	2.0267	0.5675
39	11:00:50	0.0156	0.0152	2.0267	0.5675
40	11:30:52	0.0156	0.0152	2.0267	0.5675
41	12:00:54	0.0156	0.0152	2.0267	0.5675
42	12:30:57	0.0156	0.0152	2.0267	0.5675
43	13:00:59	0.0156	0.0152	2.0267	0.5675
44	13:31:01	0.0156	0.0152	2.0267	0.5675
45	14:01:03	0.0156	0.0152	2.0267	0.5675
46	14:26:21	0.0156	0.0152	2.0267	0.5675

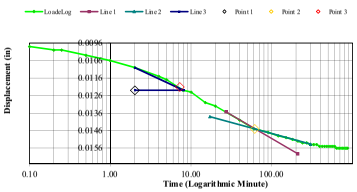
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 3) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 4) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

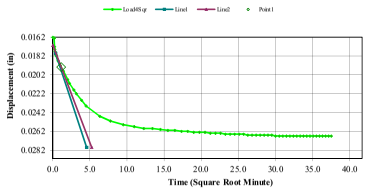
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0156	0.0152	2.0267	0.5675
1	00:00:00	0.0162	0.0158	2.1067	0.5662
2	00:00:01	0.0163	0.0159	2.1200	0.5660
3	00:00:02	0.0163	0.0159	2.1200	0.5660
4	00:00:03	0.0172	0.0168	2.2400	0.5641
5	00:00:04	0.0175	0.0171	2.2800	0.5634
6	00:00:05	0.0177	0.0173	2.3067	0.5630
7	00:00:11	0.0181	0.0177	2.3600	0.5621
8	00:00:14	0.0182	0.0178	2.3733	0.5619
9	00:00:29	0.0187	0.0183	2.4400	0.5609
10	00:01:00	0.0192	0.0188	2.5067	0.5598
11	00:02:00	0.0198	0.0194	2.5867	0.5585
12	00:04:00	0.0207	0.0203	2.7067	0.5566
13	00:05:00	0.0211	0.0207	2.7600	0.5557
14	00:08:00	0.0218	0.0214	2.8533	0.5542
15	00:10:00	0.0222	0.0218	2.9067	0.5534
16	00:15:01	0.0229	0.0225	3.0000	0.5519
17	00:20:01	0.0235	0.0231	3.0800	0.5506
18	00:40:02	0.0246	0.0242	3.2267	0.5483
19	01:00:04	0.0251	0.0247	3.2933	0.5472
20	01:30:06	0.0255	0.0251	3.3467	0.5464
21	02:00:09	0.0257	0.0253	3.3733	0.5459
22	02:30:11	0.0259	0.0255	3.4000	0.5455
23	03:00:13	0.0259	0.0255	3.4000	0.5455
24	03:30:15	0.0260	0.0256	3.4133	0.5453
25	04:00:18	0.0261	0.0257	3.4267	0.5451
26	04:30:20	0.0261	0.0257	3.4267	0.5451
27	05:00:22	0.0262	0.0258	3.4400	0.5449
28	05:30:25	0.0262	0.0258	3.4400	0.5449
29	06:00:27	0.0263	0.0259	3.4533	0.5446
30	06:30:29	0.0263	0.0259	3.4533	0.5446
31	07:00:31	0.0263	0.0259	3.4533	0.5446
32	07:30:34	0.0264	0.0260	3.4667	0.5444
33	08:00:36	0.0264	0.0260	3.4667	0.5444
34	08:30:38	0.0264	0.0260	3.4667	0.5444
35	09:00:41	0.0265	0.0261	3.4800	0.5442
36	09:30:43	0.0265	0.0261	3.4800	0.5442
37	10:00:45	0.0265	0.0261	3.4800	0.5442
38	10:30:47	0.0265	0.0261	3.4800	0.5442
39	11:00:50	0.0265	0.0261	3.4800	0.5442
40	11:30:52	0.0266	0.0262	3.4933	0.5440
41	12:00:54	0.0266	0.0262	3.4933	0.5440
42	12:30:56	0.0266	0.0262	3.4933	0.5440
43	13:00:59	0.0266	0.0262	3.4933	0.5440
44	13:31:01	0.0266	0.0262	3.4933	0.5440
45	14:01:03	0.0266	0.0262	3.4933	0.5440
46	14:31:06	0.0266	0.0262	3.4933	0.5440
47	15:01:08	0.0267	0.0263	3.5067	0.5438
48	15:31:10	0.0267	0.0263	3.5067	0.5438
49	16:01:13	0.0267	0.0263	3.5067	0.5438
50	16:31:15	0.0267	0.0263	3.5067	0.5438
51	17:01:17	0.0267	0.0263	3.5067	0.5438
52	17:31:19	0.0267	0.0263	3.5067	0.5438
53	18:01:22	0.0267	0.0263	3.5067	0.5438
54	18:31:24	0.0267	0.0263	3.5067	0.5438
55	19:01:26	0.0267	0.0263	3.5067	0.5438
56	19:31:29	0.0267	0.0263	3.5067	0.5438
57	20:01:31	0.0267	0.0263	3.5067	0.5438
58	20:31:33	0.0267	0.0263	3.5067	0.5438
59	21:01:35	0.0267	0.0263	3.5067	0.5438
60	21:31:38	0.0267	0.0263	3.5067	0.5438
61	22:01:40	0.0267	0.0263	3.5067	0.5438
62	22:31:42	0.0267	0.0263	3.5067	0.5438
63	23:01:44	0.0267	0.0263	3.5067	0.5438
64	23:28:57	0.0267	0.0263	3.5067	0.5438

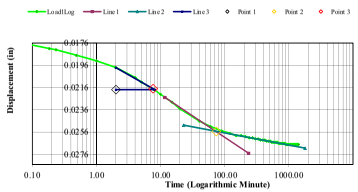
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 4) Load 0.500 tsf

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 23 Sept 11
Test Number:

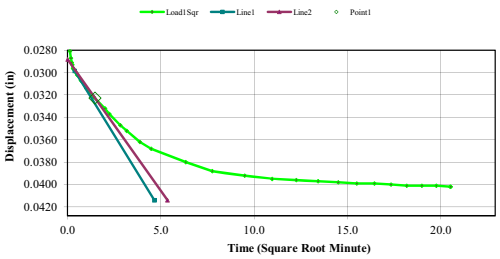
Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

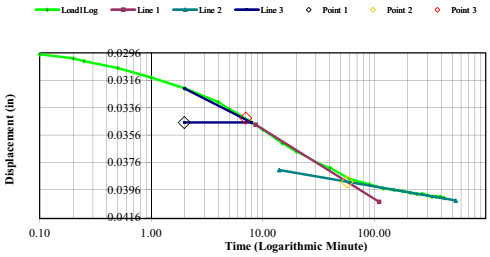
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0267	0.0263	3.5067	0.5438
1	00:00:01	0.0281	0.0277	3.6933	0.5408
2	00:00:02	0.0287	0.0283	3.7733	0.5395
3	00:00:03	0.0291	0.0287	3.8267	0.5387
4	00:00:04	0.0293	0.0289	3.8533	0.5382
5	00:00:05	0.0296	0.0292	3.8933	0.5376
6	00:00:06	0.0297	0.0293	3.9067	0.5374
7	00:00:12	0.0300	0.0296	3.9467	0.5368
8	00:00:15	0.0302	0.0298	3.9733	0.5363
9	00:00:30	0.0307	0.0303	4.0400	0.5353
10	00:01:00	0.0314	0.0310	4.1333	0.5338
11	00:02:00	0.0322	0.0318	4.2400	0.5321
12	00:04:00	0.0332	0.0328	4.3733	0.5299
13	00:05:00	0.0337	0.0333	4.4400	0.5289
14	00:08:00	0.0347	0.0343	4.5733	0.5267
15	00:10:01	0.0352	0.0348	4.6400	0.5257
16	00:15:01	0.0362	0.0358	4.7733	0.5235
17	00:20:01	0.0368	0.0364	4.8533	0.5222
18	00:40:03	0.0380	0.0376	5.0133	0.5197
19	01:00:04	0.0388	0.0384	5.1200	0.5180
20	01:30:04	0.0392	0.0388	5.1733	0.5171
21	02:00:04	0.0395	0.0391	5.2133	0.5165
22	02:30:03	0.0396	0.0392	5.2267	0.5163
23	03:00:03	0.0397	0.0393	5.2400	0.5161
24	03:30:03	0.0398	0.0394	5.2533	0.5158
25	04:00:02	0.0399	0.0395	5.2667	0.5156
26	04:30:02	0.0399	0.0395	5.2667	0.5156
27	05:00:01	0.0400	0.0396	5.2800	0.5154
28	05:30:00	0.0401	0.0397	5.2933	0.5152
29	06:00:00	0.0401	0.0397	5.2933	0.5152
30	06:29:59	0.0401	0.0397	5.2933	0.5152
31	06:59:58	0.0402	0.0398	5.3067	0.5150
32	07:01:12	0.0402	0.0398	5.3067	0.5150

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Consolidation Test Results
(Sequence 6) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 23 Sept 11
Test Number:

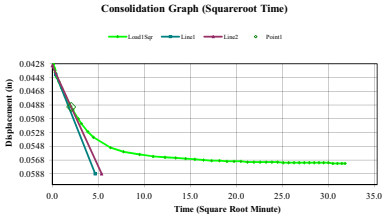
Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

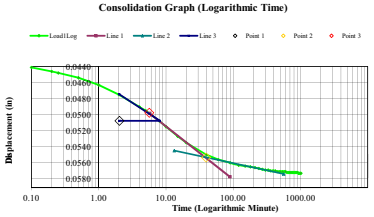
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0402	0.0398	5.3067	0.5150
1	00:00:01	0.0429	0.0425	5.6667	0.5092
2	00:00:02	0.0433	0.0429	5.7200	0.5084
3	00:00:03	0.0435	0.0431	5.7467	0.5080
4	00:00:04	0.0436	0.0432	5.7600	0.5077
5	00:00:05	0.0438	0.0434	5.7867	0.5073
6	00:00:06	0.0441	0.0437	5.8267	0.5067
7	00:00:12	0.0446	0.0442	5.8933	0.5056
8	00:00:15	0.0448	0.0444	5.9200	0.5052
9	00:00:30	0.0454	0.0450	6.0000	0.5039
10	00:01:00	0.0463	0.0459	6.1200	0.5020
11	00:02:00	0.0475	0.0471	6.2800	0.4994
12	00:04:00	0.0490	0.0486	6.4800	0.4962
13	00:05:00	0.0495	0.0491	6.5467	0.4952
14	00:08:00	0.0508	0.0504	6.7200	0.4924
15	00:10:00	0.0515	0.0511	6.8133	0.4909
16	00:14:59	0.0527	0.0523	6.9733	0.4883
17	00:19:59	0.0535	0.0531	7.0800	0.4866
18	00:39:59	0.0550	0.0546	7.2800	0.4834
19	00:59:58	0.0556	0.0552	7.3600	0.4821
20	01:29:58	0.0560	0.0556	7.4133	0.4813
21	01:59:57	0.0563	0.0559	7.4533	0.4807
22	02:29:56	0.0564	0.0560	7.4667	0.4804
23	02:59:55	0.0565	0.0561	7.4800	0.4802
24	03:29:54	0.0566	0.0562	7.4933	0.4800
25	03:59:54	0.0567	0.0563	7.5067	0.4798
26	04:29:53	0.0568	0.0564	7.5200	0.4796
27	04:59:52	0.0569	0.0565	7.5333	0.4794
28	05:29:51	0.0569	0.0565	7.5333	0.4794
29	05:59:51	0.0570	0.0566	7.5467	0.4792
30	06:29:50	0.0570	0.0566	7.5467	0.4792
31	06:59:49	0.0570	0.0566	7.5467	0.4792
32	07:29:48	0.0571	0.0567	7.5600	0.4789
33	07:59:48	0.0571	0.0567	7.5600	0.4789
34	08:29:47	0.0571	0.0567	7.5600	0.4789
35	08:59:46	0.0571	0.0567	7.5600	0.4789
36	09:29:46	0.0571	0.0567	7.5600	0.4789
37	09:59:45	0.0571	0.0567	7.5600	0.4789
38	10:29:45	0.0572	0.0568	7.5733	0.4787
39	10:59:45	0.0572	0.0568	7.5733	0.4787
40	11:29:46	0.0572	0.0568	7.5733	0.4787
41	11:59:46	0.0572	0.0568	7.5733	0.4787
42	12:29:46	0.0572	0.0568	7.5733	0.4787
43	12:59:45	0.0572	0.0568	7.5733	0.4787
44	13:29:45	0.0572	0.0568	7.5733	0.4787
45	13:59:44	0.0572	0.0568	7.5733	0.4787
46	14:29:43	0.0572	0.0568	7.5733	0.4787
47	14:59:42	0.0572	0.0568	7.5733	0.4787
48	15:29:42	0.0573	0.0569	7.5867	0.4785
49	15:59:41	0.0573	0.0569	7.5867	0.4785
50	16:29:41	0.0573	0.0569	7.5867	0.4785
51	16:51:50	0.0573	0.0569	7.5867	0.4785

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 23 Sept 11
Test Number:

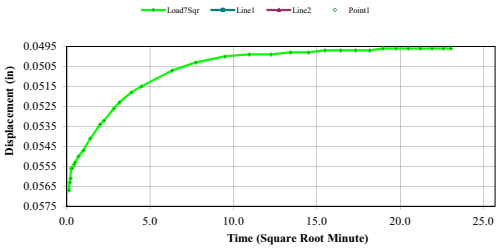
Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

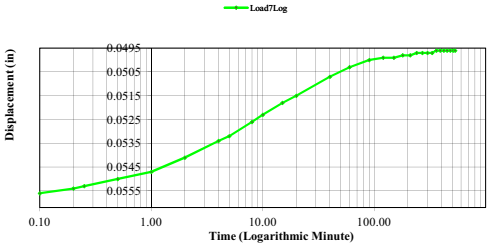
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0573	0.0569	7.5867	0.4785
1	00:00:01	0.0567	0.0563	7.5067	0.4798
2	00:00:02	0.0563	0.0559	7.4533	0.4807
3	00:00:03	0.0561	0.0557	7.4267	0.4811
4	00:00:04	0.0556	0.0552	7.3600	0.4821
5	00:00:05	0.0556	0.0552	7.3600	0.4821
6	00:00:06	0.0556	0.0552	7.3600	0.4821
7	00:00:12	0.0554	0.0550	7.3333	0.4826
8	00:00:15	0.0553	0.0549	7.3200	0.4828
9	00:00:30	0.0550	0.0546	7.2800	0.4834
10	00:01:00	0.0547	0.0543	7.2400	0.4841
11	00:02:00	0.0541	0.0537	7.1600	0.4853
12	00:04:00	0.0534	0.0530	7.0667	0.4868
13	00:05:00	0.0532	0.0528	7.0400	0.4873
14	00:08:00	0.0526	0.0522	6.9600	0.4885
15	00:10:00	0.0523	0.0519	6.9200	0.4892
16	00:15:00	0.0518	0.0514	6.8533	0.4903
17	00:20:00	0.0515	0.0511	6.8133	0.4909
18	00:40:00	0.0507	0.0503	6.7067	0.4926
19	01:00:00	0.0503	0.0499	6.6533	0.4935
20	01:30:01	0.0500	0.0496	6.6133	0.4941
21	02:00:01	0.0499	0.0495	6.6000	0.4943
22	02:30:01	0.0499	0.0495	6.6000	0.4943
23	03:00:01	0.0498	0.0494	6.5867	0.4945
24	03:30:02	0.0498	0.0494	6.5867	0.4945
25	04:00:02	0.0497	0.0493	6.5733	0.4947
26	04:30:02	0.0497	0.0493	6.5733	0.4947
27	05:00:02	0.0497	0.0493	6.5733	0.4947
28	05:30:03	0.0497	0.0493	6.5733	0.4947
29	06:00:03	0.0496	0.0492	6.5600	0.4949
30	06:30:03	0.0496	0.0492	6.5600	0.4949
31	07:00:04	0.0496	0.0492	6.5600	0.4949
32	07:30:04	0.0496	0.0492	6.5600	0.4949
33	08:00:04	0.0496	0.0492	6.5600	0.4949
34	08:30:05	0.0496	0.0492	6.5600	0.4949
35	08:51:03	0.0496	0.0492	6.5600	0.4949

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Load 1.000 tsf

Consolidation Test Results
(Sequence 8) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00

Test Date: 23 Sept 11
Test Number:

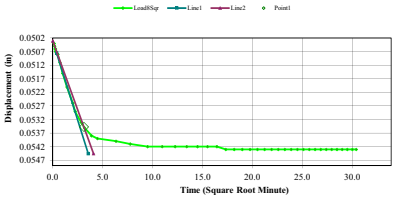
Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

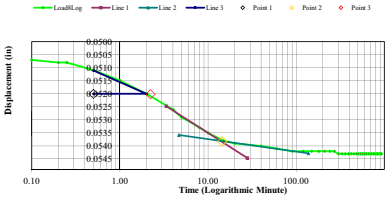
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0496	0.0492	6.5600	0.4949
1	00:00:01	0.0504	0.0500	6.6667	0.4932
2	00:00:02	0.0505	0.0501	6.6800	0.4930
3	00:00:03	0.0506	0.0502	6.6933	0.4928
4	00:00:04	0.0506	0.0502	6.6933	0.4928
5	00:00:05	0.0507	0.0503	6.7067	0.4926
6	00:00:06	0.0507	0.0503	6.7067	0.4926
7	00:00:12	0.0508	0.0504	6.7200	0.4924
8	00:00:15	0.0508	0.0504	6.7200	0.4924
9	00:00:30	0.0511	0.0507	6.7600	0.4917
10	00:01:00	0.0515	0.0511	6.8133	0.4909
11	00:02:00	0.0520	0.0516	6.8800	0.4898
12	00:04:00	0.0526	0.0522	6.9600	0.4885
13	00:05:00	0.0529	0.0525	7.0000	0.4879
14	00:08:00	0.0533	0.0529	7.0533	0.4871
15	00:10:00	0.0535	0.0531	7.0800	0.4866
16	00:15:00	0.0538	0.0534	7.1200	0.4860
17	00:20:00	0.0539	0.0535	7.1333	0.4858
18	00:40:00	0.0540	0.0536	7.1467	0.4856
19	01:00:00	0.0541	0.0537	7.1600	0.4853
20	01:30:01	0.0542	0.0538	7.1733	0.4851
21	02:00:00	0.0542	0.0538	7.1733	0.4851
22	02:30:00	0.0542	0.0538	7.1733	0.4851
23	02:59:59	0.0542	0.0538	7.1733	0.4851
24	03:29:58	0.0542	0.0538	7.1733	0.4851
25	03:59:57	0.0542	0.0538	7.1733	0.4851
26	04:29:57	0.0542	0.0538	7.1733	0.4851
27	04:59:57	0.0543	0.0539	7.1867	0.4849
28	05:29:57	0.0543	0.0539	7.1867	0.4849
29	05:59:57	0.0543	0.0539	7.1867	0.4849
30	06:29:56	0.0543	0.0539	7.1867	0.4849
31	06:59:55	0.0543	0.0539	7.1867	0.4849
32	07:29:55	0.0543	0.0539	7.1867	0.4849
33	07:59:55	0.0543	0.0539	7.1867	0.4849
34	08:29:55	0.0543	0.0539	7.1867	0.4849
35	08:59:54	0.0543	0.0539	7.1867	0.4849
36	09:29:54	0.0543	0.0539	7.1867	0.4849
37	09:59:53	0.0543	0.0539	7.1867	0.4849
38	10:29:53	0.0543	0.0539	7.1867	0.4849
39	10:59:53	0.0543	0.0539	7.1867	0.4849
40	11:29:52	0.0543	0.0539	7.1867	0.4849
41	11:59:52	0.0543	0.0539	7.1867	0.4849
42	12:29:52	0.0543	0.0539	7.1867	0.4849
43	12:59:52	0.0543	0.0539	7.1867	0.4849
44	13:29:51	0.0543	0.0539	7.1867	0.4849
45	13:59:50	0.0543	0.0539	7.1867	0.4849
46	14:29:50	0.0543	0.0539	7.1867	0.4849
47	14:59:50	0.0543	0.0539	7.1867	0.4849
48	15:23:17	0.0543	0.0539	7.1867	0.4849

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

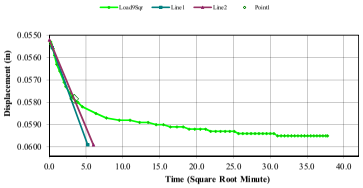
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0543	0.0539	7.1867	0.4849
1	00:00:01	0.0553	0.0549	7.3200	0.4828
2	00:00:02	0.0553	0.0549	7.3200	0.4828
3	00:00:03	0.0554	0.0550	7.3333	0.4826
4	00:00:04	0.0554	0.0550	7.3333	0.4826
5	00:00:05	0.0555	0.0551	7.3467	0.4824
6	00:00:06	0.0555	0.0551	7.3467	0.4824
7	00:00:12	0.0556	0.0552	7.3600	0.4821
8	00:00:15	0.0556	0.0552	7.3600	0.4821
9	00:00:30	0.0559	0.0555	7.4000	0.4815
10	00:01:00	0.0563	0.0559	7.4533	0.4807
11	00:02:00	0.0566	0.0562	7.4933	0.4800
12	00:04:00	0.0571	0.0567	7.5600	0.4789
13	00:05:00	0.0573	0.0569	7.5867	0.4785
14	00:08:00	0.0576	0.0572	7.6267	0.4779
15	00:09:59	0.0578	0.0574	7.6533	0.4775
16	00:14:59	0.0580	0.0576	7.6800	0.4770
17	00:19:59	0.0582	0.0578	7.7067	0.4766
18	00:39:59	0.0585	0.0581	7.7467	0.4760
19	00:59:58	0.0587	0.0583	7.7733	0.4755
20	01:29:58	0.0588	0.0584	7.7867	0.4753
21	01:59:58	0.0588	0.0584	7.7867	0.4753
22	02:29:58	0.0589	0.0585	7.8000	0.4751
23	02:59:58	0.0589	0.0585	7.8000	0.4751
24	03:29:57	0.0590	0.0586	7.8133	0.4749
25	03:59:56	0.0590	0.0586	7.8133	0.4749
26	04:29:56	0.0591	0.0587	7.8267	0.4747
27	04:59:56	0.0591	0.0587	7.8267	0.4747
28	05:29:56	0.0591	0.0587	7.8267	0.4747
29	05:59:56	0.0592	0.0588	7.8400	0.4745
30	06:29:56	0.0592	0.0588	7.8400	0.4745
31	06:59:55	0.0592	0.0588	7.8400	0.4745
32	07:29:54	0.0592	0.0588	7.8400	0.4745
33	07:59:53	0.0593	0.0589	7.8533	0.4743
34	08:29:53	0.0593	0.0589	7.8533	0.4743
35	08:59:52	0.0593	0.0589	7.8533	0.4743
36	09:29:52	0.0593	0.0589	7.8533	0.4743
37	09:59:52	0.0593	0.0589	7.8533	0.4743
38	10:29:52	0.0593	0.0589	7.8533	0.4743
39	10:59:52	0.0594	0.0590	7.8667	0.4740
40	11:29:52	0.0594	0.0590	7.8667	0.4740
41	11:59:52	0.0594	0.0590	7.8667	0.4740
42	12:29:51	0.0594	0.0590	7.8667	0.4740
43	12:59:50	0.0594	0.0590	7.8667	0.4740
44	13:29:50	0.0594	0.0590	7.8667	0.4740
45	13:59:49	0.0594	0.0590	7.8667	0.4740
46	14:29:49	0.0594	0.0590	7.8667	0.4740
47	14:59:48	0.0594	0.0590	7.8667	0.4740
48	15:29:49	0.0594	0.0590	7.8667	0.4740
49	15:59:49	0.0595	0.0591	7.8800	0.4738
50	16:29:48	0.0595	0.0591	7.8800	0.4738
51	16:59:47	0.0595	0.0591	7.8800	0.4738
52	17:29:46	0.0595	0.0591	7.8800	0.4738
53	17:59:46	0.0595	0.0591	7.8800	0.4738
54	18:29:46	0.0595	0.0591	7.8800	0.4738
55	18:59:46	0.0595	0.0591	7.8800	0.4738
56	19:29:46	0.0595	0.0591	7.8800	0.4738
57	19:59:45	0.0595	0.0591	7.8800	0.4738
58	20:29:44	0.0595	0.0591	7.8800	0.4738
59	20:59:44	0.0595	0.0591	7.8800	0.4738
60	21:29:44	0.0595	0.0591	7.8800	0.4738
61	21:59:44	0.0595	0.0591	7.8800	0.4738
62	22:29:44	0.0595	0.0591	7.8800	0.4738
63	22:59:43	0.0595	0.0591	7.8800	0.4738
64	23:29:42	0.0595	0.0591	7.8800	0.4738
65	23:47:27	0.0595	0.0591	7.8800	0.4738

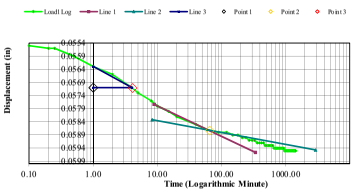
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 2.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

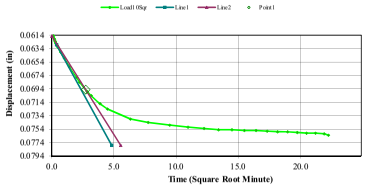
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0595	0.0591	7.8800	0.4738
1	00:00:01	0.0615	0.0611	8.1467	0.4696
2	00:00:02	0.0619	0.0615	8.2000	0.4687
3	00:00:03	0.0621	0.0617	8.2267	0.4683
4	00:00:04	0.0623	0.0619	8.2533	0.4679
5	00:00:05	0.0624	0.0620	8.2667	0.4676
6	00:00:06	0.0626	0.0622	8.2933	0.4672
7	00:00:12	0.0630	0.0626	8.3467	0.4664
8	00:00:15	0.0632	0.0628	8.3733	0.4659
9	00:00:30	0.0639	0.0635	8.4667	0.4644
10	00:01:00	0.0648	0.0644	8.5867	0.4625
11	00:02:00	0.0661	0.0657	8.7600	0.4597
12	00:04:00	0.0677	0.0673	8.9733	0.4563
13	00:05:00	0.0684	0.0680	9.0667	0.4548
14	00:08:00	0.0698	0.0694	9.2533	0.4519
15	00:10:00	0.0704	0.0700	9.3333	0.4506
16	00:15:00	0.0716	0.0712	9.4933	0.4480
17	00:20:00	0.0724	0.0720	9.6000	0.4463
18	00:40:00	0.0739	0.0735	9.8000	0.4431
19	01:00:00	0.0744	0.0740	9.8667	0.4420
20	01:30:01	0.0748	0.0744	9.9200	0.4412
21	02:00:00	0.0751	0.0747	9.9600	0.4405
22	02:29:59	0.0753	0.0749	9.9867	0.4401
23	02:59:59	0.0755	0.0751	10.0133	0.4397
24	03:29:58	0.0755	0.0751	10.0133	0.4397
25	03:59:59	0.0756	0.0752	10.0267	0.4395
26	04:29:58	0.0756	0.0752	10.0267	0.4395
27	04:59:57	0.0757	0.0753	10.0400	0.4393
28	05:29:57	0.0758	0.0754	10.0533	0.4391
29	05:59:56	0.0758	0.0754	10.0533	0.4391
30	06:29:56	0.0759	0.0755	10.0667	0.4388
31	06:59:56	0.0760	0.0756	10.0800	0.4386
32	07:29:56	0.0760	0.0756	10.0800	0.4386
33	07:59:56	0.0761	0.0757	10.0933	0.4384
34	08:15:12	0.0763	0.0759	10.1200	0.4380

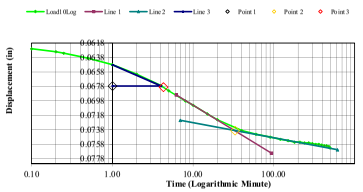
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 4.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

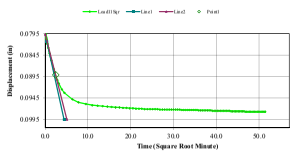
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in.)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0763	0.0759	10.1200	0.4300
1	00:00:01	0.0796	0.0792	10.5600	0.4309
2	00:00:02	0.0807	0.0798	10.6400	0.4297
3	00:00:03	0.0804	0.0800	10.6667	0.4292
4	00:00:04	0.0806	0.0802	10.6933	0.4288
5	00:00:05	0.0808	0.0804	10.7200	0.4284
6	00:00:06	0.0810	0.0806	10.7467	0.4280
7	00:00:12	0.0817	0.0813	10.8400	0.4265
8	00:00:15	0.0819	0.0815	10.8667	0.4260
9	00:00:30	0.0828	0.0824	10.9867	0.4241
10	00:01:00	0.0841	0.0837	11.1600	0.4213
11	00:02:00	0.0857	0.0853	11.3733	0.4179
12	00:04:00	0.0878	0.0874	11.6533	0.4135
13	00:05:00	0.0886	0.0882	11.7600	0.4117
14	00:08:00	0.0903	0.0899	11.9867	0.4081
15	00:10:00	0.0913	0.0907	12.0933	0.4064
16	00:15:00	0.0925	0.0921	12.2800	0.4034
17	00:20:00	0.0933	0.0929	12.3867	0.4017
18	00:40:01	0.0948	0.0944	12.5867	0.3985
19	01:00:01	0.0955	0.0951	12.6800	0.3970
20	01:30:01	0.0959	0.0955	12.7333	0.3962
21	02:00:00	0.0962	0.0958	12.7733	0.3955
22	02:30:00	0.0963	0.0959	12.7867	0.3953
23	02:59:59	0.0964	0.0960	12.8000	0.3951
24	03:29:58	0.0965	0.0961	12.8133	0.3949
25	03:59:57	0.0966	0.0962	12.8267	0.3947
26	04:29:57	0.0967	0.0963	12.8400	0.3945
27	04:59:56	0.0967	0.0963	12.8400	0.3945
28	05:29:55	0.0968	0.0964	12.8533	0.3943
29	05:59:55	0.0968	0.0964	12.8533	0.3943
30	06:29:55	0.0969	0.0965	12.8667	0.3940
31	06:59:55	0.0969	0.0965	12.8667	0.3940
32	07:29:55	0.0970	0.0966	12.8800	0.3938
33	07:59:55	0.0970	0.0966	12.8800	0.3938
34	08:29:54	0.0970	0.0966	12.8800	0.3938
35	08:59:53	0.0971	0.0967	12.8933	0.3936
36	09:29:53	0.0971	0.0967	12.8933	0.3936
37	09:59:52	0.0971	0.0967	12.8933	0.3936
38	10:29:52	0.0971	0.0967	12.8933	0.3936
39	10:59:52	0.0971	0.0967	12.8933	0.3936
40	11:29:52	0.0971	0.0967	12.8933	0.3936
41	11:59:52	0.0972	0.0968	12.9067	0.3934
42	12:29:51	0.0972	0.0968	12.9067	0.3934
43	12:59:50	0.0972	0.0968	12.9067	0.3934
44	13:29:50	0.0972	0.0968	12.9067	0.3934
45	13:59:49	0.0972	0.0968	12.9067	0.3934
46	14:29:48	0.0972	0.0968	12.9067	0.3934
47	14:59:48	0.0972	0.0968	12.9067	0.3934
48	15:29:47	0.0972	0.0968	12.9067	0.3934
49	15:59:47	0.0972	0.0968	12.9067	0.3934
50	16:29:47	0.0972	0.0968	12.9067	0.3934
51	16:59:47	0.0973	0.0969	12.9200	0.3932
52	17:29:46	0.0973	0.0969	12.9200	0.3932
53	17:59:45	0.0973	0.0969	12.9200	0.3932
54	18:29:45	0.0973	0.0969	12.9200	0.3932
55	18:59:45	0.0973	0.0969	12.9200	0.3932
56	19:29:45	0.0973	0.0969	12.9200	0.3932
57	19:59:44	0.0973	0.0969	12.9200	0.3932
58	20:29:44	0.0973	0.0969	12.9200	0.3932
59	20:59:43	0.0973	0.0969	12.9200	0.3932
60	21:29:43	0.0974	0.0970	12.9333	0.3930
61	21:59:43	0.0974	0.0970	12.9333	0.3930
62	22:29:43	0.0974	0.0970	12.9333	0.3930
63	22:59:42	0.0974	0.0970	12.9333	0.3930
64	23:29:41	0.0974	0.0970	12.9333	0.3930
65	23:59:41	0.0974	0.0970	12.9333	0.3930
66	24:29:41	0.0974	0.0970	12.9333	0.3930
67	24:59:41	0.0974	0.0970	12.9333	0.3930
68	25:29:41	0.0975	0.0971	12.9467	0.3928
69	25:59:40	0.0975	0.0971	12.9467	0.3928
70	26:29:40	0.0975	0.0971	12.9467	0.3928
71	26:59:39	0.0975	0.0971	12.9467	0.3928
72	27:29:38	0.0975	0.0971	12.9467	0.3928
73	27:59:38	0.0975	0.0971	12.9467	0.3928
74	28:29:37	0.0975	0.0971	12.9467	0.3928
75	28:59:37	0.0975	0.0971	12.9467	0.3928
76	29:29:38	0.0975	0.0971	12.9467	0.3928
77	29:59:37	0.0975	0.0971	12.9467	0.3928
78	30:29:37	0.0975	0.0971	12.9467	0.3928
79	30:59:36	0.0975	0.0971	12.9467	0.3928
80	31:29:35	0.0976	0.0972	12.9600	0.3926
81	31:59:35	0.0976	0.0972	12.9600	0.3926
82	32:29:35	0.0976	0.0972	12.9600	0.3926
83	32:59:35	0.0976	0.0972	12.9600	0.3926
84	33:29:35	0.0976	0.0972	12.9600	0.3926
85	33:59:34	0.0976	0.0972	12.9600	0.3926
86	34:29:33	0.0976	0.0972	12.9600	0.3926
87	34:59:33	0.0976	0.0972	12.9600	0.3926
88	35:29:32	0.0976	0.0972	12.9600	0.3926
89	35:59:32	0.0976	0.0972	12.9600	0.3926
90	36:29:32	0.0977	0.0973	12.9733	0.3923
91	36:59:32	0.0977	0.0973	12.9733	0.3923
92	37:29:32	0.0977	0.0973	12.9733	0.3923
93	37:59:32	0.0977	0.0973	12.9733	0.3923
94	38:29:32	0.0977	0.0973	12.9733	0.3923
95	38:59:32	0.0977	0.0973	12.9733	0.3923
96	39:29:32	0.0977	0.0973	12.9733	0.3923
97	39:59:32	0.0977	0.0973	12.9733	0.3923
98	40:29:32	0.0977	0.0973	12.9733	0.3923
99	40:59:31	0.0977	0.0973	12.9733	0.3923
100	41:29:30	0.0977	0.0973	12.9733	0.3923
101	41:59:30	0.0977	0.0973	12.9733	0.3923
102	42:29:30	0.0977	0.0973	12.9733	0.3923
103	42:59:30	0.0977	0.0973	12.9733	0.3923
104	43:29:29	0.0977	0.0973	12.9733	0.3923
105	43:59:29	0.0977	0.0973	12.9733	0.3923
106	44:04:26	0.0977	0.0973	12.9733	0.3923

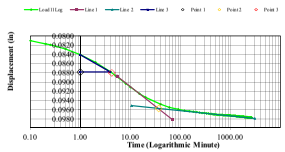
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 11) Load 8.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 16.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, Louisiana
Job Number:

Project Number: 16715-023-00
Test Date: 23 Sept 11
Test Number:

Sample Number:
Boring Number: 5
Depth: 14 - 16 feet
Sample Type: Undisturbed

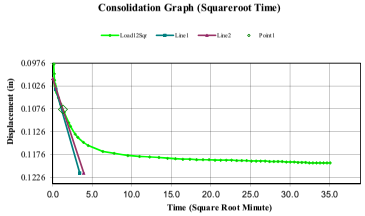
Soil Description: Very sandy clay (CL)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0977	0.0973	12.9733	0.3923
1	00:00:01	0.0978	0.0974	12.9867	0.3921
2	00:00:02	0.0999	0.0995	13.2667	0.3876
3	00:00:03	0.1013	0.1009	13.4533	0.3847
4	00:00:04	0.1021	0.1017	13.5600	0.3830
5	00:00:05	0.1024	0.1020	13.6000	0.3823
6	00:00:06	0.1027	0.1023	13.6400	0.3817
7	00:00:12	0.1038	0.1034	13.7867	0.3793
8	00:00:15	0.1041	0.1037	13.8267	0.3787
9	00:00:30	0.1051	0.1047	13.9600	0.3766
10	00:01:00	0.1065	0.1061	14.1467	0.3736
11	00:02:00	0.1083	0.1079	14.3867	0.3697
12	00:04:00	0.1106	0.1102	14.6933	0.3648
13	00:05:00	0.1114	0.1110	14.8000	0.3631
14	00:08:00	0.1131	0.1127	15.0267	0.3595
15	00:10:01	0.1138	0.1134	15.1200	0.3580
16	00:15:01	0.1149	0.1145	15.2667	0.3556
17	00:20:01	0.1156	0.1152	15.3600	0.3542
18	00:40:03	0.1169	0.1165	15.5333	0.3514
19	01:00:05	0.1173	0.1169	15.5867	0.3505
20	01:30:08	0.1178	0.1174	15.6533	0.3495
21	02:00:10	0.1180	0.1176	15.6800	0.3490
22	02:30:13	0.1181	0.1177	15.6933	0.3488
23	03:00:16	0.1182	0.1178	15.7067	0.3486
24	03:30:18	0.1184	0.1180	15.7333	0.3482
25	04:00:21	0.1185	0.1181	15.7467	0.3480
26	04:30:24	0.1186	0.1182	15.7600	0.3478
27	05:00:26	0.1186	0.1182	15.7600	0.3478
28	05:30:29	0.1187	0.1183	15.7733	0.3475
29	06:00:32	0.1187	0.1183	15.7733	0.3475
30	06:30:34	0.1187	0.1183	15.7733	0.3475
31	07:00:37	0.1188	0.1184	15.7867	0.3473
32	07:30:39	0.1188	0.1184	15.7867	0.3473
33	08:00:42	0.1188	0.1184	15.7867	0.3473
34	08:30:45	0.1188	0.1184	15.7867	0.3473
35	09:00:47	0.1189	0.1185	15.8000	0.3471
36	09:30:50	0.1189	0.1185	15.8000	0.3471
37	10:00:53	0.1189	0.1185	15.8000	0.3471
38	10:30:55	0.1190	0.1186	15.8133	0.3469
39	11:00:58	0.1190	0.1186	15.8133	0.3469
40	11:31:01	0.1190	0.1186	15.8133	0.3469
41	12:01:03	0.1190	0.1186	15.8133	0.3469
42	12:31:06	0.1191	0.1187	15.8267	0.3467
43	13:01:09	0.1191	0.1187	15.8267	0.3467
44	13:31:11	0.1191	0.1187	15.8267	0.3467
45	14:01:14	0.1191	0.1187	15.8267	0.3467
46	14:31:17	0.1192	0.1188	15.8400	0.3465
47	15:01:19	0.1192	0.1188	15.8400	0.3465
48	15:31:22	0.1192	0.1188	15.8400	0.3465
49	16:01:25	0.1193	0.1189	15.8533	0.3463
50	16:31:27	0.1193	0.1189	15.8533	0.3463
51	17:01:30	0.1193	0.1189	15.8533	0.3463
52	17:31:33	0.1194	0.1190	15.8667	0.3460
53	18:01:35	0.1194	0.1190	15.8667	0.3460
54	18:31:38	0.1194	0.1190	15.8667	0.3460
55	19:01:41	0.1194	0.1190	15.8667	0.3460
56	19:31:43	0.1194	0.1190	15.8667	0.3460
57	20:01:46	0.1194	0.1190	15.8667	0.3460
58	20:29:47	0.1194	0.1190	15.8667	0.3460

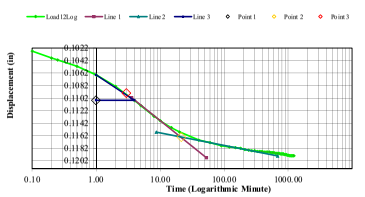
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 12) Load 16.000 tsf

Consolidation Graph (Squareroot Time)



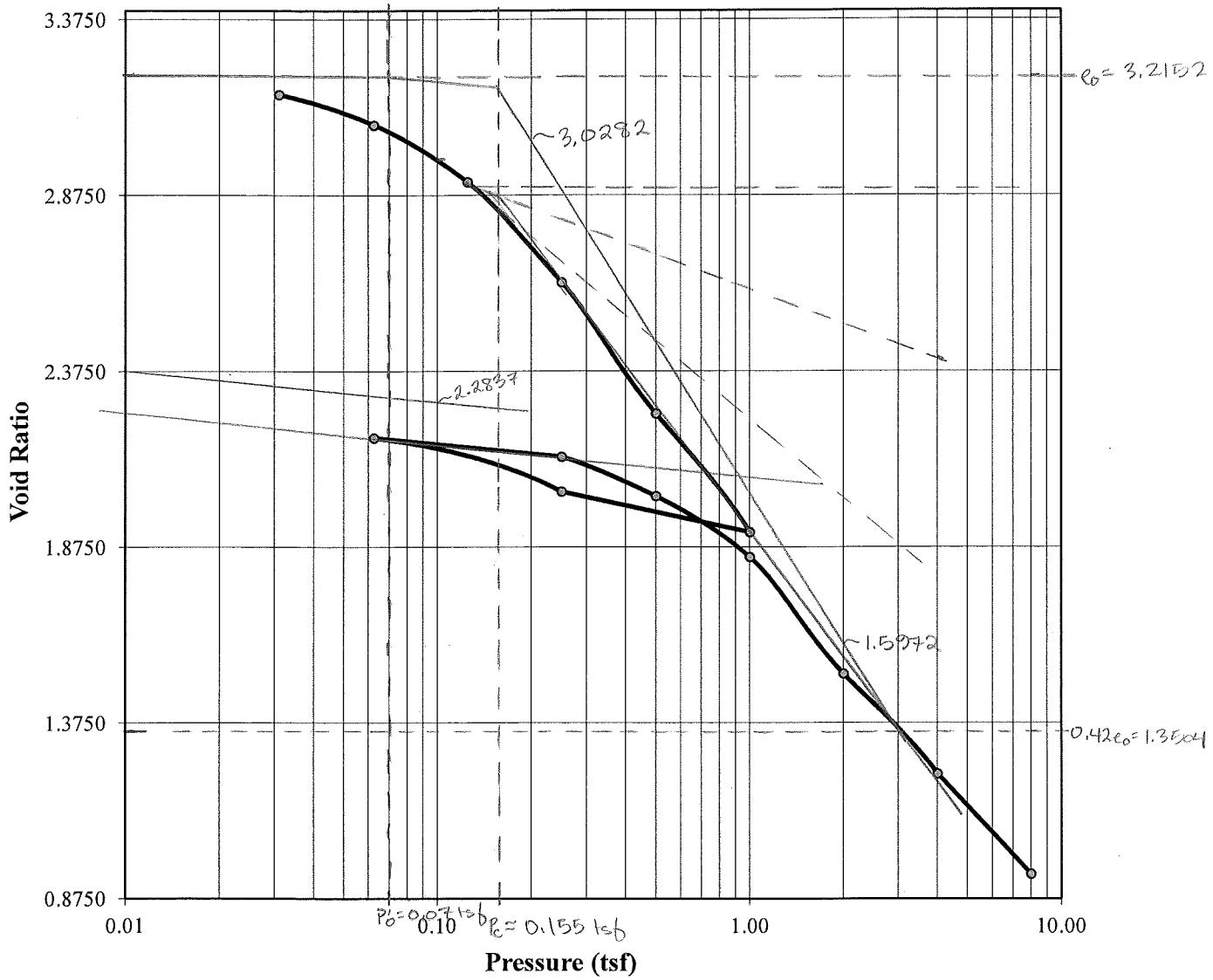
Consolidation Graph (Logarithmic Time)



63 ticks = 0.5
(60 ticks = 1")

GEOENGINEERS

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	125	**Test Date:**	17 Oct 11
Moisture (%):	149.33	52.29	**Plastic Limits:**	48		
Dry Density (pcf):	32.99	57.51	**Plasticity Index (%):**	77		
Saturation (%):	103.41	82.06				
Void Ratio:	3.2152	0.9452	**Specific Gravity:**	2.231	Measured	

Soil Description: Organic Clay (OH)

$0.42e_0$ = 1.3504

Project Number: 16715-023-00 **Depth:** 10 - 12 feet

Sample Number: **Boring Number:** 6

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

Remarks: γ = 2.4933 (32.99) = 82.25 pcf
Mudline at 4' depth
γ_{avg} = [(87.3 + 80.9 + 78.9) + 82.25]/7
≈ 82.4 pcf
γ_{avg} ≈ 20.0 pcf

P'_0 = 20 pcf (7 ft) = 140 psf
= 0.07 tsf

$OCR = \frac{0.155}{0.07} = 2.21$

$C_c = \frac{3.0282 - 1.5972}{\log(2/0.2)} = \underline{1.431}$

$CR = \frac{1.431}{4.2152} = \underline{0.3395}$

$C_r = \frac{2.375 - 2.2837}{\log(0.1/0.01)} = \underline{0.0913}$

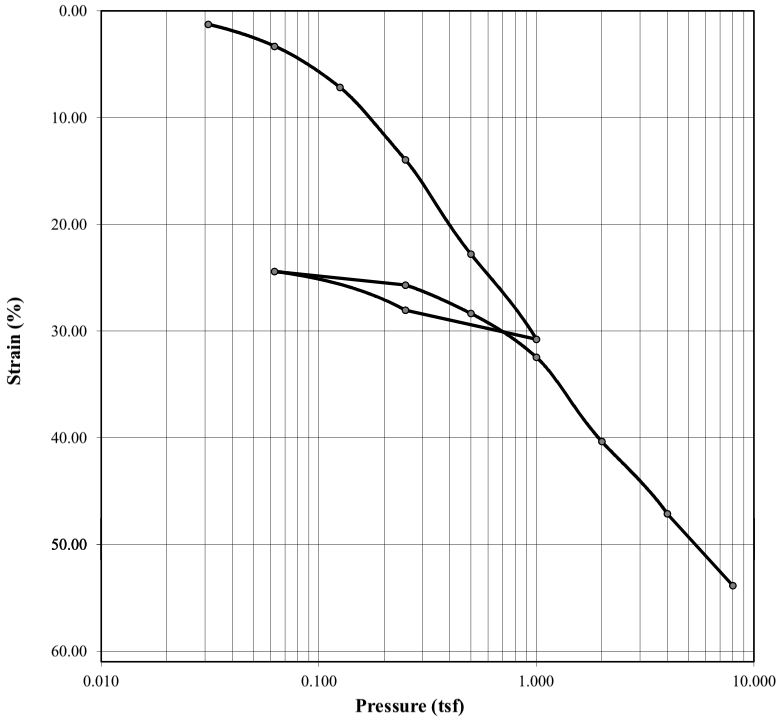
$RR = \frac{0.0913}{4.2152} = \underline{0.0217}$

C_{v90} @ P'_0 = 9.34 ft²/yr
= 0.026 ft²/day
≈ 0.03 ft²/day

C_{v90} @ P_c ≈ 10 ft²/yr
= 0.027 ft²/day
≈ 0.03 ft²/day

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	149.33	52.29	**Liquid Limits:**	125	**Test Date:**	17 Oct 11
Dry Density (pcf):	32.99	57.51	**Plastic Limits:**	48		
Saturation (%):	103.41	82.06	**Plasticity Index (%):**	77		
Void Ratio:	3.2152	0.9452	**Specific Gravity:**	2.231	Measured	

Sample Description: Organic Clay (OH)

Project Number: 16715-023-00 **Depth:** 10 - 12 feet **Remarks:**

Sample Number: **Boring Number:** 6

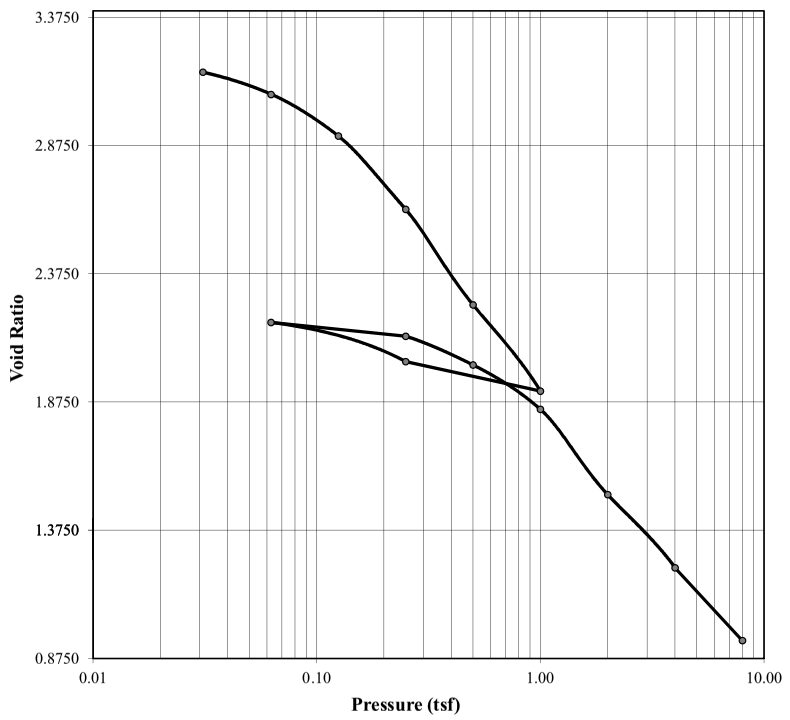
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	149.33	52.29	**Liquid Limits:**	125	**Test Date:**	17 Oct 11
Dry Density (pcf):	32.99	57.51	**Plastic Limits:**	48		
Saturation (%):	103.41	82.06	**Plasticity Index (%):**	77		
Void Ratio:	3.2152	0.9452	**Specific Gravity:**	2.231	Measured	

Soil Description: Organic Clay (OH)

Project Number: 16715-023-00 **Depth:** 10 - 12 feet **Remarks:**

Sample Number: **Boring Number:** 6

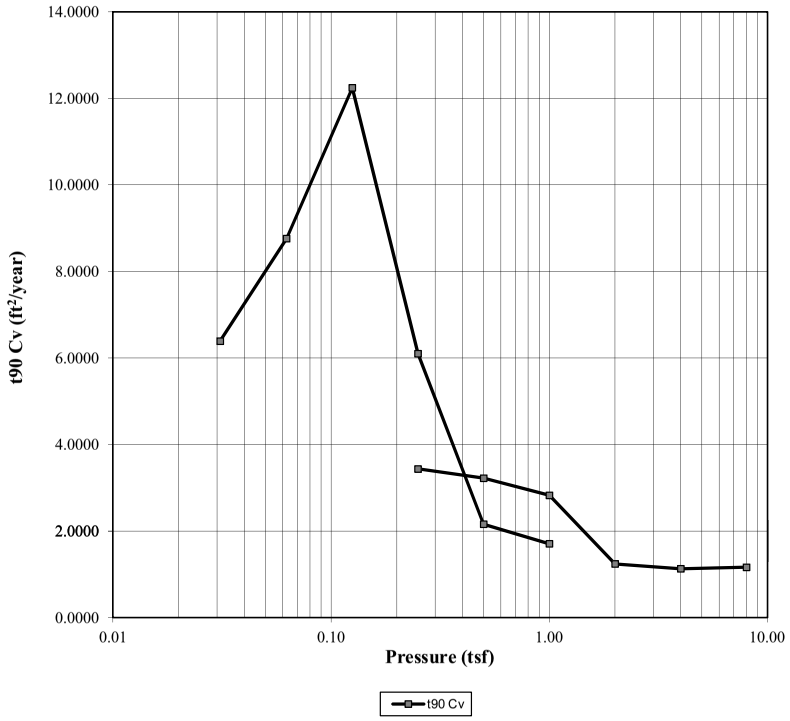
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	149.33	52.29	**Liquid Limits:**	125	**Test Date:**	17 Oct 11
Dry Density (pcf):	32.99	57.51	**Plastic Limits:**	48		
Saturation (%):	103.41	82.06	**Plasticity Index (%):**	77		
Void Ratio:	3.2152	0.9452	**Specific Gravity:**	2.231	Measured	

Soil Description: Organic Clay (OH)

Project Number: 16715-023-00 **Depth:** 10 - 12 feet **Remarks:**

Sample Number: **Boring Number:** 6

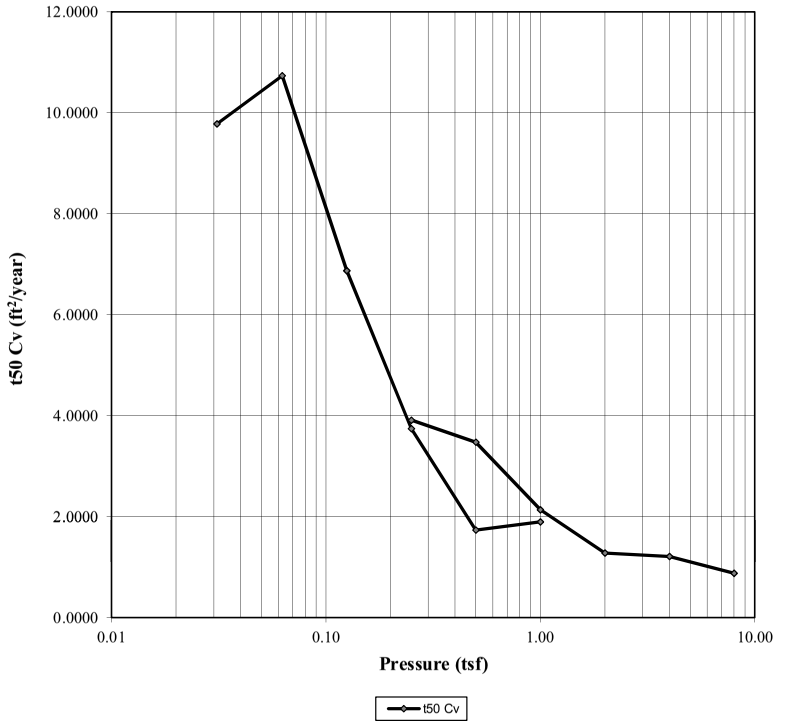
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	149.33	52.29	**Liquid Limits:**	125	**Test Date:**	17 Oct 11
Dry Density (pcf):	32.99	57.51	**Plastic Limits:**	48		
Saturation (%):	103.41	82.06	**Plasticity Index (%):**	77		
Void Ratio:	3.2152	0.9452	**Specific Gravity:**	2.231	Measured	

Soil Description: Organic Clay (OH)

Project Number: 16715-023-00 **Depth:** 10 - 12 feet **Remarks:**

Sample Number: **Boring Number:** 6

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

Sample Number: **Sample Description:**
Boring Number: 6 Organic Clay (OH)
Depth: 10 - 12 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 17 Oct 11

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	0.7500	0.5720	0.00	3.2143	0.000	0.000	0.000	0.000
1	0.031	0.0094	0.7406	0.5626	1.25	3.1614	66.409	10.081	6.391	9.780
2	0.063	0.0249	0.7251	0.5471	3.32	3.0743	46.454	8.805	8.758	10.734
3	0.125	0.0537	0.6963	0.5183	7.16	2.9125	30.644	12.682	12.243	6.872
4	0.250	0.1046	0.6454	0.4674	13.95	2.6265	52.846	19.999	6.099	3.744
5	0.500	0.1709	0.5791	0.4011	22.79	2.2540	120.188	34.754	2.159	1.735
6	1.000	0.2308	0.5192	0.3412	30.77	1.9174	122.238	25.551	1.706	1.897
7	0.250	0.2103	0.5397	0.3617	28.04	2.0326	0.000	0.000	0.000	0.000
8	0.063	0.1831	0.5669	0.3889	24.41	2.1854	0.000	0.000	0.000	0.000
9	0.250	0.1927	0.5573	0.3793	25.69	2.1315	69.920	14.271	3.437	3.912
10	0.500	0.2126	0.5374	0.3594	28.35	2.0197	69.325	14.937	3.224	3.476
11	1.000	0.2434	0.5066	0.3286	32.45	1.8466	70.231	21.599	2.828	2.136
12	2.000	0.3026	0.4474	0.2694	40.35	1.5139	124.748	28.125	1.242	1.279
13	4.000	0.3534	0.3966	0.2186	47.12	1.2285	107.795	23.330	1.129	1.212
14	8.000	0.4039	0.3461	0.1681	53.85	0.9447	79.606	24.502	1.164	0.879

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11

Sample Number: **Sample Description:**
Boring Number: 6 Organic Clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 125.0000 **Initial Void Ratio:** 3.2152 **Initial Height (in):** 0.7500
Plastic Limit: 48.0000 **Plasticity Index (%):** 77.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.2310 **Weight of Ring (g):** 107.0000
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	126.08	70.16
Dry Soil + Container (g)	66.96	53.80
Weight of Container (g)	27.37	22.51
Moisture Content (%)	149.33	52.29
Void Ratio	3.2152	0.9452
Saturation (%)	103.41	82.06
Dry Density (pcf)	32.99	57.51

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 17 Oct 11
Test Number:

Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

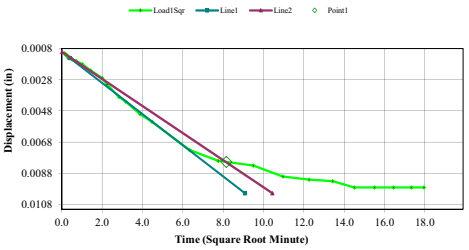
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0003	0.0000	0.0000	3.2152
1	00:00:01	0.0011	0.0008	0.1067	3.2107
2	00:00:02	0.0012	0.0009	0.1200	3.2102
3	00:00:03	0.0012	0.0009	0.1200	3.2102
4	00:00:04	0.0013	0.0010	0.1333	3.2096
5	00:00:05	0.0013	0.0010	0.1333	3.2096
6	00:00:06	0.0014	0.0011	0.1467	3.2090
7	00:00:12	0.0014	0.0011	0.1467	3.2090
8	00:00:15	0.0015	0.0012	0.1600	3.2085
9	00:00:30	0.0016	0.0013	0.1733	3.2079
10	00:01:00	0.0018	0.0015	0.2000	3.2068
11	00:02:00	0.0022	0.0019	0.2533	3.2046
12	00:04:00	0.0027	0.0024	0.3200	3.2017
13	00:05:00	0.0031	0.0028	0.3733	3.1995
14	00:08:01	0.0039	0.0036	0.4800	3.1950
15	00:10:01	0.0042	0.0039	0.5200	3.1933
16	00:15:01	0.0050	0.0047	0.6267	3.1888
17	00:20:01	0.0055	0.0052	0.6933	3.1860
18	00:40:02	0.0073	0.0070	0.9333	3.1759
19	01:00:04	0.0080	0.0077	1.0267	3.1720
20	01:30:06	0.0083	0.0080	1.0667	3.1703
21	02:00:08	0.0090	0.0087	1.1600	3.1663
22	02:30:11	0.0092	0.0089	1.1867	3.1652
23	03:00:13	0.0093	0.0090	1.2000	3.1646
24	03:30:15	0.0097	0.0094	1.2533	3.1624
25	04:00:18	0.0097	0.0094	1.2533	3.1624
26	04:30:20	0.0097	0.0094	1.2533	3.1624
27	05:00:22	0.0097	0.0094	1.2533	3.1624
28	05:22:14	0.0097	0.0094	1.2533	3.1624

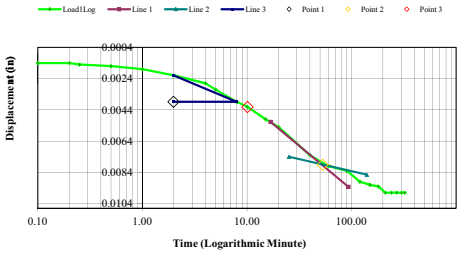
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 17 Oct 11
Test Number:

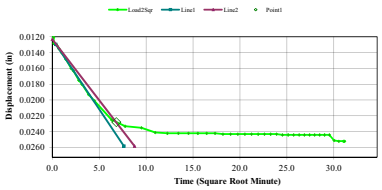
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

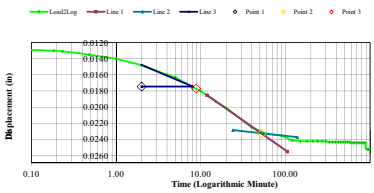
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0097	0.0094	1.2533	3.1624
1	00:00:00	0.0100	0.0097	1.2933	3.1607
2	00:00:01	0.0121	0.0118	1.5733	3.1489
3	00:00:02	0.0128	0.0125	1.6667	3.1450
4	00:00:03	0.0129	0.0126	1.6800	3.1444
5	00:00:04	0.0129	0.0126	1.6800	3.1444
6	00:00:05	0.0129	0.0126	1.6800	3.1444
7	00:00:11	0.0130	0.0127	1.6933	3.1439
8	00:00:14	0.0131	0.0128	1.7067	3.1433
9	00:00:29	0.0135	0.0132	1.7600	3.1410
10	00:01:00	0.0140	0.0137	1.8267	3.1382
11	00:02:00	0.0148	0.0145	1.9333	3.1337
12	00:04:00	0.0160	0.0157	2.0933	3.1270
13	00:05:00	0.0163	0.0160	2.1333	3.1253
14	00:08:00	0.0175	0.0172	2.2933	3.1186
15	00:10:00	0.0180	0.0177	2.3600	3.1158
16	00:15:01	0.0193	0.0190	2.5333	3.1084
17	00:20:01	0.0201	0.0198	2.6400	3.1039
18	00:40:02	0.0225	0.0222	2.9600	3.0905
19	01:00:04	0.0233	0.0230	3.0667	3.0860
20	01:30:06	0.0235	0.0232	3.0933	3.0848
21	02:00:09	0.0241	0.0238	3.1733	3.0815
22	02:30:11	0.0242	0.0239	3.1867	3.0809
23	03:00:13	0.0242	0.0239	3.1867	3.0809
24	03:30:16	0.0242	0.0239	3.1867	3.0809
25	04:00:18	0.0242	0.0239	3.1867	3.0809
26	04:30:20	0.0242	0.0239	3.1867	3.0809
27	05:00:22	0.0242	0.0239	3.1867	3.0809
28	05:30:25	0.0243	0.0240	3.2000	3.0803
29	06:00:27	0.0243	0.0240	3.2000	3.0803
30	06:30:29	0.0243	0.0240	3.2000	3.0803
31	07:00:32	0.0243	0.0240	3.2000	3.0803
32	07:30:34	0.0243	0.0240	3.2000	3.0803
33	08:00:36	0.0243	0.0240	3.2000	3.0803
34	08:30:39	0.0243	0.0240	3.2000	3.0803
35	09:00:41	0.0243	0.0240	3.2000	3.0803
36	09:30:43	0.0243	0.0240	3.2000	3.0803
37	10:00:46	0.0244	0.0241	3.2133	3.0798
38	10:30:48	0.0244	0.0241	3.2133	3.0798
39	11:00:50	0.0244	0.0241	3.2133	3.0798
40	11:30:52	0.0244	0.0241	3.2133	3.0798
41	12:00:55	0.0244	0.0241	3.2133	3.0798
42	12:30:57	0.0244	0.0241	3.2133	3.0798
43	13:00:59	0.0244	0.0241	3.2133	3.0798
44	13:31:02	0.0244	0.0241	3.2133	3.0798
45	14:01:04	0.0244	0.0241	3.2133	3.0798
46	14:31:06	0.0244	0.0241	3.2133	3.0798
47	15:01:08	0.0251	0.0248	3.3067	3.0758
48	15:31:11	0.0252	0.0249	3.3200	3.0753
49	16:01:13	0.0252	0.0249	3.3200	3.0753
50	16:09:09	0.0252	0.0249	3.3200	3.0753

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 17 Oct 11
Test Number:

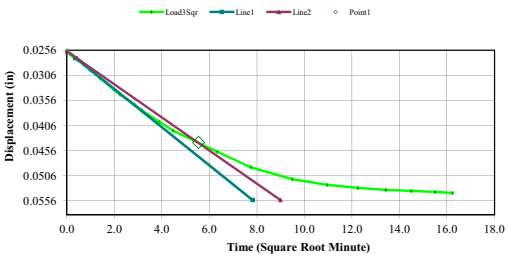
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

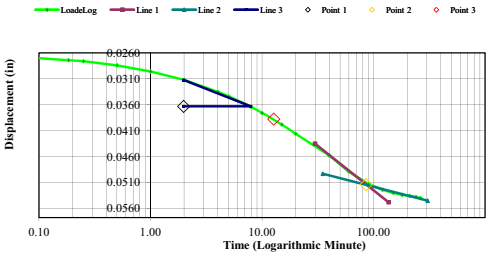
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0252	0.0249	3.3200	3.0753
1	00:00:00	0.0257	0.0254	3.3867	3.0725
2	00:00:01	0.0263	0.0260	3.4667	3.0691
3	00:00:02	0.0265	0.0262	3.4933	3.0680
4	00:00:03	0.0266	0.0263	3.5067	3.0674
5	00:00:04	0.0268	0.0265	3.5333	3.0663
6	00:00:05	0.0269	0.0266	3.5467	3.0657
7	00:00:11	0.0274	0.0271	3.6133	3.0629
8	00:00:15	0.0276	0.0273	3.6400	3.0618
9	00:00:30	0.0284	0.0281	3.7467	3.0573
10	00:01:00	0.0296	0.0293	3.9067	3.0506
11	00:02:00	0.0312	0.0309	4.1200	3.0416
12	00:04:00	0.0335	0.0332	4.4267	3.0286
13	00:05:00	0.0344	0.0341	4.5467	3.0236
14	00:08:00	0.0364	0.0361	4.8133	3.0123
15	00:09:59	0.0376	0.0373	4.9733	3.0056
16	00:14:59	0.0398	0.0395	5.2667	2.9932
17	00:19:59	0.0416	0.0413	5.5067	2.9831
18	00:39:59	0.0458	0.0455	6.0667	2.9595
19	01:00:01	0.0489	0.0486	6.4800	2.9421
20	01:30:03	0.0513	0.0510	6.8000	2.9286
21	02:00:05	0.0524	0.0521	6.9467	2.9224
22	02:30:07	0.0530	0.0527	7.0267	2.9190
23	03:00:10	0.0534	0.0531	7.0800	2.9168
24	03:30:12	0.0536	0.0533	7.1067	2.9157
25	04:00:14	0.0538	0.0535	7.1333	2.9145
26	04:23:13	0.0540	0.0537	7.1600	2.9134

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 17 Oct 11
Test Number:

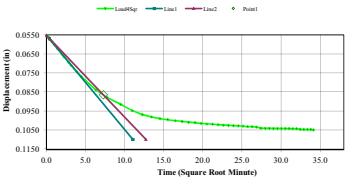
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

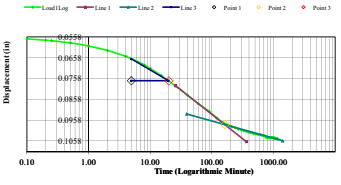
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0540	0.0537	7.1600	2.9134
1	00:00:01	0.0552	0.0549	7.3200	2.9067
2	00:00:02	0.0556	0.0553	7.3733	2.9044
3	00:00:03	0.0561	0.0558	7.4400	2.9016
4	00:00:04	0.0563	0.0560	7.4667	2.9005
5	00:00:05	0.0565	0.0562	7.4933	2.8994
6	00:00:06	0.0567	0.0564	7.5200	2.8982
7	00:00:12	0.0573	0.0570	7.6000	2.8949
8	00:00:15	0.0576	0.0573	7.6400	2.8932
9	00:00:30	0.0586	0.0583	7.7733	2.8876
10	00:01:00	0.0601	0.0598	7.9733	2.8791
11	00:02:00	0.0622	0.0619	8.2533	2.8673
12	00:04:00	0.0651	0.0648	8.6400	2.8510
13	00:05:00	0.0664	0.0661	8.8133	2.8437
14	00:08:00	0.0693	0.0690	9.2000	2.8274
15	00:10:01	0.0710	0.0707	9.4267	2.8179
16	00:15:01	0.0743	0.0740	9.8667	2.7993
17	00:20:01	0.0769	0.0766	10.2133	2.7847
18	00:40:03	0.0839	0.0836	11.1467	2.7454
19	01:00:04	0.0879	0.0876	11.6800	2.7229
20	01:30:07	0.0915	0.0912	12.1600	2.7027
21	02:00:09	0.0948	0.0945	12.6000	2.6841
22	02:30:11	0.0969	0.0966	12.8800	2.6723
23	03:00:14	0.0981	0.0978	13.0400	2.6656
24	03:30:16	0.0990	0.0987	13.1600	2.6605
25	04:00:18	0.0995	0.0992	13.2267	2.6577
26	04:30:20	0.1001	0.0998	13.3067	2.6543
27	05:00:23	0.1005	0.1002	13.3600	2.6521
28	05:30:25	0.1009	0.1006	13.4133	2.6498
29	06:00:27	0.1011	0.1008	13.4400	2.6487
30	06:30:30	0.1015	0.1012	13.4933	2.6465
31	07:00:32	0.1018	0.1015	13.5333	2.6448
32	07:30:34	0.1019	0.1016	13.5467	2.6442
33	08:00:36	0.1022	0.1019	13.5867	2.6425
34	08:30:39	0.1024	0.1021	13.6133	2.6414
35	09:00:41	0.1025	0.1022	13.6267	2.6408
36	09:30:43	0.1027	0.1024	13.6533	2.6397
37	10:00:46	0.1028	0.1025	13.6667	2.6391
38	10:30:48	0.1029	0.1026	13.6800	2.6386
39	11:00:50	0.1032	0.1029	13.7200	2.6369
40	11:30:52	0.1032	0.1029	13.7200	2.6369
41	12:00:55	0.1034	0.1031	13.7467	2.6358
42	12:30:57	0.1040	0.1037	13.8267	2.6324
43	13:00:59	0.1041	0.1038	13.8400	2.6318
44	13:31:02	0.1041	0.1038	13.8400	2.6318
45	14:01:04	0.1042	0.1039	13.8533	2.6313
46	14:31:06	0.1042	0.1039	13.8533	2.6313
47	15:01:08	0.1042	0.1039	13.8533	2.6313
48	15:31:11	0.1042	0.1039	13.8533	2.6313
49	16:01:13	0.1042	0.1039	13.8533	2.6313
50	16:31:15	0.1043	0.1040	13.8667	2.6307
51	17:01:18	0.1043	0.1040	13.8667	2.6307
52	17:31:20	0.1046	0.1043	13.9067	2.6290
53	18:01:22	0.1047	0.1044	13.9200	2.6285
54	18:31:24	0.1047	0.1044	13.9200	2.6285
55	19:01:27	0.1047	0.1044	13.9200	2.6285
56	19:23:55	0.1049	0.1046	13.9467	2.6273

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

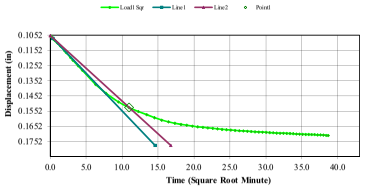
Sample Number: **Soil Description:**
Boring Number: 6 Organic Clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1049	0.1046	13.9467	2.6273
1	00:00:01	0.1059	0.1056	14.0800	2.6217
2	00:00:02	0.1063	0.1060	14.1333	2.6195
3	00:00:03	0.1065	0.1062	14.1600	2.6184
4	00:00:04	0.1067	0.1064	14.1867	2.6172
5	00:00:05	0.1068	0.1065	14.2000	2.6167
6	00:00:06	0.1070	0.1067	14.2267	2.6155
7	00:00:12	0.1076	0.1073	14.3067	2.6122
8	00:00:15	0.1079	0.1076	14.3467	2.6105
9	00:00:30	0.1089	0.1086	14.4800	2.6049
10	00:01:00	0.1103	0.1100	14.6667	2.5970
11	00:02:00	0.1123	0.1120	14.9333	2.5858
12	00:04:00	0.1154	0.1151	15.3467	2.5683
13	00:05:00	0.1167	0.1164	15.5200	2.5610
14	00:08:00	0.1199	0.1196	15.9467	2.5430
15	00:10:01	0.1217	0.1214	16.1867	2.5329
16	00:15:01	0.1253	0.1250	16.6667	2.5127
17	00:20:01	0.1283	0.1280	17.0667	2.4958
18	00:40:03	0.1377	0.1374	18.3200	2.4430
19	01:00:04	0.1434	0.1431	19.0800	2.4110
20	01:30:07	0.1491	0.1488	19.8400	2.3789
21	02:00:09	0.1529	0.1526	20.3467	2.3576
22	02:30:11	0.1554	0.1551	20.6800	2.3435
23	03:00:14	0.1575	0.1572	20.9600	2.3317
24	03:30:16	0.1595	0.1592	21.2267	2.3205
25	04:00:18	0.1611	0.1608	21.4400	2.3115
26	04:30:20	0.1622	0.1619	21.5867	2.3053
27	05:00:23	0.1631	0.1628	21.7067	2.3002
28	05:30:25	0.1639	0.1636	21.8133	2.2957
29	06:00:27	0.1644	0.1641	21.8800	2.2929
30	06:30:30	0.1650	0.1647	21.9600	2.2896
31	07:00:32	0.1655	0.1652	22.0267	2.2868
32	07:30:34	0.1658	0.1655	22.0667	2.2851
33	08:00:36	0.1662	0.1659	22.1200	2.2828
34	08:30:39	0.1665	0.1662	22.1600	2.2811
35	09:00:41	0.1668	0.1665	22.2000	2.2794
36	09:30:43	0.1672	0.1669	22.2533	2.2772
37	10:00:46	0.1674	0.1671	22.2800	2.2761
38	10:30:48	0.1676	0.1673	22.3067	2.2750
39	11:00:50	0.1679	0.1676	22.3467	2.2733
40	11:30:52	0.1681	0.1678	22.3733	2.2721
41	12:00:54	0.1682	0.1679	22.3867	2.2716
42	12:30:56	0.1684	0.1681	22.4133	2.2705
43	13:00:59	0.1686	0.1683	22.4400	2.2693
44	13:31:01	0.1688	0.1685	22.4667	2.2682
45	14:01:03	0.1689	0.1686	22.4800	2.2676
46	14:31:06	0.1690	0.1687	22.4933	2.2671
47	15:01:08	0.1691	0.1688	22.5067	2.2665
48	15:31:10	0.1693	0.1690	22.5333	2.2654
49	16:01:12	0.1694	0.1691	22.5467	2.2648
50	16:31:15	0.1696	0.1693	22.5733	2.2637
51	17:01:17	0.1697	0.1694	22.5867	2.2632
52	17:31:19	0.1697	0.1694	22.5867	2.2632
53	18:01:22	0.1698	0.1695	22.6000	2.2626
54	18:31:24	0.1699	0.1696	22.6133	2.2620
55	19:01:26	0.1700	0.1697	22.6267	2.2615
56	19:31:28	0.1702	0.1699	22.6533	2.2603
57	20:01:31	0.1703	0.1700	22.6667	2.2598
58	20:31:33	0.1704	0.1701	22.6800	2.2592
59	21:01:35	0.1705	0.1702	22.6933	2.2587
60	21:31:38	0.1705	0.1702	22.6933	2.2587
61	22:01:40	0.1706	0.1703	22.7067	2.2581
62	22:31:42	0.1706	0.1703	22.7067	2.2581
63	23:01:45	0.1708	0.1705	22.7333	2.2570
64	23:31:47	0.1708	0.1705	22.7333	2.2570
65	24:01:49	0.1709	0.1706	22.7467	2.2564
66	24:31:52	0.1711	0.1708	22.7733	2.2553
67	24:53:41	0.1712	0.1709	22.7867	2.2547

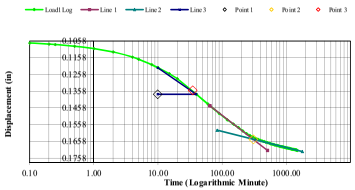
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

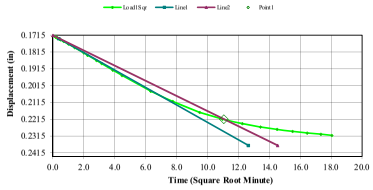
Sample Number: **Soil Description:**
Boring Number: 6 Organic Clay (OH)
Depth: 10 - 12 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1712	0.1709	22.7867	2.2547
1	00:00:01	0.1722	0.1719	22.9200	2.2491
2	00:00:02	0.1726	0.1723	22.9733	2.2469
3	00:00:03	0.1728	0.1725	23.0000	2.2457
4	00:00:04	0.1730	0.1727	23.0267	2.2446
5	00:00:05	0.1731	0.1728	23.0400	2.2440
6	00:00:06	0.1732	0.1729	23.0533	2.2435
7	00:00:12	0.1739	0.1736	23.1467	2.2395
8	00:00:15	0.1742	0.1739	23.1867	2.2379
9	00:00:30	0.1752	0.1749	23.3200	2.2322
10	00:01:00	0.1767	0.1764	23.5200	2.2238
11	00:02:00	0.1789	0.1786	23.8133	2.2114
12	00:04:00	0.1820	0.1817	24.2267	2.1940
13	00:05:00	0.1834	0.1831	24.4133	2.1862
14	00:08:00	0.1866	0.1863	24.8400	2.1682
15	00:10:00	0.1884	0.1881	25.0800	2.1581
16	00:15:01	0.1923	0.1920	25.6000	2.1361
17	00:20:01	0.1955	0.1952	26.0267	2.1181
18	00:40:03	0.2048	0.2045	27.2667	2.0659
19	01:00:04	0.2109	0.2106	28.0800	2.0316
20	01:30:07	0.2174	0.2171	28.9467	1.9951
21	02:00:09	0.2214	0.2211	29.4800	1.9726
22	02:30:11	0.2241	0.2238	29.8400	1.9574
23	03:00:13	0.2261	0.2258	30.1067	1.9462
24	03:30:16	0.2275	0.2272	30.2933	1.9383
25	04:00:18	0.2287	0.2284	30.4533	1.9316
26	04:30:20	0.2297	0.2294	30.5867	1.9259
27	05:00:22	0.2304	0.2301	30.6800	1.9220
28	05:25:24	0.2311	0.2308	30.7733	1.9181

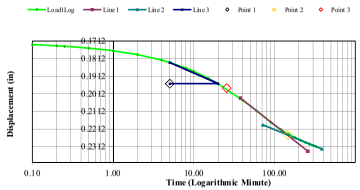
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

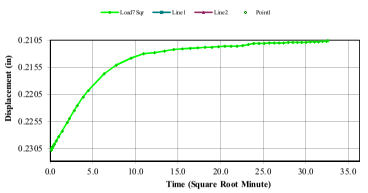
Soil Description: Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2311	0.2308	30.7733	1.9181
1	00:00:01	0.2308	0.2305	30.7333	1.9198
2	00:00:02	0.2305	0.2302	30.6933	1.9214
3	00:00:03	0.2304	0.2301	30.6800	1.9220
4	00:00:04	0.2303	0.2300	30.6667	1.9226
5	00:00:05	0.2302	0.2299	30.6533	1.9231
6	00:00:06	0.2301	0.2298	30.6400	1.9237
7	00:00:12	0.2298	0.2295	30.6000	1.9254
8	00:00:15	0.2297	0.2294	30.5867	1.9259
9	00:00:30	0.2291	0.2288	30.5067	1.9293
10	00:01:01	0.2283	0.2280	30.4000	1.9338
11	00:02:01	0.2273	0.2270	30.2667	1.9394
12	00:04:01	0.2257	0.2254	30.0533	1.9484
13	00:05:01	0.2250	0.2247	29.9600	1.9523
14	00:08:01	0.2235	0.2232	29.7600	1.9608
15	00:10:01	0.2226	0.2223	29.6400	1.9658
16	00:15:02	0.2210	0.2207	29.4267	1.9748
17	00:20:02	0.2198	0.2195	29.2667	1.9816
18	00:40:03	0.2167	0.2164	28.8533	1.9990
19	01:00:05	0.2151	0.2148	28.6400	2.0080
20	01:30:07	0.2138	0.2135	28.4667	2.0153
21	02:00:10	0.2130	0.2127	28.3600	2.0198
22	02:30:12	0.2128	0.2125	28.3333	2.0209
23	03:00:14	0.2125	0.2122	28.2933	2.0226
24	03:30:16	0.2122	0.2119	28.2533	2.0243
25	04:00:19	0.2121	0.2118	28.2400	2.0249
26	04:30:21	0.2120	0.2117	28.2267	2.0254
27	05:00:23	0.2119	0.2116	28.2133	2.0260
28	05:30:25	0.2118	0.2115	28.2000	2.0265
29	06:00:28	0.2118	0.2115	28.2000	2.0265
30	06:30:30	0.2117	0.2114	28.1867	2.0271
31	07:00:32	0.2116	0.2113	28.1733	2.0277
32	07:30:35	0.2116	0.2113	28.1733	2.0277
33	08:00:37	0.2116	0.2113	28.1733	2.0277
34	08:30:39	0.2115	0.2112	28.1600	2.0282
35	09:00:41	0.2113	0.2110	28.1333	2.0293
36	09:30:44	0.2111	0.2108	28.1067	2.0305
37	10:00:46	0.2111	0.2108	28.1067	2.0305
38	10:30:48	0.2111	0.2108	28.1067	2.0305
39	11:00:50	0.2110	0.2107	28.0933	2.0310
40	11:30:53	0.2110	0.2107	28.0933	2.0310
41	12:00:55	0.2110	0.2107	28.0933	2.0310
42	12:30:57	0.2110	0.2107	28.0933	2.0310
43	13:01:00	0.2109	0.2106	28.0800	2.0316
44	13:31:02	0.2109	0.2106	28.0800	2.0316
45	14:01:04	0.2109	0.2106	28.0800	2.0316
46	14:31:06	0.2109	0.2106	28.0800	2.0316
47	15:01:09	0.2109	0.2106	28.0800	2.0316
48	15:31:11	0.2108	0.2105	28.0667	2.0322
49	16:01:13	0.2108	0.2105	28.0667	2.0322
50	16:31:16	0.2108	0.2105	28.0667	2.0322
51	17:01:18	0.2107	0.2104	28.0533	2.0327
52	17:31:20	0.2107	0.2104	28.0533	2.0327
53	17:42:13	0.2106	0.2103	28.0400	2.0333

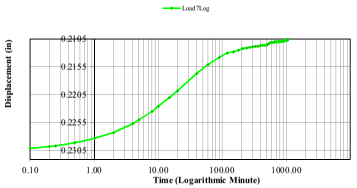
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

Sample Number
Boring Number 6
Depth: 10 - 12 feet
Sample Type Undisturbed

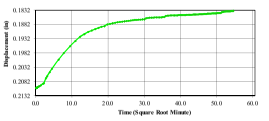
Soil Description Organic Clay (OH)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	000000	0.2106	0.2103	28.0400	2.0353
1	000001	0.2104	0.2101	28.0133	2.0364
2	000002	0.2104	0.2101	28.0133	2.0364
3	000003	0.2104	0.2101	28.0133	2.0364
4	000004	0.2104	0.2101	28.0133	2.0364
5	000005	0.2104	0.2101	28.0133	2.0364
6	000006	0.2103	0.2100	28.0000	2.0370
7	000012	0.2101	0.2098	27.9733	2.0381
8	000015	0.2101	0.2098	27.9733	2.0381
9	000030	0.2099	0.2096	27.9467	2.0372
10	000100	0.2098	0.2095	27.9333	2.0378
11	000200	0.2095	0.2092	27.8933	2.0395
12	000400	0.2089	0.2086	27.8133	2.0428
13	000700	0.2088	0.2085	27.8000	2.0434
14	000800	0.2070	0.2067	27.5600	2.0553
15	001000	0.2063	0.2060	27.4667	2.0574
16	001500	0.2049	0.2046	27.2800	2.0653
17	002000	0.2037	0.2034	27.1200	2.0721
18	003959	0.2005	0.2002	26.6933	2.0900
19	005959	0.1982	0.1979	26.3867	2.1030
20	012959	0.1958	0.1955	26.0667	2.1165
21	015959	0.1940	0.1937	25.8267	2.1266
22	023001	0.1925	0.1922	25.6267	2.1350
23	030002	0.1916	0.1913	25.5067	2.1401
24	033004	0.1908	0.1905	25.4000	2.1446
25	040007	0.1903	0.1900	25.3333	2.1474
26	043009	0.1898	0.1895	25.2667	2.1502
27	050011	0.1894	0.1891	25.2133	2.1524
28	053014	0.1890	0.1887	25.1600	2.1547
29	060016	0.1888	0.1885	25.1333	2.1558
30	065018	0.1882	0.1879	25.0533	2.1592
31	070020	0.1880	0.1877	25.0267	2.1603
32	073023	0.1878	0.1875	25.0000	2.1614
33	080025	0.1876	0.1873	24.9733	2.1625
34	083027	0.1874	0.1871	24.9467	2.1637
35	090029	0.1873	0.1870	24.9333	2.1642
36	093032	0.1872	0.1869	24.9200	2.1648
37	100034	0.1871	0.1868	24.9067	2.1654
38	103036	0.1870	0.1867	24.8933	2.1659
39	110039	0.1869	0.1866	24.8800	2.1665
40	113041	0.1868	0.1865	24.8667	2.1670
41	120043	0.1867	0.1864	24.8533	2.1676
42	123046	0.1866	0.1863	24.8400	2.1682
43	130048	0.1866	0.1863	24.8400	2.1682
44	133050	0.1865	0.1862	24.8267	2.1687
45	140053	0.1865	0.1862	24.8267	2.1687
46	143055	0.1864	0.1861	24.8133	2.1693
47	150057	0.1864	0.1861	24.8133	2.1693
48	153059	0.1860	0.1857	24.7600	2.1715
49	160102	0.1859	0.1856	24.7467	2.1721
50	163104	0.1858	0.1855	24.7333	2.1727
51	170106	0.1858	0.1855	24.7333	2.1727
52	173109	0.1858	0.1855	24.7333	2.1727
53	180111	0.1857	0.1854	24.7200	2.1732
54	183113	0.1857	0.1854	24.7200	2.1732
55	190115	0.1857	0.1854	24.7200	2.1732
56	193118	0.1857	0.1854	24.7200	2.1732
57	200120	0.1857	0.1854	24.7200	2.1732
58	203122	0.1856	0.1853	24.7067	2.1738
59	210124	0.1856	0.1853	24.7067	2.1738
60	213127	0.1852	0.1849	24.6533	2.1760
61	220129	0.1851	0.1848	24.6400	2.1766
62	223131	0.1851	0.1848	24.6400	2.1766
63	230134	0.1850	0.1847	24.6267	2.1772
64	233136	0.1850	0.1847	24.6267	2.1772
65	240138	0.1850	0.1847	24.6267	2.1772
66	243140	0.1850	0.1847	24.6267	2.1772
67	250143	0.1850	0.1847	24.6267	2.1772
68	253145	0.1850	0.1847	24.6267	2.1772
69	260147	0.1849	0.1846	24.6133	2.1777
70	263149	0.1849	0.1846	24.6133	2.1777
71	270152	0.1849	0.1846	24.6133	2.1777
72	273154	0.1849	0.1846	24.6133	2.1777
73	280156	0.1849	0.1846	24.6133	2.1777
74	283159	0.1849	0.1846	24.6133	2.1777
75	290201	0.1848	0.1845	24.6000	2.1783
76	293203	0.1848	0.1845	24.6000	2.1783
77	300205	0.1848	0.1845	24.6000	2.1783
78	303208	0.1848	0.1845	24.6000	2.1783
79	310210	0.1848	0.1845	24.6000	2.1783
80	313212	0.1847	0.1844	24.5867	2.1788
81	320214	0.1847	0.1844	24.5867	2.1788
82	323217	0.1847	0.1844	24.5867	2.1788
83	330219	0.1847	0.1844	24.5867	2.1788
84	333221	0.1847	0.1844	24.5867	2.1788
85	340224	0.1846	0.1843	24.5733	2.1794
86	343226	0.1846	0.1843	24.5733	2.1794
87	350228	0.1846	0.1843	24.5733	2.1794
88	353231	0.1846	0.1843	24.5733	2.1794
89	360233	0.1845	0.1842	24.5600	2.1800
90	363235	0.1845	0.1842	24.5600	2.1800
91	370237	0.1845	0.1842	24.5600	2.1800
92	373240	0.1844	0.1841	24.5467	2.1805
93	380242	0.1844	0.1841	24.5467	2.1805
94	383244	0.1844	0.1841	24.5467	2.1805
95	390246	0.1844	0.1841	24.5467	2.1805
96	393249	0.1843	0.1840	24.5333	2.1811
97	400251	0.1843	0.1840	24.5333	2.1811
98	403253	0.1843	0.1840	24.5333	2.1811
99	410256	0.1843	0.1840	24.5333	2.1811
100	413258	0.1843	0.1840	24.5333	2.1811
101	420300	0.1842	0.1839	24.5200	2.1817
102	423302	0.1842	0.1839	24.5200	2.1817
103	430305	0.1842	0.1839	24.5200	2.1817
104	433307	0.1842	0.1839	24.5200	2.1817
105	440309	0.1839	0.1836	24.4800	2.1833
106	443311	0.1838	0.1835	24.4667	2.1839
107	450314	0.1837	0.1834	24.4533	2.1845
108	453316	0.1837	0.1834	24.4533	2.1845
109	460318	0.1836	0.1833	24.4400	2.1850
110	463321	0.1836	0.1833	24.4400	2.1850
111	470323	0.1836	0.1833	24.4400	2.1850
112	473325	0.1836	0.1833	24.4400	2.1850
113	480327	0.1836	0.1833	24.4400	2.1850
114	483330	0.1835	0.1832	24.4267	2.1856
115	490332	0.1835	0.1832	24.4267	2.1856
116	493334	0.1835	0.1832	24.4267	2.1856
117	493851	0.1834	0.1831	24.4133	2.1862

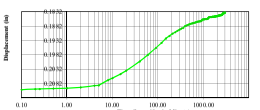
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

Test Date: 17 Oct 11
Test Number:

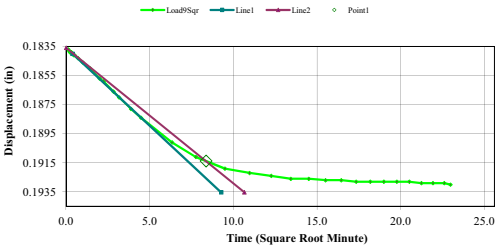
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

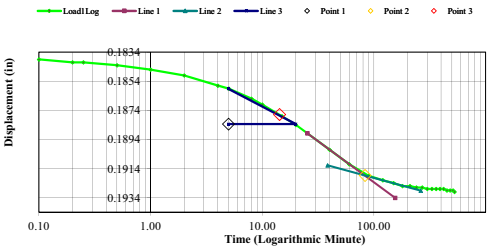
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1834	0.1831	24.4133	2.1862
1	00:00:01	0.1837	0.1834	24.4533	2.1845
2	00:00:02	0.1838	0.1835	24.4667	2.1839
3	00:00:03	0.1839	0.1836	24.4800	2.1833
4	00:00:04	0.1839	0.1836	24.4800	2.1833
5	00:00:05	0.1839	0.1836	24.4800	2.1833
6	00:00:06	0.1839	0.1836	24.4800	2.1833
7	00:00:12	0.1841	0.1838	24.5067	2.1822
8	00:00:15	0.1841	0.1838	24.5067	2.1822
9	00:00:30	0.1843	0.1840	24.5333	2.1811
10	00:01:00	0.1846	0.1843	24.5733	2.1794
11	00:02:00	0.1850	0.1847	24.6267	2.1772
12	00:04:00	0.1857	0.1854	24.7200	2.1732
13	00:05:00	0.1859	0.1856	24.7467	2.1721
14	00:08:00	0.1866	0.1863	24.8400	2.1682
15	00:10:01	0.1870	0.1867	24.8933	2.1659
16	00:15:01	0.1878	0.1875	25.0000	2.1614
17	00:20:01	0.1884	0.1881	25.0800	2.1581
18	00:40:03	0.1901	0.1898	25.3067	2.1485
19	01:00:04	0.1911	0.1908	25.4400	2.1429
20	01:30:07	0.1919	0.1916	25.5467	2.1384
21	02:00:09	0.1922	0.1919	25.5867	2.1367
22	02:30:11	0.1924	0.1921	25.6133	2.1356
23	03:00:13	0.1926	0.1923	25.6400	2.1344
24	03:30:16	0.1926	0.1923	25.6400	2.1344
25	04:00:18	0.1927	0.1924	25.6533	2.1339
26	04:30:20	0.1927	0.1924	25.6533	2.1339
27	05:00:23	0.1928	0.1925	25.6667	2.1333
28	05:30:25	0.1928	0.1925	25.6667	2.1333
29	06:00:27	0.1928	0.1925	25.6667	2.1333
30	06:30:29	0.1928	0.1925	25.6667	2.1333
31	07:00:32	0.1928	0.1925	25.6667	2.1333
32	07:30:34	0.1929	0.1926	25.6800	2.1328
33	08:00:36	0.1929	0.1926	25.6800	2.1328
34	08:30:38	0.1929	0.1926	25.6800	2.1328
35	08:47:14	0.1930	0.1927	25.6933	2.1322

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

Test Date: 17 Oct 11
Test Number:

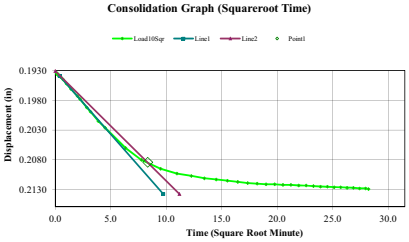
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

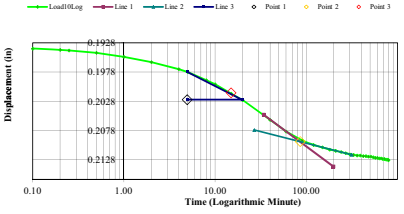
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1930	0.1927	25.6933	2.1322
1	00:00:01	0.1934	0.1931	25.7467	2.1299
2	00:00:02	0.1936	0.1933	25.7733	2.1288
3	00:00:03	0.1937	0.1934	25.7867	2.1283
4	00:00:04	0.1937	0.1934	25.7867	2.1283
5	00:00:05	0.1937	0.1934	25.7867	2.1283
6	00:00:06	0.1938	0.1935	25.8000	2.1277
7	00:00:12	0.1940	0.1937	25.8267	2.1266
8	00:00:15	0.1941	0.1938	25.8400	2.1260
9	00:00:30	0.1945	0.1942	25.8933	2.1238
10	00:01:00	0.1952	0.1949	25.9867	2.1198
11	00:02:00	0.1961	0.1958	26.1067	2.1148
12	00:04:00	0.1973	0.1970	26.2667	2.1080
13	00:05:00	0.1978	0.1975	26.3333	2.1052
14	00:08:01	0.1992	0.1989	26.5200	2.0974
15	00:10:01	0.1999	0.1996	26.6133	2.0934
16	00:15:01	0.2015	0.2012	26.8267	2.0844
17	00:20:01	0.2026	0.2023	26.9733	2.0782
18	00:40:03	0.2060	0.2057	27.4267	2.0591
19	01:00:05	0.2080	0.2077	27.6933	2.0479
20	01:30:07	0.2095	0.2092	27.8933	2.0395
21	02:00:09	0.2103	0.2100	28.0000	2.0350
22	02:30:11	0.2107	0.2104	28.0533	2.0327
23	03:00:14	0.2111	0.2108	28.1067	2.0305
24	03:30:16	0.2113	0.2110	28.1333	2.0293
25	04:00:18	0.2115	0.2112	28.1600	2.0282
26	04:30:21	0.2117	0.2114	28.1867	2.0271
27	05:00:23	0.2119	0.2116	28.2133	2.0260
28	05:30:25	0.2120	0.2117	28.2267	2.0254
29	06:00:27	0.2121	0.2118	28.2400	2.0249
30	06:30:30	0.2121	0.2118	28.2400	2.0249
31	07:00:32	0.2122	0.2119	28.2533	2.0243
32	07:30:34	0.2122	0.2119	28.2533	2.0243
33	08:00:37	0.2123	0.2120	28.2667	2.0237
34	08:30:39	0.2123	0.2120	28.2667	2.0237
35	09:00:41	0.2124	0.2121	28.2800	2.0232
36	09:30:44	0.2125	0.2122	28.2933	2.0226
37	10:00:46	0.2125	0.2122	28.2933	2.0226
38	10:30:48	0.2126	0.2123	28.3067	2.0220
39	11:00:50	0.2126	0.2123	28.3067	2.0220
40	11:30:53	0.2127	0.2124	28.3200	2.0215
41	12:00:55	0.2127	0.2124	28.3200	2.0215
42	12:30:57	0.2128	0.2125	28.3333	2.0209
43	13:01:00	0.2128	0.2125	28.3333	2.0209
44	13:15:56	0.2129	0.2126	28.3467	2.0204

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

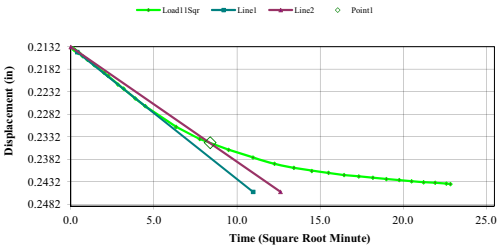
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

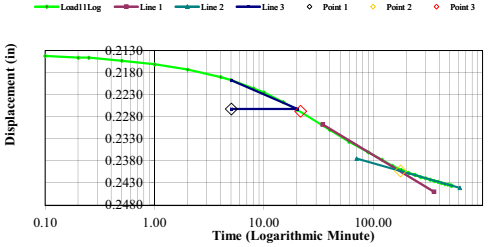
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2129	0.2126	28.3467	2.0204
1	00:00:01	0.2136	0.2133	28.4400	2.0164
2	00:00:02	0.2138	0.2135	28.4667	2.0153
3	00:00:03	0.2139	0.2136	28.4800	2.0147
4	00:00:04	0.2140	0.2137	28.4933	2.0142
5	00:00:05	0.2141	0.2138	28.5067	2.0136
6	00:00:06	0.2142	0.2139	28.5200	2.0130
7	00:00:12	0.2146	0.2143	28.5733	2.0108
8	00:00:15	0.2146	0.2143	28.5733	2.0108
9	00:00:30	0.2153	0.2150	28.6667	2.0069
10	00:01:00	0.2161	0.2158	28.7733	2.0024
11	00:02:00	0.2173	0.2170	28.9333	1.9956
12	00:04:01	0.2190	0.2187	29.1600	1.9861
13	00:05:01	0.2197	0.2194	29.2533	1.9821
14	00:08:01	0.2216	0.2213	29.5067	1.9715
15	00:10:01	0.2225	0.2222	29.6267	1.9664
16	00:15:01	0.2247	0.2244	29.9200	1.9540
17	00:20:02	0.2264	0.2261	30.1467	1.9445
18	00:40:03	0.2310	0.2307	30.7600	1.9186
19	01:00:05	0.2337	0.2334	31.1200	1.9035
20	01:30:07	0.2361	0.2358	31.4400	1.8900
21	02:00:09	0.2378	0.2375	31.6667	1.8804
22	02:30:12	0.2392	0.2389	31.8533	1.8725
23	03:00:14	0.2401	0.2398	31.9733	1.8675
24	03:30:16	0.2408	0.2405	32.0667	1.8635
25	04:00:19	0.2412	0.2409	32.1200	1.8613
26	04:30:21	0.2417	0.2414	32.1867	1.8585
27	05:00:23	0.2420	0.2417	32.2267	1.8568
28	05:30:25	0.2423	0.2420	32.2667	1.8551
29	06:00:28	0.2426	0.2423	32.3067	1.8534
30	06:30:30	0.2428	0.2425	32.3333	1.8523
31	07:00:32	0.2431	0.2428	32.3733	1.8506
32	07:30:34	0.2433	0.2430	32.4000	1.8495
33	08:00:37	0.2434	0.2431	32.4133	1.8489
34	08:30:39	0.2436	0.2433	32.4400	1.8478
35	08:41:46	0.2437	0.2434	32.4533	1.8472

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

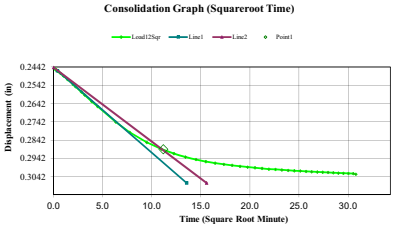
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

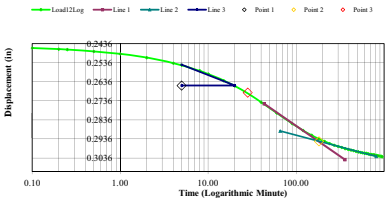
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2437	0.2434	32.4533	1.8472
1	00:00:01	0.2450	0.2447	32.6267	1.8399
2	00:00:02	0.2453	0.2450	32.6667	1.8383
3	00:00:03	0.2456	0.2453	32.7067	1.8366
4	00:00:04	0.2457	0.2454	32.7200	1.8360
5	00:00:05	0.2458	0.2455	32.7333	1.8354
6	00:00:06	0.2459	0.2456	32.7467	1.8349
7	00:00:12	0.2465	0.2462	32.8267	1.8315
8	00:00:15	0.2467	0.2464	32.8533	1.8304
9	00:00:30	0.2477	0.2474	32.9867	1.8248
10	00:01:00	0.2490	0.2487	33.1600	1.8175
11	00:02:00	0.2510	0.2507	33.4267	1.8062
12	00:04:00	0.2538	0.2535	33.8000	1.7905
13	00:05:00	0.2549	0.2546	33.9467	1.7843
14	00:08:01	0.2578	0.2575	34.3333	1.7680
15	00:10:01	0.2595	0.2592	34.5600	1.7584
16	00:15:01	0.2630	0.2627	35.0267	1.7388
17	00:20:02	0.2658	0.2655	35.4000	1.7230
18	00:40:03	0.2743	0.2740	36.5333	1.6753
19	01:00:05	0.2799	0.2796	37.2800	1.6438
20	01:30:07	0.2855	0.2852	38.0267	1.6123
21	02:00:09	0.2891	0.2888	38.5067	1.5921
22	02:30:11	0.2916	0.2913	38.8400	1.5780
23	03:00:14	0.2935	0.2932	39.0933	1.5674
24	03:30:16	0.2948	0.2945	39.2667	1.5601
25	04:00:18	0.2960	0.2957	39.4267	1.5533
26	04:30:21	0.2968	0.2965	39.5333	1.5488
27	05:00:23	0.2975	0.2972	39.6267	1.5449
28	05:30:25	0.2980	0.2977	39.6933	1.5421
29	06:00:27	0.2986	0.2983	39.7733	1.5387
30	06:30:30	0.2990	0.2987	39.8267	1.5364
31	07:00:32	0.2994	0.2991	39.8800	1.5342
32	07:30:34	0.2997	0.2994	39.9200	1.5325
33	08:00:36	0.3001	0.2998	39.9733	1.5303
34	08:30:39	0.3003	0.3000	40.0000	1.5291
35	09:00:41	0.3006	0.3003	40.0400	1.5275
36	09:30:43	0.3008	0.3005	40.0667	1.5263
37	10:00:46	0.3010	0.3007	40.0933	1.5252
38	10:30:48	0.3011	0.3008	40.1067	1.5246
39	11:00:50	0.3014	0.3011	40.1467	1.5230
40	11:30:52	0.3016	0.3013	40.1733	1.5218
41	12:00:55	0.3017	0.3014	40.1867	1.5213
42	12:30:57	0.3018	0.3015	40.2000	1.5207
43	13:00:59	0.3019	0.3016	40.2133	1.5201
44	13:31:01	0.3021	0.3018	40.2400	1.5190
45	14:01:04	0.3023	0.3020	40.2667	1.5179
46	14:31:06	0.3024	0.3021	40.2800	1.5173
47	15:01:08	0.3025	0.3022	40.2933	1.5168
48	15:31:11	0.3026	0.3023	40.3067	1.5162
49	15:47:18	0.3029	0.3026	40.3467	1.5145

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

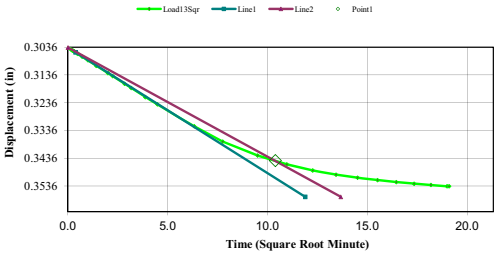
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

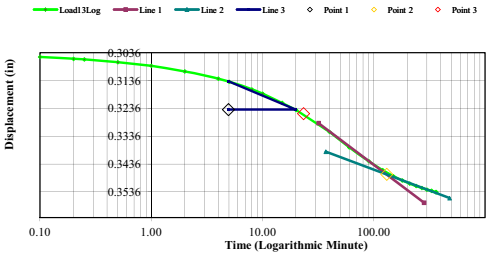
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3029	0.3026	40.3467	1.5145
1	00:00:01	0.3043	0.3040	40.5333	1.5067
2	00:00:02	0.3046	0.3043	40.5733	1.5050
3	00:00:03	0.3048	0.3045	40.6000	1.5038
4	00:00:04	0.3049	0.3046	40.6133	1.5033
5	00:00:05	0.3050	0.3047	40.6267	1.5027
6	00:00:06	0.3051	0.3048	40.6400	1.5022
7	00:00:12	0.3058	0.3055	40.7333	1.4982
8	00:00:15	0.3060	0.3057	40.7600	1.4971
9	00:00:30	0.3070	0.3067	40.8933	1.4915
10	00:01:00	0.3083	0.3080	41.0667	1.4842
11	00:02:00	0.3103	0.3100	41.3333	1.4729
12	00:04:00	0.3129	0.3126	41.6800	1.4583
13	00:05:00	0.3140	0.3137	41.8267	1.4521
14	00:08:01	0.3168	0.3165	42.2000	1.4364
15	00:10:01	0.3183	0.3180	42.4000	1.4280
16	00:15:01	0.3216	0.3213	42.8400	1.4094
17	00:20:02	0.3242	0.3239	43.1867	1.3948
18	00:40:03	0.3321	0.3318	44.2400	1.3504
19	01:00:05	0.3376	0.3373	44.9733	1.3195
20	01:30:07	0.3426	0.3423	45.6400	1.2914
21	02:00:09	0.3458	0.3455	46.0667	1.2734
22	02:30:11	0.3480	0.3477	46.3600	1.2610
23	03:00:14	0.3495	0.3492	46.5600	1.2526
24	03:30:16	0.3506	0.3503	46.7067	1.2464
25	04:00:18	0.3515	0.3512	46.8267	1.2414
26	04:30:20	0.3522	0.3519	46.9200	1.2374
27	05:00:23	0.3528	0.3525	47.0000	1.2341
28	05:30:25	0.3532	0.3529	47.0533	1.2318
29	06:00:27	0.3537	0.3534	47.1200	1.2290
30	06:04:18	0.3537	0.3534	47.1200	1.2290

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

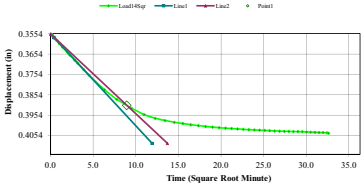
Sample Number:
Boring Number: 6
Depth: 10 - 12 feet
Sample Type: Undisturbed

Soil Description: Organic Clay (OH)
Remarks:

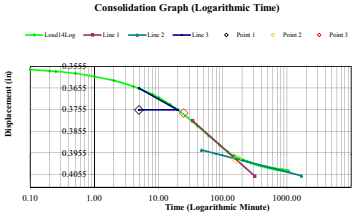
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3537	0.3534	47.1200	1.2290
1	00:00:01	0.3557	0.3554	47.3867	1.2178
2	00:00:02	0.3560	0.3557	47.4267	1.2161
3	00:00:03	0.3563	0.3560	47.4667	1.2144
4	00:00:04	0.3566	0.3563	47.5067	1.2127
5	00:00:05	0.3568	0.3565	47.5333	1.2116
6	00:00:06	0.3569	0.3566	47.5467	1.2110
7	00:00:12	0.3576	0.3573	47.6400	1.2071
8	00:00:15	0.3578	0.3575	47.6667	1.2060
9	00:00:30	0.3587	0.3584	47.7867	1.2009
10	00:01:00	0.3602	0.3599	47.9867	1.1925
11	00:02:00	0.3620	0.3617	48.2267	1.1824
12	00:04:00	0.3647	0.3644	48.5867	1.1672
13	00:05:00	0.3658	0.3655	48.7333	1.1610
14	00:08:00	0.3684	0.3681	49.0800	1.1464
15	00:10:00	0.3699	0.3696	49.2800	1.1380
16	00:15:01	0.3730	0.3727	49.6933	1.1205
17	00:20:01	0.3756	0.3753	50.0400	1.1059
18	00:40:03	0.3830	0.3827	51.0267	1.0643
19	01:00:04	0.3876	0.3873	51.6400	1.0385
20	01:30:06	0.3920	0.3917	52.2267	1.0138
21	02:00:09	0.3951	0.3948	52.6400	0.9963
22	02:30:11	0.3969	0.3966	52.8800	0.9862
23	03:00:13	0.3980	0.3977	53.0267	0.9800
24	03:30:15	0.3989	0.3986	53.1467	0.9750
25	04:00:18	0.3995	0.3992	53.2267	0.9716
26	04:30:20	0.4001	0.3998	53.3067	0.9682
27	**05:00:22**	**0.4005**	**0.4002**	**53.3600**	**0.9660**
28	05:30:24	0.4009	0.4006	53.4133	0.9637
29	06:00:26	0.4012	0.4009	53.4533	0.9620
30	06:30:29	0.4015	0.4012	53.4933	0.9604
31	07:00:31	0.4017	0.4014	53.5200	0.9592
32	07:30:33	0.4019	0.4016	53.5467	0.9581
33	08:00:36	0.4021	0.4018	53.5733	0.9570
34	08:30:38	0.4023	0.4020	53.6000	0.9559
35	09:00:40	0.4025	0.4022	53.6267	0.9547
36	09:30:42	0.4026	0.4023	53.6400	0.9542
37	10:00:45	0.4027	0.4024	53.6533	0.9536
38	10:30:47	0.4028	0.4025	53.6667	0.9531
39	11:00:49	0.4030	0.4027	53.6933	0.9519
40	11:30:52	0.4031	0.4028	53.7067	0.9514
41	12:00:54	0.4032	0.4029	53.7200	0.9508
42	12:30:56	0.4033	0.4030	53.7333	0.9502
43	13:00:58	0.4033	0.4030	53.7333	0.9502
44	13:31:01	0.4034	0.4031	53.7467	0.9497
45	14:01:03	0.4034	0.4031	53.7467	0.9497
46	14:31:05	0.4035	0.4032	53.7600	0.9491
47	15:01:08	0.4036	0.4033	53.7733	0.9486
48	15:31:10	0.4037	0.4034	53.7867	0.9480
49	16:01:12	0.4038	0.4035	53.8000	0.9474
50	16:31:14	0.4039	0.4036	53.8133	0.9469
51	17:01:17	0.4039	0.4036	53.8133	0.9469
52	17:31:19	0.4040	0.4037	53.8267	0.9463
53	17:42:43	0.4042	0.4039	53.8533	0.9452

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



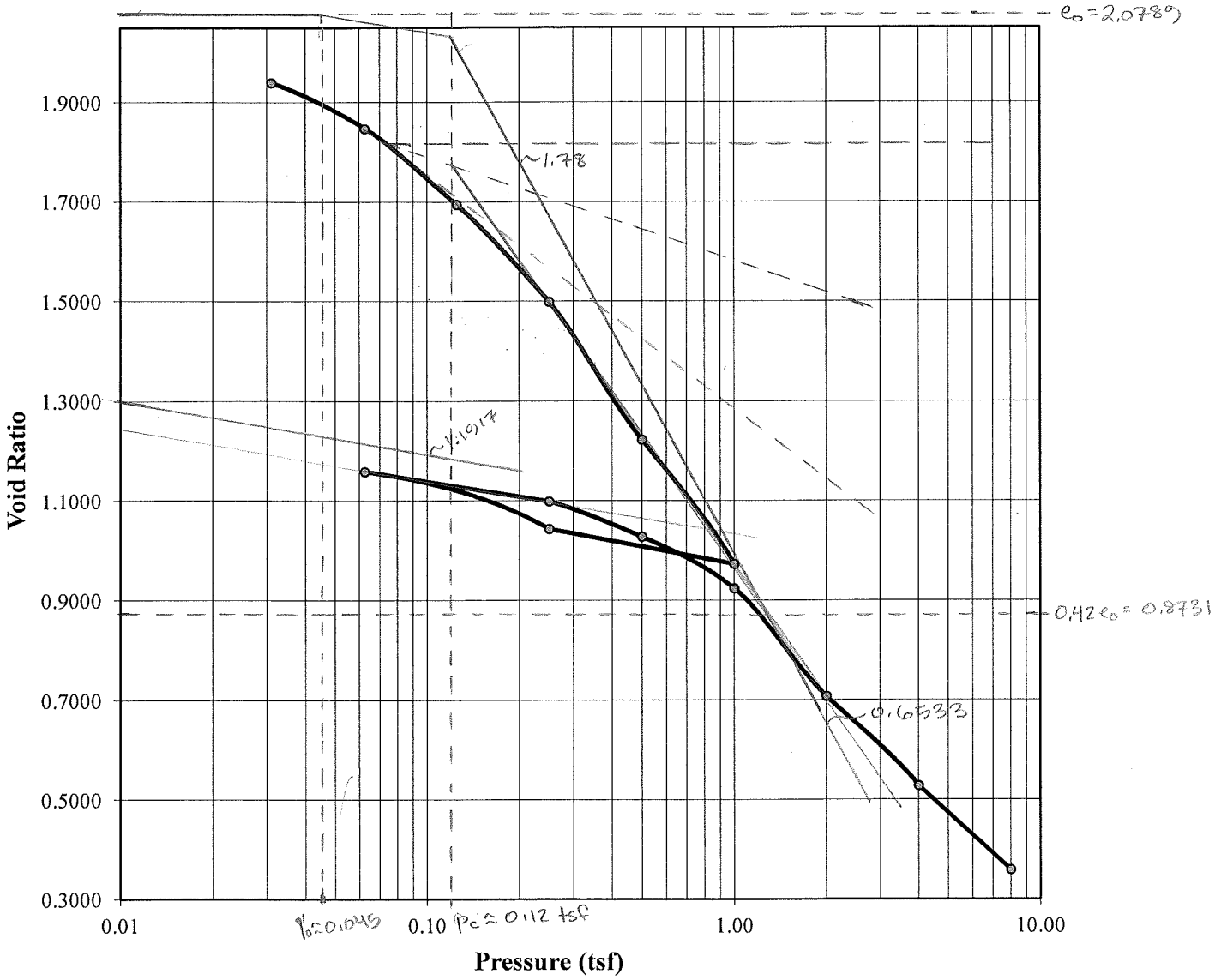
Consolidation Graph (Logarithmic Time)



30 ticks = 0.2
(50 ticks = 1")

GEOENGINEERS

Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	323	**Test Date:**	17 Oct 11
Moisture (%):	160.01	38.01	**Plastic Limits:**	103		
Dry Density (pcf):	33.63	86.86	**Plasticity Index (%):**	220		
Saturation (%):	127.58	326.89				
Void Ratio:	2.0789	0.3596	**Specific Gravity:**	1.660	Measured	

Soil Description: Organic clay (OH) $0.42 e_o = 0.8731$

Project Number: 16715-023-00 **Depth:** 12 - 14 feet

Sample Number: **Boring Number:** 7

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

Remarks: $\gamma = 2.6001(33.63 \text{ pcf}) = 87.4$ pcf
Mudline at 4' depth
$\gamma_{avg} \approx \frac{70 \times 6 + 71.3 \times 2 + 87.4 \times 1}{9}$
$= 72.2$ pcf
$\gamma'_{avg} = 9.8$ say 10 pcf

$p'_o \approx 10 \text{ pcf } (9 \text{ ft}) = 90 \text{ psf}$
$= 0.045$ tsf

$OCR = \frac{0.12}{0.045} = 2.67$

$C_c = \frac{1.78 - 0.6533}{\log(2/0.2)} = \underline{1.1267}$

$CR = \frac{1.1267}{3.0789} = \underline{0.3659}$

$C_r = \frac{1.3 - 1.1917}{\log(.1/0.1)} = \underline{0.1083}$

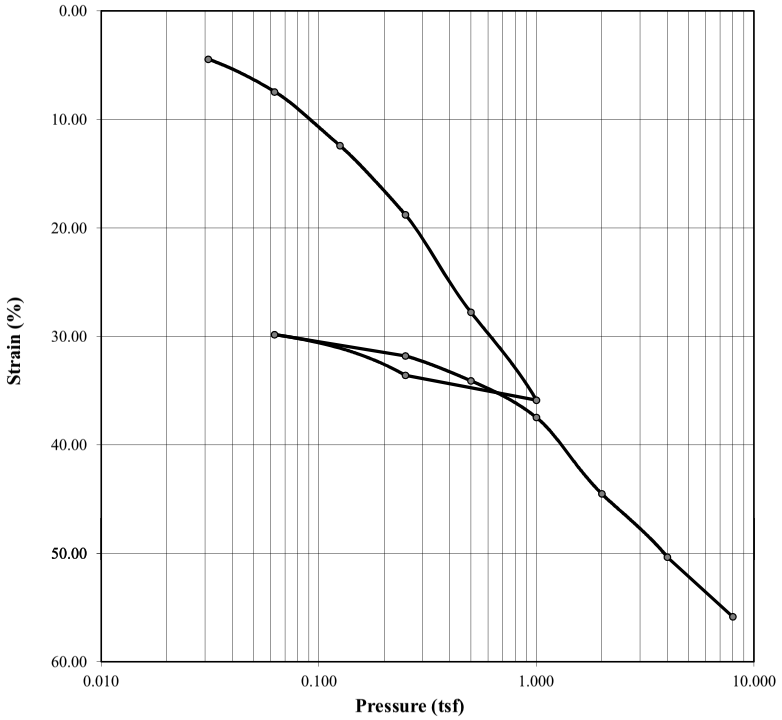
$RR = \frac{0.1083}{3.0789} = \underline{0.0352}$

$C_{v\,t90} @ p'_o = 5.84 \text{ ft}^2/\text{yr}$
$= 0.016 \text{ ft}^2/\text{day}$
$\approx 0.02 \text{ ft}^2/\text{day}$

$C_{v\,t90} @ p_c = 3.65 \text{ ft}^2/\text{yr}$
$= 0.01 \text{ ft}^2/\text{day}$

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	160.01	38.01	**Liquid Limits:**	323	**Test Date:**	17 Oct 11
Dry Density (pcf):	33.63	86.86	**Plastic Limits:**	103		
Saturation (%):	127.58	326.89	**Plasticity Index (%):**	220		
Void Ratio:	2.0789	0.3596	**Specific Gravity:**	1.660	Measured	

Sample Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 7

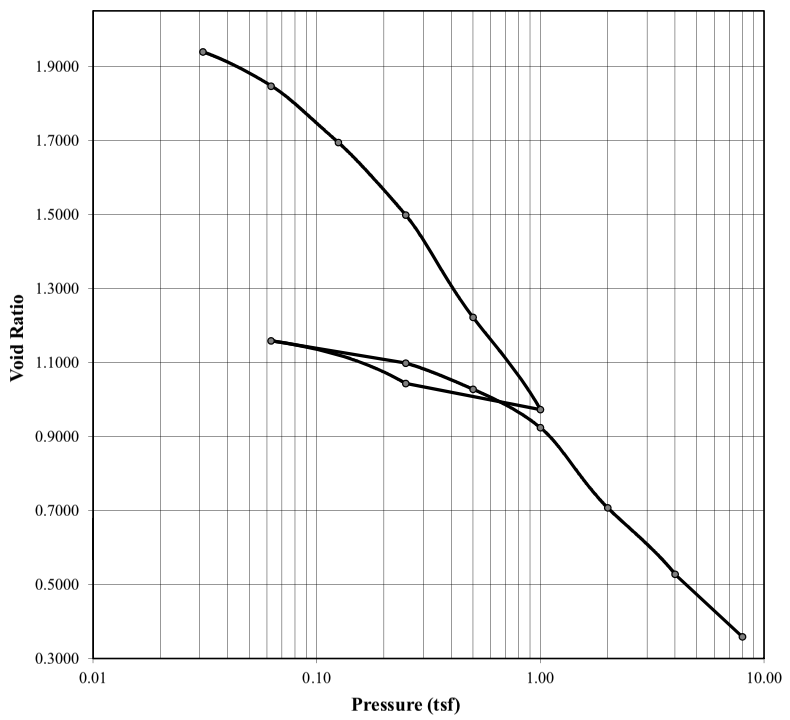
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	160.01	38.01	**Liquid Limits:**	323	**Test Date:**	17 Oct 11
Dry Density (pcf):	33.63	86.86	**Plastic Limits:**	103		
Saturation (%):	127.58	326.89	**Plasticity Index (%):**	220		
Void Ratio:	2.0789	0.3596	**Specific Gravity:**	1.660	Measured	

Soil Description: Organic clay (OH)

Project Number: 16715-023-00 **Depth:** 12 - 14 feet **Remarks:**

Sample Number: **Boring Number:** 7

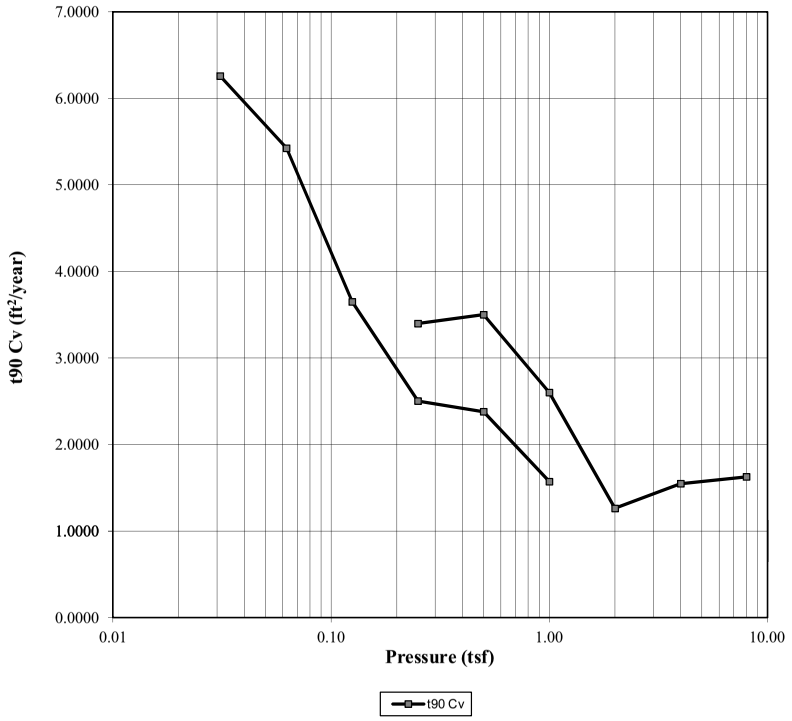
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results

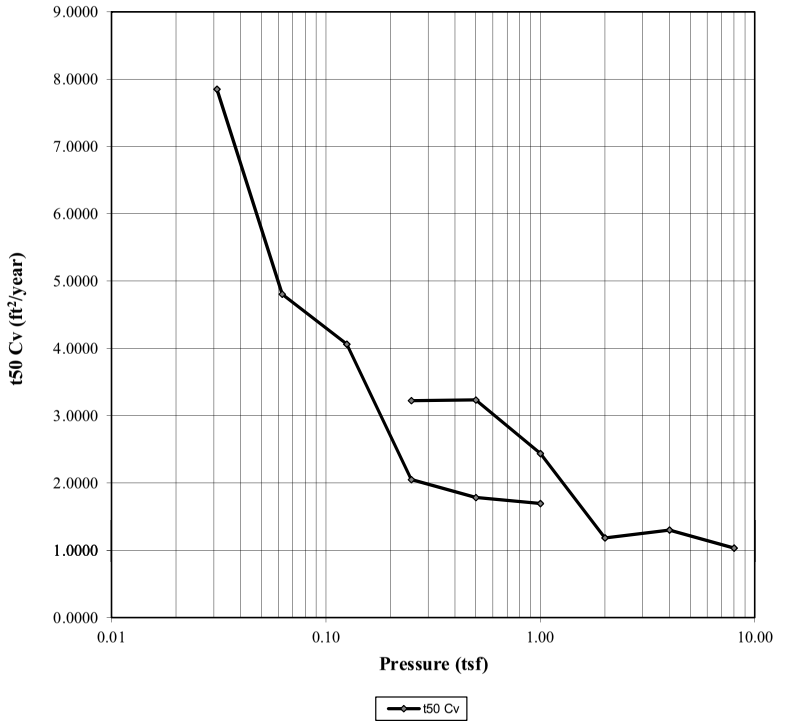


	Before	After				
Moisture (%):	160.01	38.01	**Liquid Limits:**	323	**Test Date:**	17 Oct 11
Dry Density (pcf):	33.63	86.86	**Plastic Limits:**	103		
Saturation (%):	127.58	326.89	**Plasticity Index (%):**	220		
Void Ratio:	2.0789	0.3596	**Specific Gravity:**	1.660	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 12 - 14 feet	**Remarks:**
Sample Number:		**Boring Number:** 7	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	160.01	38.01	**Liquid Limits:**	323	**Test Date:**	17 Oct 11
Dry Density (pcf):	33.63	86.86	**Plastic Limits:**	103		
Saturation (%):	127.58	326.89	**Plasticity Index (%):**	220		
Void Ratio:	2.0789	0.3596	**Specific Gravity:**	1.660	Measured	

Soil Description:	Organic clay (OH)		
Project Number:	16715-023-00	**Depth:** 12 - 14 feet	**Remarks:**
Sample Number:		**Boring Number:** 7	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

Sample Number: **Sample Description:**
Boring Number: 7 Organic clay (OH)
Depth: 12 - 14 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 17 Oct 11

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	0.7500	0.5062	0.00	2.0765	0.000	0.000	0.000	0.000
1	0.031	0.0334	0.7166	0.4728	4.45	1.9395	63.494	11.760	6.258	7.850
2	0.063	0.0560	0.6940	0.4502	7.47	1.8468	68.707	18.020	5.424	4.805
3	0.125	0.0931	0.6569	0.4131	12.41	1.6946	91.543	19.090	3.648	4.063
4	0.250	0.1409	0.6091	0.3653	18.79	1.4985	114.735	32.529	2.502	2.050
5	0.500	0.2083	0.5417	0.2979	27.77	1.2220	95.446	29.573	2.379	1.784
6	1.000	0.2691	0.4809	0.2371	35.88	0.9726	113.863	24.526	1.572	1.695
7	0.250	0.2519	0.4981	0.2543	33.59	1.0432	0.000	0.000	0.000	0.000
8	0.063	0.2238	0.5262	0.2824	29.84	1.1584	0.000	0.000	0.000	0.000
9	0.250	0.2385	0.5115	0.2677	31.80	1.0982	59.577	14.591	3.398	3.223
10	0.500	0.2557	0.4943	0.2505	34.09	1.0276	54.011	13.582	3.500	3.234
11	1.000	0.2810	0.4690	0.2252	37.47	0.9238	65.431	16.222	2.601	2.437
12	2.000	0.3338	0.4162	0.1724	44.51	0.7072	106.239	26.300	1.262	1.184
13	4.000	0.3776	0.3724	0.1286	50.35	0.5276	69.345	19.168	1.548	1.301
14	8.000	0.4188	0.3312	0.0874	55.84	0.3586	52.179	19.084	1.627	1.033

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11

Sample Number: **Sample Description:**
Boring Number: 7 Organic clay (OH)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 323.0000 **Initial Void Ratio:** 2.0789 **Initial Height (in):** 0.7500
Plastic Limit: 103.0000 **Plasticity Index (%):** 220.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 1.6600 **Weight of Ring (g):** 234.8600
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	115.91	78.29
Dry Soil + Container (g)	58.45	64.25
Weight of Container (g)	22.54	27.31
Moisture Content (%)	160.01	38.01
Void Ratio	2.0789	0.3596
Saturation (%)	127.58	326.89
Dry Density (pcf)	33.63	86.86

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

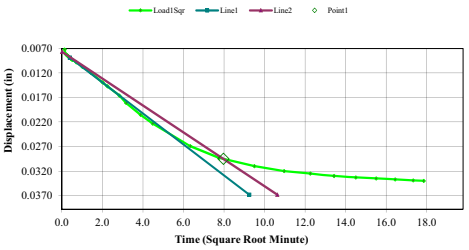
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

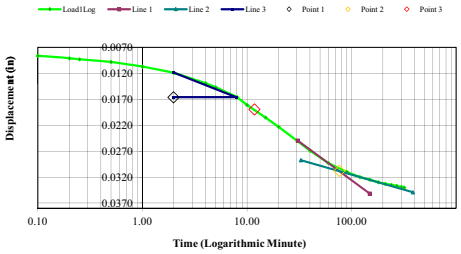
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0006	0.0000	0.0000	2.0789
1	00:00:01	0.0072	0.0066	0.8800	2.0518
2	00:00:02	0.0081	0.0075	1.0000	2.0481
3	00:00:03	0.0083	0.0077	1.0267	2.0473
4	00:00:04	0.0084	0.0078	1.0400	2.0469
5	00:00:05	0.0085	0.0079	1.0533	2.0465
6	00:00:06	0.0086	0.0080	1.0667	2.0460
7	00:00:12	0.0091	0.0085	1.1333	2.0440
8	00:00:15	0.0093	0.0087	1.1600	2.0432
9	00:00:30	0.0098	0.0092	1.2267	2.0411
10	00:01:00	0.0107	0.0101	1.3467	2.0374
11	00:02:00	0.0119	0.0113	1.5067	2.0325
12	00:04:01	0.0139	0.0133	1.7733	2.0243
13	00:05:01	0.0147	0.0141	1.8800	2.0210
14	00:08:01	0.0166	0.0160	2.1333	2.0132
15	00:10:01	0.0181	0.0175	2.3333	2.0070
16	00:15:01	0.0205	0.0199	2.6533	1.9972
17	00:20:02	0.0223	0.0217	2.8933	1.9898
18	00:40:03	0.0269	0.0263	3.5067	1.9709
19	01:00:05	0.0293	0.0287	3.8267	1.9611
20	01:30:07	0.0310	0.0304	4.0533	1.9541
21	02:00:09	0.0320	0.0314	4.1867	1.9500
22	02:30:12	0.0325	0.0319	4.2533	1.9479
23	03:00:14	0.0330	0.0324	4.3200	1.9459
24	03:30:16	0.0333	0.0327	4.3600	1.9446
25	04:00:19	0.0335	0.0329	4.3867	1.9438
26	04:30:21	0.0337	0.0331	4.4133	1.9430
27	05:00:23	0.0339	0.0333	4.4400	1.9422
28	05:18:44	0.0340	0.0334	4.4533	1.9418

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

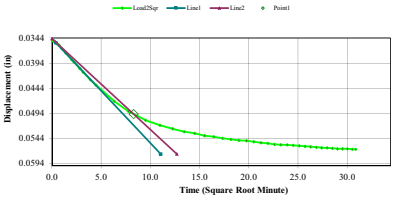
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

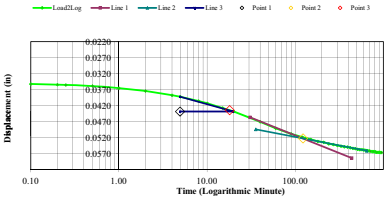
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0340	0.0334	4.4533	1.9418
1	00:00:01	0.0350	0.0344	4.5867	1.9377
2	00:00:02	0.0350	0.0344	4.5867	1.9377
3	00:00:03	0.0350	0.0344	4.5867	1.9377
4	00:00:04	0.0351	0.0345	4.6000	1.9373
5	00:00:05	0.0351	0.0345	4.6000	1.9373
6	00:00:06	0.0352	0.0346	4.6133	1.9368
7	00:00:12	0.0354	0.0348	4.6400	1.9360
8	00:00:15	0.0355	0.0349	4.6533	1.9356
9	00:00:30	0.0358	0.0352	4.6933	1.9344
10	00:01:00	0.0365	0.0359	4.7867	1.9315
11	00:02:00	0.0374	0.0368	4.9067	1.9278
12	00:04:00	0.0387	0.0381	5.0800	1.9225
13	00:05:00	0.0392	0.0386	5.1467	1.9204
14	00:08:00	0.0405	0.0399	5.3200	1.9151
15	00:10:01	0.0412	0.0406	5.4133	1.9122
16	00:15:01	0.0427	0.0421	5.6133	1.9061
17	00:20:01	0.0438	0.0432	5.7600	1.9015
18	00:40:03	0.0470	0.0464	6.1867	1.8884
19	01:00:04	0.0490	0.0484	6.4533	1.8802
20	01:30:07	0.0508	0.0502	6.6933	1.8728
21	02:00:09	0.0518	0.0512	6.8267	1.8687
22	02:30:11	0.0525	0.0519	6.9200	1.8658
23	03:00:14	0.0531	0.0525	7.0000	1.8634
24	03:30:16	0.0534	0.0528	7.0400	1.8621
25	04:00:18	0.0539	0.0533	7.1067	1.8601
26	04:30:21	0.0541	0.0535	7.1333	1.8593
27	05:00:23	0.0544	0.0538	7.1733	1.8580
28	05:30:25	0.0546	0.0540	7.2000	1.8572
29	06:00:28	0.0548	0.0542	7.2267	1.8564
30	06:30:30	0.0549	0.0543	7.2400	1.8560
31	07:00:32	0.0551	0.0545	7.2667	1.8552
32	07:30:34	0.0553	0.0547	7.2933	1.8543
33	08:00:37	0.0554	0.0548	7.3067	1.8539
34	08:30:39	0.0556	0.0550	7.3333	1.8531
35	09:00:41	0.0557	0.0551	7.3467	1.8527
36	09:30:44	0.0557	0.0551	7.3467	1.8527
37	10:00:46	0.0558	0.0552	7.3600	1.8523
38	10:30:48	0.0559	0.0553	7.3733	1.8519
39	11:00:51	0.0560	0.0554	7.3867	1.8515
40	11:30:53	0.0561	0.0555	7.4000	1.8510
41	12:00:55	0.0562	0.0556	7.4133	1.8506
42	12:30:57	0.0563	0.0557	7.4267	1.8502
43	13:01:00	0.0563	0.0557	7.4267	1.8502
44	13:31:02	0.0564	0.0558	7.4400	1.8498
45	14:01:04	0.0565	0.0559	7.4533	1.8494
46	14:31:06	0.0565	0.0559	7.4533	1.8494
47	15:01:09	0.0565	0.0559	7.4533	1.8494
48	15:31:11	0.0566	0.0560	7.4667	1.8490
49	15:52:33	0.0566	0.0560	7.4667	1.8490

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

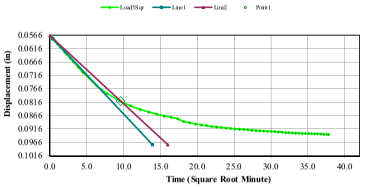
Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0566	0.0560	7.4667	1.8490
1	00:00:01	0.0571	0.0565	7.5333	1.8469
2	00:00:02	0.0573	0.0567	7.5600	1.8461
3	00:00:03	0.0574	0.0568	7.5733	1.8457
4	00:00:04	0.0575	0.0569	7.5867	1.8453
5	00:00:05	0.0576	0.0570	7.6000	1.8449
6	00:00:06	0.0577	0.0571	7.6133	1.8445
7	00:00:12	0.0581	0.0575	7.6667	1.8428
8	00:00:15	0.0582	0.0576	7.6800	1.8424
9	00:00:30	0.0589	0.0583	7.7733	1.8396
10	00:01:00	0.0598	0.0592	7.8933	1.8359
11	00:02:00	0.0611	0.0605	8.0667	1.8305
12	00:04:00	0.0629	0.0623	8.3067	1.8231
13	00:05:00	0.0636	0.0630	8.4000	1.8203
14	00:08:00	0.0654	0.0648	8.6400	1.8129
15	00:10:00	0.0665	0.0659	8.7867	1.8084
16	00:15:00	0.0686	0.0680	9.0667	1.7997
17	00:20:00	0.0705	0.0699	9.3200	1.7919
18	00:40:00	0.0754	0.0748	9.9733	1.7718
19	01:00:01	0.0784	0.0778	10.3733	1.7595
20	01:30:03	0.0812	0.0806	10.7467	1.7480
21	02:00:06	0.0830	0.0824	10.9867	1.7406
22	02:30:08	0.0844	0.0838	11.1733	1.7349
23	03:00:10	0.0853	0.0847	11.2933	1.7312
24	03:30:12	0.0861	0.0855	11.4000	1.7279
25	04:00:15	0.0868	0.0862	11.4933	1.7250
26	04:30:17	0.0872	0.0866	11.5467	1.7234
27	05:00:19	0.0878	0.0872	11.6267	1.7209
28	05:30:22	0.0889	0.0883	11.7733	1.7164
29	06:00:24	0.0893	0.0887	11.8267	1.7148
30	06:30:26	0.0898	0.0892	11.8933	1.7127
31	07:00:28	0.0901	0.0895	11.9333	1.7115
32	07:30:31	0.0903	0.0897	11.9600	1.7106
33	08:00:33	0.0907	0.0901	12.0133	1.7090
34	08:30:35	0.0909	0.0903	12.0400	1.7082
35	09:00:38	0.0910	0.0904	12.0533	1.7078
36	09:30:40	0.0913	0.0907	12.0933	1.7065
37	10:00:42	0.0914	0.0908	12.1067	1.7061
38	10:30:44	0.0916	0.0910	12.1333	1.7053
39	11:00:47	0.0917	0.0911	12.1467	1.7049
40	11:30:49	0.0918	0.0912	12.1600	1.7045
41	12:00:51	0.0919	0.0913	12.1733	1.7041
42	12:30:54	0.0921	0.0915	12.2000	1.7033
43	13:00:56	0.0922	0.0916	12.2133	1.7028
44	13:30:58	0.0923	0.0917	12.2267	1.7024
45	14:01:00	0.0924	0.0918	12.2400	1.7020
46	14:31:03	0.0925	0.0919	12.2533	1.7016
47	15:01:05	0.0925	0.0919	12.2533	1.7016
48	15:31:07	0.0926	0.0920	12.2667	1.7012
49	16:01:10	0.0927	0.0921	12.2800	1.7008
50	16:31:12	0.0928	0.0922	12.2933	1.7004
51	17:01:14	0.0930	0.0924	12.3200	1.6996
52	17:31:16	0.0930	0.0924	12.3200	1.6996
53	18:01:19	0.0931	0.0925	12.3333	1.6992
54	18:31:21	0.0932	0.0926	12.3467	1.6987
55	19:01:23	0.0932	0.0926	12.3467	1.6987
56	19:31:26	0.0933	0.0927	12.3600	1.6983
57	20:01:28	0.0933	0.0927	12.3600	1.6983
58	20:31:30	0.0933	0.0927	12.3600	1.6983
59	21:01:32	0.0934	0.0928	12.3733	1.6979
60	21:31:35	0.0934	0.0928	12.3733	1.6979
61	22:01:37	0.0934	0.0928	12.3733	1.6979
62	22:31:39	0.0935	0.0929	12.3867	1.6975
63	23:01:42	0.0936	0.0930	12.4000	1.6971
64	23:31:44	0.0936	0.0930	12.4000	1.6971
65	23:50:01	0.0937	0.0931	12.4133	1.6967

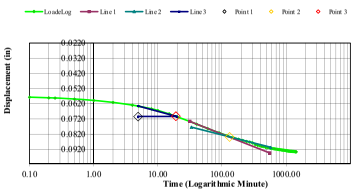
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 3) Load 0.125 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

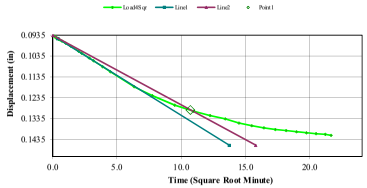
Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0937	0.0931	12.4133	1.6967
1	00:00:01	0.0940	0.0934	12.4533	1.6955
2	00:00:02	0.0944	0.0938	12.5067	1.6938
3	00:00:03	0.0946	0.0940	12.5333	1.6930
4	00:00:04	0.0947	0.0941	12.5467	1.6926
5	00:00:05	0.0948	0.0942	12.5600	1.6922
6	00:00:06	0.0949	0.0943	12.5733	1.6918
7	00:00:12	0.0953	0.0947	12.6267	1.6901
8	00:00:15	0.0956	0.0950	12.6667	1.6889
9	00:00:30	0.0963	0.0957	12.7600	1.6860
10	00:01:00	0.0973	0.0967	12.8933	1.6819
11	00:02:00	0.0988	0.0982	13.0933	1.6758
12	00:04:00	0.1011	0.1005	13.4000	1.6663
13	00:05:00	0.1021	0.1015	13.5333	1.6622
14	00:08:00	0.1044	0.1038	13.8400	1.6528
15	00:10:01	0.1057	0.1051	14.0133	1.6474
16	00:15:01	0.1086	0.1080	14.4000	1.6355
17	00:20:01	0.1110	0.1104	14.7200	1.6257
18	00:40:03	0.1182	0.1176	15.6800	1.5961
19	01:00:04	0.1225	0.1219	16.2533	1.5785
20	01:30:07	0.1270	0.1264	16.8533	1.5600
21	02:00:09	0.1299	0.1293	17.2400	1.5481
22	02:30:11	0.1320	0.1314	17.5200	1.5395
23	03:00:14	0.1336	0.1330	17.7333	1.5329
24	03:30:16	0.1356	0.1350	18.0000	1.5247
25	04:00:18	0.1369	0.1363	18.1733	1.5193
26	04:30:20	0.1379	0.1373	18.3067	1.5152
27	05:00:23	0.1387	0.1381	18.4133	1.5120
28	05:30:25	0.1392	0.1386	18.4800	1.5099
29	06:00:27	0.1398	0.1392	18.5600	1.5074
30	06:30:30	0.1403	0.1397	18.6267	1.5054
31	07:00:32	0.1407	0.1401	18.6800	1.5037
32	07:30:34	0.1410	0.1404	18.7200	1.5025
33	07:49:53	0.1415	0.1409	18.7867	1.5005

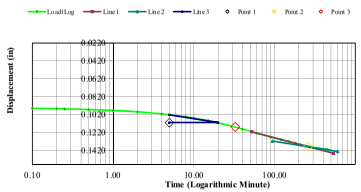
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 4) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

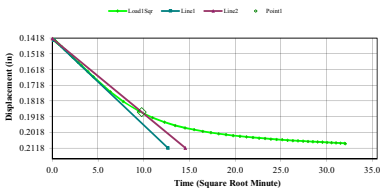
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

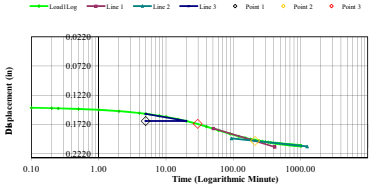
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1415	0.1409	18.7867	1.5005
1	00:00:01	0.1426	0.1420	18.9333	1.4959
2	00:00:02	0.1429	0.1423	18.9733	1.4947
3	00:00:03	0.1431	0.1425	19.0000	1.4939
4	00:00:04	0.1432	0.1426	19.0133	1.4935
5	00:00:05	0.1435	0.1429	19.0533	1.4923
6	00:00:06	0.1436	0.1430	19.0667	1.4918
7	00:00:12	0.1442	0.1436	19.1467	1.4894
8	00:00:15	0.1446	0.1440	19.2000	1.4877
9	00:00:30	0.1456	0.1450	19.3333	1.4836
10	00:01:00	0.1471	0.1465	19.5333	1.4775
11	00:02:00	0.1494	0.1488	19.8400	1.4680
12	00:04:01	0.1526	0.1520	20.2667	1.4549
13	00:05:01	0.1540	0.1534	20.4533	1.4491
14	00:08:01	0.1573	0.1567	20.8933	1.4356
15	00:10:01	0.1591	0.1585	21.1333	1.4282
16	00:15:02	0.1631	0.1625	21.6667	1.4118
17	00:20:02	0.1664	0.1658	22.1067	1.3982
18	00:40:03	0.1759	0.1753	23.3733	1.3592
19	01:00:05	0.1821	0.1815	24.2000	1.3338
20	01:30:07	0.1883	0.1877	25.0267	1.3083
21	02:00:10	0.1924	0.1918	25.5733	1.2915
22	02:30:12	0.1952	0.1946	25.9467	1.2800
23	03:00:14	0.1974	0.1968	26.2400	1.2710
24	03:30:16	0.1989	0.1983	26.4400	1.2648
25	04:00:18	0.2000	0.1994	26.5867	1.2603
26	04:30:20	0.2011	0.2005	26.7333	1.2558
27	05:00:23	0.2019	0.2013	26.8400	1.2525
28	05:30:25	0.2026	0.2020	26.9333	1.2496
29	06:00:27	0.2032	0.2026	27.0133	1.2472
30	06:30:30	0.2038	0.2032	27.0933	1.2447
31	07:00:32	0.2042	0.2036	27.1467	1.2431
32	07:30:34	0.2046	0.2040	27.2000	1.2414
33	08:00:36	0.2050	0.2044	27.2533	1.2398
34	08:30:39	0.2054	0.2048	27.3067	1.2381
35	09:00:41	0.2056	0.2050	27.3333	1.2373
36	09:30:43	0.2060	0.2054	27.3867	1.2357
37	10:00:45	0.2062	0.2056	27.4133	1.2349
38	10:30:48	0.2064	0.2058	27.4400	1.2340
39	11:00:50	0.2067	0.2061	27.4800	1.2328
40	11:30:52	0.2070	0.2064	27.5200	1.2316
41	12:00:55	0.2071	0.2065	27.5333	1.2312
42	12:30:57	0.2073	0.2067	27.5600	1.2303
43	13:00:59	0.2075	0.2069	27.5867	1.2295
44	13:31:02	0.2077	0.2071	27.6133	1.2287
45	14:01:04	0.2078	0.2072	27.6267	1.2283
46	14:31:06	0.2079	0.2073	27.6400	1.2279
47	15:01:09	0.2081	0.2075	27.6667	1.2271
48	15:31:11	0.2083	0.2077	27.6933	1.2262
49	16:01:13	0.2084	0.2078	27.7067	1.2258
50	16:31:15	0.2086	0.2080	27.7333	1.2250
51	17:01:18	0.2087	0.2081	27.7467	1.2246
52	17:04:52	0.2089	0.2083	27.7733	1.2238

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

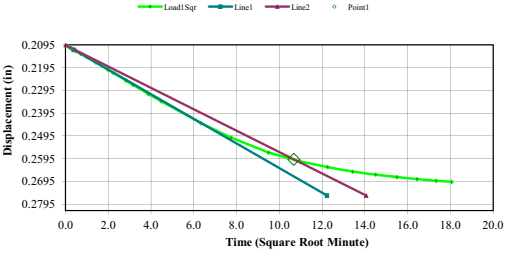
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

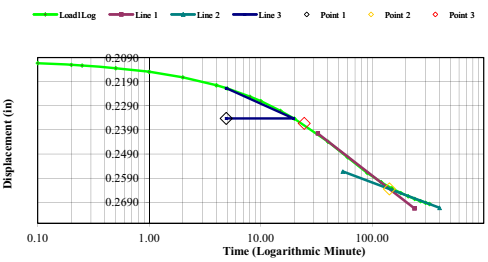
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2089	0.2083	27.7733	1.2238
1	00:00:01	0.2102	0.2096	27.9467	1.2184
2	00:00:02	0.2106	0.2100	28.0000	1.2168
3	00:00:03	0.2109	0.2103	28.0400	1.2156
4	00:00:04	0.2110	0.2104	28.0533	1.2152
5	00:00:05	0.2112	0.2106	28.0800	1.2143
6	00:00:06	0.2113	0.2107	28.0933	1.2139
7	00:00:12	0.2120	0.2114	28.1867	1.2110
8	00:00:15	0.2123	0.2117	28.2267	1.2098
9	00:00:30	0.2134	0.2128	28.3733	1.2053
10	00:01:00	0.2149	0.2143	28.5733	1.1991
11	00:02:00	0.2172	0.2166	28.8800	1.1897
12	00:04:00	0.2205	0.2199	29.3200	1.1762
13	00:05:00	0.2218	0.2212	29.4933	1.1708
14	00:08:00	0.2252	0.2246	29.9467	1.1569
15	00:10:00	0.2271	0.2265	30.2000	1.1491
16	00:15:01	0.2311	0.2305	30.7333	1.1326
17	00:20:01	0.2343	0.2337	31.1600	1.1195
18	00:40:03	0.2439	0.2433	32.4400	1.0801
19	01:00:04	0.2503	0.2497	33.2933	1.0538
20	01:30:06	0.2568	0.2562	34.1600	1.0271
21	02:00:09	0.2607	0.2601	34.6800	1.0111
22	02:30:11	0.2632	0.2626	35.0133	1.0009
23	03:00:13	0.2652	0.2646	35.2800	0.9927
24	03:30:16	0.2665	0.2659	35.4533	0.9873
25	04:00:18	0.2676	0.2670	35.6000	0.9828
26	04:30:20	0.2685	0.2679	35.7200	0.9791
27	05:00:22	0.2692	0.2686	35.8133	0.9762
28	05:25:52	0.2697	0.2691	35.8800	0.9742

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

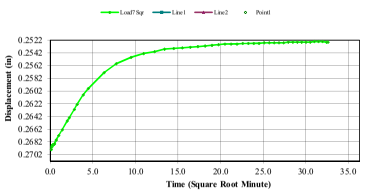
Soil Description: Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2697	0.2691	35.8800	0.9742
1	00:00:01	0.2694	0.2688	35.8400	0.9754
2	00:00:02	0.2690	0.2684	35.7867	0.9771
3	00:00:03	0.2688	0.2682	35.7600	0.9779
4	00:00:04	0.2687	0.2681	35.7467	0.9783
5	00:00:05	0.2687	0.2681	35.7467	0.9783
6	00:00:06	0.2687	0.2681	35.7467	0.9783
7	00:00:12	0.2686	0.2680	35.7333	0.9787
8	00:00:15	0.2685	0.2679	35.7200	0.9791
9	00:00:30	0.2679	0.2673	35.6400	0.9816
10	00:01:00	0.2672	0.2666	35.5467	0.9844
11	00:02:00	0.2663	0.2657	35.4267	0.9881
12	00:04:00	0.2649	0.2643	35.2400	0.9939
13	00:05:00	0.2644	0.2638	35.1733	0.9959
14	00:08:01	0.2631	0.2625	35.0000	1.0013
15	00:10:01	0.2623	0.2617	34.8933	1.0046
16	00:15:01	0.2608	0.2602	34.6933	1.0107
17	00:20:02	0.2598	0.2592	34.5600	1.0148
18	00:40:03	0.2573	0.2567	34.2267	1.0251
19	01:00:05	0.2559	0.2553	34.0400	1.0308
20	01:30:07	0.2549	0.2543	33.9067	1.0349
21	02:00:09	0.2543	0.2537	33.8267	1.0374
22	02:30:11	0.2540	0.2534	33.7867	1.0386
23	03:00:14	0.2536	0.2530	33.7333	1.0403
24	03:30:16	0.2535	0.2529	33.7200	1.0407
25	04:00:18	0.2534	0.2528	33.7067	1.0411
26	04:30:20	0.2533	0.2527	33.6933	1.0415
27	05:00:23	0.2532	0.2526	33.6800	1.0419
28	05:30:25	0.2531	0.2525	33.6667	1.0423
29	06:00:27	0.2530	0.2524	33.6533	1.0427
30	06:30:30	0.2529	0.2523	33.6400	1.0431
31	07:00:32	0.2528	0.2522	33.6267	1.0436
32	07:30:34	0.2528	0.2522	33.6267	1.0436
33	08:00:36	0.2528	0.2522	33.6267	1.0436
34	08:30:39	0.2527	0.2521	33.6133	1.0440
35	09:00:41	0.2527	0.2521	33.6133	1.0440
36	09:30:43	0.2527	0.2521	33.6133	1.0440
37	10:00:45	0.2527	0.2521	33.6133	1.0440
38	10:30:48	0.2526	0.2520	33.6000	1.0444
39	11:00:50	0.2526	0.2520	33.6000	1.0444
40	11:30:52	0.2526	0.2520	33.6000	1.0444
41	12:00:55	0.2526	0.2520	33.6000	1.0444
42	12:30:57	0.2526	0.2520	33.6000	1.0444
43	13:00:59	0.2525	0.2519	33.5867	1.0448
44	13:31:01	0.2525	0.2519	33.5867	1.0448
45	14:01:04	0.2525	0.2519	33.5867	1.0448
46	14:31:06	0.2525	0.2519	33.5867	1.0448
47	15:01:08	0.2525	0.2519	33.5867	1.0448
48	15:31:11	0.2525	0.2519	33.5867	1.0448
49	16:01:13	0.2524	0.2518	33.5733	1.0452
50	16:31:15	0.2524	0.2518	33.5733	1.0452
51	17:01:17	0.2524	0.2518	33.5733	1.0452
52	17:31:20	0.2525	0.2519	33.5867	1.0448
53	17:43:15	0.2525	0.2519	33.5867	1.0448

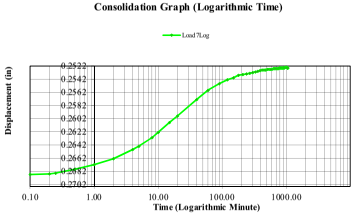
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

Sample Number
Boring Number 7
Depth: 12 - 14 feet
Sample Type Undisturbed

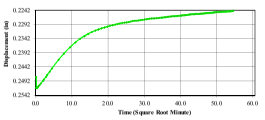
Soil Description Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	000000	0.2525	0.2519	33.5867	1.0448
1	000001	0.2478	0.2472	32.9600	1.0641
2	000002	0.2516	0.2510	33.4667	1.0485
3	000003	0.2517	0.2511	33.4800	1.0481
4	000004	0.2517	0.2511	33.4800	1.0481
5	000005	0.2516	0.2510	33.4667	1.0485
6	000006	0.2516	0.2510	33.4667	1.0485
7	000012	0.2514	0.2508	33.4400	1.0493
8	000015	0.2513	0.2507	33.4267	1.0497
9	000030	0.2511	0.2505	33.4000	1.0505
10	000100	0.2507	0.2501	33.3467	1.0522
11	000200	0.2501	0.2495	33.2667	1.0546
12	000400	0.2492	0.2486	33.1467	1.0583
13	000700	0.2487	0.2481	33.0800	1.0604
14	000800	0.2478	0.2472	32.9600	1.0641
15	001000	0.2471	0.2465	32.8667	1.0670
16	001500	0.2459	0.2453	32.7067	1.0719
17	002000	0.2448	0.2442	32.5600	1.0764
18	003959	0.2417	0.2411	32.1467	1.0891
19	005959	0.2396	0.2390	31.8667	1.0977
20	012959	0.2375	0.2369	31.5600	1.1072
21	015959	0.2356	0.2350	31.3333	1.1142
22	023001	0.2343	0.2337	31.1600	1.1193
23	030002	0.2334	0.2328	31.0400	1.1232
24	033005	0.2326	0.2320	30.9333	1.1265
25	040007	0.2319	0.2313	30.8400	1.1294
26	043009	0.2314	0.2308	30.7733	1.1314
27	050011	0.2310	0.2304	30.7200	1.1331
28	053014	0.2306	0.2300	30.6667	1.1347
29	060016	0.2303	0.2297	30.6267	1.1359
30	063018	0.2300	0.2294	30.5867	1.1372
31	070020	0.2297	0.2291	30.5467	1.1384
32	073023	0.2295	0.2289	30.5200	1.1392
33	080025	0.2293	0.2287	30.4933	1.1400
34	083027	0.2291	0.2285	30.4667	1.1409
35	090030	0.2289	0.2283	30.4400	1.1417
36	093032	0.2287	0.2281	30.4133	1.1425
37	100034	0.2286	0.2280	30.4000	1.1429
38	103037	0.2285	0.2279	30.3867	1.1433
39	110039	0.2284	0.2278	30.3733	1.1437
40	113041	0.2282	0.2276	30.3467	1.1445
41	120043	0.2280	0.2274	30.3200	1.1454
42	123046	0.2279	0.2273	30.3067	1.1458
43	130048	0.2278	0.2272	30.3067	1.1458
44	133050	0.2278	0.2272	30.2933	1.1462
45	140053	0.2277	0.2271	30.2800	1.1466
46	143055	0.2276	0.2270	30.2667	1.1470
47	150057	0.2275	0.2269	30.2533	1.1474
48	153100	0.2274	0.2268	30.2400	1.1478
49	160102	0.2273	0.2267	30.2267	1.1482
50	163104	0.2272	0.2266	30.2133	1.1486
51	170106	0.2271	0.2265	30.2000	1.1491
52	173109	0.2271	0.2265	30.2000	1.1491
53	180111	0.2271	0.2265	30.2000	1.1491
54	183113	0.2270	0.2264	30.1867	1.1495
55	190116	0.2270	0.2264	30.1867	1.1495
56	193118	0.2269	0.2263	30.1733	1.1499
57	200120	0.2268	0.2262	30.1600	1.1503
58	203122	0.2268	0.2262	30.1600	1.1503
59	210125	0.2267	0.2261	30.1467	1.1507
60	213127	0.2267	0.2261	30.1467	1.1507
61	220129	0.2265	0.2259	30.1200	1.1515
62	223131	0.2265	0.2259	30.1200	1.1515
63	230134	0.2264	0.2258	30.1067	1.1519
64	233136	0.2264	0.2258	30.1067	1.1519
65	240138	0.2263	0.2257	30.0933	1.1523
66	243141	0.2263	0.2257	30.0933	1.1523
67	250143	0.2263	0.2257	30.0933	1.1523
68	253145	0.2262	0.2256	30.0800	1.1528
69	260147	0.2262	0.2256	30.0800	1.1528
70	263150	0.2261	0.2255	30.0667	1.1532
71	270152	0.2261	0.2255	30.0667	1.1532
72	273154	0.2260	0.2254	30.0533	1.1536
73	280156	0.2260	0.2254	30.0533	1.1536
74	283159	0.2259	0.2253	30.0400	1.1540
75	290201	0.2259	0.2253	30.0400	1.1540
76	293203	0.2258	0.2252	30.0267	1.1544
77	300206	0.2257	0.2251	30.0133	1.1548
78	303208	0.2257	0.2251	30.0133	1.1548
79	310210	0.2256	0.2250	30.0000	1.1552
80	313212	0.2256	0.2250	30.0000	1.1552
81	320215	0.2256	0.2250	30.0000	1.1552
82	323217	0.2255	0.2249	29.9867	1.1556
83	330219	0.2255	0.2249	29.9867	1.1556
84	333223	0.2255	0.2249	29.9867	1.1556
85	340224	0.2255	0.2249	29.9867	1.1556
86	343226	0.2254	0.2248	29.9733	1.1560
87	350229	0.2254	0.2248	29.9733	1.1560
88	353231	0.2254	0.2248	29.9733	1.1560
89	360233	0.2253	0.2247	29.9600	1.1564
90	363235	0.2253	0.2247	29.9600	1.1564
91	370238	0.2252	0.2246	29.9467	1.1569
92	373240	0.2252	0.2246	29.9467	1.1569
93	380242	0.2252	0.2246	29.9467	1.1569
94	383244	0.2251	0.2245	29.9333	1.1573
95	390247	0.2251	0.2245	29.9333	1.1573
96	393249	0.2251	0.2245	29.9333	1.1573
97	400251	0.2250	0.2244	29.9200	1.1577
98	403253	0.2250	0.2244	29.9200	1.1577
99	410256	0.2249	0.2243	29.9067	1.1581
100	413258	0.2249	0.2243	29.9067	1.1581
101	420300	0.2248	0.2242	29.8933	1.1585
102	423303	0.2248	0.2242	29.8933	1.1585
103	430305	0.2248	0.2242	29.8933	1.1585
104	433307	0.2248	0.2242	29.8933	1.1585
105	440309	0.2247	0.2241	29.8800	1.1589
106	443312	0.2247	0.2241	29.8800	1.1589
107	450314	0.2247	0.2241	29.8800	1.1589
108	453316	0.2247	0.2241	29.8800	1.1589
109	460318	0.2247	0.2241	29.8800	1.1589
110	463321	0.2246	0.2240	29.8667	1.1593
111	470323	0.2246	0.2240	29.8667	1.1593
112	473325	0.2246	0.2240	29.8667	1.1593
113	480328	0.2246	0.2240	29.8667	1.1593
114	483330	0.2245	0.2239	29.8533	1.1597
115	490332	0.2245	0.2239	29.8533	1.1597
116	493335	0.2244	0.2238	29.8400	1.1601
117	493714	0.2244	0.2238	29.8400	1.1601

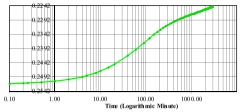
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

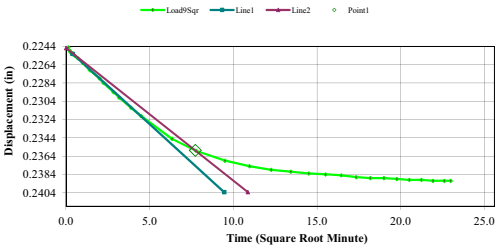
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

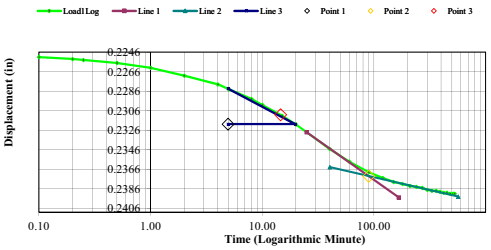
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2244	0.2238	29.8400	1.1601
1	00:00:01	0.2245	0.2239	29.8533	1.1597
2	00:00:02	0.2248	0.2242	29.8933	1.1585
3	00:00:03	0.2249	0.2243	29.9067	1.1581
4	00:00:04	0.2250	0.2244	29.9200	1.1577
5	00:00:05	0.2251	0.2245	29.9333	1.1573
6	00:00:06	0.2251	0.2245	29.9333	1.1573
7	00:00:12	0.2253	0.2247	29.9600	1.1564
8	00:00:15	0.2254	0.2248	29.9733	1.1560
9	00:00:30	0.2257	0.2251	30.0133	1.1548
10	00:01:00	0.2262	0.2256	30.0800	1.1528
11	00:02:00	0.2270	0.2264	30.1867	1.1495
12	00:04:00	0.2279	0.2273	30.3067	1.1458
13	00:05:00	0.2284	0.2278	30.3733	1.1437
14	00:08:01	0.2294	0.2288	30.5067	1.1396
15	00:10:01	0.2300	0.2294	30.5867	1.1372
16	00:15:01	0.2311	0.2305	30.7333	1.1326
17	00:20:02	0.2320	0.2314	30.8533	1.1289
18	00:40:03	0.2345	0.2339	31.1867	1.1187
19	01:00:05	0.2358	0.2352	31.3600	1.1133
20	01:30:07	0.2369	0.2363	31.5067	1.1088
21	02:00:09	0.2375	0.2369	31.5867	1.1064
22	02:30:11	0.2379	0.2373	31.6400	1.1047
23	03:00:14	0.2381	0.2375	31.6667	1.1039
24	03:30:16	0.2383	0.2377	31.6933	1.1031
25	04:00:18	0.2384	0.2378	31.7067	1.1027
26	04:30:21	0.2385	0.2379	31.7200	1.1023
27	05:00:23	0.2387	0.2381	31.7467	1.1014
28	05:30:25	0.2388	0.2382	31.7600	1.1010
29	06:00:27	0.2388	0.2382	31.7600	1.1010
30	06:30:30	0.2389	0.2383	31.7733	1.1006
31	07:00:32	0.2390	0.2384	31.7867	1.1002
32	07:30:34	0.2390	0.2384	31.7867	1.1002
33	08:00:36	0.2391	0.2385	31.8000	1.0998
34	08:30:39	0.2391	0.2385	31.8000	1.0998
35	08:47:52	0.2391	0.2385	31.8000	1.0998

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

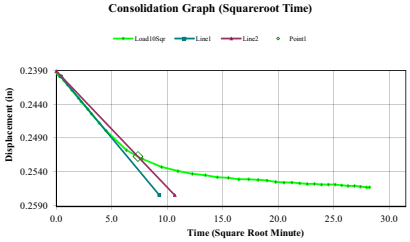
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

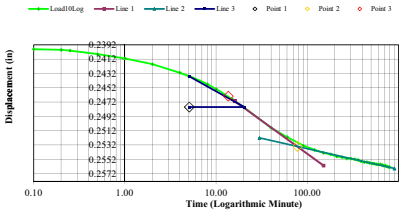
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2391	0.2385	31.8000	1.0998
1	00:00:01	0.2394	0.2388	31.8400	1.0986
2	00:00:02	0.2396	0.2390	31.8667	1.0977
3	00:00:03	0.2397	0.2391	31.8800	1.0973
4	00:00:04	0.2397	0.2391	31.8800	1.0973
5	00:00:05	0.2397	0.2391	31.8800	1.0973
6	00:00:06	0.2398	0.2392	31.8933	1.0969
7	00:00:12	0.2399	0.2393	31.9067	1.0965
8	00:00:15	0.2400	0.2394	31.9200	1.0961
9	00:00:30	0.2405	0.2399	31.9867	1.0941
10	00:01:00	0.2411	0.2405	32.0667	1.0916
11	00:02:00	0.2419	0.2413	32.1733	1.0883
12	00:04:00	0.2431	0.2425	32.3333	1.0834
13	00:05:01	0.2436	0.2430	32.4000	1.0813
14	00:08:01	0.2447	0.2441	32.5467	1.0768
15	00:10:01	0.2454	0.2448	32.6400	1.0739
16	00:15:01	0.2468	0.2462	32.8267	1.0682
17	00:20:02	0.2479	0.2473	32.9733	1.0637
18	00:40:03	0.2508	0.2502	33.3600	1.0518
19	01:00:05	0.2521	0.2515	33.5333	1.0464
20	01:30:07	0.2533	0.2527	33.6933	1.0415
21	02:00:09	0.2539	0.2533	33.7733	1.0390
22	**02:30:12**	**0.2543**	**0.2537**	**33.8267**	**1.0374**
23	03:00:14	0.2545	0.2539	33.8533	1.0366
24	03:30:16	0.2548	0.2542	33.8933	1.0353
25	04:00:18	0.2549	0.2543	33.9067	1.0349
26	04:30:21	0.2551	0.2545	33.9333	1.0341
27	05:00:23	0.2551	0.2545	33.9333	1.0341
28	05:30:25	0.2552	0.2546	33.9467	1.0337
29	06:00:28	0.2553	0.2547	33.9600	1.0333
30	06:30:30	0.2555	0.2549	33.9867	1.0325
31	07:00:32	0.2556	0.2550	34.0000	1.0321
32	07:30:35	0.2556	0.2550	34.0000	1.0321
33	08:00:37	0.2557	0.2551	34.0133	1.0317
34	08:30:39	0.2558	0.2552	34.0267	1.0312
35	09:00:42	0.2558	0.2552	34.0267	1.0312
36	09:30:44	0.2559	0.2553	34.0400	1.0308
37	10:00:46	0.2559	0.2553	34.0400	1.0308
38	10:30:48	0.2559	0.2553	34.0400	1.0308
39	11:00:51	0.2560	0.2554	34.0533	1.0304
40	11:30:53	0.2561	0.2555	34.0667	1.0300
41	12:00:55	0.2561	0.2555	34.0667	1.0300
42	12:30:58	0.2562	0.2556	34.0800	1.0296
43	13:01:00	0.2563	0.2557	34.0933	1.0292
44	13:15:22	0.2563	0.2557	34.0933	1.0292

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

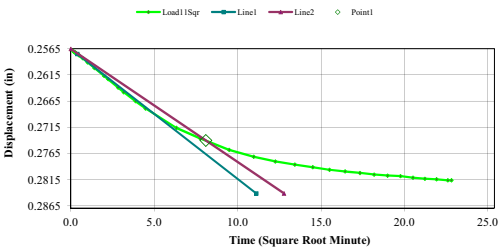
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

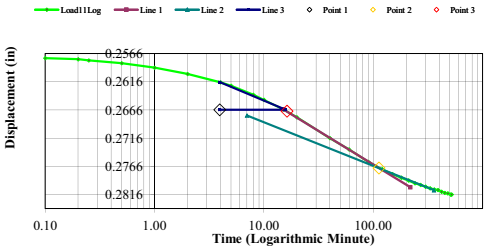
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2563	0.2557	34.0933	1.0292
1	00:00:01	0.2569	0.2563	34.1733	1.0267
2	00:00:02	0.2571	0.2565	34.2000	1.0259
3	00:00:03	0.2572	0.2566	34.2133	1.0255
4	00:00:04	0.2572	0.2566	34.2133	1.0255
5	00:00:05	0.2573	0.2567	34.2267	1.0251
6	00:00:06	0.2574	0.2568	34.2400	1.0247
7	00:00:12	0.2576	0.2570	34.2667	1.0239
8	00:00:15	0.2578	0.2572	34.2933	1.0230
9	00:00:30	0.2583	0.2577	34.3600	1.0210
10	00:01:00	0.2591	0.2585	34.4667	1.0177
11	00:02:00	0.2602	0.2596	34.6133	1.0132
12	00:04:00	0.2617	0.2611	34.8133	1.0070
13	00:05:00	0.2623	0.2617	34.8933	1.0046
14	00:08:00	0.2639	0.2633	35.1067	0.9980
15	00:10:00	0.2648	0.2642	35.2267	0.9943
16	00:15:01	0.2665	0.2659	35.4533	0.9873
17	00:20:01	0.2679	0.2673	35.6400	0.9816
18	00:40:03	0.2716	0.2710	36.1333	0.9664
19	01:00:04	0.2736	0.2730	36.4000	0.9582
20	01:30:07	0.2758	0.2752	36.6933	0.9491
21	02:00:09	0.2771	0.2765	36.8667	0.9438
22	02:30:11	0.2780	0.2774	36.9867	0.9401
23	03:00:13	0.2786	0.2780	37.0667	0.9376
24	03:30:16	0.2791	0.2785	37.1333	0.9356
25	04:00:18	0.2796	0.2790	37.2000	0.9335
26	04:30:20	0.2799	0.2793	37.2400	0.9323
27	05:00:22	0.2802	0.2796	37.2800	0.9311
28	05:30:25	0.2805	0.2799	37.3200	0.9298
29	06:00:27	0.2807	0.2801	37.3467	0.9290
30	06:30:29	0.2808	0.2802	37.3600	0.9286
31	07:00:32	0.2811	0.2805	37.4000	0.9274
32	07:30:34	0.2813	0.2807	37.4267	0.9266
33	08:00:36	0.2814	0.2808	37.4400	0.9261
34	08:30:38	0.2816	0.2810	37.4667	0.9253
35	08:40:25	0.2816	0.2810	37.4667	0.9253

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

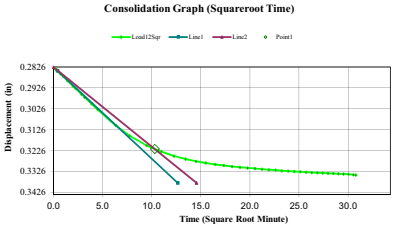
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 17 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 7 Peat (PT)
Depth: 12 - 14 feet **Remarks:**
Sample Type: Undisturbed

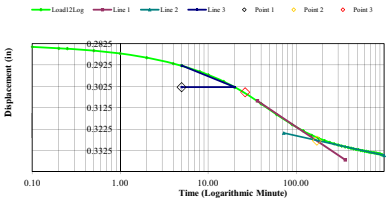
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2816	0.2810	37.4667	0.9253
1	00:00:01	0.2831	0.2825	37.6667	0.9192
2	00:00:02	0.2834	0.2828	37.7067	0.9179
3	00:00:03	0.2836	0.2830	37.7333	0.9171
4	00:00:04	0.2838	0.2832	37.7600	0.9163
5	00:00:05	0.2839	0.2833	37.7733	0.9159
6	00:00:06	0.2840	0.2834	37.7867	0.9155
7	00:00:12	0.2847	0.2841	37.8800	0.9126
8	00:00:15	0.2848	0.2842	37.8933	0.9122
9	00:00:30	0.2858	0.2852	38.0267	0.9081
10	00:01:00	0.2871	0.2865	38.2000	0.9027
11	00:02:00	0.2891	0.2885	38.4667	0.8945
12	00:04:00	0.2918	0.2912	38.8267	0.8835
13	00:05:01	0.2928	0.2922	38.9600	0.8794
14	00:08:01	0.2956	0.2950	39.3333	0.8679
15	00:10:01	0.2971	0.2965	39.5333	0.8617
16	00:15:01	0.3002	0.2996	39.9467	0.8490
17	00:20:02	0.3029	0.3023	40.3067	0.8379
18	00:40:03	0.3106	0.3100	41.3333	0.8063
19	01:00:05	0.3156	0.3150	42.0000	0.7858
20	01:30:07	0.3203	0.3197	42.6267	0.7665
21	02:00:09	0.3232	0.3226	43.0133	0.7546
22	02:30:12	0.3253	0.3247	43.2933	0.7459
23	03:00:14	0.3267	0.3261	43.4800	0.7402
24	03:30:16	0.3278	0.3272	43.6267	0.7357
25	04:00:18	0.3286	0.3280	43.7333	0.7324
26	04:30:21	0.3293	0.3287	43.8267	0.7295
27	05:00:23	0.3298	0.3292	43.8933	0.7275
28	05:30:25	0.3303	0.3297	43.9600	0.7254
29	06:00:27	0.3307	0.3301	44.0133	0.7238
30	06:30:30	0.3310	0.3304	44.0533	0.7225
31	07:00:32	0.3313	0.3307	44.0933	0.7213
32	07:30:34	0.3316	0.3310	44.1333	0.7201
33	08:00:37	0.3319	0.3313	44.1733	0.7188
34	08:30:39	0.3320	0.3314	44.1867	0.7184
35	09:00:41	0.3324	0.3318	44.2400	0.7168
36	09:30:43	0.3325	0.3319	44.2533	0.7164
37	10:00:46	0.3327	0.3321	44.2800	0.7156
38	10:30:48	0.3328	0.3322	44.2933	0.7151
39	11:00:50	0.3330	0.3324	44.3200	0.7143
40	11:30:53	0.3332	0.3326	44.3467	0.7135
41	12:00:55	0.3333	0.3327	44.3600	0.7131
42	12:30:57	0.3334	0.3328	44.3733	0.7127
43	13:00:59	0.3335	0.3329	44.3867	0.7123
44	13:31:02	0.3336	0.3330	44.4000	0.7119
45	14:01:04	0.3338	0.3332	44.4267	0.7110
46	14:31:06	0.3339	0.3333	44.4400	0.7106
47	15:01:08	0.3340	0.3334	44.4533	0.7102
48	15:31:11	0.3343	0.3337	44.4933	0.7090
49	15:47:42	0.3344	0.3338	44.5067	0.7086

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

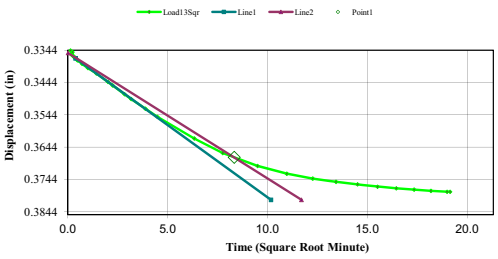
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

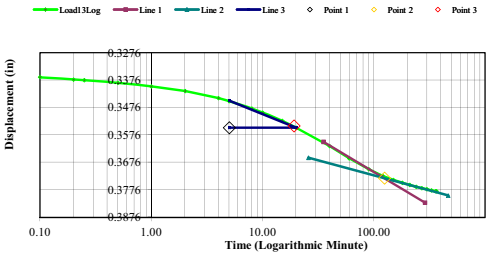
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3344	0.3338	44.5067	0.7086
1	00:00:01	0.3345	0.3339	44.5200	0.7082
2	00:00:02	0.3358	0.3352	44.6933	0.7028
3	00:00:03	0.3350	0.3344	44.5867	0.7061
4	00:00:04	0.3362	0.3356	44.7467	0.7012
5	00:00:05	0.3364	0.3358	44.7733	0.7004
6	00:00:06	0.3365	0.3359	44.7867	0.7000
7	00:00:12	0.3374	0.3368	44.9067	0.6963
8	00:00:15	0.3376	0.3370	44.9333	0.6954
9	00:00:30	0.3386	0.3380	45.0667	0.6913
10	00:01:00	0.3399	0.3393	45.2400	0.6860
11	00:02:01	0.3416	0.3410	45.4667	0.6790
12	00:04:01	0.3442	0.3436	45.8133	0.6683
13	00:05:01	0.3453	0.3447	45.9600	0.6638
14	00:08:01	0.3480	0.3474	46.3200	0.6527
15	00:10:01	0.3495	0.3489	46.5200	0.6466
16	00:15:02	0.3525	0.3519	46.9200	0.6343
17	00:20:02	0.3550	0.3544	47.2533	0.6240
18	00:40:03	0.3617	0.3611	48.1467	0.5965
19	01:00:05	0.3662	0.3656	48.7467	0.5780
20	01:30:07	0.3702	0.3696	49.2800	0.5616
21	02:00:09	0.3726	0.3720	49.6000	0.5518
22	02:30:12	0.3741	0.3735	49.8000	0.5456
23	03:00:14	0.3751	0.3745	49.9333	0.5415
24	03:30:16	0.3759	0.3753	50.0400	0.5382
25	04:00:19	0.3766	0.3760	50.1333	0.5353
26	04:30:21	0.3771	0.3765	50.2000	0.5333
27	05:00:23	0.3775	0.3769	50.2533	0.5316
28	05:30:25	0.3779	0.3773	50.3067	0.5300
29	06:00:28	0.3782	0.3776	50.3467	0.5288
30	06:06:11	0.3782	0.3776	50.3467	0.5288

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 17 Oct 11
Test Number:

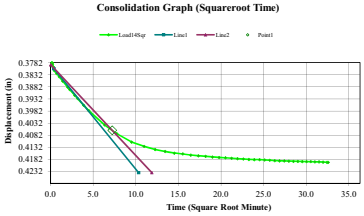
Sample Number:
Boring Number: 7
Depth: 12 - 14 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

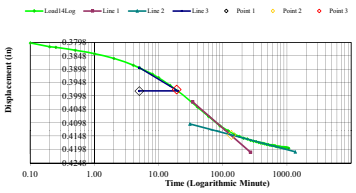
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3782	0.3776	50.3467	0.5288
1	00:00:01	0.3783	0.3777	50.3600	0.5284
2	00:00:02	0.3783	0.3777	50.3600	0.5284
3	00:00:03	0.3788	0.3782	50.4267	0.5263
4	00:00:04	0.3798	0.3792	50.5600	0.5222
5	00:00:05	0.3800	0.3794	50.5867	0.5214
6	00:00:06	0.3800	0.3794	50.5867	0.5214
7	00:00:12	0.3814	0.3808	50.7733	0.5156
8	00:00:15	0.3816	0.3810	50.8000	0.5148
9	00:00:30	0.3827	0.3821	50.9467	0.5103
10	00:01:00	0.3840	0.3834	51.1200	0.5050
11	00:02:00	0.3858	0.3852	51.3600	0.4976
12	00:04:01	0.3883	0.3877	51.6933	0.4873
13	00:05:01	0.3893	0.3887	51.8267	0.4832
14	00:08:01	0.3917	0.3911	52.1467	0.4733
15	00:10:01	0.3930	0.3924	52.3200	0.4680
16	00:15:01	0.3958	0.3952	52.6933	0.4565
17	00:20:02	0.3980	0.3974	52.9867	0.4475
18	00:40:03	0.4039	0.4033	53.7733	0.4233
19	01:00:05	0.4075	0.4069	54.2533	0.4085
20	01:30:07	0.4110	0.4104	54.7200	0.3941
21	02:00:09	0.4128	0.4122	54.9600	0.3867
22	02:30:12	0.4141	0.4135	55.1333	0.3814
23	03:00:14	0.4149	0.4143	55.2400	0.3781
24	03:30:16	0.4156	0.4150	55.3333	0.3752
25	04:00:18	0.4159	0.4153	55.3733	0.3740
26	04:30:20	0.4164	0.4158	55.4400	0.3720
27	**05:00:23**	**0.4167**	**0.4161**	**55.4800**	**0.3707**
28	05:30:25	0.4169	0.4163	55.5067	0.3699
29	06:00:27	0.4172	0.4166	55.5467	0.3687
30	06:30:29	0.4174	0.4168	55.5733	0.3678
31	07:00:32	0.4175	0.4169	55.5867	0.3674
32	07:30:34	0.4177	0.4171	55.6133	0.3666
33	08:00:36	0.4179	0.4173	55.6400	0.3658
34	08:30:39	0.4180	0.4174	55.6533	0.3654
35	09:00:41	0.4182	0.4176	55.6800	0.3646
36	09:30:43	0.4183	0.4177	55.6933	0.3642
37	10:00:45	0.4183	0.4177	55.6933	0.3642
38	10:30:48	0.4184	0.4178	55.7067	0.3637
39	11:00:50	0.4185	0.4179	55.7200	0.3633
40	11:30:52	0.4187	0.4181	55.7467	0.3625
41	12:00:55	0.4188	0.4182	55.7600	0.3621
42	12:30:57	0.4188	0.4182	55.7600	0.3621
43	13:00:59	0.4189	0.4183	55.7733	0.3617
44	13:31:01	0.4190	0.4184	55.7867	0.3613
45	14:01:04	0.4190	0.4184	55.7867	0.3613
46	14:31:06	0.4191	0.4185	55.8000	0.3609
47	15:01:08	0.4191	0.4185	55.8000	0.3609
48	15:31:11	0.4191	0.4185	55.8000	0.3609
49	16:01:13	0.4192	0.4186	55.8133	0.3605
50	16:31:15	0.4192	0.4186	55.8133	0.3605
51	17:01:17	0.4193	0.4187	55.8267	0.3600
52	17:31:20	0.4194	0.4188	55.8400	0.3596
53	17:40:20	0.4194	0.4188	55.8400	0.3596

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



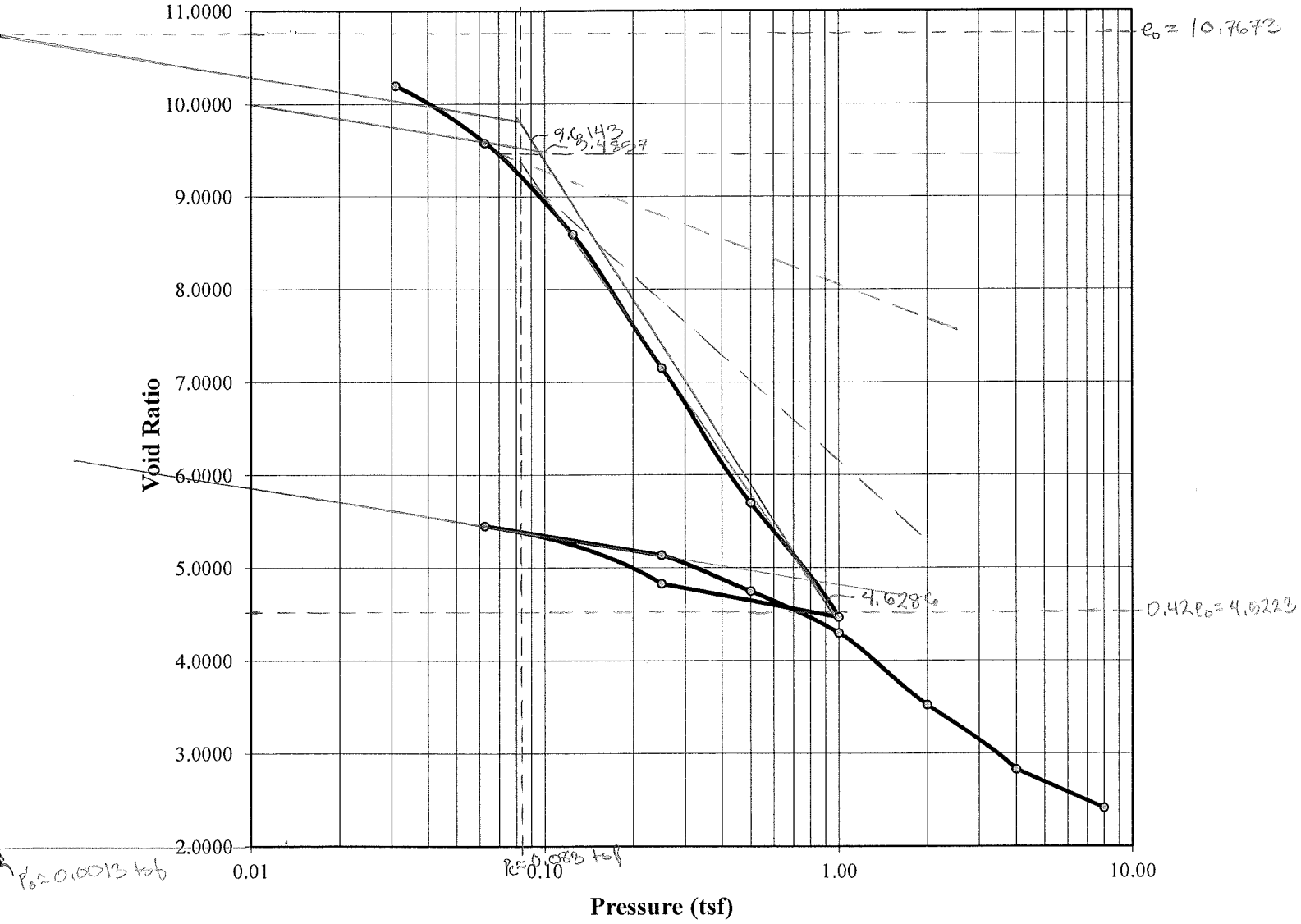
Consolidation Graph (Logarithmic Time)



35 ticks = 1.0
(60 ticks = 1")

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	545.92	154.66	**Liquid Limits:**	641	**Test Date:**	26 Oct 11
Dry Density (pcf):	10.07	27.61	**Plastic Limits:**	192		
Saturation (%):	96.25	89.20	**Plasticity Index (%):**	449		
Void Ratio:	10.7673	2.4204	**Specific Gravity:**	1.897	Measured	

Soil Description: Peat (PT)

0.42e₀ = 4.5223

Project Number: 16715-023-00 **Depth:** 4 - 6 feet

Sample Number: **Boring Number:** 8

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

Remarks: Mudline at 4' depth completely submerged.
γ = 6.4592 (10.07) = 65.04 pcf
γ' = 65 - 62.4 = 2.6 pcf
p'₀ = 2.6 pcf × 1 ft = 2.6 psf

p'₀ = 0.0013 tsf

$OCR = \frac{0.0893}{0.0013} = 63.8$

$C_c = \frac{9.6143 - 4.6283}{\log(0.9/0.09)} = 4.986$

$CR = \frac{4.986}{11.7673} = 0.4237$

$C_r = \frac{10 - 9.4857}{\log(0.1/0.01)} = 0.5143$

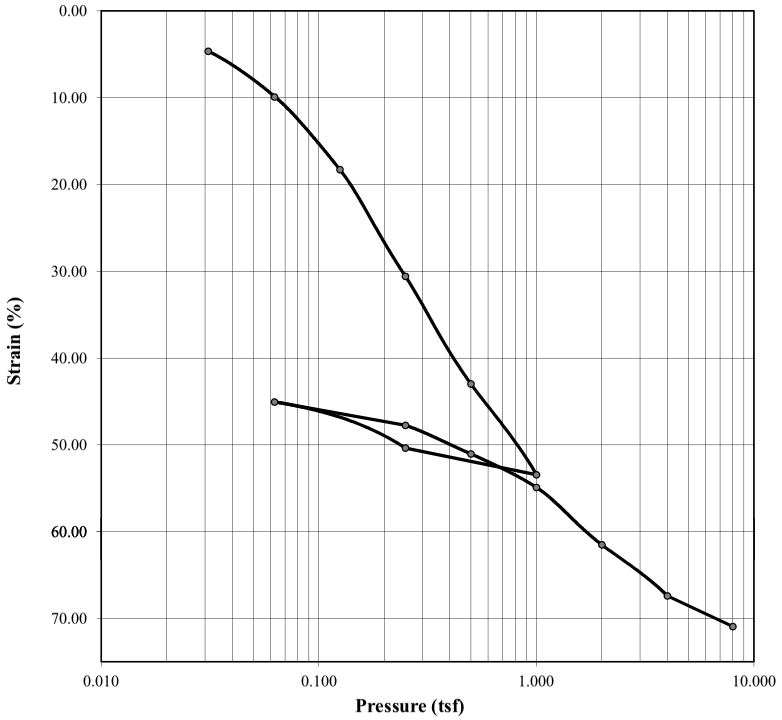
$RR = \frac{0.5143}{11.7673} = 0.0437$

C_v @ p'₀ ≈ 313 ft²/yr (assumed based on next closest measured value)
= 0.8576 ft²/day

C_v @ P_c = 188 ft²/yr
= 0.5156 ft²/day

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	545.92	154.66	**Liquid Limits:**	641	**Test Date:**	26 Oct 11
Dry Density (pcf):	10.07	27.61	**Plastic Limits:**	192		
Saturation (%):	96.25	89.20	**Plasticity Index (%):**	449		
Void Ratio:	10.7673	2.4204	**Specific Gravity:**	1.897	Measured	

Sample Description: Peat (PT)

Project Number: 16715-023-00 **Depth:** 4 - 6 feet **Remarks:**

Sample Number: **Boring Number:** 8

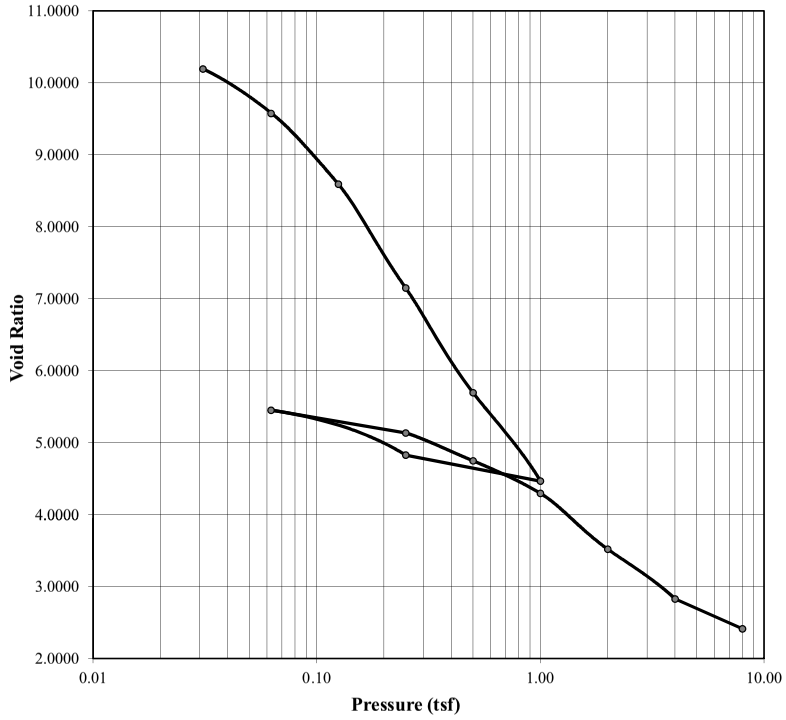
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	545.92	154.66	**Liquid Limits:**	641	**Test Date:**	26 Oct 11
Dry Density (pcf):	10.07	27.61	**Plastic Limits:**	192		
Saturation (%):	96.25	89.20	**Plasticity Index (%):**	449		
Void Ratio:	10.7673	2.4204	**Specific Gravity:**	1.897	Measured	

Soil Description: Peat (PT)

Project Number: 16715-023-00 **Depth:** 4 - 6 feet **Remarks:**

Sample Number: **Boring Number:** 8

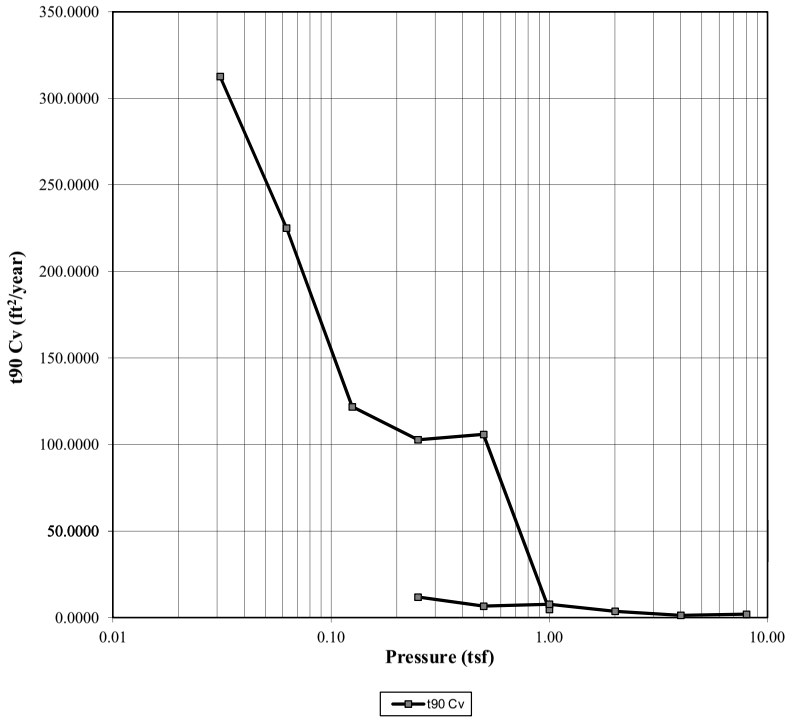
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	545.92	154.66	**Liquid Limits:**	641	**Test Date:**	26 Oct 11
Dry Density (pcf):	10.07	27.61	**Plastic Limits:**	192		
Saturation (%):	96.25	89.20	**Plasticity Index (%):**	449		
Void Ratio:	10.7673	2.4204	**Specific Gravity:**	1.897	Measured	

Soil Description: Peat (PT)

Project Number: 16715-023-00 **Depth:** 4 - 6 feet **Remarks:**

Sample Number: **Boring Number:** 8

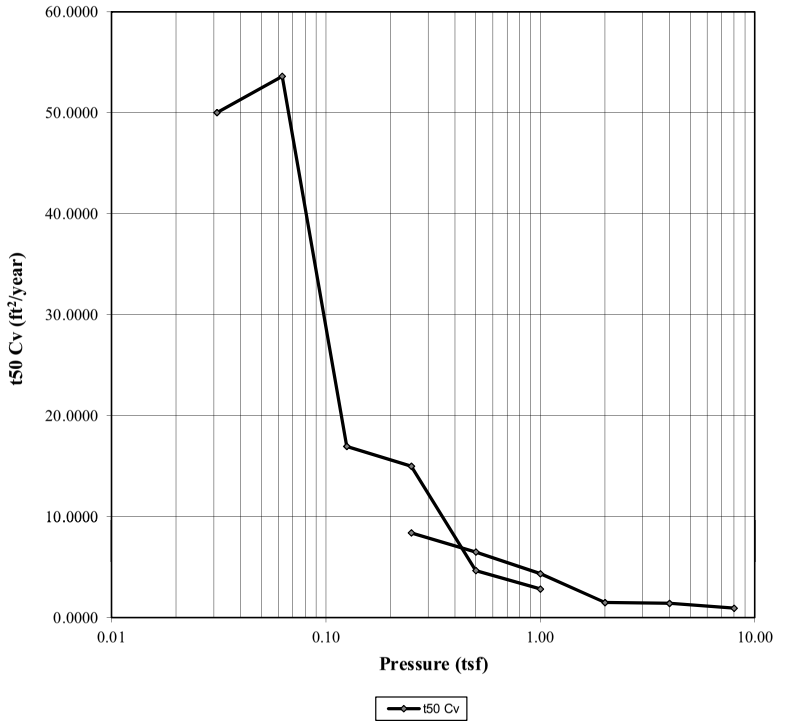
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	545.92	154.66	**Liquid Limits:**	641	**Test Date:**	26 Oct 11
Dry Density (pcf):	10.07	27.61	**Plastic Limits:**	192		
Saturation (%):	96.25	89.20	**Plasticity Index (%):**	449		
Void Ratio:	10.7673	2.4204	**Specific Gravity:**	1.897	Measured	

Soil Description: Peat (PT)

Project Number: 16715-023-00 **Depth:** 4 - 6 feet **Remarks:**

Sample Number: **Boring Number:** 8

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

GeoEngineers

Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:
Project Number: 16715-023-00

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed
Sample Description: Peat (PT)
Remarks:
Test Number:
Test Date: 26 Oct 11

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	0.7500	0.6861	0.00	10.7390	0.000	0.000	0.000	0.000
1	0.031	0.0348	0.7152	0.6513	4.64	10.1943	1.266	1.839	312.569	50.012
2	0.063	0.0743	0.6757	0.6118	9.91	9.5761	1.570	1.531	225.024	53.605
3	0.125	0.1371	0.6129	0.5490	18.28	8.5931	2.386	3.983	121.808	16.953
4	0.250	0.2293	0.5207	0.4568	30.57	7.1500	2.042	3.251	102.735	14.992
5	0.500	0.3223	0.4277	0.3638	42.97	5.6944	1.337	7.060	105.841	4.658
6	1.000	0.4008	0.3492	0.2853	53.44	4.4657	20.130	7.755	4.687	2.827
7	0.250	0.3777	0.3723	0.3084	50.36	4.8272	0.000	0.000	0.000	0.000
8	0.063	0.3379	0.4121	0.3482	45.05	5.4502	0.000	0.000	0.000	0.000
9	0.250	0.3581	0.3919	0.3280	47.75	5.1340	10.029	3.291	11.850	8.390
10	0.500	0.3828	0.3672	0.3033	51.04	4.7474	15.829	3.730	6.592	6.499
11	1.000	0.4117	0.3383	0.2744	54.89	4.2951	11.461	4.729	7.727	4.350
12	2.000	0.4613	0.2887	0.2248	61.51	3.5187	17.699	10.037	3.644	1.493
13	4.000	0.5055	0.2445	0.1806	67.40	2.8269	34.454	7.598	1.343	1.414
14	8.000	0.5320	0.2180	0.1541	70.93	2.4121	18.834	9.162	1.953	0.932

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:
Project Number: 6715-023-00
Test Date: 26 Oct 11

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed
Sample Description: Peat (PT)
Remarks:

Test Number:
Liquid Limit: 641.0000
Plastic Limit: 192.0000
Specific Gravity: 1.8970 Measured
Initial Void Ratio: 10.7673
Plasticity Index (%): 449.0000
Weight of Ring (g): 219.9700
Initial Height (in): 0.7500
Initial Diameter (in): 2.5000

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	110.45	38.97
Dry Soil + Container (g)	33.42	27.03
Weight of Container (g)	19.31	19.31
Moisture Content (%)	545.92	154.66
Void Ratio	10.7673	2.4204
Saturation (%)	96.25	89.20
Dry Density (pcf)	10.07	27.61

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

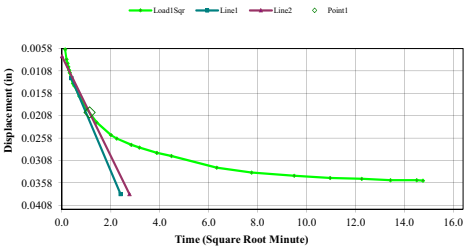
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

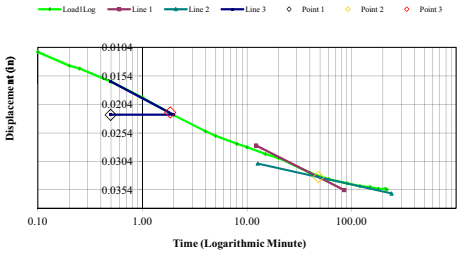
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0005	0.0000	0.0000	10.7673
1	00:00:01	0.0060	0.0055	0.7333	10.6810
2	00:00:02	0.0082	0.0077	1.0267	10.6465
3	00:00:03	0.0091	0.0086	1.1467	10.6323
4	00:00:04	0.0099	0.0094	1.2533	10.6198
5	00:00:05	0.0106	0.0101	1.3467	10.6088
6	00:00:06	0.0112	0.0107	1.4267	10.5994
7	00:00:12	0.0136	0.0131	1.7467	10.5617
8	00:00:15	0.0141	0.0136	1.8133	10.5539
9	00:00:30	0.0164	0.0159	2.1200	10.5178
10	00:01:00	0.0192	0.0187	2.4933	10.4739
11	00:02:00	0.0223	0.0218	2.9067	10.4252
12	00:04:00	0.0251	0.0246	3.2800	10.3813
13	00:05:00	0.0259	0.0254	3.3867	10.3687
14	00:08:00	0.0273	0.0268	3.5733	10.3468
15	00:10:00	0.0279	0.0274	3.6533	10.3374
16	00:15:01	0.0291	0.0286	3.8133	10.3185
17	00:20:01	0.0298	0.0293	3.9067	10.3076
18	00:40:02	0.0324	0.0319	4.2533	10.2668
19	01:00:04	0.0335	0.0330	4.4000	10.2495
20	01:30:06	0.0342	0.0337	4.4933	10.2385
21	02:00:08	0.0347	0.0342	4.5600	10.2307
22	02:30:10	0.0349	0.0344	4.5867	10.2275
23	03:00:13	0.0352	0.0347	4.6267	10.2228
24	03:30:15	0.0352	0.0347	4.6267	10.2228
25	03:37:44	0.0353	0.0348	4.6400	10.2213

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

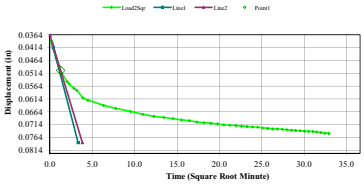
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

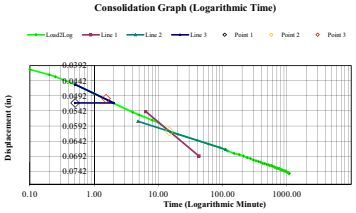
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0353	0.0348	4.6400	10.2213
1	00:00:01	0.0389	0.0384	5.1200	10.1648
2	00:00:02	0.0390	0.0385	5.1333	10.1632
3	00:00:03	0.0395	0.0390	5.2000	10.1554
4	00:00:04	0.0398	0.0393	5.2400	10.1507
5	00:00:05	0.0402	0.0397	5.2933	10.1444
6	00:00:06	0.0405	0.0400	5.3333	10.1397
7	00:00:12	0.0422	0.0417	5.5600	10.1130
8	00:00:15	0.0429	0.0424	5.6533	10.1020
9	00:00:30	0.0454	0.0449	5.9867	10.0628
10	00:01:00	0.0484	0.0479	6.3867	10.0157
11	00:02:00	0.0516	0.0511	6.8133	9.9655
12	00:04:00	0.0546	0.0541	7.2133	9.9185
13	00:05:00	0.0555	0.0550	7.3333	9.9043
14	00:08:00	0.0572	0.0567	7.5600	9.8777
15	00:10:00	0.0580	0.0575	7.6667	9.8651
16	00:15:01	0.0610	0.0605	8.0667	9.8180
17	00:20:01	0.0619	0.0614	8.1867	9.8039
18	00:40:03	0.0639	0.0634	8.4533	9.7725
19	01:00:04	0.0651	0.0646	8.6133	9.7537
20	01:30:06	0.0663	0.0658	8.7733	9.7349
21	02:00:09	0.0674	0.0669	8.9200	9.7176
22	02:30:11	0.0682	0.0677	9.0267	9.7051
23	03:00:13	0.0686	0.0681	9.0800	9.6988
24	03:30:16	0.0691	0.0686	9.1467	9.6910
25	04:00:18	0.0696	0.0691	9.2133	9.6831
26	04:30:20	0.0699	0.0694	9.2533	9.6784
27	05:00:22	0.0704	0.0699	9.3200	9.6706
28	05:30:25	0.0707	0.0702	9.3600	9.6658
29	06:00:27	0.0709	0.0704	9.3867	9.6627
30	06:30:29	0.0711	0.0706	9.4133	9.6596
31	07:00:32	0.0715	0.0710	9.4667	9.6533
32	07:30:34	0.0716	0.0711	9.4800	9.6517
33	08:00:36	0.0718	0.0713	9.5067	9.6486
34	08:30:38	0.0720	0.0715	9.5333	9.6455
35	09:00:41	0.0722	0.0717	9.5600	9.6423
36	09:30:43	0.0723	0.0718	9.5733	9.6407
37	10:00:45	0.0724	0.0719	9.5867	9.6392
38	10:30:47	0.0727	0.0722	9.6267	9.6345
39	11:00:50	0.0729	0.0724	9.6533	9.6313
40	11:30:52	0.0731	0.0726	9.6800	9.6282
41	12:00:54	0.0731	0.0726	9.6800	9.6282
42	12:30:57	0.0732	0.0727	9.6933	9.6266
43	13:00:59	0.0734	0.0729	9.7200	9.6235
44	13:31:01	0.0736	0.0731	9.7467	9.6203
45	14:01:03	0.0737	0.0732	9.7600	9.6188
46	14:31:06	0.0738	0.0733	9.7733	9.6172
47	15:01:08	0.0740	0.0735	9.8000	9.6141
48	15:31:10	0.0740	0.0735	9.8000	9.6141
49	16:01:13	0.0741	0.0736	9.8133	9.6125
50	16:31:15	0.0743	0.0738	9.8400	9.6094
51	17:01:17	0.0745	0.0740	9.8667	9.6062
52	17:31:20	0.0747	0.0742	9.8933	9.6031
53	18:01:22	0.0748	0.0743	9.9067	9.6015
54	18:03:15	0.0748	0.0743	9.9067	9.6015

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

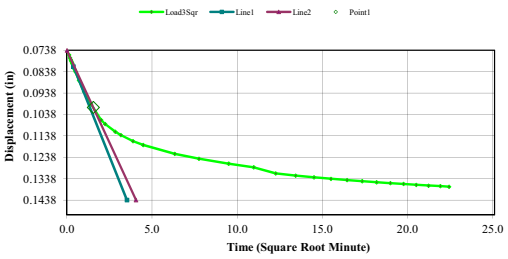
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

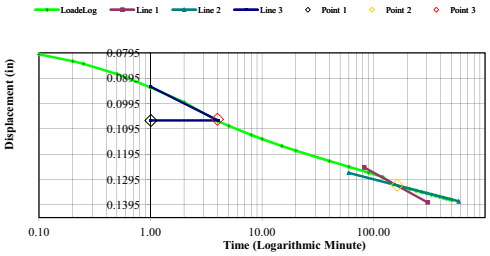
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0748	0.0743	9.9067	9.6015
1	00:00:01	0.0760	0.0755	10.0667	9.5827
2	00:00:02	0.0774	0.0769	10.2533	9.5607
3	00:00:03	0.0783	0.0778	10.3733	9.5466
4	00:00:04	0.0789	0.0784	10.4533	9.5372
5	00:00:05	0.0796	0.0791	10.5467	9.5262
6	00:00:06	0.0801	0.0796	10.6133	9.5184
7	00:00:12	0.0828	0.0823	10.9733	9.4760
8	00:00:15	0.0838	0.0833	11.1067	9.4603
9	00:00:30	0.0879	0.0874	11.6533	9.3960
10	00:01:00	0.0931	0.0926	12.3467	9.3144
11	00:02:00	0.0990	0.0985	13.1333	9.2218
12	00:04:01	0.1064	0.1059	14.1200	9.1057
13	00:05:01	0.1083	0.1078	14.3733	9.0759
14	00:08:01	0.1119	0.1114	14.8533	9.0194
15	00:10:01	0.1135	0.1130	15.0667	8.9943
16	00:15:01	0.1163	0.1158	15.4400	8.9504
17	00:20:02	0.1181	0.1176	15.6800	8.9222
18	00:40:03	0.1222	0.1217	16.2267	8.8578
19	01:00:05	0.1245	0.1240	16.5333	8.8217
20	01:30:07	0.1268	0.1263	16.8400	8.7857
21	02:00:09	0.1285	0.1280	17.0667	8.7590
22	02:30:12	0.1314	0.1309	17.4533	8.7135
23	03:00:14	0.1324	0.1319	17.5867	8.6978
24	03:30:16	0.1332	0.1327	17.6933	8.6852
25	04:00:19	0.1339	0.1334	17.7867	8.6743
26	04:30:21	0.1345	0.1340	17.8667	8.6648
27	05:00:23	0.1350	0.1345	17.9333	8.6570
28	05:30:26	0.1355	0.1350	18.0000	8.6492
29	06:00:28	0.1359	0.1354	18.0533	8.6429
30	06:30:30	0.1363	0.1358	18.1067	8.6366
31	07:00:32	0.1367	0.1362	18.1600	8.6303
32	07:30:35	0.1371	0.1366	18.2133	8.6241
33	08:00:37	0.1373	0.1368	18.2400	8.6209
34	08:23:04	0.1376	0.1371	18.2800	8.6162

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

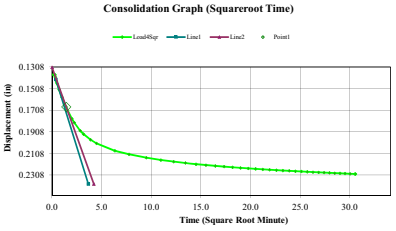
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

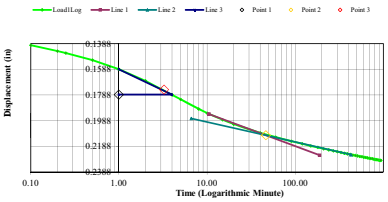
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1376	0.1371	18.2800	8.6162
1	00:00:01	0.1377	0.1372	18.2933	8.6146
2	00:00:02	0.1377	0.1372	18.2933	8.6146
3	00:00:03	0.1377	0.1372	18.2933	8.6146
4	00:00:04	0.1377	0.1372	18.2933	8.6146
5	00:00:05	0.1380	0.1375	18.3333	8.6099
6	00:00:06	0.1399	0.1394	18.5867	8.5801
7	00:00:12	0.1445	0.1440	19.2000	8.5080
8	00:00:15	0.1460	0.1455	19.4000	8.4844
9	00:00:30	0.1515	0.1510	20.1333	8.3981
10	00:01:00	0.1587	0.1582	21.0933	8.2852
11	00:02:00	0.1677	0.1672	22.2933	8.1440
12	00:04:01	0.1787	0.1782	23.7600	7.9714
13	00:05:01	0.1822	0.1817	24.2267	7.9165
14	00:08:01	0.1897	0.1892	25.2267	7.7988
15	00:10:01	0.1929	0.1924	25.6533	7.7486
16	00:15:01	0.1981	0.1976	26.3467	7.6670
17	00:20:02	0.2015	0.2010	26.8000	7.6136
18	00:40:03	0.2083	0.2078	27.7067	7.5069
19	01:00:05	0.2116	0.2111	28.1467	7.4552
20	01:30:07	0.2148	0.2143	28.5733	7.4050
21	02:00:09	0.2169	0.2164	28.8533	7.3720
22	02:30:12	0.2185	0.2180	29.0667	7.3469
23	03:00:14	0.2196	0.2191	29.2133	7.3297
24	03:30:16	0.2208	0.2203	29.3733	7.3108
25	04:00:19	0.2216	0.2211	29.4800	7.2983
26	04:30:21	0.2224	0.2219	29.5867	7.2857
27	05:00:23	0.2230	0.2225	29.6667	7.2763
28	05:30:25	0.2236	0.2231	29.7467	7.2669
29	06:00:28	0.2242	0.2237	29.8267	7.2575
30	06:30:30	0.2247	0.2242	29.8933	7.2496
31	07:00:32	0.2251	0.2246	29.9467	7.2434
32	07:30:34	0.2256	0.2251	30.0133	7.2355
33	08:00:37	0.2259	0.2254	30.0533	7.2308
34	08:30:39	0.2263	0.2258	30.1067	7.2245
35	09:00:41	0.2267	0.2262	30.1600	7.2183
36	09:30:44	0.2269	0.2264	30.1867	7.2151
37	10:00:46	0.2273	0.2268	30.2400	7.2088
38	10:30:48	0.2275	0.2270	30.2667	7.2057
39	11:00:51	0.2278	0.2273	30.3067	7.2010
40	11:30:53	0.2281	0.2276	30.3467	7.1963
41	12:00:55	0.2283	0.2278	30.3733	7.1932
42	12:30:57	0.2285	0.2280	30.4000	7.1900
43	13:01:00	0.2288	0.2283	30.4400	7.1853
44	13:31:02	0.2291	0.2286	30.4800	7.1806
45	14:01:04	0.2292	0.2287	30.4933	7.1790
46	14:31:07	0.2294	0.2289	30.5200	7.1759
47	15:01:09	0.2297	0.2292	30.5600	7.1712
48	15:31:11	0.2298	0.2293	30.5733	7.1696
49	15:33:56	0.2298	0.2293	30.5733	7.1696

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

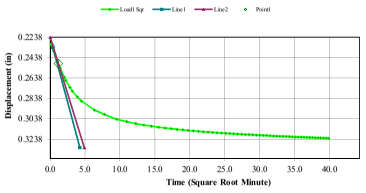
Soil Description: Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.2298	0.2293	30.5733	7.1696
1	00:00:01	0.2308	0.2303	30.7067	7.1539
2	00:00:02	0.2308	0.2303	30.7067	7.1539
3	00:00:03	0.2308	0.2303	30.7067	7.1539
4	00:00:04	0.2308	0.2303	30.7067	7.1539
5	00:00:05	0.2308	0.2303	30.7067	7.1539
6	00:00:06	0.2312	0.2307	30.7600	7.1477
7	00:00:12	0.2360	0.2355	31.4000	7.0723
8	00:00:15	0.2372	0.2367	31.5600	7.0535
9	00:00:30	0.2413	0.2408	32.1067	6.9892
10	00:01:00	0.2468	0.2463	32.8400	6.9029
11	00:02:00	0.2540	0.2535	33.8000	6.7899
12	00:04:00	0.2628	0.2623	34.9733	6.6519
13	00:05:01	0.2660	0.2655	35.4000	6.6017
14	00:08:01	0.2731	0.2726	36.3467	6.4903
15	00:10:01	0.2766	0.2761	36.8133	6.4353
16	00:15:01	0.2823	0.2818	37.5733	6.3459
17	00:20:02	0.2864	0.2859	38.1200	6.2816
18	00:40:03	0.2952	0.2947	39.2933	6.1435
19	01:00:05	0.2994	0.2989	39.8533	6.0776
20	01:30:07	0.3041	0.3036	40.4800	6.0039
21	02:00:09	0.3065	0.3060	40.8000	5.9662
22	02:30:12	0.3085	0.3080	41.0667	5.9348
23	03:00:14	0.3099	0.3094	41.2533	5.9129
24	03:30:16	0.3110	0.3105	41.4000	5.8956
25	04:00:19	0.3120	0.3115	41.5333	5.8799
26	04:30:21	0.3128	0.3123	41.6400	5.8674
27	05:00:23	0.3135	0.3130	41.7333	5.8564
28	05:30:25	0.3142	0.3137	41.8267	5.8454
29	06:00:28	0.3146	0.3141	41.8800	5.8391
30	06:30:30	0.3151	0.3146	41.9467	5.8313
31	07:00:32	0.3156	0.3151	42.0133	5.8234
32	07:30:35	0.3161	0.3156	42.0800	5.8156
33	08:00:37	0.3165	0.3160	42.1333	5.8093
34	08:30:39	0.3168	0.3163	42.1733	5.8046
35	09:00:41	0.3171	0.3166	42.2133	5.7999
36	09:30:44	0.3175	0.3170	42.2667	5.7936
37	10:00:46	0.3177	0.3172	42.2933	5.7905
38	10:30:48	0.3179	0.3174	42.3200	5.7874
39	11:00:51	0.3182	0.3177	42.3600	5.7827
40	11:30:53	0.3184	0.3179	42.3867	5.7795
41	12:00:55	0.3186	0.3181	42.4133	5.7764
42	12:30:57	0.3189	0.3184	42.4533	5.7717
43	13:01:00	0.3192	0.3187	42.4933	5.7670
44	13:31:02	0.3193	0.3188	42.5067	5.7654
45	14:01:04	0.3195	0.3190	42.5333	5.7623
46	14:31:07	0.3197	0.3192	42.5600	5.7591
47	15:01:09	0.3199	0.3194	42.5867	5.7560
48	15:31:11	0.3200	0.3195	42.6000	5.7544
49	16:01:13	0.3201	0.3196	42.6133	5.7528
50	16:31:16	0.3204	0.3199	42.6533	5.7481
51	17:01:18	0.3206	0.3201	42.6800	5.7450
52	17:31:20	0.3208	0.3203	42.7067	5.7419
53	18:01:23	0.3209	0.3204	42.7200	5.7403
54	18:31:25	0.3209	0.3204	42.7200	5.7403
55	19:01:27	0.3211	0.3206	42.7467	5.7372
56	19:31:29	0.3212	0.3207	42.7600	5.7356
57	20:01:32	0.3214	0.3209	42.7867	5.7324
58	20:31:34	0.3216	0.3211	42.8133	5.7293
59	21:01:36	0.3216	0.3211	42.8133	5.7293
60	21:31:39	0.3217	0.3212	42.8267	5.7277
61	22:01:41	0.3218	0.3213	42.8400	5.7262
62	22:31:43	0.3220	0.3215	42.8667	5.7230
63	23:01:46	0.3221	0.3216	42.8800	5.7215
64	23:31:48	0.3222	0.3217	42.8933	5.7199
65	24:01:50	0.3224	0.3219	42.9200	5.7168
66	24:31:52	0.3224	0.3219	42.9200	5.7168
67	25:01:55	0.3225	0.3220	42.9333	5.7152
68	25:31:57	0.3226	0.3221	42.9467	5.7136
69	26:01:59	0.3227	0.3222	42.9600	5.7120
70	26:29:41	0.3228	0.3223	42.9733	5.7105

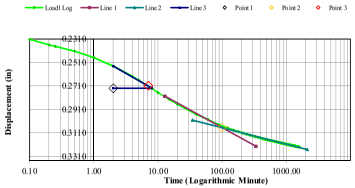
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

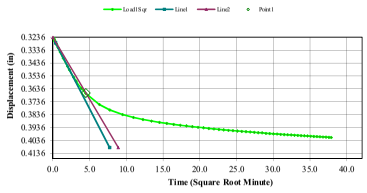
Soil Description: Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3228	0.3223	42.9733	5.7105
1	00:00:01	0.3245	0.3240	43.2000	5.6838
2	00:00:02	0.3254	0.3249	43.3200	5.6697
3	00:00:03	0.3260	0.3255	43.4000	5.6603
4	00:00:04	0.3265	0.3260	43.4667	5.6524
5	00:00:05	0.3268	0.3263	43.5067	5.6477
6	00:00:06	0.3272	0.3267	43.5600	5.6414
7	00:00:12	0.3287	0.3282	43.7600	5.6179
8	00:00:15	0.3292	0.3287	43.8267	5.6101
9	00:00:30	0.3316	0.3311	44.1467	5.5724
10	00:01:00	0.3350	0.3345	44.6000	5.5191
11	00:02:00	0.3398	0.3393	45.2400	5.4438
12	00:04:00	0.3462	0.3457	46.0933	5.3433
13	00:05:01	0.3488	0.3483	46.4400	5.3025
14	00:08:01	0.3546	0.3541	47.2133	5.2115
15	00:10:01	0.3576	0.3571	47.6133	5.1645
16	00:15:01	0.3633	0.3628	48.3733	5.0750
17	00:20:02	0.3672	0.3667	48.8933	5.0139
18	00:40:03	0.3757	0.3752	50.0267	4.8805
19	01:00:05	0.3800	0.3795	50.6000	4.8130
20	01:30:07	0.3836	0.3831	51.0800	4.7565
21	02:00:09	0.3858	0.3853	51.3733	4.7220
22	02:30:12	0.3874	0.3869	51.5867	4.6999
23	03:00:14	0.3886	0.3881	51.7467	4.6781
24	03:30:16	0.3896	0.3891	51.8800	4.6624
25	04:00:18	0.3904	0.3899	51.9867	4.6499
26	04:30:21	0.3912	0.3907	52.0933	4.6373
27	05:00:23	0.3918	0.3913	52.1733	4.6279
28	05:30:25	0.3923	0.3918	52.2400	4.6200
29	06:00:27	0.3929	0.3924	52.3200	4.6106
30	06:30:30	0.3934	0.3929	52.3867	4.6028
31	07:00:32	0.3938	0.3933	52.4400	4.5965
32	07:30:34	0.3943	0.3938	52.5067	4.5887
33	08:00:37	0.3947	0.3942	52.5600	4.5824
34	08:30:39	0.3951	0.3946	52.6133	4.5761
35	09:00:41	0.3954	0.3949	52.6533	4.5714
36	09:30:43	0.3958	0.3953	52.7067	4.5651
37	10:00:46	0.3960	0.3955	52.7333	4.5620
38	10:30:48	0.3963	0.3958	52.7733	4.5573
39	11:00:50	0.3966	0.3961	52.8133	4.5526
40	11:30:53	0.3968	0.3963	52.8400	4.5494
41	12:00:55	0.3970	0.3965	52.8667	4.5463
42	12:30:57	0.3973	0.3968	52.9067	4.5416
43	13:00:59	0.3976	0.3971	52.9467	4.5369
44	13:31:02	0.3977	0.3972	52.9600	4.5353
45	14:01:04	0.3976	0.3981	53.0133	4.5290
46	14:31:06	0.3983	0.3978	53.0400	4.5259
47	15:01:08	0.3985	0.3980	53.0667	4.5228
48	15:31:11	0.3986	0.3981	53.0800	4.5212
49	16:01:13	0.3989	0.3984	53.1200	4.5165
50	16:31:15	0.3991	0.3986	53.1467	4.5134
51	17:01:18	0.3992	0.3987	53.1600	4.5118
52	17:31:20	0.3993	0.3988	53.1733	4.5102
53	18:01:22	0.3995	0.3990	53.2000	4.5071
54	18:31:25	0.3997	0.3992	53.2267	4.5039
55	19:01:27	0.3999	0.3994	53.2533	4.5008
56	19:31:29	0.4000	0.3995	53.2667	4.4992
57	20:01:31	0.4001	0.3996	53.2800	4.4977
58	20:31:34	0.4003	0.3998	53.3067	4.4945
59	21:01:36	0.4005	0.4000	53.3333	4.4914
60	21:31:38	0.4006	0.4001	53.3467	4.4898
61	22:01:40	0.4008	0.4003	53.3733	4.4867
62	22:31:43	0.4009	0.4004	53.3867	4.4851
63	23:01:45	0.4010	0.4005	53.4000	4.4835
64	23:31:47	0.4012	0.4007	53.4267	4.4804
65	23:55:24	0.4013	0.4008	53.4400	4.4788

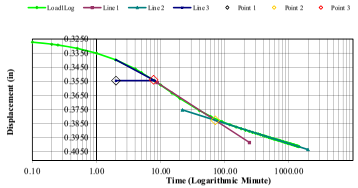
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 6) Load 1.000 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

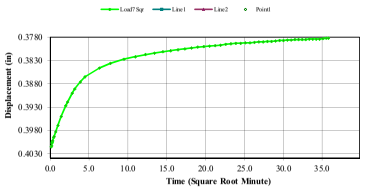
Soil Description: Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4013	0.4008	53.4400	4.4788
1	00:00:01	0.4015	0.4010	53.4667	4.4757
2	00:00:02	0.4013	0.4008	53.4400	4.4788
3	00:00:03	0.4007	0.4002	53.3600	4.4883
4	00:00:04	0.4005	0.4000	53.3333	4.4914
5	00:00:05	0.4003	0.3998	53.3067	4.4945
6	00:00:06	0.4002	0.3997	53.2933	4.4961
7	00:00:12	0.3995	0.3990	53.2000	4.5071
8	00:00:15	0.3993	0.3988	53.1733	4.5102
9	00:00:30	0.3983	0.3978	53.0400	4.5259
10	00:01:00	0.3969	0.3964	52.8533	4.5479
11	00:02:00	0.3950	0.3945	52.6000	4.5777
12	00:04:00	0.3927	0.3922	52.2933	4.6138
13	00:05:00	0.3919	0.3914	52.1867	4.6263
14	00:08:00	0.3900	0.3895	51.9333	4.6561
15	00:10:00	0.3891	0.3886	51.8133	4.6703
16	00:15:01	0.3876	0.3871	51.6133	4.6938
17	00:20:01	0.3865	0.3860	51.4667	4.7110
18	00:40:03	0.3846	0.3841	51.2133	4.7409
19	01:00:04	0.3836	0.3831	51.0800	4.7565
20	01:30:06	0.3827	0.3822	50.9600	4.7707
21	02:00:09	0.3822	0.3817	50.8933	4.7785
22	02:30:11	0.3817	0.3812	50.8267	4.7864
23	03:00:13	0.3814	0.3809	50.7867	4.7911
24	03:30:16	0.3811	0.3806	50.7467	4.7958
25	04:00:18	0.3809	0.3804	50.7200	4.7989
26	04:30:20	0.3807	0.3802	50.6933	4.8020
27	05:00:22	0.3805	0.3800	50.6667	4.8052
28	05:30:25	0.3803	0.3798	50.6400	4.8083
29	06:00:27	0.3801	0.3796	50.6133	4.8115
30	06:30:29	0.3800	0.3795	50.6000	4.8130
31	07:00:32	0.3799	0.3794	50.5867	4.8146
32	07:30:34	0.3798	0.3793	50.5733	4.8162
33	08:00:36	0.3797	0.3792	50.5600	4.8177
34	08:30:38	0.3795	0.3790	50.5333	4.8209
35	09:00:41	0.3794	0.3789	50.5200	4.8224
36	09:30:43	0.3793	0.3788	50.5067	4.8240
37	10:00:45	0.3793	0.3788	50.5067	4.8240
38	10:30:47	0.3792	0.3787	50.4933	4.8256
39	11:00:50	0.3792	0.3787	50.4933	4.8256
40	11:30:52	0.3791	0.3786	50.4800	4.8272
41	12:00:54	0.3790	0.3785	50.4667	4.8287
42	12:30:57	0.3790	0.3785	50.4667	4.8287
43	13:00:59	0.3789	0.3784	50.4533	4.8303
44	13:31:01	0.3789	0.3784	50.4533	4.8303
45	14:01:03	0.3788	0.3783	50.4400	4.8319
46	14:31:06	0.3787	0.3782	50.4267	4.8334
47	15:01:08	0.3787	0.3782	50.4267	4.8334
48	15:31:10	0.3786	0.3781	50.4133	4.8350
49	16:01:13	0.3786	0.3781	50.4133	4.8350
50	16:31:15	0.3785	0.3780	50.4000	4.8366
51	17:01:17	0.3785	0.3780	50.4000	4.8366
52	17:31:19	0.3785	0.3780	50.4000	4.8366
53	18:01:22	0.3785	0.3780	50.4000	4.8366
54	18:31:24	0.3784	0.3779	50.3867	4.8381
55	19:01:26	0.3784	0.3779	50.3867	4.8381
56	19:31:29	0.3784	0.3779	50.3867	4.8381
57	20:01:31	0.3784	0.3779	50.3867	4.8381
58	20:31:33	0.3783	0.3778	50.3733	4.8397
59	21:01:35	0.3782	0.3777	50.3600	4.8413
60	21:21:13	0.3782	0.3777	50.3600	4.8413

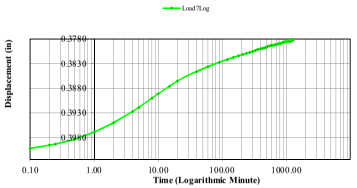
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

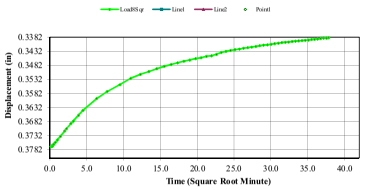
Soil Description: Peat (PT)
Remarks:

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3782	0.3777	50.3600	4.8413
1	00:00:01	0.3771	0.3766	50.2133	4.8585
2	00:00:02	0.3770	0.3765	50.2000	4.8601
3	00:00:03	0.3769	0.3764	50.1867	4.8617
4	00:00:04	0.3769	0.3764	50.1867	4.8617
5	00:00:05	0.3768	0.3763	50.1733	4.8632
6	00:00:06	0.3768	0.3763	50.1733	4.8632
7	00:00:12	0.3764	0.3759	50.1200	4.8695
8	00:00:15	0.3762	0.3757	50.0933	4.8727
9	00:00:30	0.3756	0.3751	50.0133	4.8821
10	00:01:00	0.3747	0.3742	49.8933	4.8962
11	00:02:00	0.3734	0.3729	49.7200	4.9166
12	00:04:00	0.3715	0.3710	49.4667	4.9464
13	00:05:00	0.3707	0.3702	49.3600	4.9589
14	00:08:00	0.3689	0.3684	49.1200	4.9872
15	00:10:00	0.3680	0.3675	49.0000	5.0013
16	00:15:01	0.3659	0.3654	48.7200	5.0343
17	00:20:01	0.3642	0.3637	48.4933	5.0609
18	00:40:03	0.3600	0.3595	47.9333	5.1268
19	01:00:04	0.3575	0.3570	47.6000	5.1660
20	01:30:07	0.3551	0.3546	47.2800	5.2037
21	02:00:09	0.3528	0.3523	46.9733	5.2398
22	02:30:11	0.3514	0.3509	46.7867	5.2618
23	03:00:13	0.3504	0.3499	46.6533	5.2774
24	03:30:16	0.3494	0.3489	46.5200	5.2931
25	04:00:18	0.3485	0.3480	46.4000	5.3073
26	04:30:20	0.3479	0.3474	46.3200	5.3167
27	05:00:22	0.3473	0.3468	46.2400	5.3261
28	05:30:25	0.3467	0.3462	46.1600	5.3355
29	06:00:27	0.3463	0.3458	46.1067	5.3418
30	06:30:29	0.3458	0.3453	46.0400	5.3496
31	07:00:32	0.3455	0.3450	46.0000	5.3543
32	07:30:34	0.3450	0.3445	45.9333	5.3622
33	08:00:36	0.3448	0.3443	45.9067	5.3653
34	08:30:37	0.3443	0.3438	45.8400	5.3732
35	09:00:37	0.3436	0.3431	45.7467	5.3841
36	09:30:37	0.3432	0.3427	45.6933	5.3904
37	10:00:37	0.3429	0.3424	45.6533	5.3951
38	10:30:37	0.3426	0.3421	45.6133	5.3998
39	11:00:37	0.3424	0.3419	45.5867	5.4030
40	11:30:37	0.3421	0.3416	45.5467	5.4077
41	12:00:37	0.3419	0.3414	45.5200	5.4108
42	12:30:37	0.3417	0.3412	45.4933	5.4139
43	13:00:37	0.3415	0.3410	45.4667	5.4171
44	13:30:37	0.3412	0.3407	45.4267	5.4218
45	14:00:37	0.3410	0.3405	45.4000	5.4249
46	14:30:37	0.3409	0.3404	45.3867	5.4265
47	15:00:38	0.3407	0.3402	45.3600	5.4296
48	15:30:38	0.3405	0.3400	45.3333	5.4328
49	16:00:38	0.3403	0.3398	45.3067	5.4359
50	16:30:37	0.3401	0.3396	45.2800	5.4390
51	17:00:37	0.3400	0.3395	45.2667	5.4406
52	17:30:36	0.3399	0.3394	45.2533	5.4422
53	18:00:35	0.3397	0.3392	45.2267	5.4453
54	18:30:35	0.3396	0.3391	45.2133	5.4469
55	19:00:34	0.3395	0.3390	45.2000	5.4485
56	19:30:33	0.3394	0.3389	45.1867	5.4500
57	20:00:33	0.3393	0.3388	45.1733	5.4516
58	20:30:34	0.3392	0.3387	45.1600	5.4532
59	21:00:34	0.3390	0.3385	45.1333	5.4563
60	21:30:34	0.3389	0.3384	45.1200	5.4579
61	22:00:33	0.3388	0.3383	45.1067	5.4594
62	22:30:32	0.3387	0.3382	45.0933	5.4610
63	23:00:31	0.3385	0.3380	45.0667	5.4642
64	23:30:31	0.3385	0.3380	45.0667	5.4642
65	23:51:53	0.3384	0.3379	45.0533	5.4657

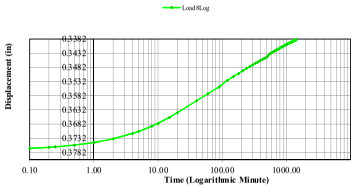
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

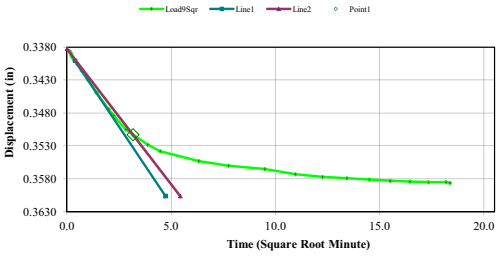
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

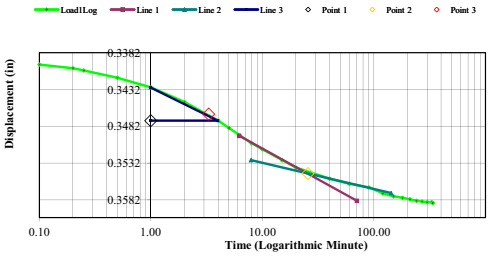
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3384	0.3379	45.0533	5.4657
1	00:00:01	0.3386	0.3381	45.0800	5.4626
2	00:00:02	0.3389	0.3384	45.1200	5.4579
3	00:00:03	0.3393	0.3388	45.1733	5.4516
4	00:00:04	0.3395	0.3390	45.2000	5.4485
5	00:00:05	0.3396	0.3391	45.2133	5.4469
6	00:00:06	0.3398	0.3393	45.2400	5.4438
7	00:00:12	0.3403	0.3398	45.3067	5.4359
8	00:00:15	0.3406	0.3401	45.3467	5.4312
9	00:00:30	0.3416	0.3411	45.4800	5.4155
10	00:01:00	0.3429	0.3424	45.6533	5.3951
11	00:02:00	0.3449	0.3444	45.9200	5.3637
12	00:04:00	0.3474	0.3469	46.2533	5.3245
13	00:05:00	0.3484	0.3479	46.3867	5.3088
14	00:08:00	0.3505	0.3500	46.6667	5.2759
15	00:10:00	0.3513	0.3508	46.7733	5.2633
16	00:15:00	0.3528	0.3523	46.9733	5.2398
17	00:20:00	0.3538	0.3533	47.1067	5.2241
18	00:40:00	0.3553	0.3548	47.3067	5.2006
19	01:00:02	0.3560	0.3555	47.4000	5.1896
20	01:30:04	0.3565	0.3560	47.4667	5.1817
21	02:00:06	0.3573	0.3568	47.5733	5.1692
22	02:30:09	0.3577	0.3572	47.6267	5.1629
23	03:00:11	0.3579	0.3574	47.6533	5.1598
24	03:30:13	0.3581	0.3576	47.6800	5.1566
25	04:00:15	0.3583	0.3578	47.7067	5.1535
26	04:30:18	0.3584	0.3579	47.7200	5.1519
27	05:00:20	0.3585	0.3580	47.7333	5.1504
28	05:30:22	0.3585	0.3580	47.7333	5.1504
29	05:37:13	0.3586	0.3581	47.7467	5.1488

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 26 Oct 11
Test Number:

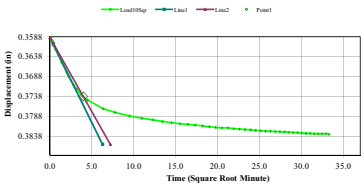
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

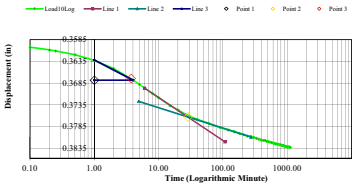
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3586	0.3581	47.7467	5.1488
1	00:00:01	0.3589	0.3584	47.7867	5.1441
2	00:00:02	0.3596	0.3591	47.8800	5.1331
3	00:00:03	0.3598	0.3593	47.9067	5.1300
4	00:00:04	0.3600	0.3595	47.9333	5.1268
5	00:00:05	0.3601	0.3596	47.9467	5.1253
6	00:00:06	0.3603	0.3598	47.9733	5.1221
7	00:00:12	0.3609	0.3604	48.0533	5.1127
8	00:00:15	0.3611	0.3606	48.0800	5.1096
9	00:00:30	0.3620	0.3615	48.2000	5.0954
10	00:01:00	0.3633	0.3628	48.3733	5.0750
11	00:02:00	0.3652	0.3647	48.6267	5.0452
12	00:04:00	0.3678	0.3673	48.9733	5.0044
13	00:05:00	0.3688	0.3683	49.1067	4.9888
14	00:08:00	0.3709	0.3704	49.3867	4.9558
15	00:10:01	0.3719	0.3714	49.5200	4.9401
16	00:15:01	0.3737	0.3732	49.7600	4.9119
17	00:20:01	0.3747	0.3742	49.8933	4.8962
18	00:40:03	0.3769	0.3764	50.1867	4.8617
19	01:00:04	0.3778	0.3773	50.3067	4.8475
20	01:30:07	0.3787	0.3782	50.4267	4.8334
21	02:00:09	0.3793	0.3788	50.5067	4.8240
22	02:30:11	0.3797	0.3792	50.5600	4.8177
23	03:00:14	0.3801	0.3796	50.6133	4.8115
24	03:30:16	0.3804	0.3799	50.6533	4.8068
25	04:00:18	0.3807	0.3802	50.6933	4.8020
26	04:30:20	0.3808	0.3803	50.7067	4.8005
27	05:00:23	0.3810	0.3805	50.7333	4.7973
28	05:30:25	0.3812	0.3807	50.7600	4.7942
29	06:00:27	0.3814	0.3809	50.7867	4.7911
30	06:30:30	0.3816	0.3811	50.8133	4.7879
31	07:00:32	0.3817	0.3812	50.8267	4.7864
32	07:30:34	0.3817	0.3812	50.8267	4.7864
33	08:00:37	0.3819	0.3814	50.8533	4.7832
34	08:30:39	0.3820	0.3815	50.8667	4.7817
35	09:00:41	0.3821	0.3816	50.8800	4.7801
36	09:30:43	0.3822	0.3817	50.8933	4.7785
37	10:00:46	0.3823	0.3818	50.9067	4.7769
38	10:30:48	0.3824	0.3819	50.9200	4.7754
39	11:00:50	0.3825	0.3820	50.9333	4.7738
40	11:30:52	0.3825	0.3820	50.9333	4.7738
41	12:00:55	0.3826	0.3821	50.9467	4.7722
42	12:30:57	0.3827	0.3822	50.9600	4.7707
43	13:00:59	0.3827	0.3822	50.9600	4.7707
44	13:31:02	0.3828	0.3823	50.9733	4.7691
45	14:01:04	0.3829	0.3824	50.9867	4.7675
46	14:31:06	0.3829	0.3824	50.9867	4.7675
47	15:01:09	0.3830	0.3825	51.0000	4.7660
48	15:31:11	0.3831	0.3826	51.0133	4.7644
49	16:01:13	0.3831	0.3826	51.0133	4.7644
50	16:31:15	0.3832	0.3827	51.0267	4.7628
51	17:01:18	0.3832	0.3827	51.0267	4.7628
52	17:31:20	0.3832	0.3827	51.0267	4.7628
53	18:01:22	0.3832	0.3827	51.0267	4.7628
54	18:26:05	0.3833	0.3828	51.0400	4.7613

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

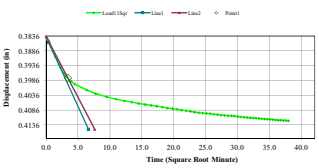
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

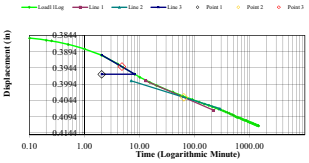
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.3833	0.3828	51.0400	4.7613
1	00:00:01	0.3843	0.3838	51.1733	4.7456
2	00:00:02	0.3847	0.3842	51.2267	4.7393
3	00:00:03	0.3848	0.3843	51.2400	4.7377
4	00:00:04	0.3849	0.3844	51.2533	4.7361
5	00:00:05	0.3851	0.3846	51.2800	4.7330
6	00:00:06	0.3853	0.3848	51.3067	4.7299
7	00:00:12	0.3859	0.3854	51.3867	4.7205
8	00:00:15	0.3861	0.3856	51.4133	4.7173
9	00:00:30	0.3872	0.3867	51.5600	4.7001
10	00:01:00	0.3886	0.3881	51.7467	4.6781
11	00:02:00	0.3905	0.3900	52.0000	4.6483
12	00:04:00	0.3932	0.3927	52.3600	4.6059
13	00:05:01	0.3943	0.3938	52.5067	4.5887
14	00:08:01	0.3963	0.3958	52.7733	4.5573
15	00:10:01	0.3973	0.3968	52.9067	4.5416
16	00:15:01	0.3988	0.3983	53.1067	4.5181
17	00:20:02	0.3998	0.3993	53.2400	4.5024
18	00:40:03	0.4018	0.4013	53.5067	4.4710
19	01:00:05	0.4031	0.4026	53.6800	4.4506
20	01:30:07	0.4041	0.4036	53.8133	4.4349
21	02:00:09	0.4049	0.4044	53.9200	4.4224
22	02:30:12	0.4055	0.4050	54.0000	4.4129
23	03:00:14	0.4059	0.4054	54.0533	4.4067
24	03:30:16	0.4064	0.4059	54.1200	4.3988
25	04:00:18	0.4067	0.4062	54.1600	4.3941
26	04:30:21	0.4070	0.4065	54.2000	4.3894
27	05:00:23	0.4073	0.4068	54.2400	4.3847
28	05:30:25	0.4076	0.4071	54.2800	4.3800
29	06:00:27	0.4079	0.4074	54.3200	4.3753
30	06:30:30	0.4081	0.4076	54.3467	4.3721
31	07:00:32	0.4083	0.4078	54.3733	4.3690
32	07:30:34	0.4086	0.4081	54.4133	4.3643
33	08:00:37	0.4088	0.4083	54.4400	4.3612
34	08:30:39	0.4090	0.4085	54.4667	4.3580
35	09:00:41	0.4093	0.4088	54.5067	4.3533
36	09:30:43	0.4095	0.4090	54.5333	4.3502
37	10:00:46	0.4096	0.4091	54.5467	4.3486
38	10:30:48	0.4097	0.4092	54.5600	4.3470
39	11:00:50	0.4098	0.4093	54.5733	4.3455
40	11:30:52	0.4100	0.4095	54.6000	4.3423
41	12:00:55	0.4101	0.4096	54.6133	4.3408
42	12:30:57	0.4103	0.4098	54.6400	4.3376
43	13:00:59	0.4104	0.4099	54.6533	4.3361
44	13:31:01	0.4105	0.4100	54.6667	4.3345
45	14:01:04	0.4105	0.4100	54.6667	4.3345
46	14:31:06	0.4106	0.4101	54.6800	4.3329
47	15:01:08	0.4108	0.4103	54.7067	4.3298
48	15:31:11	0.4109	0.4104	54.7200	4.3282
49	16:01:13	0.4110	0.4105	54.7333	4.3266
50	16:31:15	0.4111	0.4106	54.7467	4.3251
51	17:01:17	0.4112	0.4107	54.7600	4.3235
52	17:31:20	0.4113	0.4108	54.7733	4.3219
53	18:01:22	0.4113	0.4108	54.7733	4.3219
54	18:31:24	0.4114	0.4109	54.7867	4.3204
55	19:01:27	0.4115	0.4110	54.8000	4.3188
56	19:31:29	0.4116	0.4111	54.8133	4.3172
57	20:01:31	0.4117	0.4112	54.8267	4.3157
58	20:31:33	0.4117	0.4112	54.8267	4.3157
59	21:01:36	0.4118	0.4113	54.8400	4.3141
60	21:31:38	0.4119	0.4114	54.8533	4.3125
61	22:01:40	0.4120	0.4115	54.8667	4.3110
62	22:31:43	0.4120	0.4115	54.8667	4.3110
63	23:01:45	0.4121	0.4116	54.8800	4.3094
64	23:31:47	0.4121	0.4116	54.8800	4.3094
65	24:00:23	0.4122	0.4117	54.8933	4.3078

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

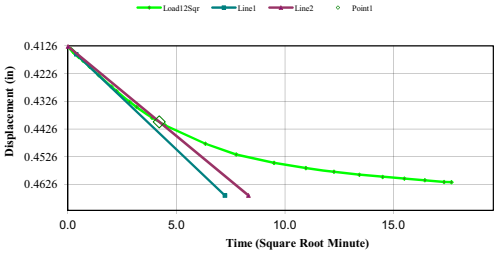
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

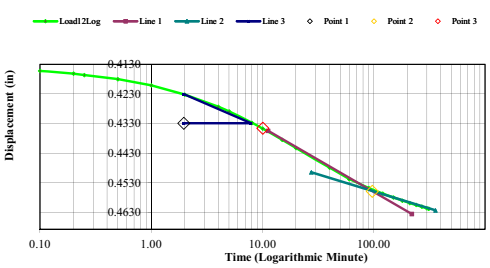
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4122	0.4117	54.8933	4.3078
1	00:00:01	0.4137	0.4132	55.0933	4.2843
2	00:00:02	0.4141	0.4136	55.1467	4.2780
3	00:00:03	0.4145	0.4140	55.2000	4.2717
4	00:00:04	0.4148	0.4143	55.2400	4.2670
5	00:00:05	0.4151	0.4146	55.2800	4.2623
6	00:00:06	0.4152	0.4147	55.2933	4.2608
7	00:00:12	0.4161	0.4156	55.4133	4.2466
8	00:00:15	0.4166	0.4161	55.4800	4.2388
9	00:00:30	0.4180	0.4175	55.6667	4.2168
10	00:01:00	0.4201	0.4196	55.9467	4.1839
11	00:02:00	0.4232	0.4227	56.3600	4.1352
12	00:04:00	0.4273	0.4268	56.9067	4.0709
13	00:05:00	0.4289	0.4284	57.1200	4.0458
14	00:08:01	0.4328	0.4323	57.6400	3.9846
15	00:10:01	0.4347	0.4342	57.8933	3.9548
16	00:15:01	0.4385	0.4380	58.4000	3.8952
17	00:20:02	0.4413	0.4408	58.7733	3.8513
18	00:40:03	0.4479	0.4474	59.6533	3.7477
19	01:00:05	0.4518	0.4513	60.1733	3.6865
20	01:30:07	0.4548	0.4543	60.5733	3.6394
21	02:00:09	0.4567	0.4562	60.8267	3.6096
22	02:30:11	0.4580	0.4575	61.0000	3.5892
23	03:00:14	0.4591	0.4586	61.1467	3.5720
24	03:30:16	0.4599	0.4594	61.2533	3.5594
25	04:00:18	0.4605	0.4600	61.3333	3.5500
26	04:30:21	0.4611	0.4606	61.4133	3.5406
27	05:00:23	0.4617	0.4612	61.4933	3.5312
28	05:12:15	0.4618	0.4613	61.5067	3.5296

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

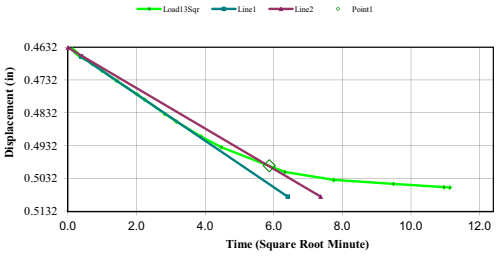
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

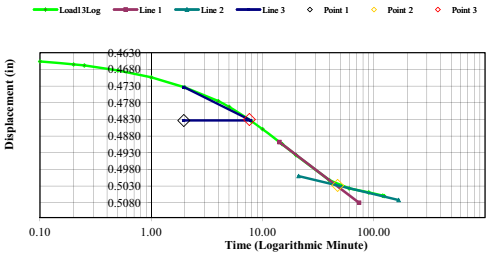
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.4618	0.4613	61.5067	3.5296
1	00:00:01	0.4639	0.4634	61.7867	3.4967
2	00:00:02	0.4643	0.4638	61.8400	3.4904
3	00:00:03	0.4648	0.4643	61.9067	3.4825
4	00:00:04	0.4651	0.4646	61.9467	3.4778
5	00:00:05	0.4654	0.4649	61.9867	3.4731
6	00:00:06	0.4656	0.4651	62.0133	3.4700
7	00:00:12	0.4665	0.4660	62.1333	3.4559
8	00:00:15	0.4668	0.4663	62.1733	3.4512
9	00:00:30	0.4683	0.4678	62.3733	3.4276
10	00:01:00	0.4704	0.4699	62.6533	3.3947
11	00:02:00	0.4734	0.4729	63.0533	3.3476
12	00:04:00	0.4775	0.4770	63.6000	3.2833
13	00:05:00	0.4792	0.4787	63.8267	3.2566
14	00:08:00	0.4836	0.4831	64.4133	3.1876
15	00:10:00	0.4859	0.4854	64.7200	3.1515
16	00:15:00	0.4904	0.4899	65.3200	3.0809
17	00:20:00	0.4937	0.4932	65.7600	3.0291
18	00:40:00	0.5013	0.5008	66.7733	2.9099
19	01:00:00	0.5037	0.5032	67.0933	2.8722
20	01:30:03	0.5049	0.5044	67.2533	2.8534
21	02:00:05	0.5059	0.5054	67.3867	2.8377
22	02:03:53	0.5060	0.5055	67.4000	2.8361

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 26 Oct 11
Test Number:

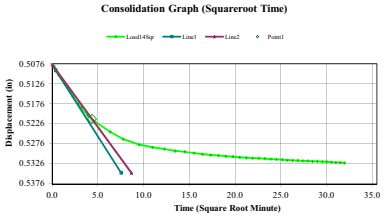
Sample Number:
Boring Number: 8
Depth: 4 - 6 feet
Sample Type: Undisturbed

Soil Description: Peat (PT)
Remarks:

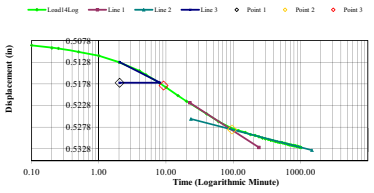
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.5060	0.5055	67.4000	2.8361
1	00:00:01	0.5080	0.5075	67.6667	2.8047
2	00:00:02	0.5082	0.5077	67.6933	2.8016
3	00:00:03	0.5085	0.5080	67.7333	2.7969
4	00:00:04	0.5087	0.5082	67.7600	2.7938
5	00:00:05	0.5088	0.5083	67.7733	2.7922
6	00:00:06	0.5089	0.5084	67.7867	2.7906
7	00:00:12	0.5095	0.5090	67.8667	2.7812
8	00:00:15	0.5096	0.5091	67.8800	2.7796
9	00:00:30	0.5104	0.5099	67.9867	2.7671
10	00:01:00	0.5113	0.5108	68.1067	2.7530
11	00:02:00	0.5128	0.5123	68.3067	2.7294
12	00:04:00	0.5148	0.5143	68.5733	2.6981
13	00:05:00	0.5157	0.5152	68.6933	2.6839
14	00:08:00	0.5176	0.5171	68.9467	2.6541
15	00:10:00	0.5186	0.5181	69.0800	2.6384
16	00:15:01	0.5205	0.5200	69.3333	2.6086
17	00:20:01	0.5218	0.5213	69.5067	2.5882
18	00:40:03	0.5247	0.5242	69.8933	2.5427
19	01:00:04	0.5265	0.5260	70.1333	2.5145
20	01:30:07	0.5279	0.5274	70.3200	2.4925
21	02:00:09	0.5286	0.5281	70.4133	2.4815
22	02:30:11	0.5290	0.5285	70.4667	2.4753
23	03:00:13	0.5295	0.5290	70.5333	2.4674
24	03:30:16	0.5297	0.5292	70.5600	2.4643
25	04:00:18	0.5300	0.5295	70.6000	2.4596
26	04:30:20	0.5303	0.5298	70.6400	2.4549
27	**05:00:22**	**0.5305**	**0.5300**	**70.6667**	**2.4517**
28	05:30:25	0.5306	0.5301	70.6800	2.4502
29	06:00:27	0.5308	0.5303	70.7067	2.4470
30	06:30:29	0.5309	0.5304	70.7200	2.4455
31	07:00:32	0.5311	0.5306	70.7467	2.4423
32	07:30:34	0.5312	0.5307	70.7600	2.4407
33	08:00:36	0.5313	0.5308	70.7733	2.4392
34	08:30:39	0.5313	0.5308	70.7733	2.4392
35	09:00:41	0.5314	0.5309	70.7867	2.4376
36	09:30:43	0.5315	0.5310	70.8000	2.4360
37	10:00:45	0.5316	0.5311	70.8133	2.4345
38	10:30:48	0.5317	0.5312	70.8267	2.4329
39	11:00:50	0.5318	0.5313	70.8400	2.4313
40	11:30:52	0.5319	0.5314	70.8533	2.4298
41	12:00:54	0.5319	0.5314	70.8533	2.4298
42	12:30:57	0.5320	0.5315	70.8667	2.4282
43	13:00:59	0.5320	0.5315	70.8667	2.4282
44	13:31:01	0.5321	0.5316	70.8800	2.4266
45	14:01:03	0.5321	0.5316	70.8800	2.4266
46	14:31:06	0.5322	0.5317	70.8933	2.4251
47	15:01:08	0.5322	0.5317	70.8933	2.4251
48	15:31:10	0.5323	0.5318	70.9067	2.4235
49	16:01:13	0.5324	0.5319	70.9200	2.4219
50	16:31:15	0.5324	0.5319	70.9200	2.4219
51	17:00:18	0.5325	0.5320	70.9333	2.4204

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



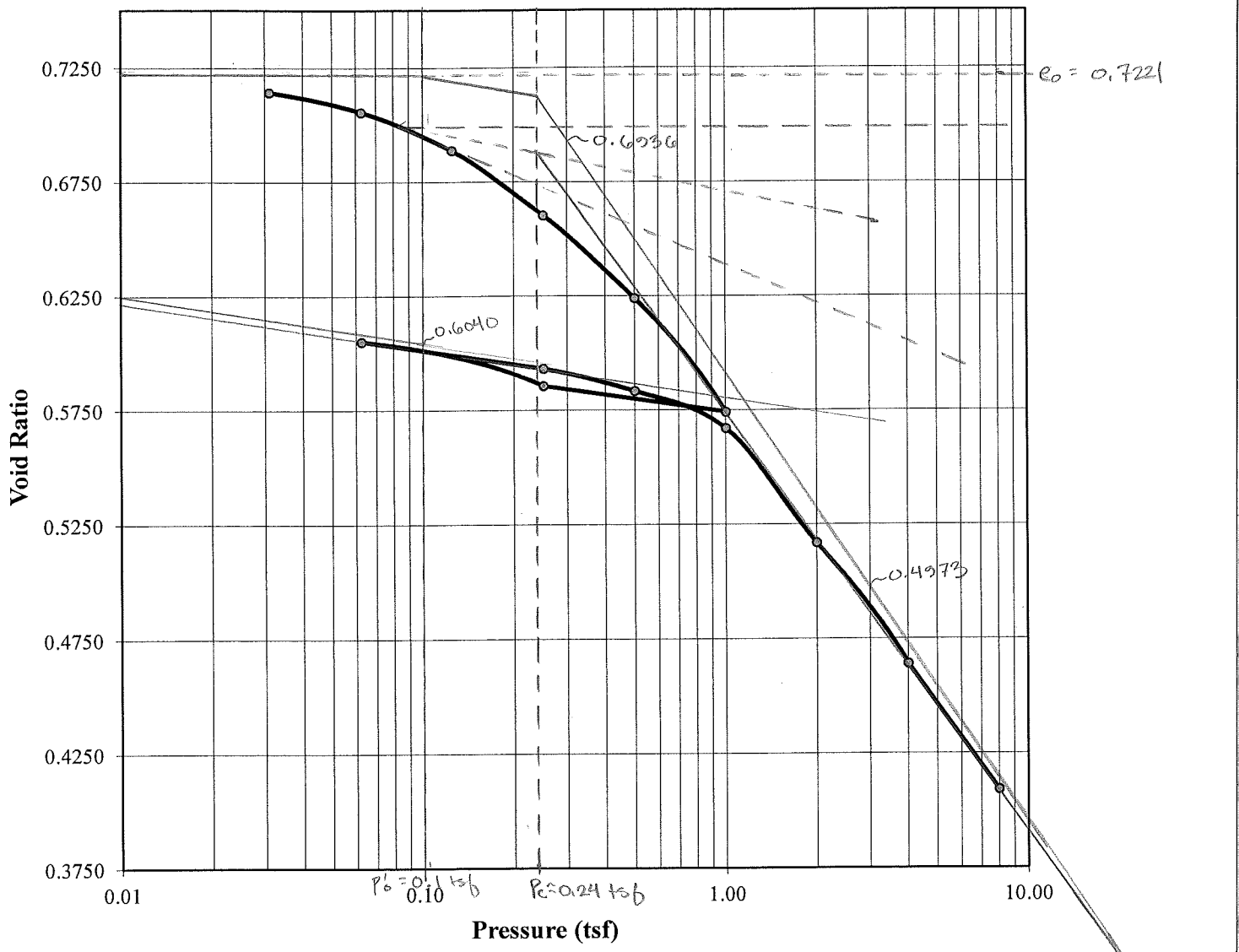
Consolidation Graph (Logarithmic Time)



28 ticks = 0.05
(40 ticks = 1")

GEOENGINEERS

Consolidation Test
Test Results



	Before	After				
Moisture (%):	26.39	16.61	**Liquid Limits:**	27	**Test Date:**	18 Oct 11
Dry Density (pcf):	96.67	116.40	**Plastic Limits:**	13		
Saturation (%):	97.10	102.31	**Plasticity Index (%):**	14		
Void Ratio:	0.7221	0.4078	**Specific Gravity:**	2.674	Measured	

Soil Description: Very sandy clay (CL)

0.42 e_o = 0.3033

Project Number: 16715-023-00 **Depth:** 13.5 - 15.5 fe

Sample Number: **Boring Number:** 9

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation

Client: Louisiana Office of Coastal Protection and Restoration

Location: St. Tammany Parish, LA

Remarks: γ = 1.2639 × 96.67 pcf = 122.2 pcf
Mudline @ 8.5 feet depth.
γ_{avg} = (63.2×2 + 70.4 + 75.6×2 + 107.2×2 + 122.2) / 11
≈ 81.2 pcf
γ'_{avg} ≈ 81.3 − 62.4 = 18.9

P'_o = 18.9 pcf × 11 ft = 207.9 psf
= 0.104 tsf Say 0.1 tsf

OCR = 0.24 tsf / 0.1 tsf = 2.4

C_c = (0.60936 − 0.4973) / log(3/0.3) = 0.1963

CR = 0.1963 / 1.7221 = 0.1140

C_r = (0.6025 − 0.6040) / log(.1/0.01) = 0.021

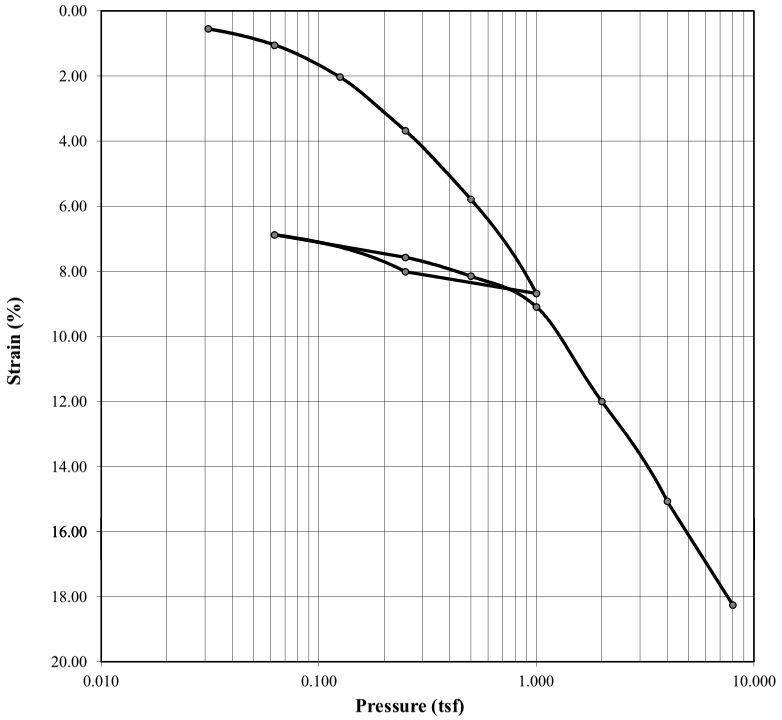
RR = 0.021 / 1.7221 = 0.0122

C_v @ P'_o ≈ 3.5 ft²/yr
= 0.01 ft²/day

C_v @ P'_c ≈ 6.8 ft²/yr
= 0.019 ft²/day
= 0.02 ft²/day

GeoEngineers

Consolidation Test
Test Results

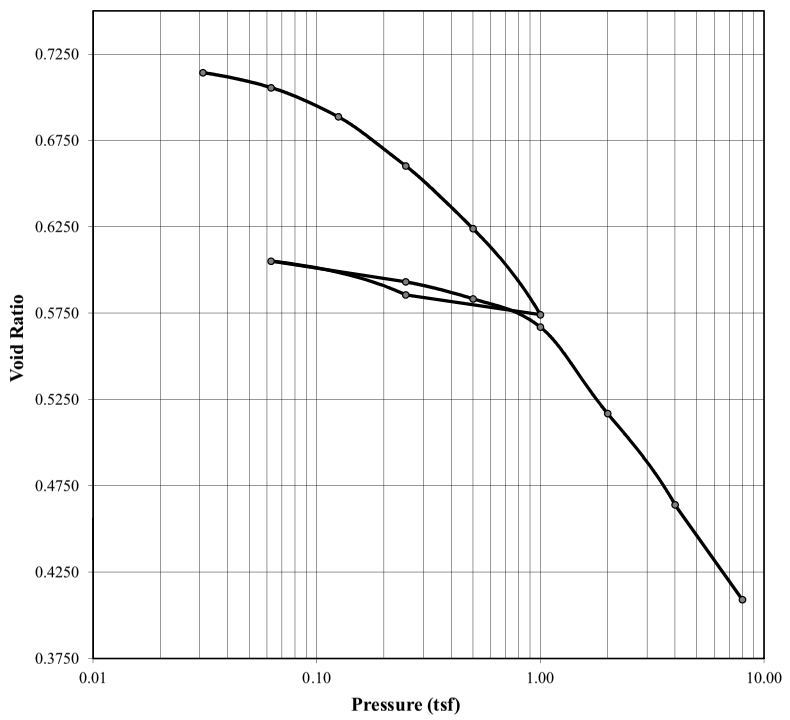


	Before	After				
Moisture (%):	26.39	16.61	**Liquid Limits:**	27	**Test Date:**	18 Oct 11
Dry Density (pcf):	96.67	116.40	**Plastic Limits:**	13		
Saturation (%):	97.10	102.31	**Plasticity Index (%):**	14		
Void Ratio:	0.7221	0.4078	**Specific Gravity:**	2.674	Measured	

Sample Description:	Very sandy clay (CL)		
Project Number:	16715-023-00	**Depth:** 13.5 - 15.5 fe	**Remarks:**
Sample Number:		**Boring Number:** 9	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

GeoEngineers

Consolidation Test
Test Results



	Before	After				
Moisture (%):	26.39	16.61	**Liquid Limits:**	27	**Test Date:**	18 Oct 11
Dry Density (pcf):	96.67	116.40	**Plastic Limits:**	13		
Saturation (%):	97.10	102.31	**Plasticity Index (%):**	14		
Void Ratio:	0.7221	0.4078	**Specific Gravity:**	2.674	Measured	

Soil Description:	Very sandy clay (CL)		
Project Number:	16715-023-00	**Depth:** 13.5 - 15.5 fe	**Remarks:**
Sample Number:		**Boring Number:** 9	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

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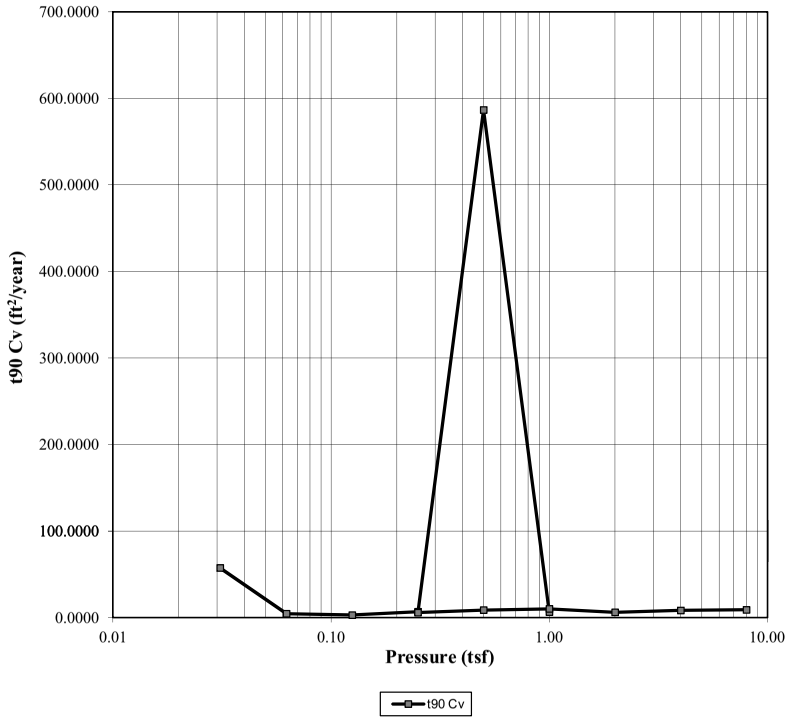
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	27	**Test Date:**	18 Oct 11
Moisture (%):	26.39	16.61	**Plastic Limits:**	13		
Dry Density (pcf):	96.67	116.40	**Plasticity Index (%):**	14		
Saturation (%):	97.10	102.31				
Void Ratio:	0.7221	0.4078	**Specific Gravity:**	2.674	Measured	

Soil Description:	Very sandy clay (CL)		
Project Number:	16715-023-00	**Depth:** 13.5 - 15.5 fe	**Remarks:**
Sample Number:		**Boring Number:** 9	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

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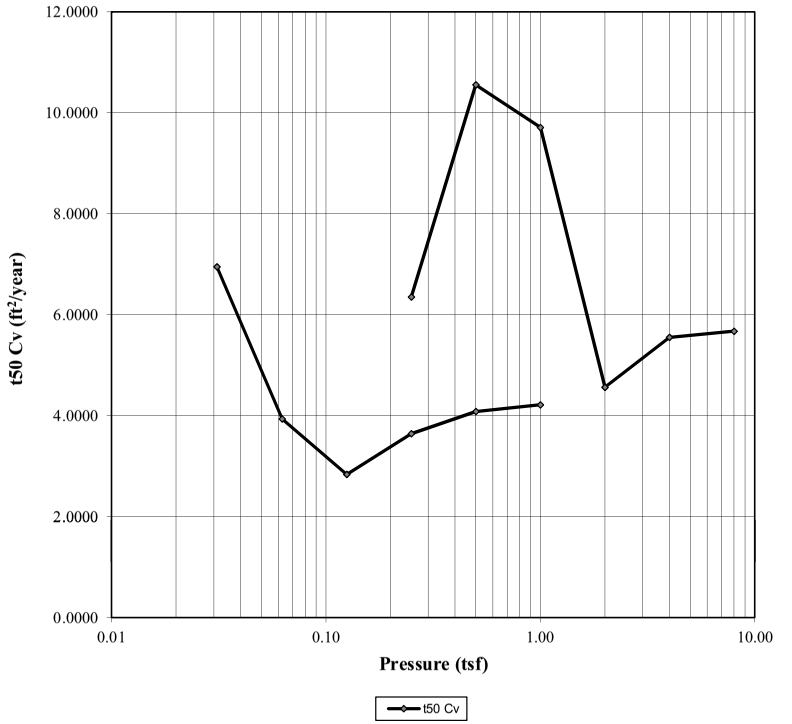
Consolidation Test
Test Results



	Before	After				
			Liquid Limits:	27	**Test Date:**	18 Oct 11
Moisture (%):	26.39	16.61	**Plastic Limits:**	13		
Dry Density (pcf):	96.67	116.40	**Plasticity Index (%):**	14		
Saturation (%):	97.10	102.31				
Void Ratio:	0.7221	0.4078	**Specific Gravity:**	2.674	Measured	

Soil Description:	Very sandy clay (CL)		
Project Number:	16715-023-00	**Depth:** 13.5 - 15.5 fe	**Remarks:**
Sample Number:		**Boring Number:** 9	
Project:	LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)		
Client:	Louisiana Office of Coastal Protection and Restoration		
Location:	St. Tammany Parish, LA		

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Consolidation Test Results
Summary

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

Sample Number: **Sample Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:** **Test Number:**
Sample Type: Undisturbed **Test Date:** 18 Oct 11

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	0.7500	0.3149	0.00	0.7237	0.000	0.000	0.000	0.000
1	0.031	0.0041	0.7459	0.3108	0.55	0.7143	7.512	14.394	57.312	6.948
2	0.063	0.0079	0.7421	0.3070	1.05	0.7055	93.587	25.163	4.553	3.934
3	0.125	0.0152	0.7348	0.2997	2.03	0.6887	141.132	34.217	2.960	2.837
4	0.250	0.0276	0.7224	0.2873	3.68	0.6603	58.945	25.755	6.851	3.642
5	0.500	0.0434	0.7066	0.2715	5.79	0.6239	0.659	21.987	586.685	4.082
6	1.000	0.0651	0.6849	0.2498	8.68	0.5741	56.906	20.004	6.379	4.215
7	0.250	0.0601	0.6899	0.2548	8.01	0.5856	0.000	0.000	0.000	0.000
8	0.063	0.0516	0.6984	0.2633	6.88	0.6051	0.000	0.000	0.000	0.000
9	0.250	0.0568	0.6932	0.2581	7.57	0.5931	63.878	13.604	5.821	6.350
10	0.500	0.0611	0.6889	0.2538	8.15	0.5833	42.308	8.083	8.680	10.554
11	1.000	0.0682	0.6818	0.2467	9.09	0.5669	35.513	8.606	10.129	9.709
12	2.000	0.0900	0.6600	0.2249	12.00	0.5168	55.443	17.159	6.079	4.563
13	4.000	0.1130	0.6370	0.2019	15.07	0.4640	37.484	13.139	8.376	5.552
14	8.000	0.1369	0.6131	0.1780	18.25	0.4091	32.282	11.911	9.010	5.673

Predicted value indicated with *

GeoEngineers

Consolidation Test
Consolidation Specimen Information

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 6715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 18 Oct 11

Sample Number: **Sample Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

Test Number:
Liquid Limit: 27.0000 **Initial Void Ratio:** 0.7221 **Initial Height (in):** 0.7500
Plastic Limit: 13.0000 **Plasticity Index (%):** 14.0000 **Initial Diameter (in):** 2.5000
Specific Gravity: 2.6740 **Weight of Ring (g):** 219.9600
Measured

Parameters	Initial Specimen	Final Specimen
Moist Weight + Container (g)	150.46	128.80
Dry Soil + Container (g)	123.77	113.66
Weight of Container (g)	22.63	22.51
Moisture Content (%)	26.39	16.61
Void Ratio	0.7221	0.4078
Saturation (%)	97.10	102.31
Dry Density (pcf)	96.67	116.40

Consolidation Test Results
(Sequence 1) Load 0.031 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

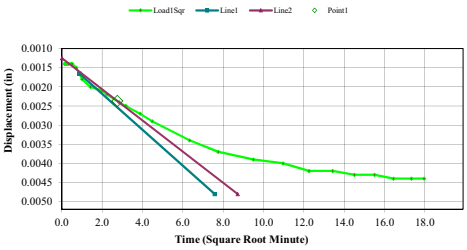
Test Date: 18 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

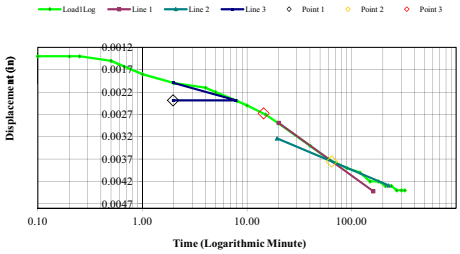
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0003	0.0000	0.0000	0.7221
1	00:00:01	0.0014	0.0011	0.1467	0.7196
2	00:00:02	0.0014	0.0011	0.1467	0.7196
3	00:00:03	0.0014	0.0011	0.1467	0.7196
4	00:00:04	0.0014	0.0011	0.1467	0.7196
5	00:00:05	0.0014	0.0011	0.1467	0.7196
6	00:00:06	0.0014	0.0011	0.1467	0.7196
7	00:00:12	0.0014	0.0011	0.1467	0.7196
8	00:00:15	0.0014	0.0011	0.1467	0.7196
9	00:00:30	0.0015	0.0012	0.1600	0.7194
10	00:01:00	0.0018	0.0015	0.2000	0.7187
11	00:02:00	0.0020	0.0017	0.2267	0.7182
12	00:04:00	0.0021	0.0018	0.2400	0.7180
13	00:05:00	0.0022	0.0019	0.2533	0.7177
14	00:08:01	0.0024	0.0021	0.2800	0.7173
15	00:10:01	0.0025	0.0022	0.2933	0.7171
16	00:15:01	0.0027	0.0024	0.3200	0.7166
17	00:20:02	0.0029	0.0026	0.3467	0.7161
18	00:40:03	0.0034	0.0031	0.4133	0.7150
19	01:00:05	0.0037	0.0034	0.4533	0.7143
20	01:30:07	0.0039	0.0036	0.4800	0.7138
21	02:00:09	0.0040	0.0037	0.4933	0.7136
22	02:30:11	0.0042	0.0039	0.5200	0.7132
23	03:00:14	0.0042	0.0039	0.5200	0.7132
24	03:30:16	0.0043	0.0040	0.5333	0.7129
25	04:00:18	0.0043	0.0040	0.5333	0.7129
26	04:30:21	0.0044	0.0041	0.5467	0.7127
27	05:00:23	0.0044	0.0041	0.5467	0.7127
28	05:22:33	0.0044	0.0041	0.5467	0.7127

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 2) Load 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number:

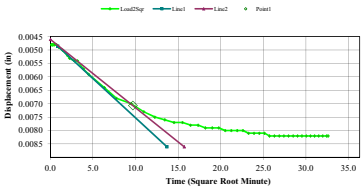
Test Date: 18 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

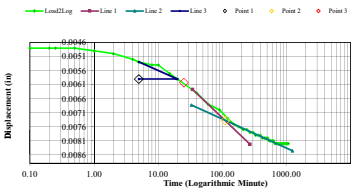
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0044	0.0041	0.5467	0.7127
1	00:00:01	0.0048	0.0045	0.6000	0.7118
2	00:00:02	0.0048	0.0045	0.6000	0.7118
3	00:00:03	0.0048	0.0045	0.6000	0.7118
4	00:00:04	0.0048	0.0045	0.6000	0.7118
5	00:00:05	0.0048	0.0045	0.6000	0.7118
6	00:00:06	0.0048	0.0045	0.6000	0.7118
7	00:00:12	0.0048	0.0045	0.6000	0.7118
8	00:00:15	0.0048	0.0045	0.6000	0.7118
9	00:00:30	0.0048	0.0045	0.6000	0.7118
10	00:01:00	0.0049	0.0046	0.6133	0.7115
11	00:02:00	0.0050	0.0047	0.6267	0.7113
12	00:04:00	0.0052	0.0049	0.6533	0.7109
13	00:05:00	0.0053	0.0050	0.6667	0.7106
14	00:08:00	0.0054	0.0051	0.6800	0.7104
15	00:10:01	0.0054	0.0051	0.6800	0.7104
16	00:15:01	0.0057	0.0054	0.7200	0.7097
17	00:20:01	0.0059	0.0056	0.7467	0.7092
18	00:40:03	0.0064	0.0061	0.8133	0.7081
19	01:00:04	0.0068	0.0065	0.8667	0.7072
20	01:30:07	0.0070	0.0067	0.8933	0.7067
21	02:00:09	0.0073	0.0070	0.9333	0.7060
22	02:30:11	0.0075	0.0072	0.9600	0.7056
23	03:00:13	0.0076	0.0073	0.9733	0.7053
24	03:30:16	0.0077	0.0074	0.9867	0.7051
25	04:00:18	0.0077	0.0074	0.9867	0.7051
26	04:30:20	0.0078	0.0075	1.0000	0.7049
27	**05:00:23**	**0.0078**	**0.0075**	**1.0000**	**0.7049**
28	05:30:25	0.0079	0.0076	1.0133	0.7047
29	06:00:27	0.0079	0.0076	1.0133	0.7047
30	06:30:29	0.0079	0.0076	1.0133	0.7047
31	07:00:32	0.0080	0.0077	1.0267	0.7044
32	07:30:34	0.0080	0.0077	1.0267	0.7044
33	08:00:36	0.0080	0.0077	1.0267	0.7044
34	08:30:39	0.0080	0.0077	1.0267	0.7044
35	09:00:41	0.0081	0.0078	1.0400	0.7042
36	09:30:43	0.0081	0.0078	1.0400	0.7042
37	10:00:46	0.0081	0.0078	1.0400	0.7042
38	10:30:48	0.0081	0.0078	1.0400	0.7042
39	11:00:50	0.0082	0.0079	1.0533	0.7040
40	11:30:52	0.0082	0.0079	1.0533	0.7040
41	12:00:55	0.0082	0.0079	1.0533	0.7040
42	12:30:57	0.0082	0.0079	1.0533	0.7040
43	13:00:59	0.0082	0.0079	1.0533	0.7040
44	13:31:01	0.0082	0.0079	1.0533	0.7040
45	14:01:04	0.0082	0.0079	1.0533	0.7040
46	14:31:06	0.0082	0.0079	1.0533	0.7040
47	15:01:08	0.0082	0.0079	1.0533	0.7040
48	15:31:11	0.0082	0.0079	1.0533	0.7040
49	16:01:13	0.0082	0.0079	1.0533	0.7040
50	16:31:15	0.0082	0.0079	1.0533	0.7040
51	17:01:17	0.0082	0.0079	1.0533	0.7040
52	17:31:20	0.0082	0.0079	1.0533	0.7040
53	17:41:57	0.0082	0.0079	1.0533	0.7040

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 18 Oct 11
Test Number:

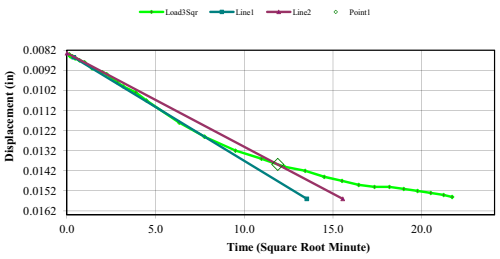
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

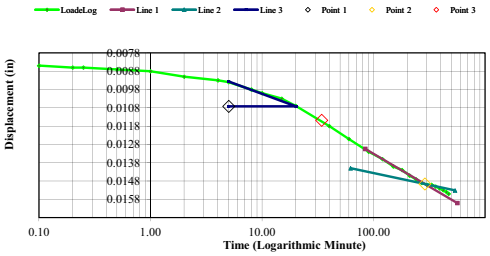
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0082	0.0079	1.0533	0.7040
1	00:00:01	0.0084	0.0081	1.0800	0.7035
2	00:00:02	0.0085	0.0082	1.0933	0.7033
3	00:00:03	0.0085	0.0082	1.0933	0.7033
4	00:00:04	0.0085	0.0082	1.0933	0.7033
5	00:00:05	0.0085	0.0082	1.0933	0.7033
6	00:00:06	0.0085	0.0082	1.0933	0.7033
7	00:00:12	0.0086	0.0083	1.1067	0.7030
8	00:00:15	0.0086	0.0083	1.1067	0.7030
9	00:00:30	0.0087	0.0084	1.1200	0.7028
10	00:01:00	0.0088	0.0085	1.1333	0.7026
11	00:02:00	0.0091	0.0088	1.1733	0.7019
12	00:04:01	0.0093	0.0090	1.2000	0.7014
13	00:05:01	0.0094	0.0091	1.2133	0.7012
14	00:08:01	0.0098	0.0095	1.2667	0.7003
15	00:10:01	0.0100	0.0097	1.2933	0.6998
16	00:15:01	0.0103	0.0100	1.3333	0.6991
17	00:20:02	0.0107	0.0104	1.3867	0.6982
18	00:40:03	0.0118	0.0115	1.5333	0.6957
19	01:00:05	0.0125	0.0122	1.6267	0.6941
20	01:30:07	0.0132	0.0129	1.7200	0.6925
21	02:00:09	0.0136	0.0133	1.7733	0.6916
22	02:30:12	0.0140	0.0137	1.8267	0.6906
23	03:00:14	0.0142	0.0139	1.8533	0.6902
24	03:30:16	0.0145	0.0142	1.8933	0.6895
25	04:00:19	0.0147	0.0144	1.9200	0.6890
26	04:30:21	0.0149	0.0146	1.9467	0.6886
27	05:00:23	0.0150	0.0147	1.9600	0.6884
28	05:30:26	0.0150	0.0147	1.9600	0.6884
29	06:00:28	0.0151	0.0148	1.9733	0.6881
30	06:30:30	0.0152	0.0149	1.9867	0.6879
31	07:00:32	0.0153	0.0150	2.0000	0.6877
32	07:30:35	0.0154	0.0151	2.0133	0.6874
33	07:51:21	0.0155	0.0152	2.0267	0.6872

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00

Test Date: 18 Oct 11
Test Number:

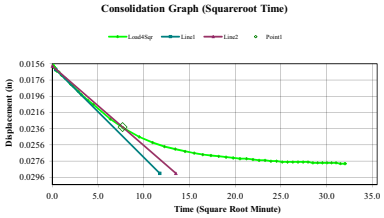
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

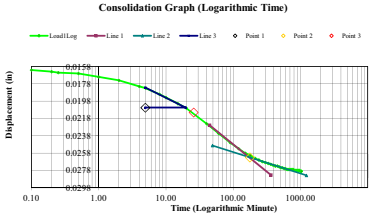
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0155	0.0152	2.0267	0.6872
1	00:00:01	0.0158	0.0155	2.0667	0.6865
2	00:00:02	0.0160	0.0157	2.0933	0.6861
3	00:00:03	0.0160	0.0157	2.0933	0.6861
4	00:00:04	0.0161	0.0158	2.1067	0.6858
5	00:00:05	0.0161	0.0158	2.1067	0.6858
6	00:00:06	0.0162	0.0159	2.1200	0.6856
7	00:00:12	0.0164	0.0161	2.1467	0.6851
8	00:00:15	0.0165	0.0162	2.1600	0.6849
9	00:00:30	0.0166	0.0163	2.1733	0.6847
10	00:01:00	0.0170	0.0167	2.2267	0.6838
11	00:02:00	0.0174	0.0171	2.2800	0.6828
12	00:04:00	0.0181	0.0178	2.3733	0.6812
13	00:05:00	0.0183	0.0180	2.4000	0.6808
14	00:08:00	0.0190	0.0187	2.4933	0.6792
15	00:10:00	0.0194	0.0191	2.5467	0.6782
16	00:15:01	0.0201	0.0198	2.6400	0.6766
17	00:20:01	0.0206	0.0203	2.7067	0.6755
18	00:40:03	0.0224	0.0221	2.9467	0.6714
19	01:00:04	0.0235	0.0232	3.0933	0.6688
20	01:30:07	0.0246	0.0243	3.2400	0.6663
21	02:00:09	0.0253	0.0250	3.3333	0.6647
22	02:30:11	0.0258	0.0255	3.4000	0.6636
23	03:00:13	0.0261	0.0258	3.4400	0.6629
24	03:30:15	0.0264	0.0261	3.4800	0.6622
25	04:00:17	0.0266	0.0263	3.5067	0.6617
26	04:30:20	0.0268	0.0265	3.5333	0.6613
27	**05:00:22**	**0.0269**	**0.0266**	**3.5467**	**0.6610**
28	05:30:24	0.0270	0.0267	3.5600	0.6608
29	06:00:27	0.0271	0.0268	3.5733	0.6606
30	06:30:29	0.0272	0.0269	3.5867	0.6603
31	07:00:31	0.0273	0.0270	3.6000	0.6601
32	07:30:33	0.0273	0.0270	3.6000	0.6601
33	08:00:36	0.0274	0.0271	3.6133	0.6599
34	08:30:38	0.0275	0.0272	3.6267	0.6597
35	09:00:40	0.0275	0.0272	3.6267	0.6597
36	09:30:42	0.0276	0.0273	3.6400	0.6594
37	10:00:45	0.0276	0.0273	3.6400	0.6594
38	10:30:47	0.0277	0.0274	3.6533	0.6592
39	11:00:49	0.0277	0.0274	3.6533	0.6592
40	11:30:52	0.0277	0.0274	3.6533	0.6592
41	12:00:54	0.0277	0.0274	3.6533	0.6592
42	12:30:56	0.0277	0.0274	3.6533	0.6592
43	13:00:59	0.0277	0.0274	3.6533	0.6592
44	13:31:01	0.0278	0.0275	3.6667	0.6590
45	14:01:03	0.0278	0.0275	3.6667	0.6590
46	14:31:06	0.0278	0.0275	3.6667	0.6590
47	15:01:08	0.0278	0.0275	3.6667	0.6590
48	15:31:10	0.0278	0.0275	3.6667	0.6590
49	16:01:13	0.0278	0.0275	3.6667	0.6590
50	16:31:15	0.0279	0.0276	3.6800	0.6587
51	17:01:17	0.0279	0.0276	3.6800	0.6587
52	17:04:32	0.0279	0.0276	3.6800	0.6587

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Consolidation Test Results
(Sequence 5) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 18 Oct 11
Test Number:

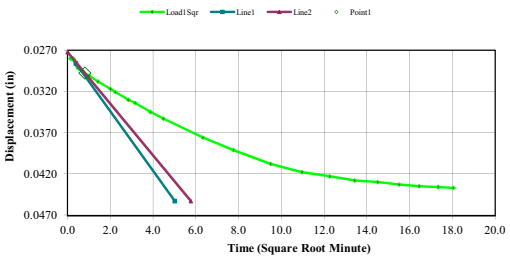
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

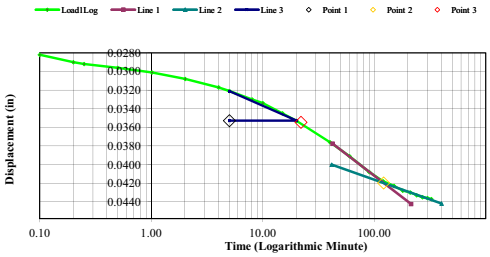
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0279	0.0276	3.6800	0.6587
1	00:00:01	0.0280	0.0277	3.6933	0.6585
2	00:00:02	0.0280	0.0277	3.6933	0.6585
3	00:00:03	0.0280	0.0277	3.6933	0.6585
4	00:00:04	0.0280	0.0277	3.6933	0.6585
5	00:00:05	0.0282	0.0279	3.7200	0.6580
6	00:00:06	0.0282	0.0279	3.7200	0.6580
7	00:00:12	0.0290	0.0287	3.8267	0.6562
8	00:00:15	0.0292	0.0289	3.8533	0.6557
9	00:00:30	0.0296	0.0293	3.9067	0.6548
10	00:01:01	0.0301	0.0298	3.9733	0.6537
11	00:02:01	0.0308	0.0305	4.0667	0.6521
12	00:04:01	0.0317	0.0314	4.1867	0.6500
13	00:05:01	0.0321	0.0318	4.2400	0.6491
14	00:08:01	0.0330	0.0327	4.3600	0.6470
15	00:10:01	0.0334	0.0331	4.4133	0.6461
16	00:15:02	0.0345	0.0342	4.5600	0.6436
17	00:20:02	0.0353	0.0350	4.6667	0.6417
18	00:40:03	0.0376	0.0373	4.9733	0.6365
19	01:00:05	0.0391	0.0388	5.1733	0.6330
20	01:30:07	0.0408	0.0405	5.4000	0.6291
21	02:00:10	0.0418	0.0415	5.5333	0.6268
22	02:30:12	0.0423	0.0420	5.6000	0.6257
23	03:00:14	0.0428	0.0425	5.6667	0.6245
24	03:30:16	0.0430	0.0427	5.6933	0.6241
25	04:00:19	0.0433	0.0430	5.7333	0.6234
26	04:30:21	0.0435	0.0432	5.7600	0.6229
27	05:00:23	0.0436	0.0433	5.7733	0.6227
28	05:25:23	0.0437	0.0434	5.7867	0.6225

Tested By: **Checked By:**

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: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 18 Oct 11
Test Number:

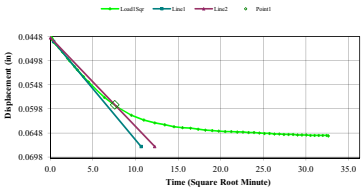
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

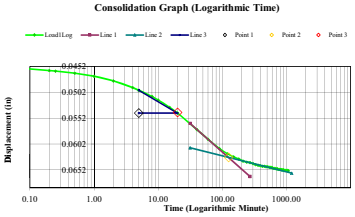
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0437	0.0434	5.7867	0.6225
1	00:00:00	0.0446	0.0443	5.9067	0.6204
2	00:00:01	0.0450	0.0447	5.9600	0.6195
3	00:00:02	0.0452	0.0449	5.9867	0.6190
4	00:00:03	0.0454	0.0451	6.0133	0.6185
5	00:00:04	0.0455	0.0452	6.0267	0.6183
6	00:00:05	0.0456	0.0453	6.0400	0.6181
7	00:00:12	0.0460	0.0457	6.0933	0.6172
8	00:00:15	0.0461	0.0458	6.1067	0.6169
9	00:00:30	0.0465	0.0462	6.1600	0.6160
10	00:01:00	0.0471	0.0468	6.2400	0.6146
11	00:02:00	0.0480	0.0477	6.3600	0.6126
12	00:04:00	0.0493	0.0490	6.5333	0.6096
13	00:05:00	0.0498	0.0495	6.6000	0.6084
14	00:08:00	0.0510	0.0507	6.7600	0.6057
15	00:10:00	0.0517	0.0514	6.8533	0.6041
16	00:15:01	0.0531	0.0528	7.0400	0.6009
17	00:20:01	0.0542	0.0539	7.1867	0.5983
18	00:40:03	0.0574	0.0571	7.6133	0.5910
19	01:00:04	0.0593	0.0590	7.8667	0.5866
20	01:30:06	0.0611	0.0608	8.1067	0.5825
21	02:00:09	0.0621	0.0618	8.2400	0.5802
22	02:30:11	0.0627	0.0624	8.3200	0.5788
23	03:00:13	0.0631	0.0628	8.3733	0.5779
24	03:30:15	0.0635	0.0632	8.4267	0.5770
25	04:00:18	0.0637	0.0634	8.4533	0.5765
26	04:30:20	0.0638	0.0635	8.4667	0.5763
27	**05:00:22**	**0.0640**	**0.0637**	**8.4933**	**0.5758**
28	05:30:24	0.0642	0.0639	8.5200	0.5754
29	06:00:27	0.0643	0.0640	8.5333	0.5752
30	06:30:29	0.0644	0.0641	8.5467	0.5749
31	07:00:31	0.0645	0.0642	8.5600	0.5747
32	07:30:34	0.0645	0.0642	8.5600	0.5747
33	08:00:36	0.0646	0.0643	8.5733	0.5745
34	08:30:38	0.0646	0.0643	8.5733	0.5745
35	09:00:40	0.0647	0.0644	8.5867	0.5742
36	09:30:43	0.0647	0.0644	8.5867	0.5742
37	10:00:45	0.0648	0.0645	8.6000	0.5740
38	10:30:47	0.0649	0.0646	8.6133	0.5738
39	11:00:50	0.0649	0.0646	8.6133	0.5738
40	11:30:52	0.0650	0.0647	8.6267	0.5735
41	12:00:54	0.0650	0.0647	8.6267	0.5735
42	12:30:56	0.0651	0.0648	8.6400	0.5733
43	13:00:59	0.0651	0.0648	8.6400	0.5733
44	13:31:01	0.0651	0.0648	8.6400	0.5733
45	14:01:03	0.0652	0.0649	8.6533	0.5731
46	14:31:06	0.0652	0.0649	8.6533	0.5731
47	15:01:08	0.0652	0.0649	8.6533	0.5731
48	15:31:10	0.0653	0.0650	8.6667	0.5729
49	16:01:12	0.0653	0.0650	8.6667	0.5729
50	16:31:15	0.0653	0.0650	8.6667	0.5729
51	17:01:17	0.0653	0.0650	8.6667	0.5729
52	17:31:19	0.0653	0.0650	8.6667	0.5729
53	17:43:38	0.0654	0.0651	8.6800	0.5726

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 671S-023-00
Test Date: 18 Oct 11
Test Number:

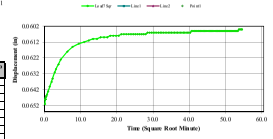
Sample Number:
Soil Description:
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0054	0.0051	8.6810	0.5726
1	00:00:01	0.0051	0.0048	8.6810	0.5753
2	00:00:02	0.0048	0.0045	8.6810	0.5780
3	00:00:03	0.0048	0.0045	8.6810	0.5780
4	00:00:04	0.0048	0.0045	8.6810	0.5780
5	00:00:05	0.0048	0.0045	8.6810	0.5780
6	00:00:06	0.0047	0.0044	8.5967	0.5792
7	00:00:12	0.0046	0.0043	8.5733	0.5795
8	00:00:15	0.0046	0.0043	8.5733	0.5795
9	00:00:30	0.0045	0.0042	8.5610	0.5797
10	00:01:00	0.0043	0.0040	8.5333	0.5752
11	00:02:00	0.0040	0.0037	8.4933	0.5758
12	00:03:59	0.0037	0.0034	8.4853	0.5765
13	00:04:59	0.0035	0.0032	8.4267	0.5770
14	00:07:59	0.0031	0.0028	8.3733	0.5779
15	00:09:59	0.0029	0.0026	8.3467	0.5784
16	00:14:59	0.0026	0.0023	8.3067	0.5791
17	00:19:59	0.0023	0.0020	8.2667	0.5797
18	00:39:59	0.0018	0.0015	8.2000	0.5809
19	00:59:58	0.0015	0.0012	8.1600	0.5816
20	01:29:58	0.0013	0.0010	8.1333	0.5820
21	01:59:58	0.0012	0.0009	8.1200	0.5823
22	02:29:59	0.0011	0.0008	8.1067	0.5825
23	03:00:02	0.0010	0.0007	8.0933	0.5827
24	03:30:04	0.0010	0.0007	8.0933	0.5827
25	04:00:06	0.0009	0.0006	8.0800	0.5830
26	04:30:08	0.0009	0.0006	8.0800	0.5830
27	05:00:11	0.0009	0.0006	8.0800	0.5830
28	05:30:15	0.0008	0.0005	8.0667	0.5832
29	06:00:15	0.0008	0.0005	8.0667	0.5832
30	06:30:17	0.0008	0.0005	8.0667	0.5832
31	07:00:20	0.0008	0.0005	8.0667	0.5832
32	07:30:22	0.0007	0.0004	8.0533	0.5834
33	08:00:24	0.0007	0.0004	8.0533	0.5834
34	08:30:27	0.0007	0.0004	8.0533	0.5834
35	09:00:29	0.0007	0.0004	8.0533	0.5834
36	09:30:31	0.0007	0.0004	8.0533	0.5834
37	10:00:34	0.0007	0.0004	8.0533	0.5834
38	10:30:36	0.0007	0.0004	8.0533	0.5834
39	11:00:38	0.0007	0.0004	8.0533	0.5834
40	11:30:40	0.0007	0.0004	8.0533	0.5834
41	12:00:43	0.0007	0.0004	8.0533	0.5834
42	12:30:45	0.0007	0.0004	8.0533	0.5834
43	13:00:47	0.0007	0.0004	8.0533	0.5834
44	13:30:50	0.0006	0.0003	8.0400	0.5836
45	14:00:52	0.0006	0.0003	8.0400	0.5836
46	14:30:54	0.0006	0.0003	8.0400	0.5836
47	15:00:57	0.0006	0.0003	8.0400	0.5836
48	15:30:59	0.0006	0.0003	8.0400	0.5836
49	16:01:01	0.0006	0.0003	8.0400	0.5836
50	16:31:03	0.0006	0.0003	8.0400	0.5836
51	17:01:06	0.0006	0.0003	8.0400	0.5836
52	17:31:08	0.0006	0.0003	8.0400	0.5836
53	18:01:10	0.0006	0.0003	8.0400	0.5836
54	18:31:13	0.0006	0.0003	8.0400	0.5836
55	19:01:15	0.0006	0.0003	8.0400	0.5836
56	19:31:17	0.0006	0.0003	8.0400	0.5836
57	20:01:19	0.0006	0.0003	8.0400	0.5836
58	20:31:22	0.0006	0.0003	8.0400	0.5836
59	21:01:24	0.0006	0.0003	8.0400	0.5836
60	21:31:26	0.0006	0.0003	8.0400	0.5836
61	22:01:28	0.0006	0.0003	8.0400	0.5836
62	22:31:31	0.0006	0.0003	8.0400	0.5836
63	23:01:33	0.0006	0.0003	8.0400	0.5836
64	23:31:35	0.0006	0.0003	8.0400	0.5836
65	24:01:38	0.0006	0.0003	8.0400	0.5836
66	24:31:40	0.0006	0.0003	8.0400	0.5836
67	25:01:42	0.0006	0.0003	8.0400	0.5836
68	25:31:44	0.0006	0.0003	8.0400	0.5836
69	26:01:47	0.0006	0.0003	8.0400	0.5836
70	26:31:49	0.0006	0.0003	8.0400	0.5836
71	27:01:51	0.0006	0.0003	8.0400	0.5836
72	27:31:53	0.0005	0.0002	8.0267	0.5839
73	28:01:56	0.0005	0.0002	8.0267	0.5839
74	28:31:58	0.0005	0.0002	8.0267	0.5839
75	29:02:00	0.0005	0.0002	8.0267	0.5839
76	29:32:03	0.0005	0.0002	8.0267	0.5839
77	30:02:05	0.0005	0.0002	8.0267	0.5839
78	30:32:07	0.0005	0.0002	8.0267	0.5839
79	31:02:09	0.0005	0.0002	8.0267	0.5839
80	31:32:12	0.0005	0.0002	8.0267	0.5839
81	32:02:14	0.0005	0.0002	8.0267	0.5839
82	32:32:16	0.0005	0.0002	8.0267	0.5839
83	33:02:19	0.0005	0.0002	8.0267	0.5839
84	33:32:21	0.0005	0.0002	8.0267	0.5839
85	34:02:23	0.0005	0.0002	8.0267	0.5839
86	34:32:25	0.0005	0.0002	8.0267	0.5839
87	35:02:28	0.0005	0.0002	8.0267	0.5839
88	35:32:30	0.0005	0.0002	8.0267	0.5839
89	36:02:32	0.0005	0.0002	8.0267	0.5839
90	36:32:35	0.0005	0.0002	8.0267	0.5839
91	37:02:37	0.0005	0.0002	8.0267	0.5839
92	37:32:39	0.0005	0.0002	8.0267	0.5839
93	38:02:41	0.0005	0.0002	8.0267	0.5839
94	38:32:44	0.0005	0.0002	8.0267	0.5839
95	39:02:46	0.0005	0.0002	8.0267	0.5839
96	39:32:48	0.0005	0.0002	8.0267	0.5839
97	40:02:50	0.0005	0.0002	8.0267	0.5839
98	40:32:53	0.0005	0.0002	8.0267	0.5839
99	41:02:55	0.0005	0.0002	8.0267	0.5839
100	41:32:57	0.0005	0.0002	8.0267	0.5839
101	42:03:00	0.0005	0.0002	8.0267	0.5839
102	42:33:02	0.0005	0.0002	8.0267	0.5839
103	43:03:04	0.0005	0.0002	8.0267	0.5839
104	43:33:06	0.0005	0.0002	8.0267	0.5839
105	44:03:09	0.0005	0.0002	8.0267	0.5839
106	44:33:11	0.0005	0.0002	8.0267	0.5839
107	45:03:13	0.0005	0.0002	8.0267	0.5839
108	45:33:15	0.0005	0.0002	8.0267	0.5839
109	46:03:18	0.0005	0.0002	8.0267	0.5839
110	46:33:20	0.0005	0.0002	8.0267	0.5839
111	47:03:22	0.0005	0.0002	8.0267	0.5839
112	47:33:25	0.0005	0.0002	8.0267	0.5839
113	48:03:27	0.0004	0.0001	8.0133	0.5841
114	48:33:29	0.0004	0.0001	8.0133	0.5841
115	49:03:31	0.0004	0.0001	8.0133	0.5841
116	49:33:34	0.0004	0.0001	8.0133	0.5841
117	49:37:32	0.0004	0.0001	8.0133	0.5841

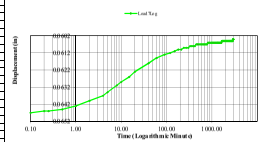
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 7) Rebound 0.250 tsf

Consolidation Graph (Square root Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 167 15-023-00
Test Date: 18 Oct 11
Test Number:

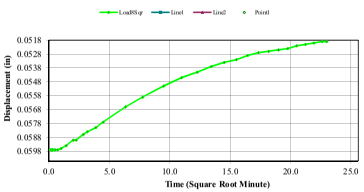
Sample Number:
Soil Description:
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0604	0.0601	8.0133	0.5841
1	00:00:01	0.0597	0.0594	7.9200	0.5857
2	00:00:02	0.0597	0.0594	7.9200	0.5857
3	00:00:03	0.0597	0.0594	7.9200	0.5857
4	00:00:04	0.0597	0.0594	7.9200	0.5857
5	00:00:05	0.0597	0.0594	7.9200	0.5857
6	00:00:06	0.0597	0.0594	7.9200	0.5857
7	00:00:12	0.0597	0.0594	7.9200	0.5857
8	00:00:15	0.0597	0.0594	7.9200	0.5857
9	00:00:30	0.0597	0.0594	7.9200	0.5857
10	00:01:00	0.0596	0.0593	7.9067	0.5859
11	00:02:00	0.0594	0.0591	7.8800	0.5864
12	00:04:00	0.0590	0.0587	7.8267	0.5873
13	00:05:00	0.0590	0.0587	7.8267	0.5873
14	00:08:00	0.0586	0.0583	7.7733	0.5882
15	00:10:00	0.0584	0.0581	7.7467	0.5887
16	00:15:01	0.0581	0.0578	7.7067	0.5894
17	00:20:01	0.0577	0.0574	7.6533	0.5903
18	00:40:03	0.0566	0.0563	7.5067	0.5928
19	01:00:04	0.0559	0.0556	7.4133	0.5944
20	01:30:07	0.0551	0.0548	7.3067	0.5963
21	02:00:09	0.0545	0.0542	7.2267	0.5977
22	02:30:11	0.0541	0.0538	7.1733	0.5986
23	03:00:13	0.0537	0.0534	7.1200	0.5995
24	03:30:16	0.0534	0.0531	7.0800	0.6002
25	04:00:18	0.0532	0.0529	7.0533	0.6006
26	04:30:20	0.0529	0.0526	7.0133	0.6013
27	05:00:23	0.0527	0.0524	6.9867	0.6018
28	05:30:25	0.0526	0.0523	6.9733	0.6020
29	06:00:27	0.0525	0.0522	6.9600	0.6022
30	06:30:29	0.0524	0.0521	6.9467	0.6025
31	07:00:32	0.0522	0.0519	6.9200	0.6029
32	07:30:34	0.0521	0.0518	6.9067	0.6032
33	08:00:36	0.0520	0.0517	6.8933	0.6034
34	08:30:38	0.0519	0.0516	6.8800	0.6036
35	08:48:01	0.0519	0.0516	6.8800	0.6036

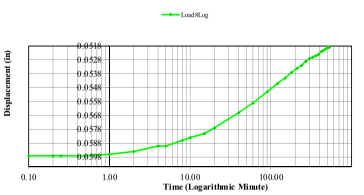
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 8) Rebound 0.063 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 18 Oct 11
Test Number:

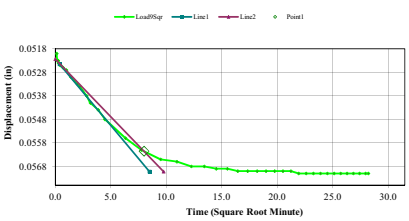
Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0519	0.0516	6.8800	0.6036
1	00:00:01	0.0520	0.0517	6.8933	0.6034
2	00:00:02	0.0523	0.0520	6.9333	0.6027
3	00:00:03	0.0523	0.0520	6.9333	0.6027
4	00:00:04	0.0523	0.0520	6.9333	0.6027
5	00:00:05	0.0524	0.0521	6.9467	0.6025
6	00:00:06	0.0524	0.0521	6.9467	0.6025
7	00:00:12	0.0525	0.0522	6.9600	0.6022
8	00:00:15	0.0525	0.0522	6.9600	0.6022
9	00:00:30	0.0526	0.0523	6.9733	0.6020
10	00:01:00	0.0527	0.0524	6.9867	0.6018
11	00:02:00	0.0530	0.0527	7.0267	0.6011
12	00:04:00	0.0533	0.0530	7.0667	0.6004
13	00:05:00	0.0534	0.0531	7.0800	0.6002
14	00:08:00	0.0538	0.0535	7.1333	0.5993
15	00:10:00	0.0541	0.0538	7.1733	0.5986
16	00:15:01	0.0544	0.0541	7.2133	0.5979
17	00:20:01	0.0548	0.0545	7.2667	0.5970
18	00:40:03	0.0556	0.0553	7.3733	0.5951
19	01:00:04	0.0561	0.0558	7.4400	0.5940
20	01:30:06	0.0565	0.0562	7.4933	0.5931
21	02:00:09	0.0566	0.0563	7.5067	0.5928
22	02:30:11	0.0568	0.0565	7.5333	0.5924
23	03:00:13	0.0568	0.0565	7.5333	0.5924
24	03:30:16	0.0569	0.0566	7.5467	0.5921
25	04:00:18	0.0569	0.0566	7.5467	0.5921
26	04:30:20	0.0570	0.0567	7.5600	0.5919
27	05:00:23	0.0570	0.0567	7.5600	0.5919
28	05:30:25	0.0570	0.0567	7.5600	0.5919
29	06:00:27	0.0570	0.0567	7.5600	0.5919
30	06:30:29	0.0570	0.0567	7.5600	0.5919
31	07:00:32	0.0570	0.0567	7.5600	0.5919
32	07:30:34	0.0570	0.0567	7.5600	0.5919
33	08:00:36	0.0571	0.0568	7.5733	0.5917
34	08:30:39	0.0571	0.0568	7.5733	0.5917
35	09:00:41	0.0571	0.0568	7.5733	0.5917
36	09:30:43	0.0571	0.0568	7.5733	0.5917
37	10:00:46	0.0571	0.0568	7.5733	0.5917
38	10:30:48	0.0571	0.0568	7.5733	0.5917
39	11:00:50	0.0571	0.0568	7.5733	0.5917
40	11:30:52	0.0571	0.0568	7.5733	0.5917
41	12:00:55	0.0571	0.0568	7.5733	0.5917
42	12:30:57	0.0571	0.0568	7.5733	0.5917
43	13:00:59	0.0571	0.0568	7.5733	0.5917
44	13:15:16	0.0571	0.0568	7.5733	0.5917

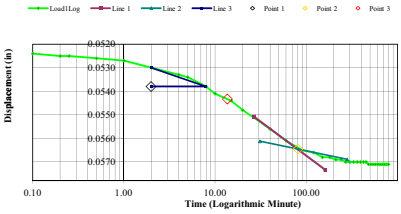
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 9) Load 0.250 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 18 Oct 11
Test Number:

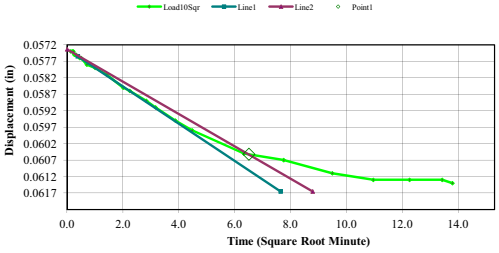
Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0571	0.0568	7.5733	0.5917
1	00:00:01	0.0574	0.0571	7.6133	0.5910
2	00:00:02	0.0574	0.0571	7.6133	0.5910
3	00:00:03	0.0574	0.0571	7.6133	0.5910
4	00:00:04	0.0575	0.0572	7.6267	0.5908
5	00:00:05	0.0575	0.0572	7.6267	0.5908
6	00:00:06	0.0575	0.0572	7.6267	0.5908
7	00:00:12	0.0576	0.0573	7.6400	0.5905
8	00:00:15	0.0576	0.0573	7.6400	0.5905
9	00:00:30	0.0578	0.0575	7.6667	0.5901
10	00:01:00	0.0579	0.0576	7.6800	0.5898
11	00:02:00	0.0581	0.0578	7.7067	0.5894
12	00:04:01	0.0585	0.0582	7.7600	0.5885
13	00:05:01	0.0586	0.0583	7.7733	0.5882
14	00:08:01	0.0589	0.0586	7.8133	0.5876
15	00:10:01	0.0591	0.0588	7.8400	0.5871
16	00:15:01	0.0595	0.0592	7.8933	0.5862
17	00:20:02	0.0598	0.0595	7.9333	0.5855
18	00:40:03	0.0605	0.0602	8.0267	0.5839
19	01:00:05	0.0607	0.0604	8.0533	0.5834
20	01:30:07	0.0611	0.0608	8.1067	0.5825
21	02:00:10	0.0613	0.0610	8.1333	0.5820
22	02:30:12	0.0613	0.0610	8.1333	0.5820
23	03:00:14	0.0613	0.0610	8.1333	0.5820
24	03:10:16	0.0614	0.0611	8.1467	0.5818

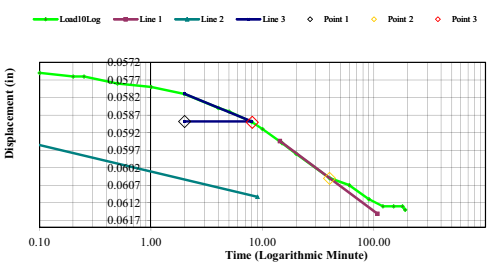
Tested By: **Checked By:**

Consolidation Test Results
(Sequence 10) Load 0.500 tsf

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 11) Load 1.000 tsf

Consolidation Test Results
(Sequence 11) Load 1.000 tsf

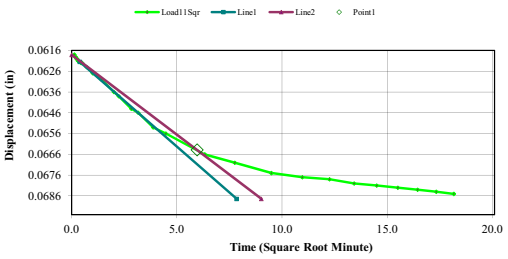
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 18 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

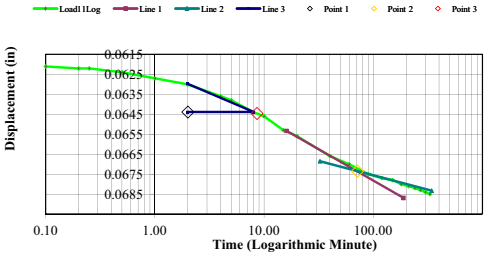
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0614	0.0611	8.1467	0.5818
1	00:00:01	0.0618	0.0615	8.2000	0.5809
2	00:00:02	0.0619	0.0616	8.2133	0.5807
3	00:00:03	0.0620	0.0617	8.2267	0.5804
4	00:00:04	0.0620	0.0617	8.2267	0.5804
5	00:00:05	0.0621	0.0618	8.2400	0.5802
6	00:00:06	0.0621	0.0618	8.2400	0.5802
7	00:00:12	0.0622	0.0619	8.2533	0.5800
8	00:00:15	0.0622	0.0619	8.2533	0.5800
9	00:00:30	0.0624	0.0621	8.2800	0.5795
10	00:01:00	0.0627	0.0624	8.3200	0.5788
11	00:02:00	0.0630	0.0627	8.3600	0.5781
12	00:04:00	0.0636	0.0633	8.4400	0.5768
13	00:05:00	0.0638	0.0635	8.4667	0.5763
14	00:08:00	0.0644	0.0641	8.5467	0.5749
15	00:10:00	0.0646	0.0643	8.5733	0.5745
16	00:15:01	0.0653	0.0650	8.6667	0.5729
17	00:20:01	0.0656	0.0653	8.7067	0.5722
18	00:40:03	0.0666	0.0663	8.8400	0.5699
19	01:00:04	0.0670	0.0667	8.8933	0.5690
20	01:30:06	0.0675	0.0672	8.9600	0.5678
21	02:00:09	0.0677	0.0674	8.9867	0.5673
22	02:30:11	0.0678	0.0675	9.0000	0.5671
23	03:00:13	0.0680	0.0677	9.0267	0.5667
24	03:30:15	0.0681	0.0678	9.0400	0.5664
25	04:00:18	0.0682	0.0679	9.0533	0.5662
26	04:30:20	0.0683	0.0680	9.0667	0.5660
27	05:00:22	0.0684	0.0681	9.0800	0.5657
28	05:29:57	0.0685	0.0682	9.0933	0.5655

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 12) Load 2.000 tsf

Consolidation Test Results
(Sequence 12) Load 2.000 tsf

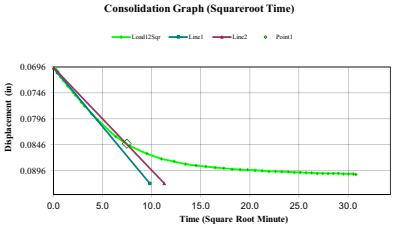
Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104) **Project Number:** 16715-023-00
Location: St. Tammany Parish, LA
Job Number: **Test Date:** 18 Oct 11
Test Number:

Sample Number: **Soil Description:**
Boring Number: 9 Very sandy clay (CL)
Depth: 13.5 - 15.5 feet **Remarks:**
Sample Type: Undisturbed

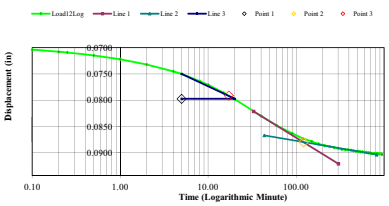
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0685	0.0682	9.0933	0.5655
1	00:00:01	0.0697	0.0694	9.2533	0.5628
2	00:00:02	0.0700	0.0697	9.2933	0.5621
3	00:00:03	0.0701	0.0698	9.3067	0.5618
4	00:00:04	0.0702	0.0699	9.3200	0.5616
5	00:00:05	0.0703	0.0700	9.3333	0.5614
6	00:00:06	0.0704	0.0701	9.3467	0.5611
7	00:00:12	0.0708	0.0705	9.4000	0.5602
8	00:00:15	0.0709	0.0706	9.4133	0.5600
9	00:00:30	0.0715	0.0712	9.4933	0.5586
10	00:01:00	0.0722	0.0719	9.5867	0.5570
11	00:02:00	0.0732	0.0729	9.7200	0.5547
12	00:04:00	0.0745	0.0742	9.8933	0.5517
13	00:05:00	0.0750	0.0747	9.9600	0.5506
14	00:08:01	0.0764	0.0761	10.1467	0.5474
15	00:10:01	0.0771	0.0768	10.2400	0.5458
16	00:15:01	0.0786	0.0783	10.4400	0.5423
17	00:20:02	0.0798	0.0795	10.6000	0.5396
18	00:40:03	0.0830	0.0827	11.0267	0.5322
19	01:00:05	0.0848	0.0845	11.2667	0.5281
20	01:30:07	0.0863	0.0860	11.4667	0.5246
21	02:00:09	0.0873	0.0870	11.6000	0.5223
22	02:30:11	0.0878	0.0875	11.6667	0.5212
23	03:00:14	0.0883	0.0880	11.7333	0.5200
24	03:30:16	0.0886	0.0883	11.7733	0.5194
25	04:00:18	0.0888	0.0885	11.8000	0.5189
26	04:30:20	0.0890	0.0887	11.8267	0.5184
27	05:00:23	0.0891	0.0888	11.8400	0.5182
28	05:30:25	0.0893	0.0890	11.8667	0.5177
29	06:00:27	0.0894	0.0891	11.8800	0.5175
30	06:30:30	0.0894	0.0891	11.8800	0.5175
31	07:00:32	0.0895	0.0892	11.8933	0.5173
32	07:30:34	0.0896	0.0893	11.9067	0.5171
33	08:00:36	0.0897	0.0894	11.9200	0.5168
34	08:30:39	0.0897	0.0894	11.9200	0.5168
35	09:00:41	0.0898	0.0895	11.9333	0.5166
36	09:30:43	0.0898	0.0895	11.9333	0.5166
37	10:00:46	0.0899	0.0896	11.9467	0.5164
38	10:30:48	0.0899	0.0896	11.9467	0.5164
39	11:00:50	0.0900	0.0897	11.9600	0.5161
40	11:30:52	0.0900	0.0897	11.9600	0.5161
41	12:00:55	0.0901	0.0898	11.9733	0.5159
42	12:30:57	0.0901	0.0898	11.9733	0.5159
43	13:00:59	0.0901	0.0898	11.9733	0.5159
44	13:31:01	0.0901	0.0898	11.9733	0.5159
45	14:01:04	0.0901	0.0898	11.9733	0.5159
46	14:31:06	0.0902	0.0899	11.9867	0.5157
47	15:01:08	0.0902	0.0899	11.9867	0.5157
48	15:31:11	0.0902	0.0899	11.9867	0.5157
49	15:47:40	0.0903	0.0900	12.0000	0.5155

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Consolidation Test Results
(Sequence 13) Load 4.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 18 Oct 11
Test Number:

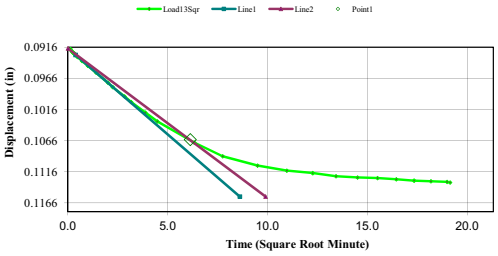
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

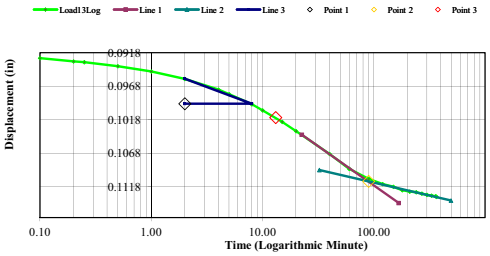
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.0903	0.0900	12.0000	0.5155
1	00:00:01	0.0919	0.0916	12.2133	0.5118
2	00:00:02	0.0922	0.0919	12.2533	0.5111
3	00:00:03	0.0924	0.0921	12.2800	0.5106
4	00:00:04	0.0925	0.0922	12.2933	0.5104
5	00:00:05	0.0926	0.0923	12.3067	0.5102
6	00:00:06	0.0926	0.0923	12.3067	0.5102
7	00:00:12	0.0931	0.0928	12.3733	0.5090
8	00:00:15	0.0932	0.0929	12.3867	0.5088
9	00:00:30	0.0938	0.0935	12.4667	0.5074
10	00:01:00	0.0946	0.0943	12.5733	0.5056
11	00:02:00	0.0957	0.0954	12.7200	0.5031
12	00:04:01	0.0973	0.0970	12.9333	0.4994
13	00:05:01	0.0980	0.0977	13.0267	0.4978
14	00:08:01	0.0995	0.0992	13.2267	0.4943
15	00:10:01	0.1004	0.1001	13.3467	0.4923
16	00:15:01	0.1021	0.1018	13.5733	0.4884
17	00:20:02	0.1035	0.1032	13.7600	0.4851
18	00:40:03	0.1069	0.1066	14.2133	0.4773
19	01:00:05	0.1091	0.1088	14.5067	0.4723
20	01:30:07	0.1106	0.1103	14.7067	0.4688
21	02:00:09	0.1114	0.1111	14.8133	0.4670
22	02:30:12	0.1118	0.1115	14.8667	0.4661
23	03:00:14	0.1123	0.1120	14.9333	0.4649
24	03:30:16	0.1125	0.1122	14.9600	0.4645
25	04:00:18	0.1126	0.1123	14.9733	0.4642
26	04:30:21	0.1128	0.1125	15.0000	0.4638
27	05:00:23	0.1130	0.1127	15.0267	0.4633
28	05:30:25	0.1131	0.1128	15.0400	0.4631
29	06:00:28	0.1132	0.1129	15.0533	0.4629
30	06:06:15	0.1133	0.1130	15.0667	0.4626

Tested By: **Checked By:**

Consolidation Graph (Squareroot Time)



Consolidation Graph (Logarithmic Time)



Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Consolidation Test Results
(Sequence 14) Load 8.000 tsf

Project: LDNR/OCPR Bayou Bonfouca Marsh Creation (PO-104)
Location: St. Tammany Parish, LA
Job Number:

Project Number: 16715-023-00
Test Date: 18 Oct 11
Test Number:

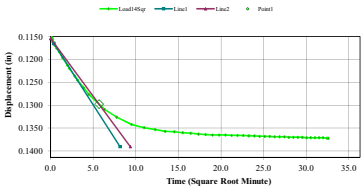
Sample Number:
Boring Number: 9
Depth: 13.5 - 15.5 feet
Sample Type: Undisturbed

Soil Description: Very sandy clay (CL)
Remarks:

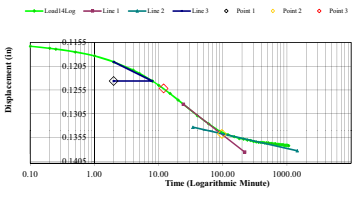
Index	Time	Displacement (in)	Settlement (in)	Axial Strain (%)	Void Ratio
0	00:00:00	0.1133	0.1130	15.0667	0.4626
1	00:00:01	0.1152	0.1149	15.3200	0.4583
2	00:00:02	0.1154	0.1151	15.3467	0.4578
3	00:00:03	0.1157	0.1154	15.3867	0.4571
4	00:00:04	0.1161	0.1158	15.4400	0.4562
5	00:00:05	0.1162	0.1159	15.4533	0.4560
6	00:00:06	0.1163	0.1160	15.4667	0.4558
7	00:00:12	0.1167	0.1164	15.5200	0.4548
8	00:00:15	0.1169	0.1166	15.5467	0.4544
9	00:00:30	0.1175	0.1172	15.6267	0.4530
10	00:01:00	0.1183	0.1180	15.7333	0.4512
11	00:02:00	0.1196	0.1193	15.9067	0.4482
12	00:04:00	0.1213	0.1210	16.1333	0.4443
13	00:05:00	0.1220	0.1217	16.2267	0.4427
14	00:08:01	0.1236	0.1233	16.4400	0.4390
15	00:10:01	0.1245	0.1242	16.5600	0.4369
16	00:15:01	0.1262	0.1259	16.7867	0.4330
17	00:20:01	0.1276	0.1273	16.9733	0.4298
18	00:40:03	0.1309	0.1306	17.4133	0.4222
19	01:00:04	0.1326	0.1323	17.6400	0.4183
20	01:30:07	0.1342	0.1339	17.8533	0.4147
21	02:00:09	0.1349	0.1346	17.9467	0.4130
22	02:30:11	0.1353	0.1350	18.0000	0.4121
23	03:00:14	0.1357	0.1354	18.0533	0.4112
24	03:30:16	0.1358	0.1355	18.0667	0.4110
25	04:00:18	0.1360	0.1357	18.0933	0.4105
26	04:30:20	0.1361	0.1358	18.1067	0.4103
27	**05:00:22**	**0.1363**	**0.1360**	**18.1333**	**0.4098**
28	05:30:24	0.1364	0.1361	18.1467	0.4096
29	06:00:27	0.1365	0.1362	18.1600	0.4094
30	06:30:29	0.1365	0.1362	18.1600	0.4094
31	07:00:31	0.1365	0.1362	18.1600	0.4094
32	07:30:34	0.1366	0.1363	18.1733	0.4091
33	08:00:36	0.1366	0.1363	18.1733	0.4091
34	08:30:38	0.1366	0.1363	18.1733	0.4091
35	09:00:40	0.1367	0.1364	18.1867	0.4089
36	09:30:43	0.1367	0.1364	18.1867	0.4089
37	10:00:45	0.1368	0.1365	18.2000	0.4087
38	10:30:47	0.1368	0.1365	18.2000	0.4087
39	11:00:50	0.1368	0.1365	18.2000	0.4087
40	11:30:52	0.1369	0.1366	18.2133	0.4085
41	12:00:54	0.1369	0.1366	18.2133	0.4085
42	12:30:57	0.1369	0.1366	18.2133	0.4085
43	13:00:59	0.1370	0.1367	18.2267	0.4082
44	13:31:01	0.1370	0.1367	18.2267	0.4082
45	14:01:03	0.1370	0.1367	18.2267	0.4082
46	14:31:06	0.1370	0.1367	18.2267	0.4082
47	15:01:08	0.1371	0.1368	18.2400	0.4080
48	15:31:10	0.1371	0.1368	18.2400	0.4080
49	16:01:13	0.1371	0.1368	18.2400	0.4080
50	16:31:15	0.1371	0.1368	18.2400	0.4080
51	17:01:17	0.1371	0.1368	18.2400	0.4080
52	17:31:19	0.1372	0.1369	18.2533	0.4078
53	17:40:41	0.1372	0.1369	18.2533	0.4078

Tested By: **Checked By:**

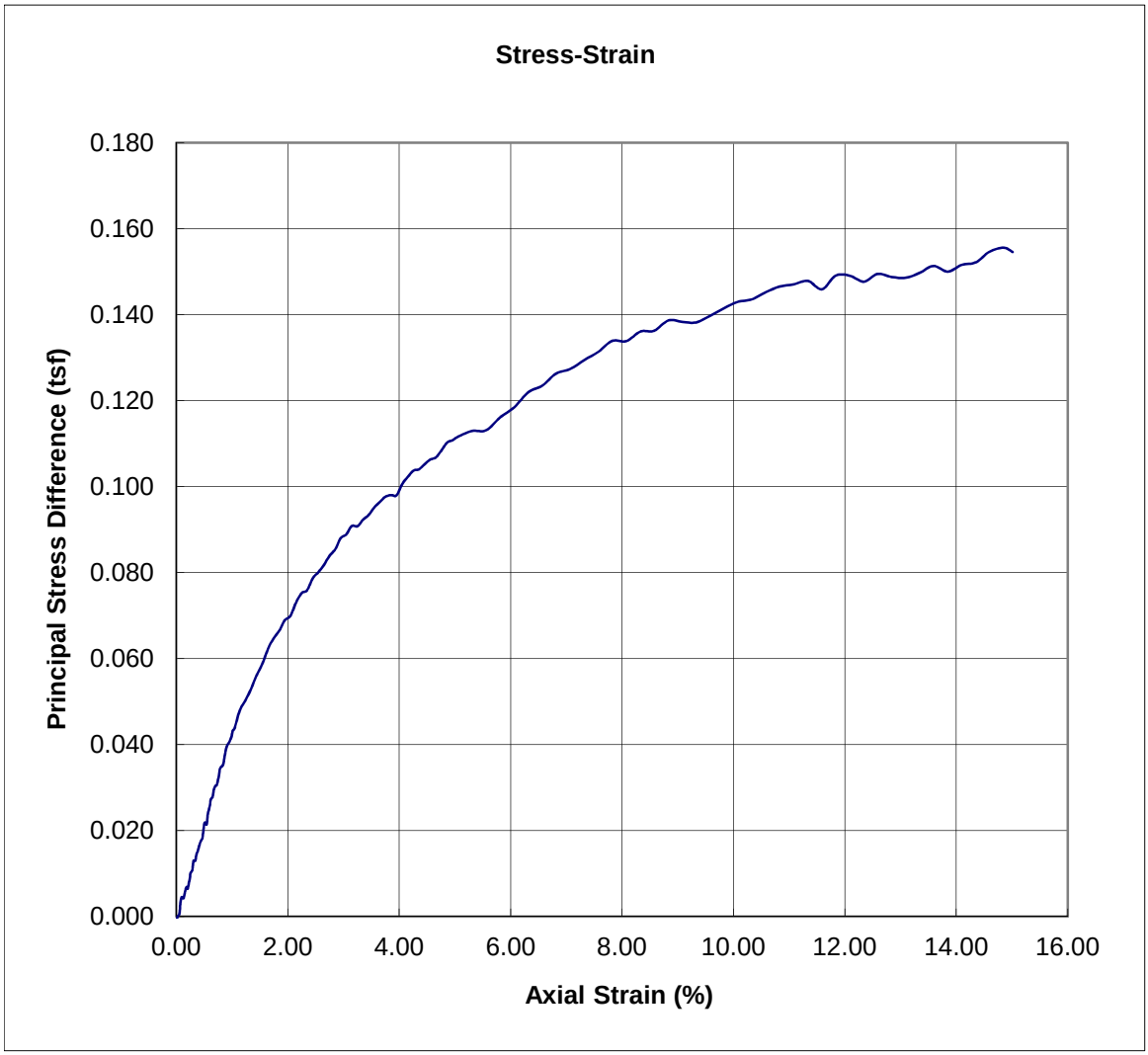
Consolidation Graph (Squareroot Time)



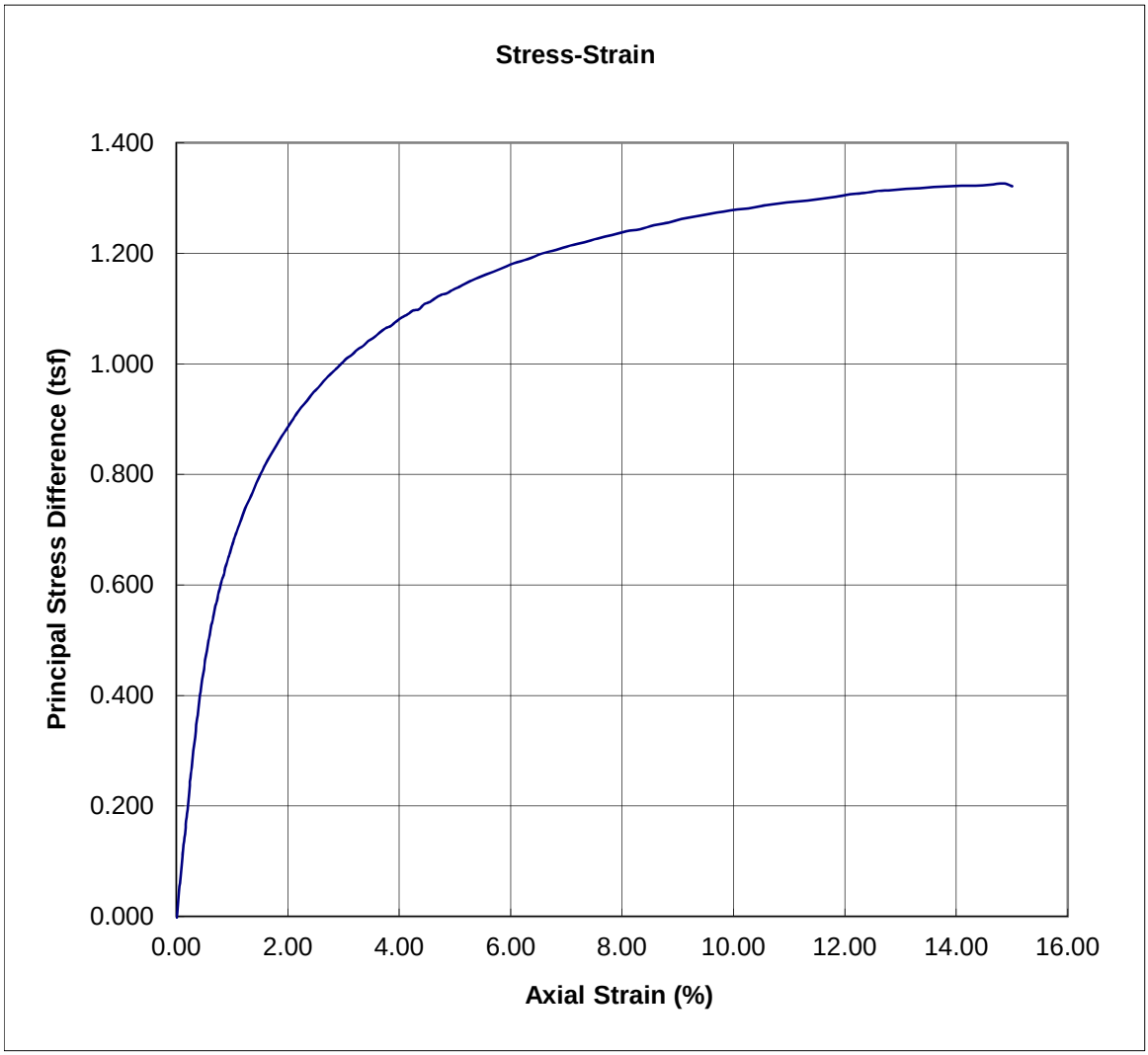
Consolidation Graph (Logarithmic Time)



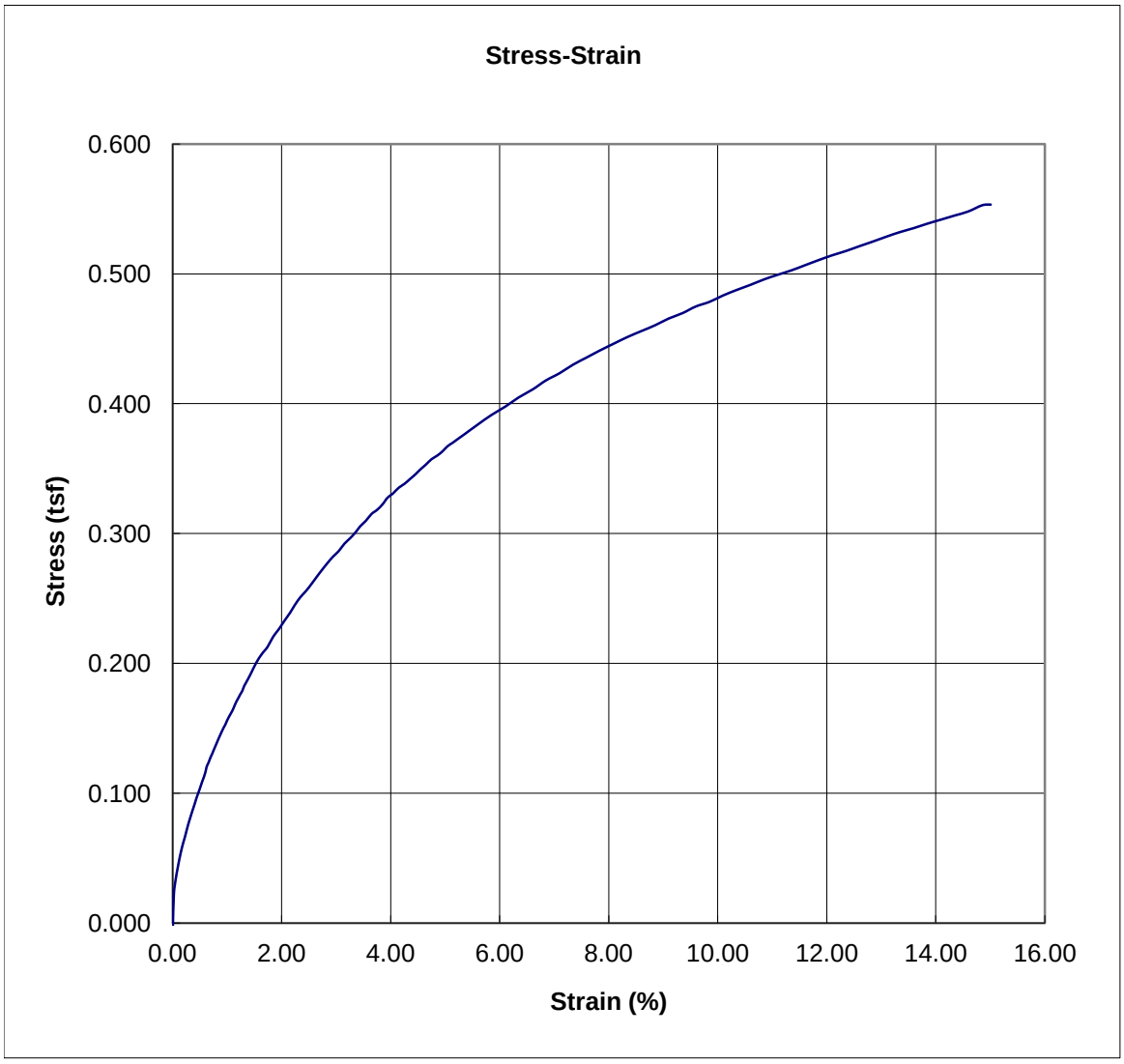
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	9:12:26 AM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.86	**Height (inch):**	5.2
Piston Correction (lbs):	0.238099738		
Failure:	Yield		



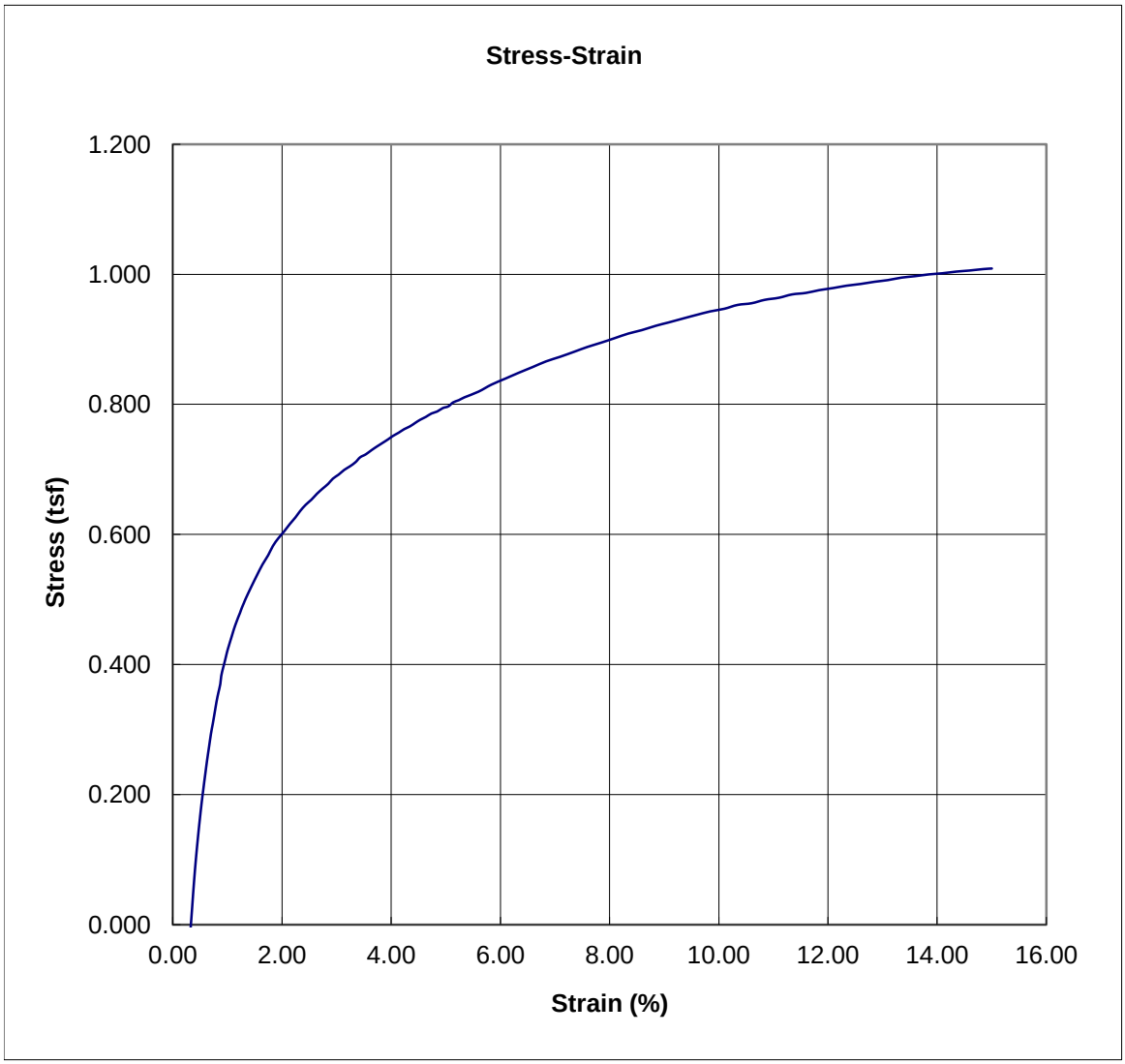
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	10:10:50 AM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.86	**Height (inch):**	5.97
Piston Correction (lbs):	1.01840812		
Failure:	Yield		



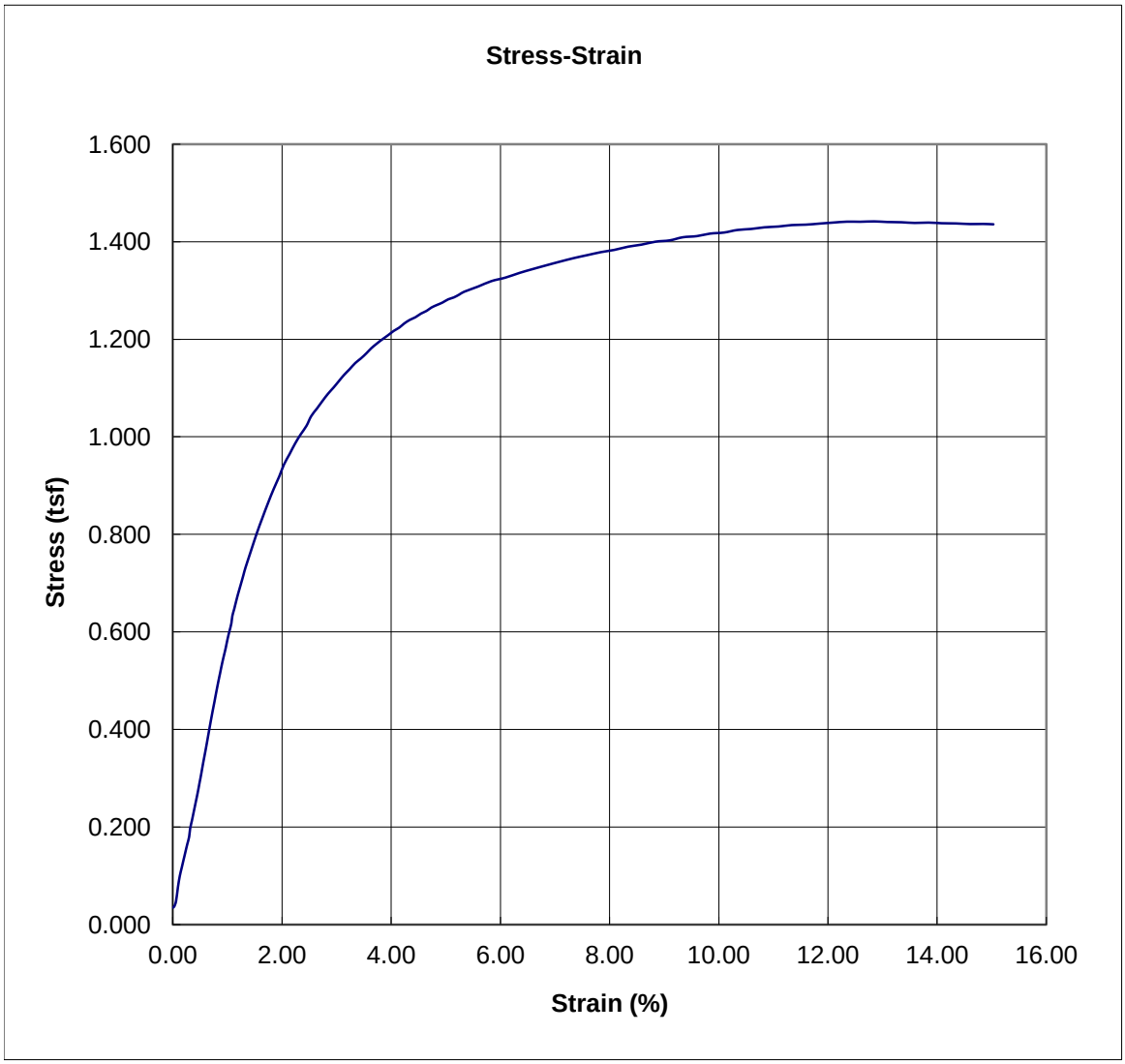
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	11:35:14 AM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.87	**Height (inch):**	6
Failure:	Yield		



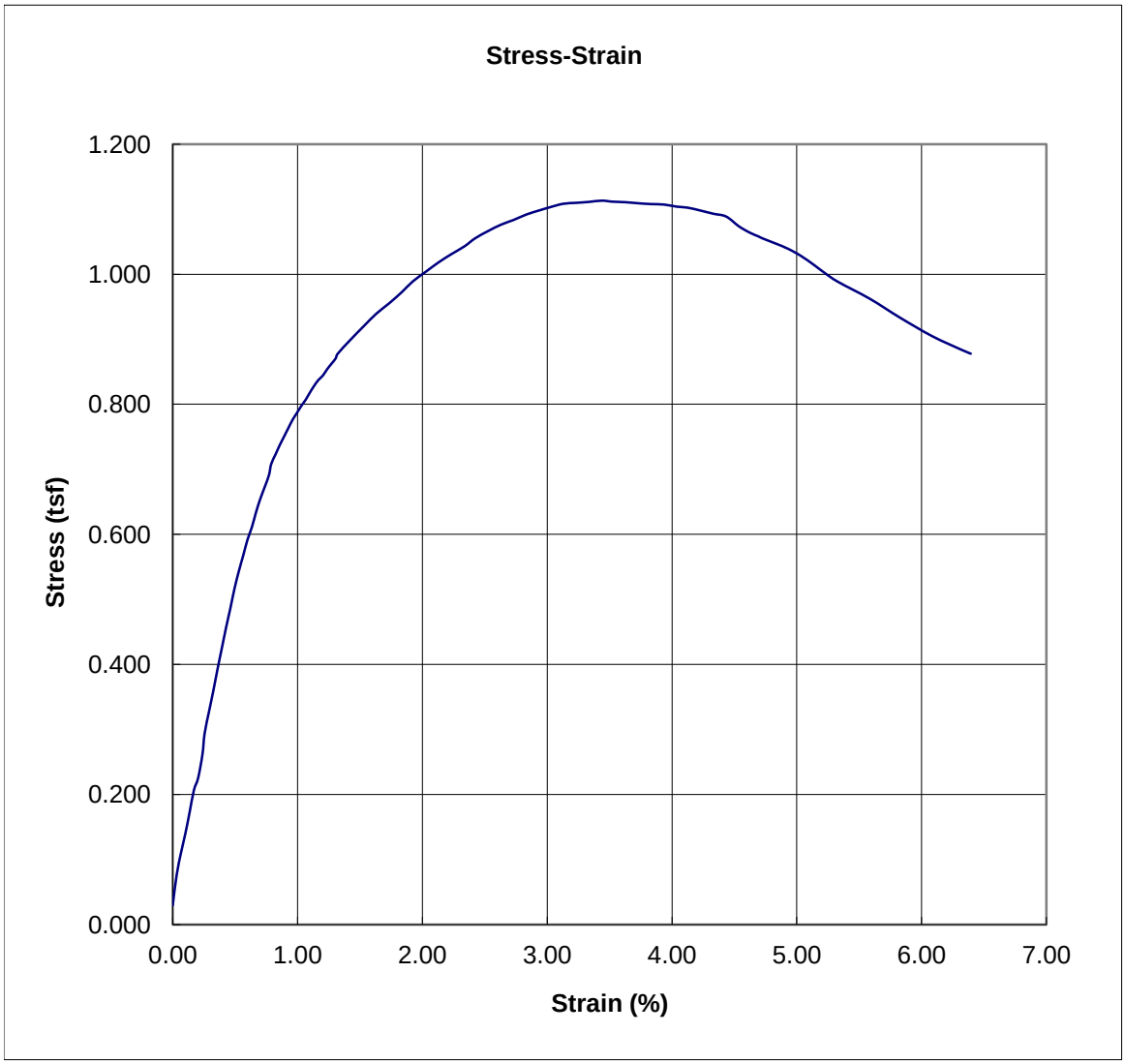
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	11:48:05 AM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.87	**Height (inch):**	5.95
Failure:	Yield		



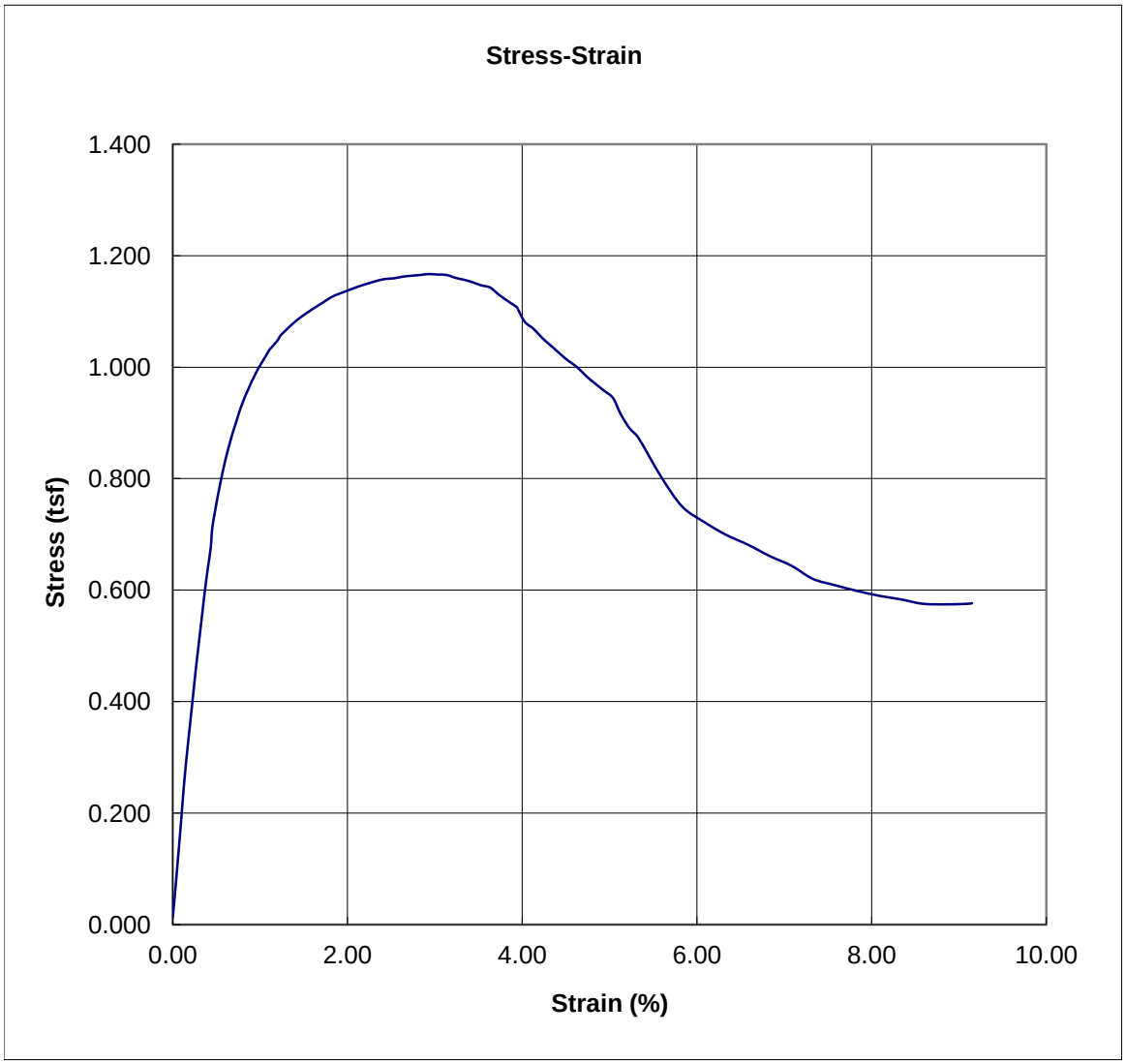
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	12:00:40 PM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.87	**Height (inch):**	6
Failure:	Bulge		



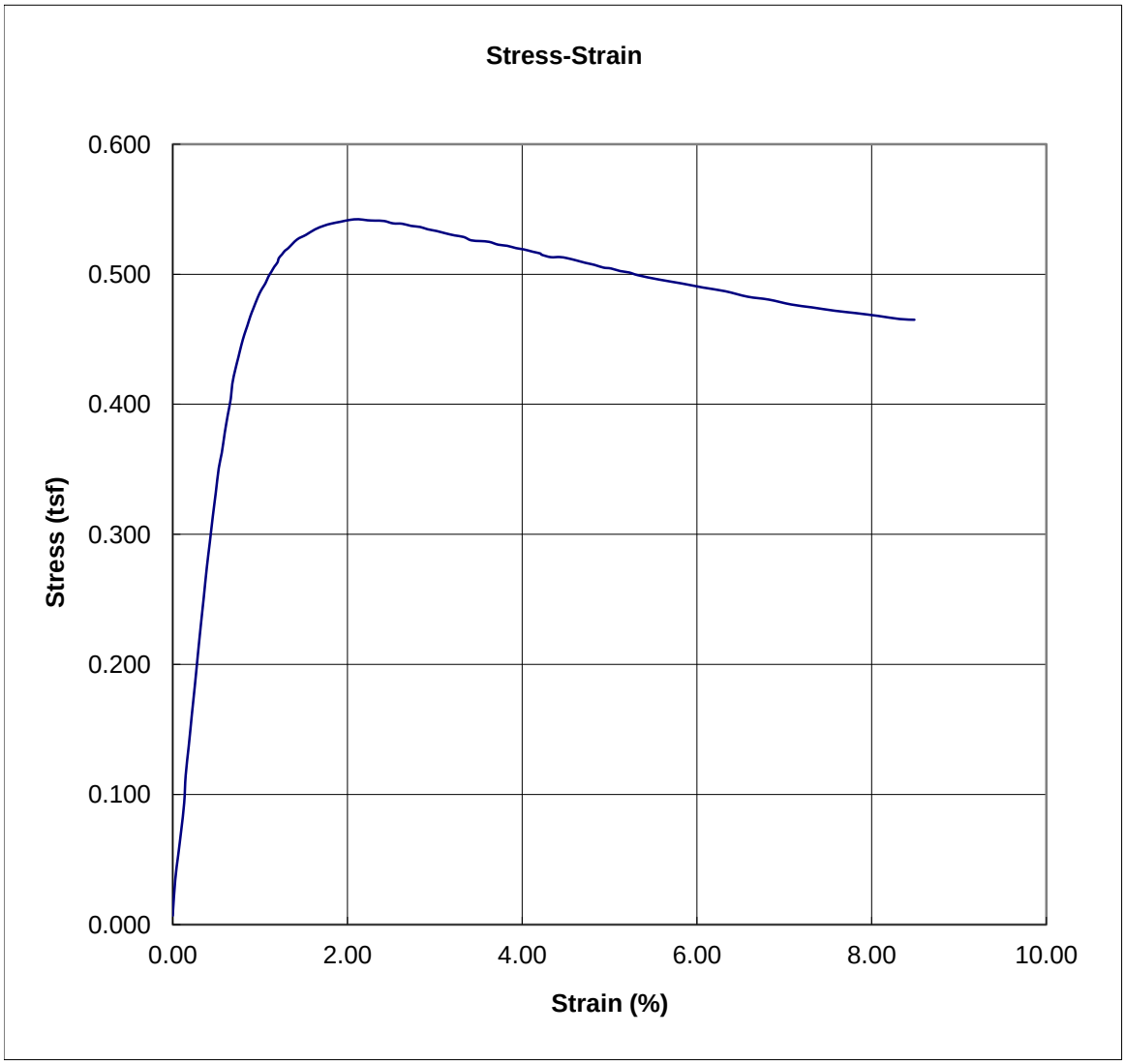
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	12:28:54 PM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.85	**Height (inch):**	6
Failure:	SLS		



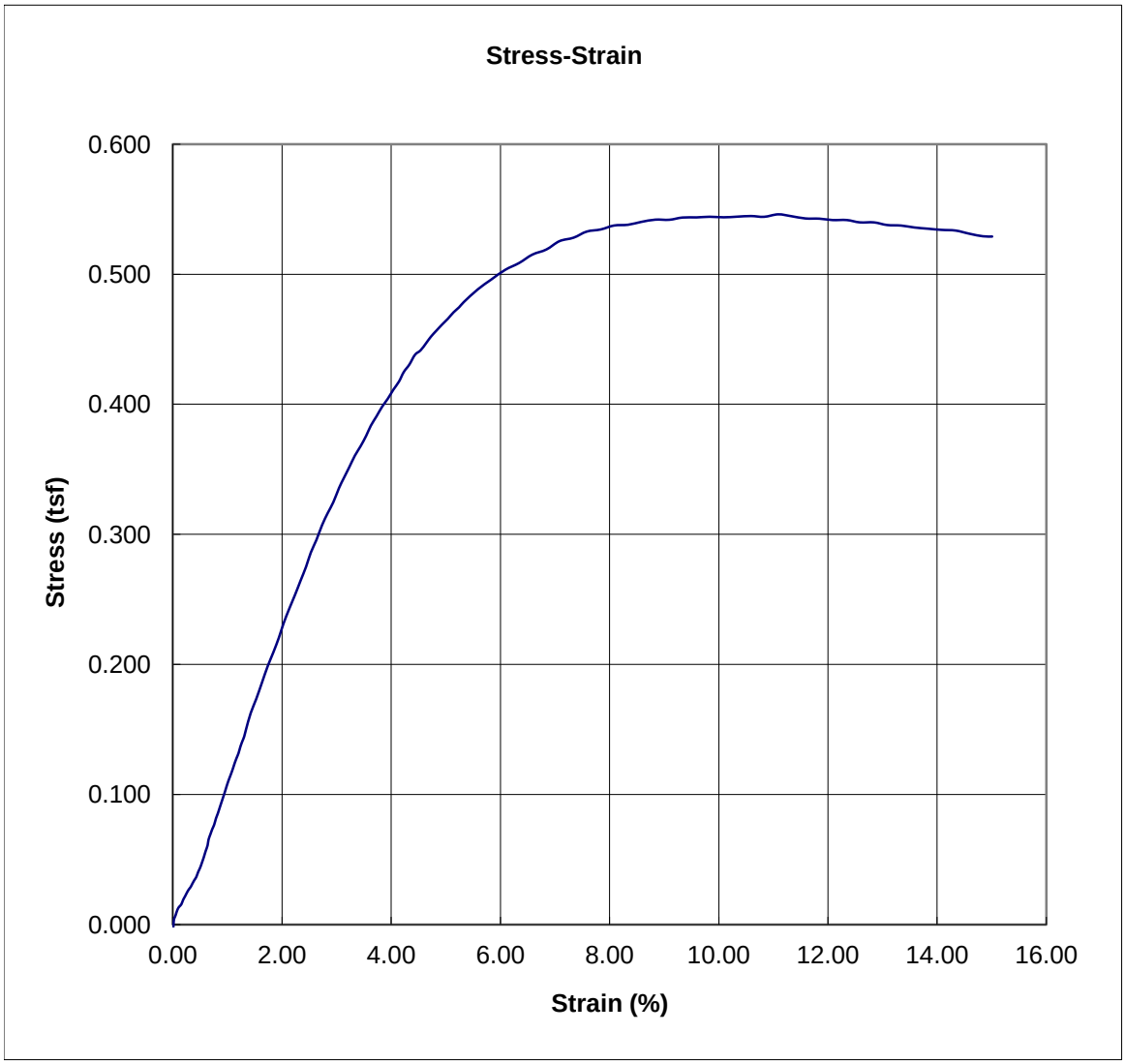
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	12:40:17 PM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.86	**Height (inch):**	5.9
Failure:	SLS		



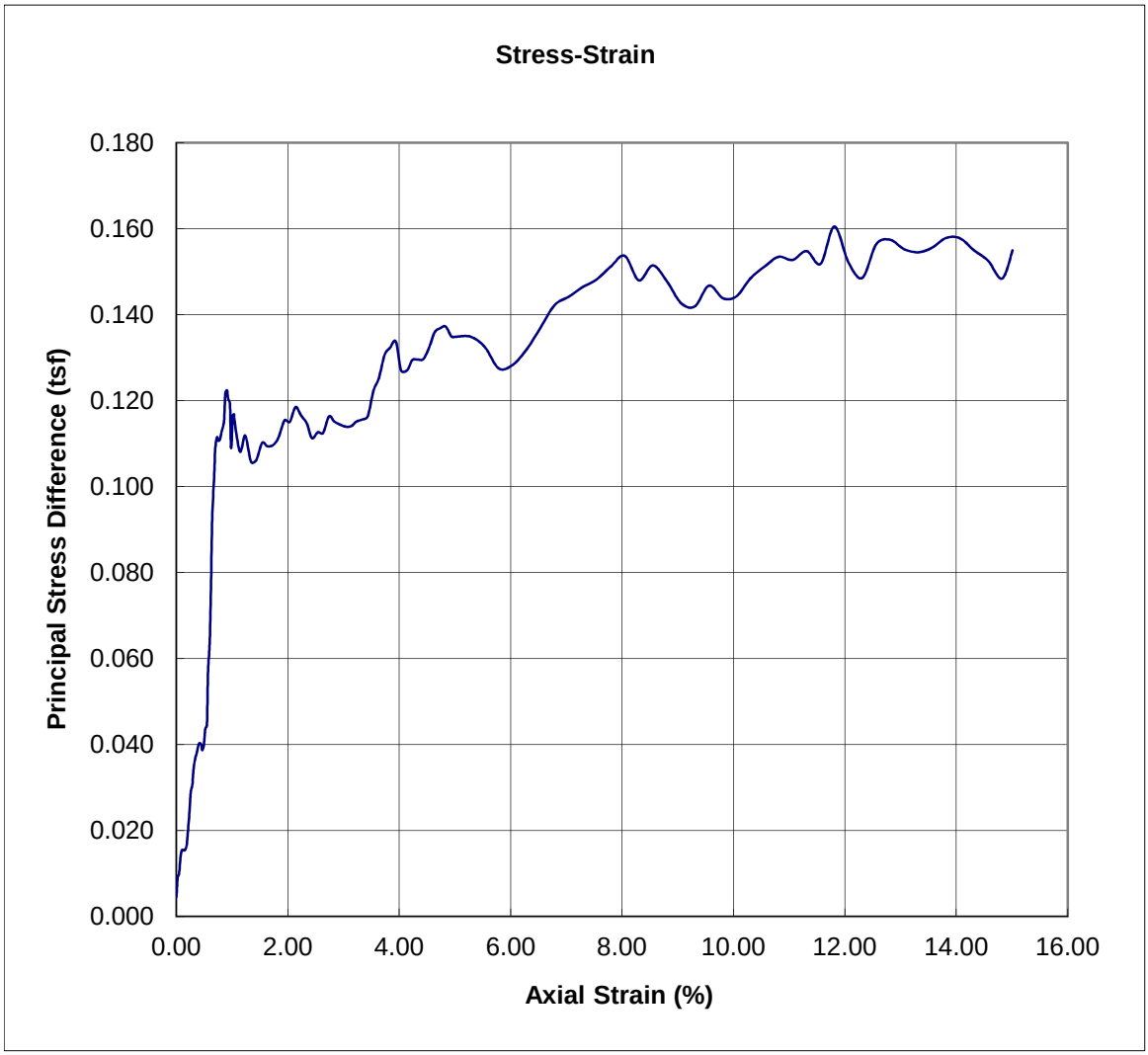
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	1:08:02 PM
Boring:	1	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.87	**Height (inch):**	5.9
Failure:	SLS		



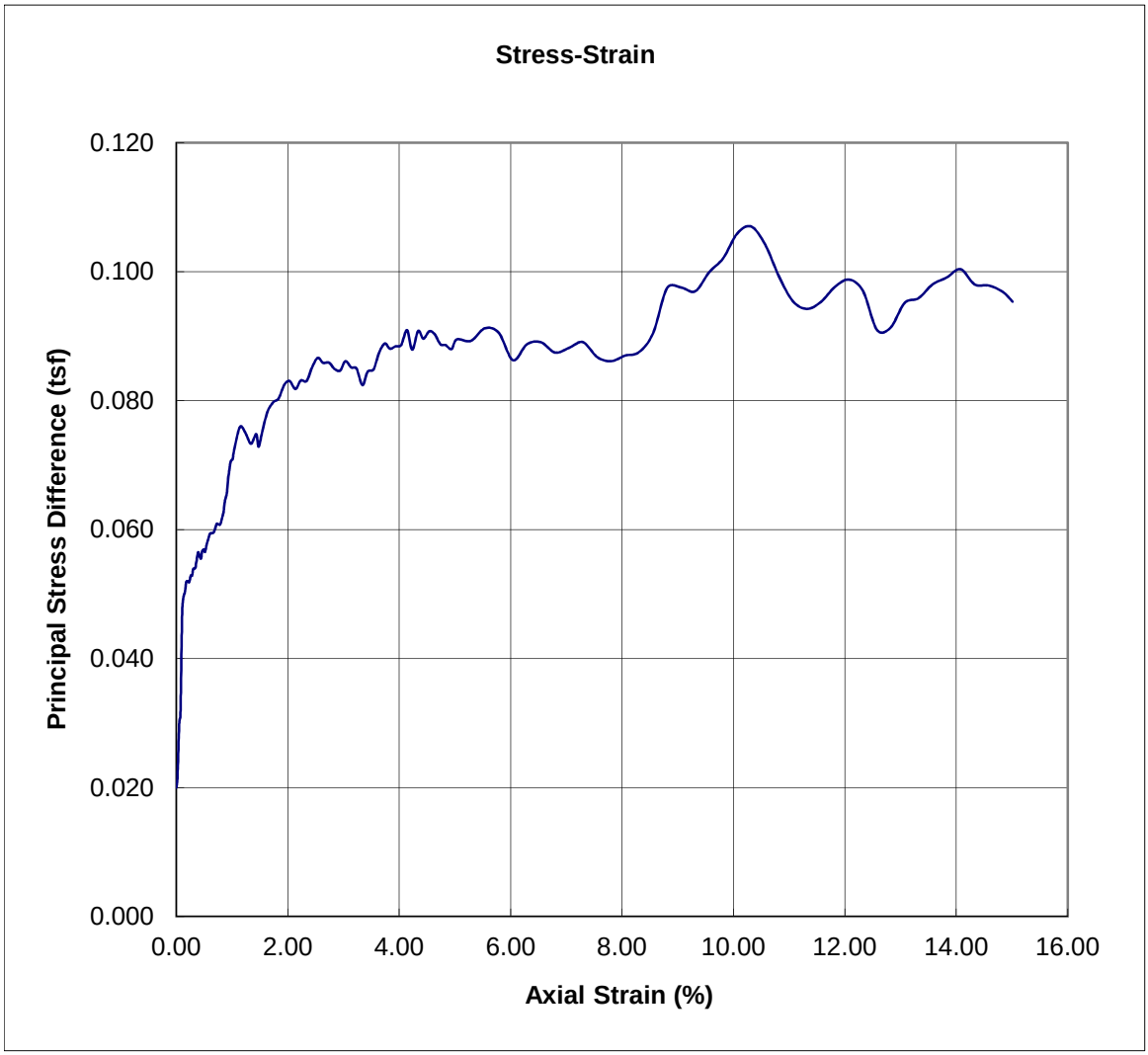
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	2:04:30 PM
Boring:	1-Remold	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.87	**Height (inch):**	5.9
Failure:	Multiple Shear		



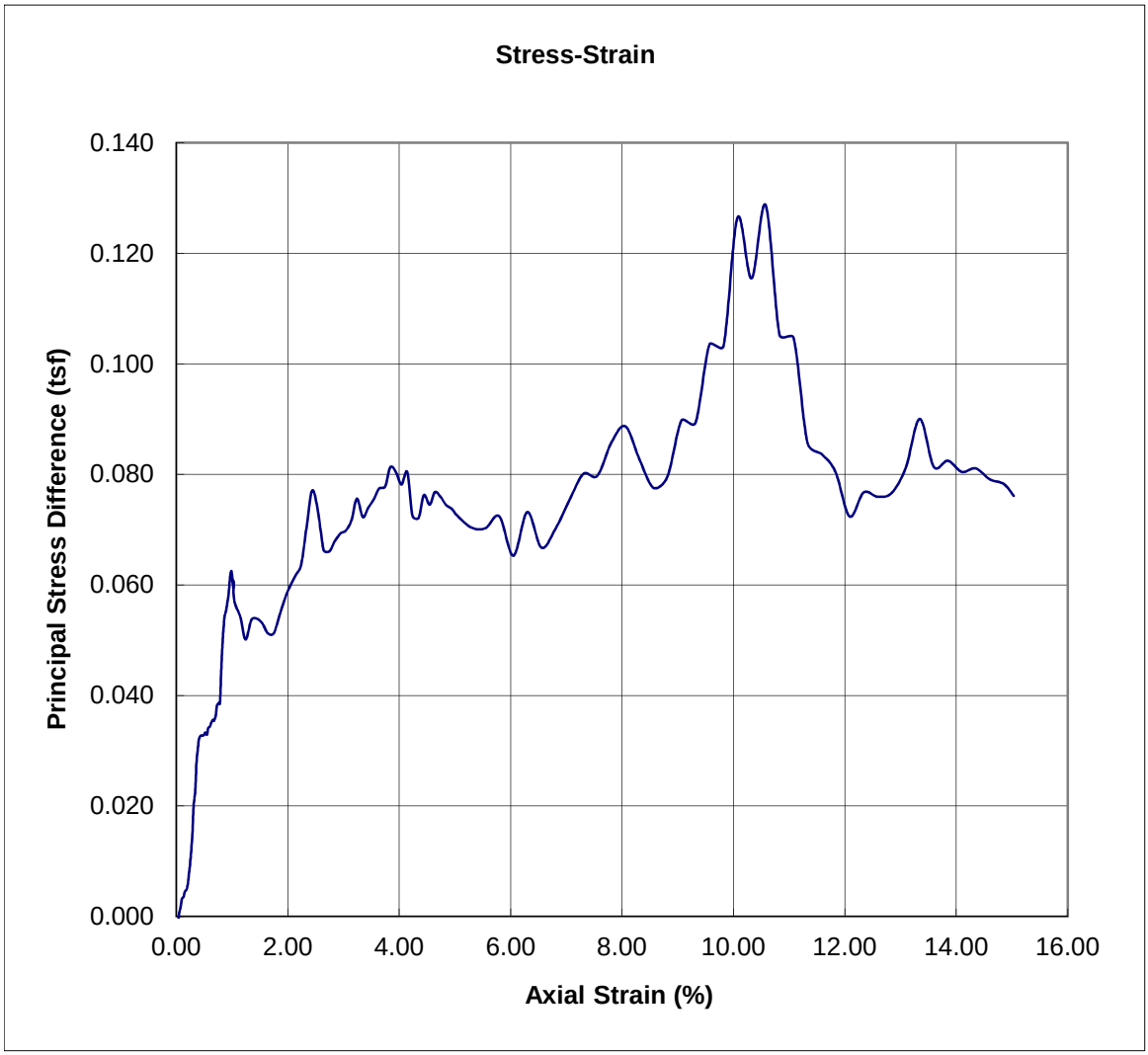
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	9:57:01 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	6
Diameter (inch):	2.73	**Height (inch):**	6
Piston Correction (lbs):	0.106479546		
Failure:	Bulge		



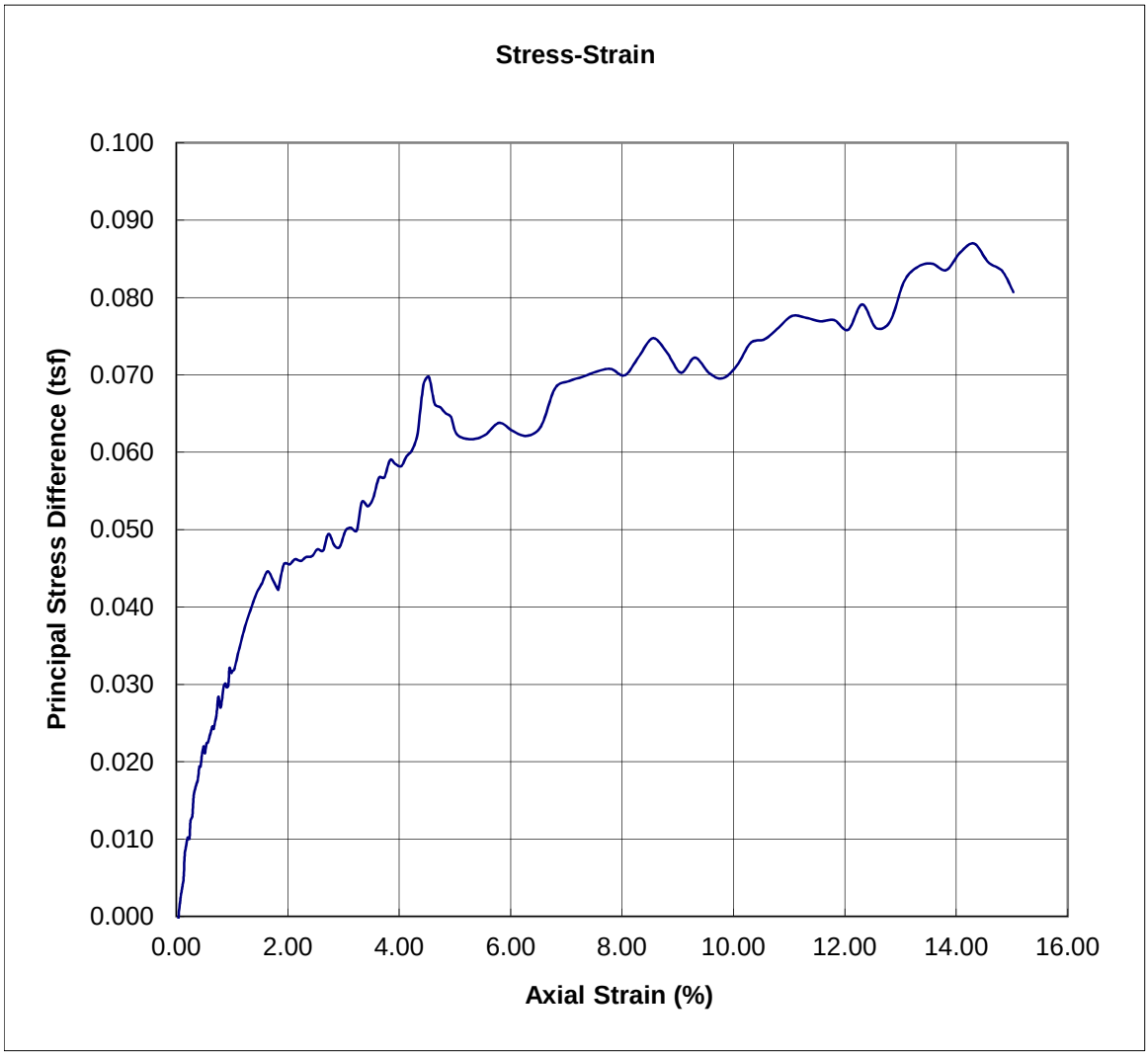
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	10:47:04 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.77	**Height (inch):**	4.96
Piston Correction (lbs):	0.233389307		
Failure:	Bulge		



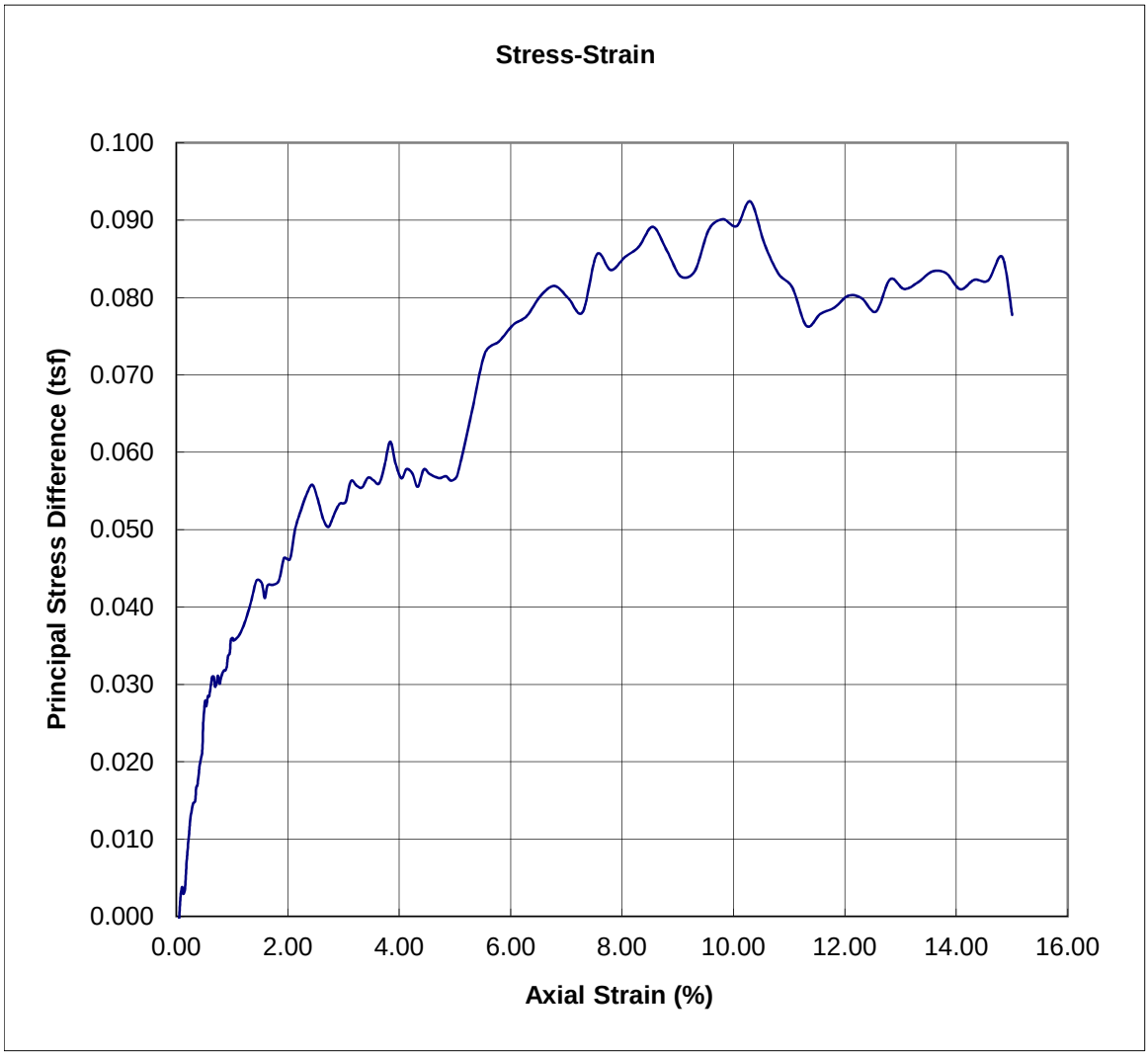
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	4:15:50 PM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	10
Diameter (inch):	2.87	**Height (inch):**	5.5
Piston Correction (lbs):	0.389983441		
Failure:	Bulge		



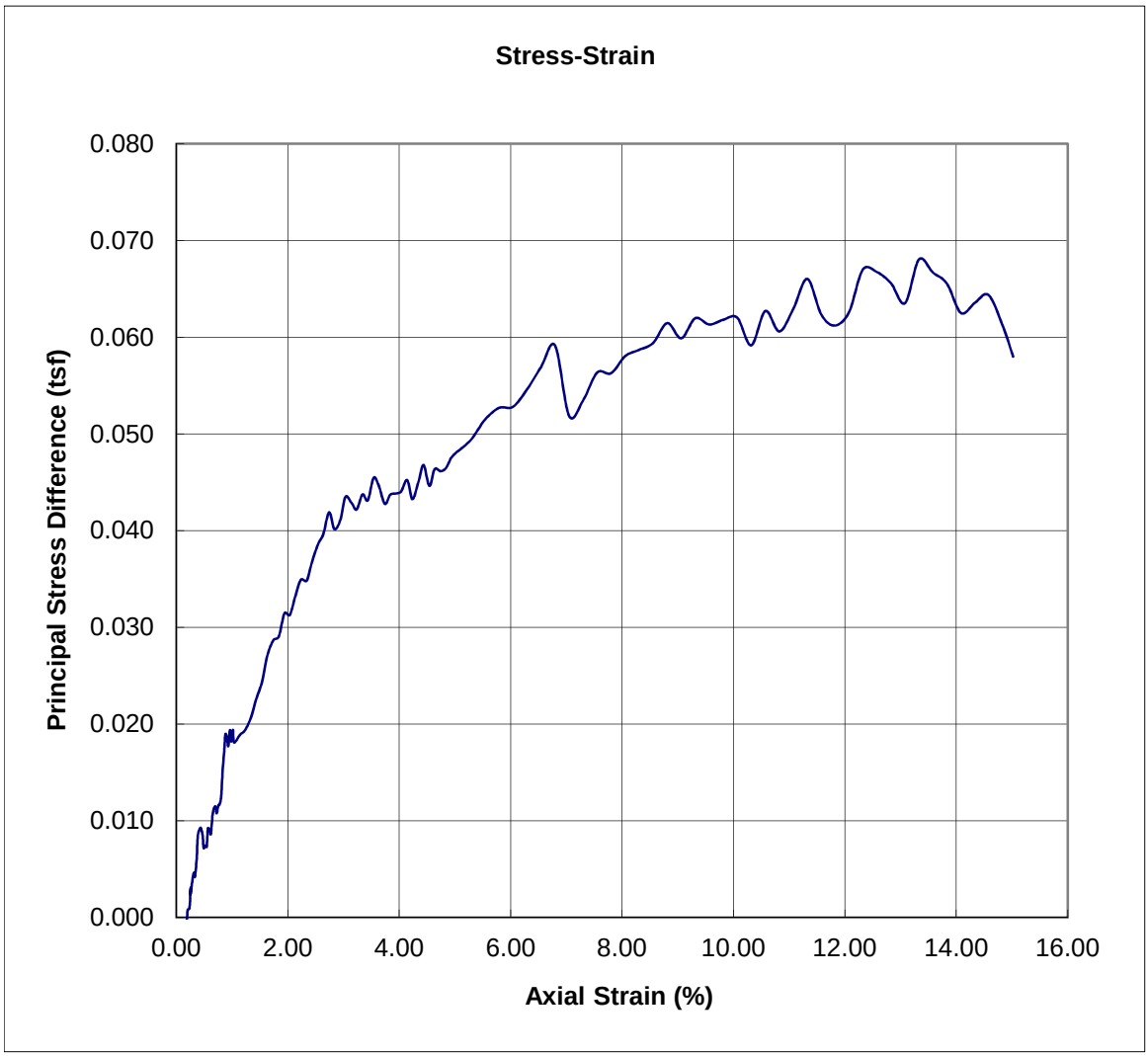
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	8:39:54 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	14
Diameter (inch):	2.78	**Height (inch):**	5.92
Piston Correction	0.698255321		
Failure:	Bulge		



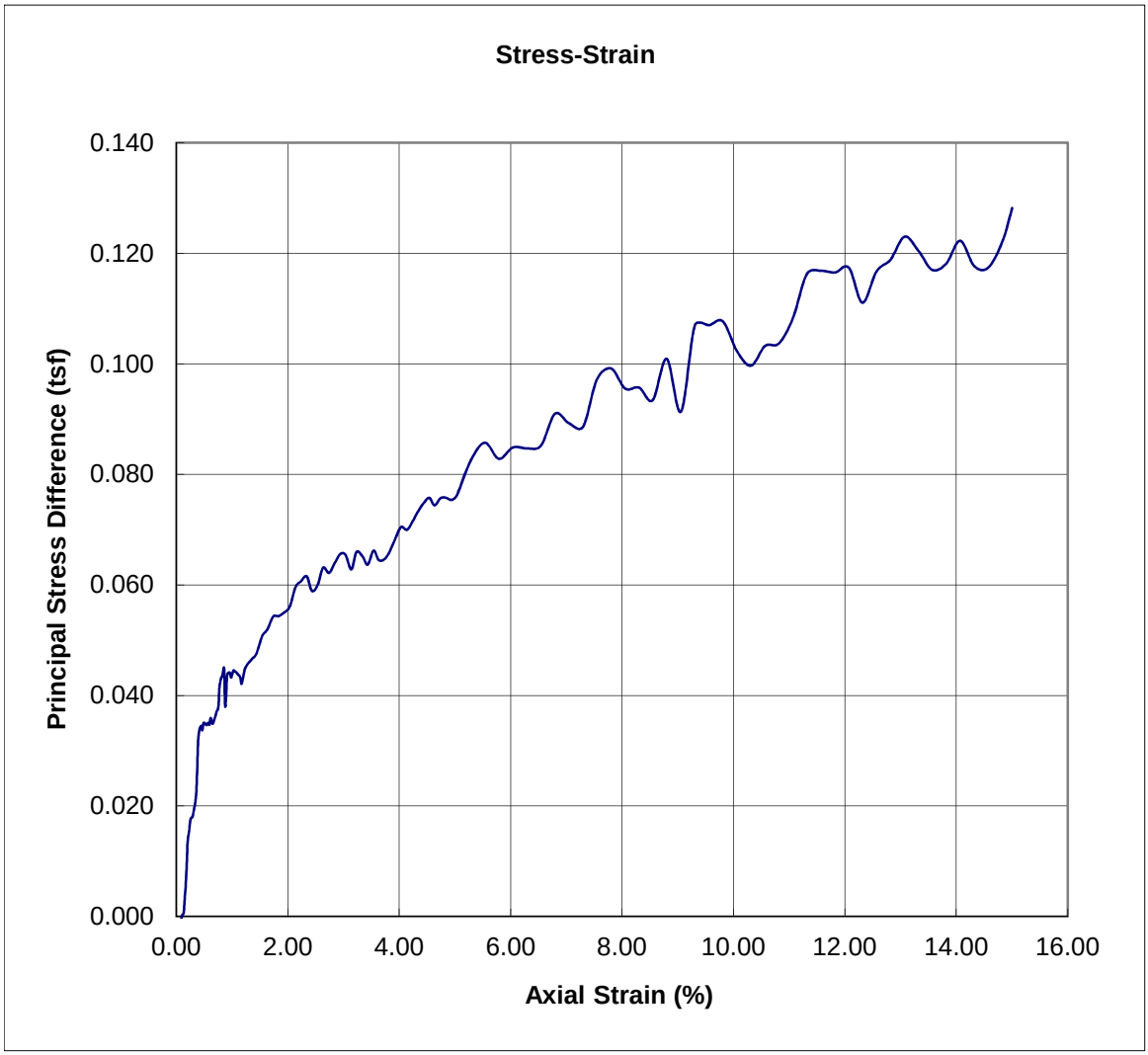
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	9:18:20 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.86	**Height (inch):**	5.61
Piston Correction (lbs):	0.871505634		
Failure:	Bulge		



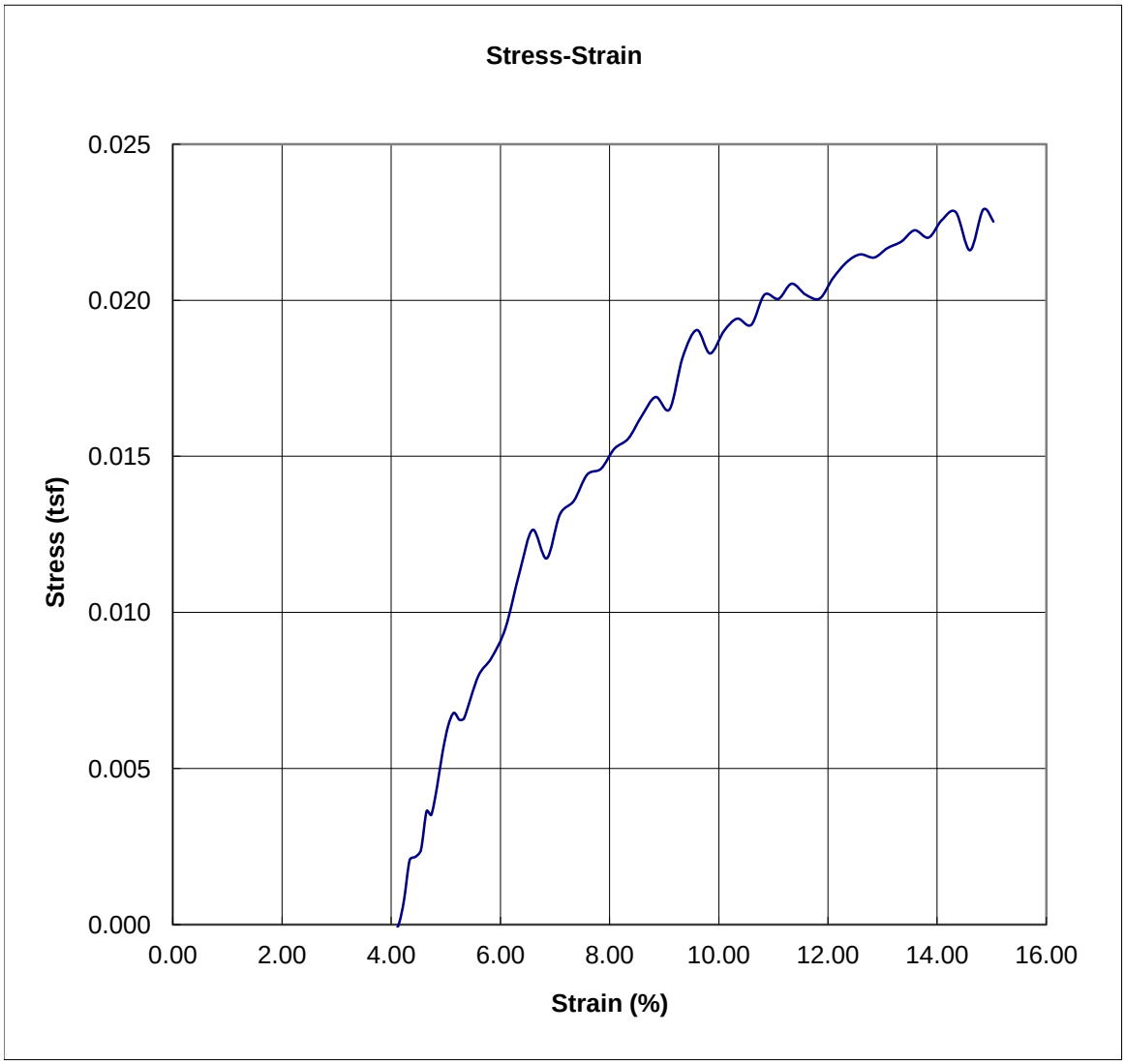
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	9:57:49 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.7	**Height (inch):**	5.42
Piston Correction (lbs):	1.333785544		
Failure:	Bulge		



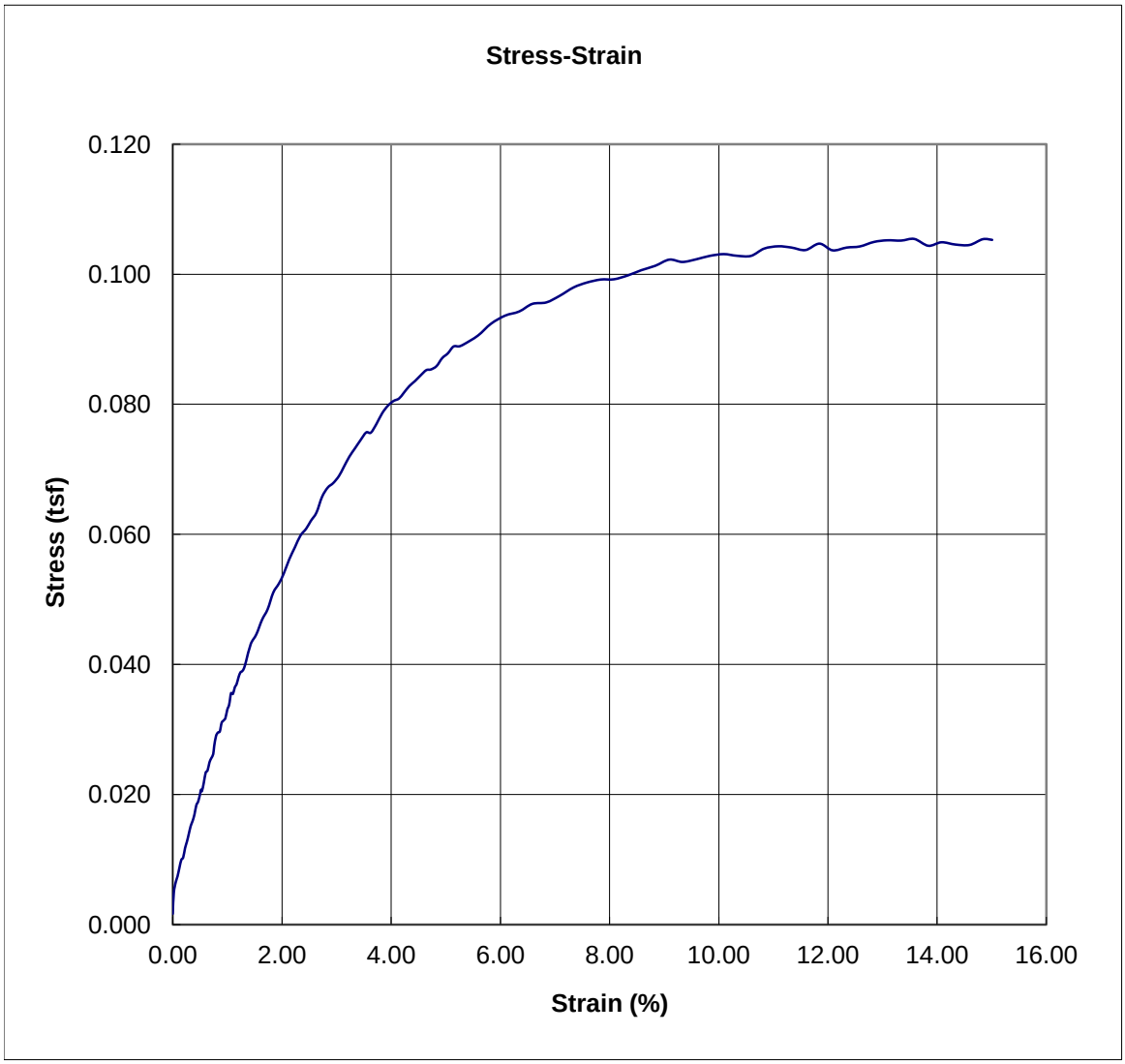
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	10:37:26 AM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.85	**Height (inch):**	5.77
Piston Correction (lbs):	1.498435669		
Failure:	Yield		



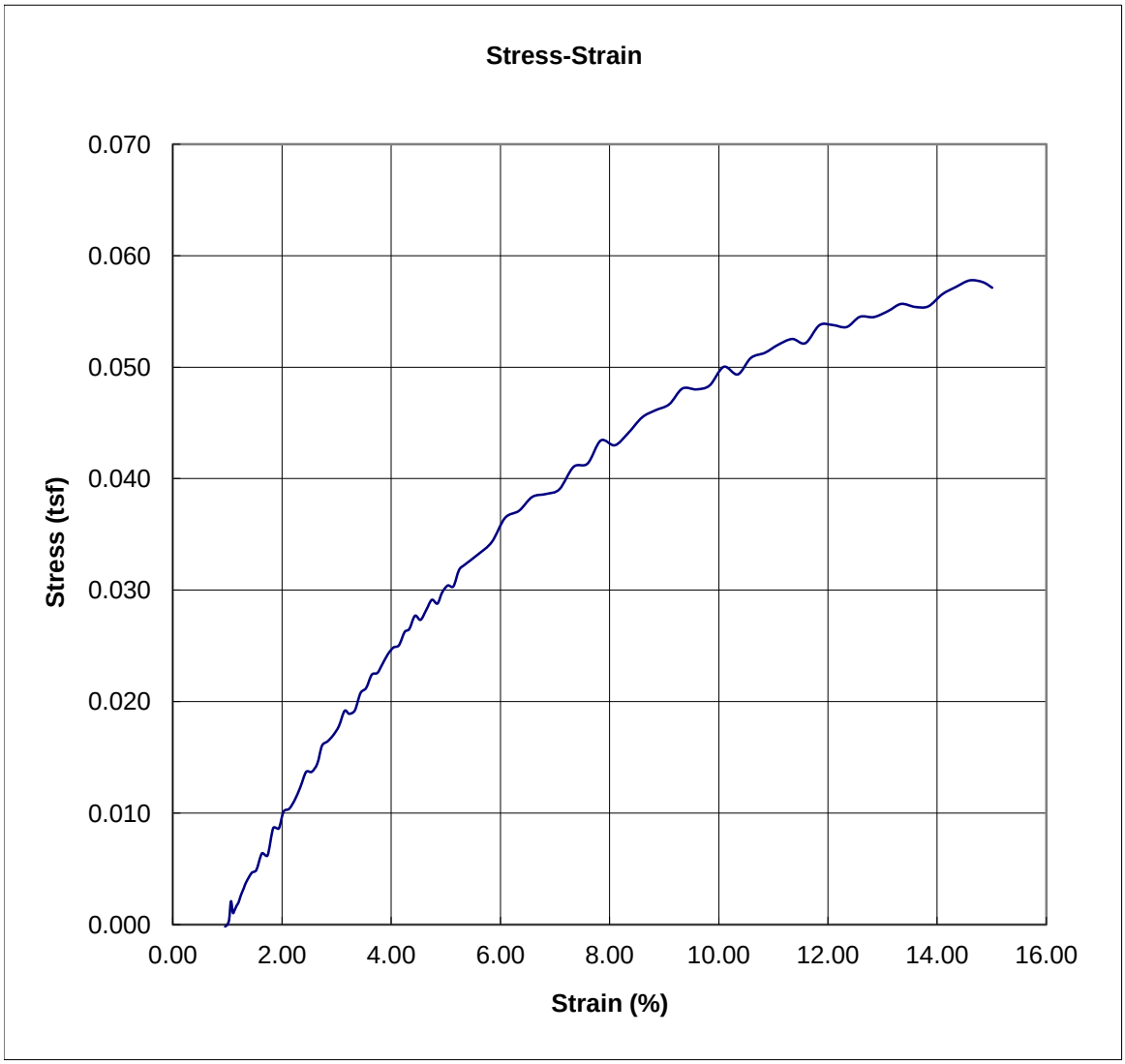
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	2:19:01 PM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.81	**Height (inch):**	5.6
Failure:	Yield		



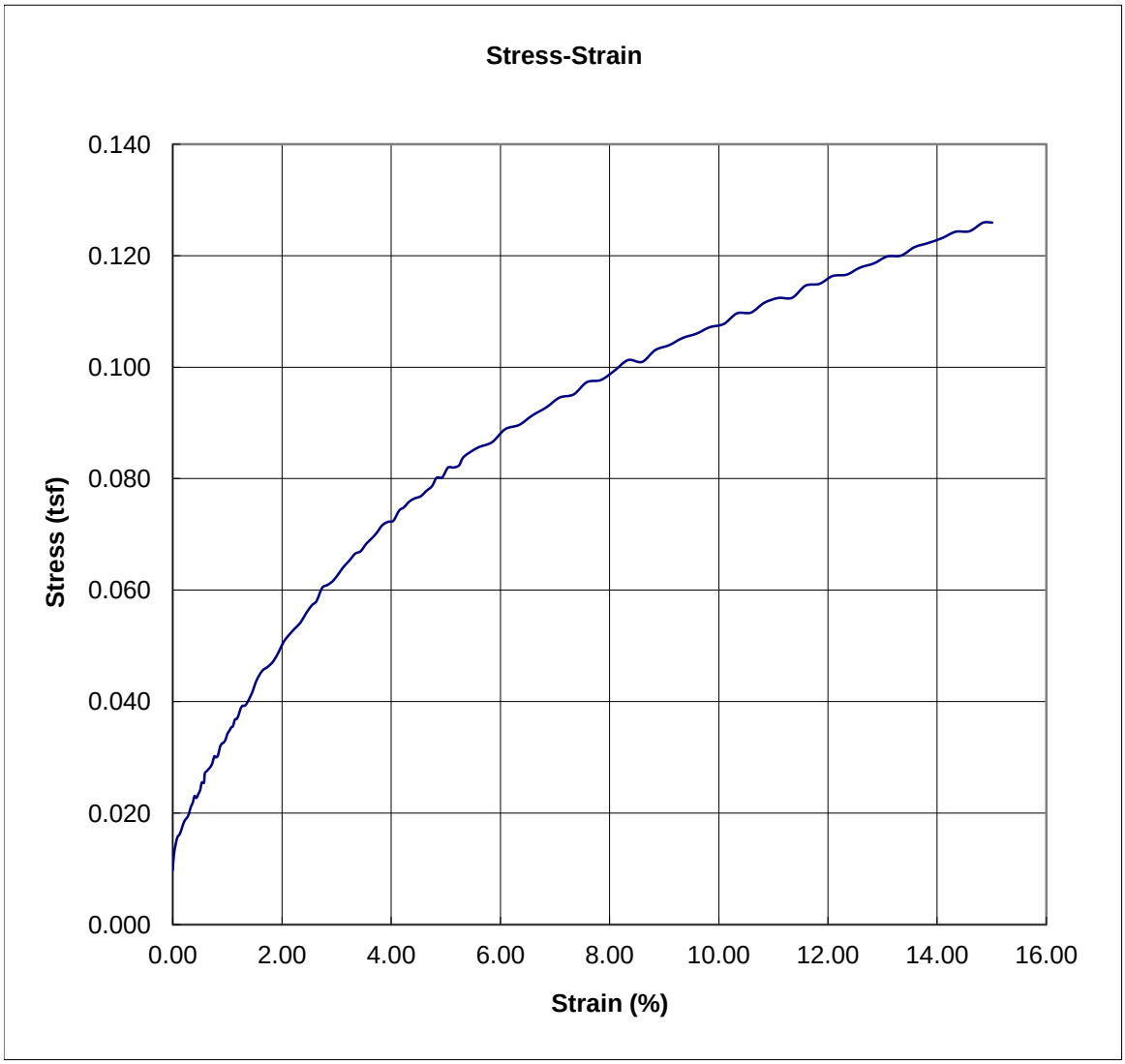
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/16/2011	**Time:**	2:38:23 PM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.8	**Height (inch):**	6
Failure:	Multiple Shear		



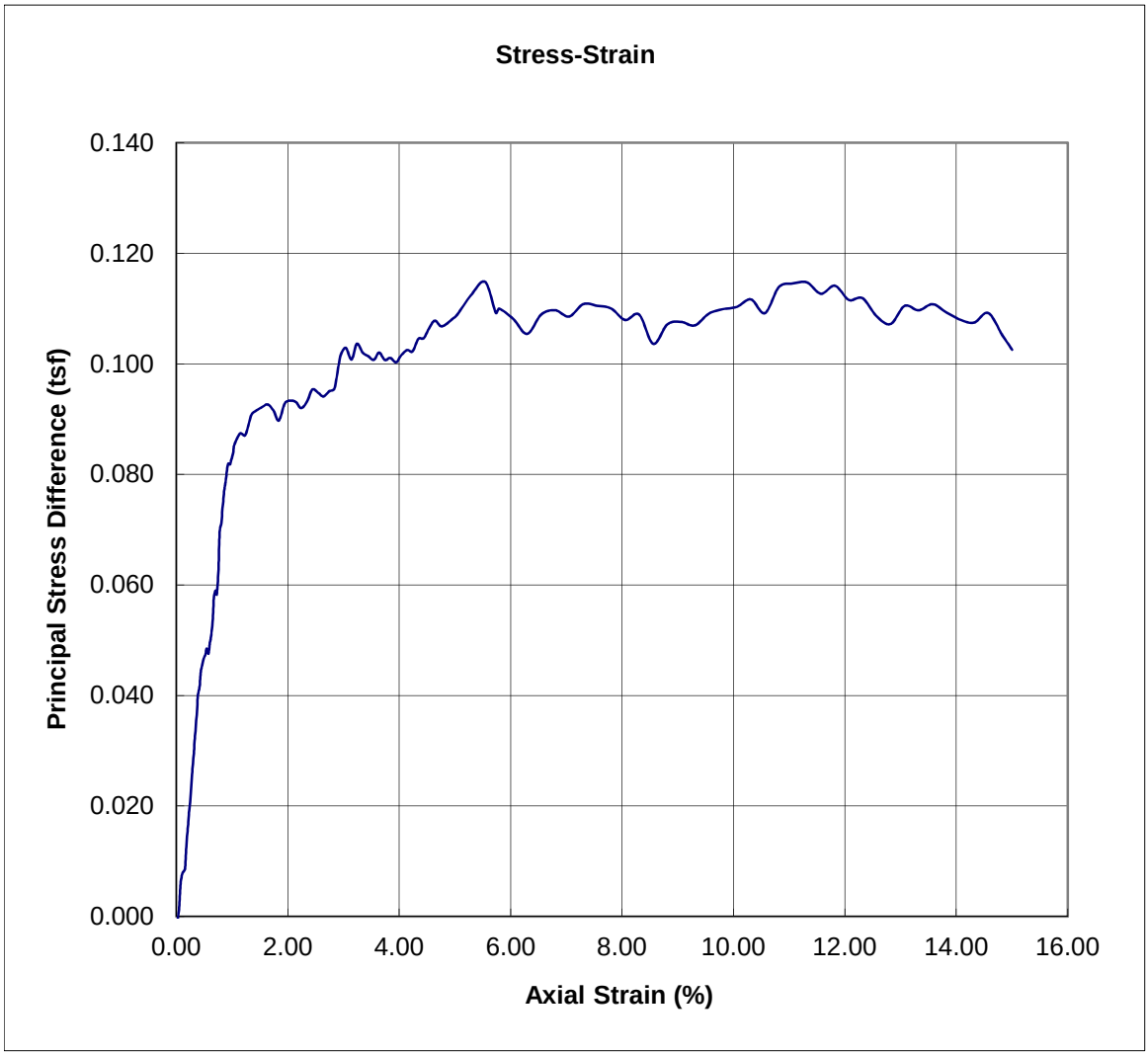
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	2:58:24 PM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.87	**Height (inch):**	5.85
Failure:	Yield		



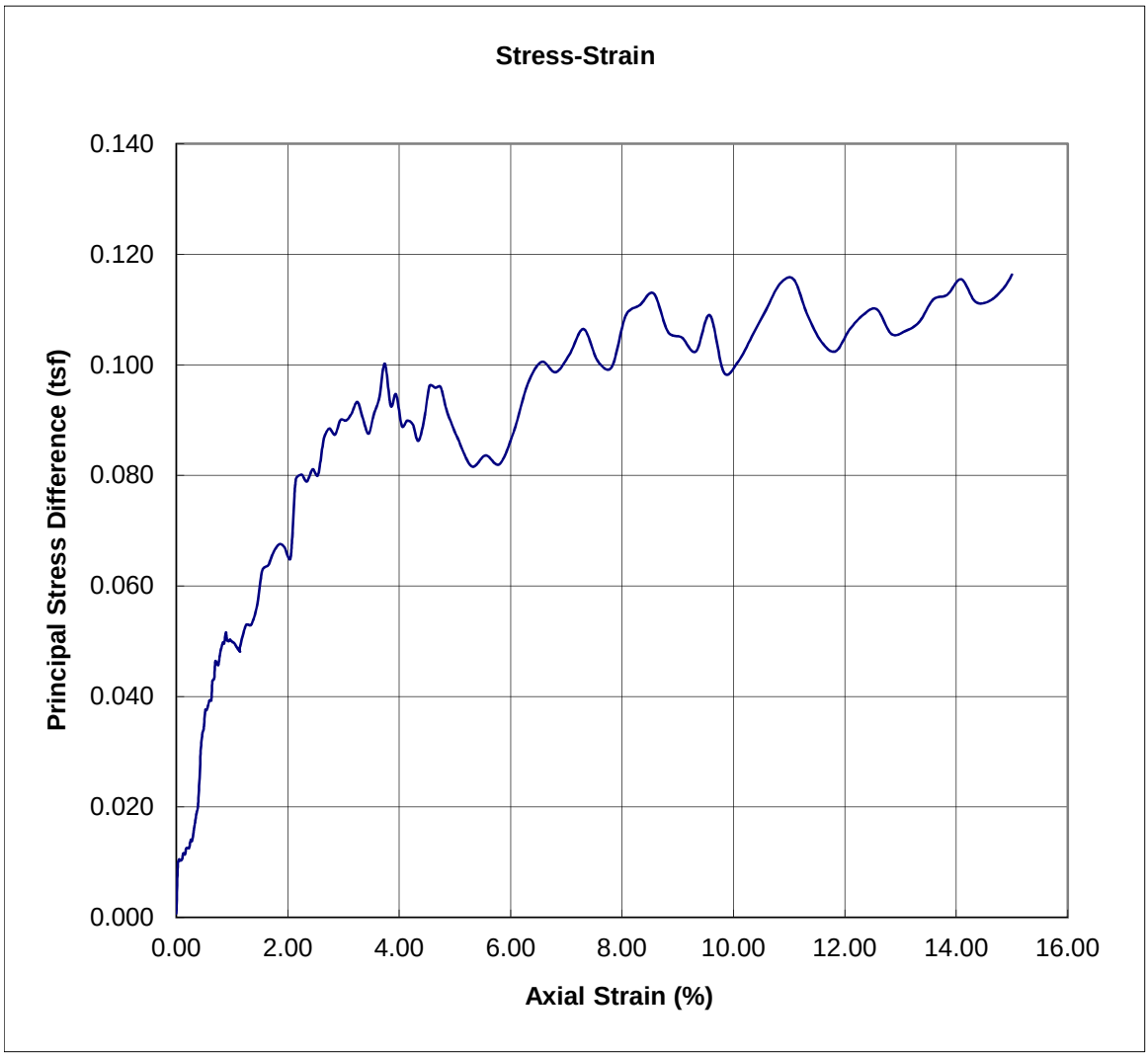
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/16/2011	**Time:**	3:23:20 PM
Boring:	2	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.86	**Height (inch):**	5.5
Failure:	Yield		



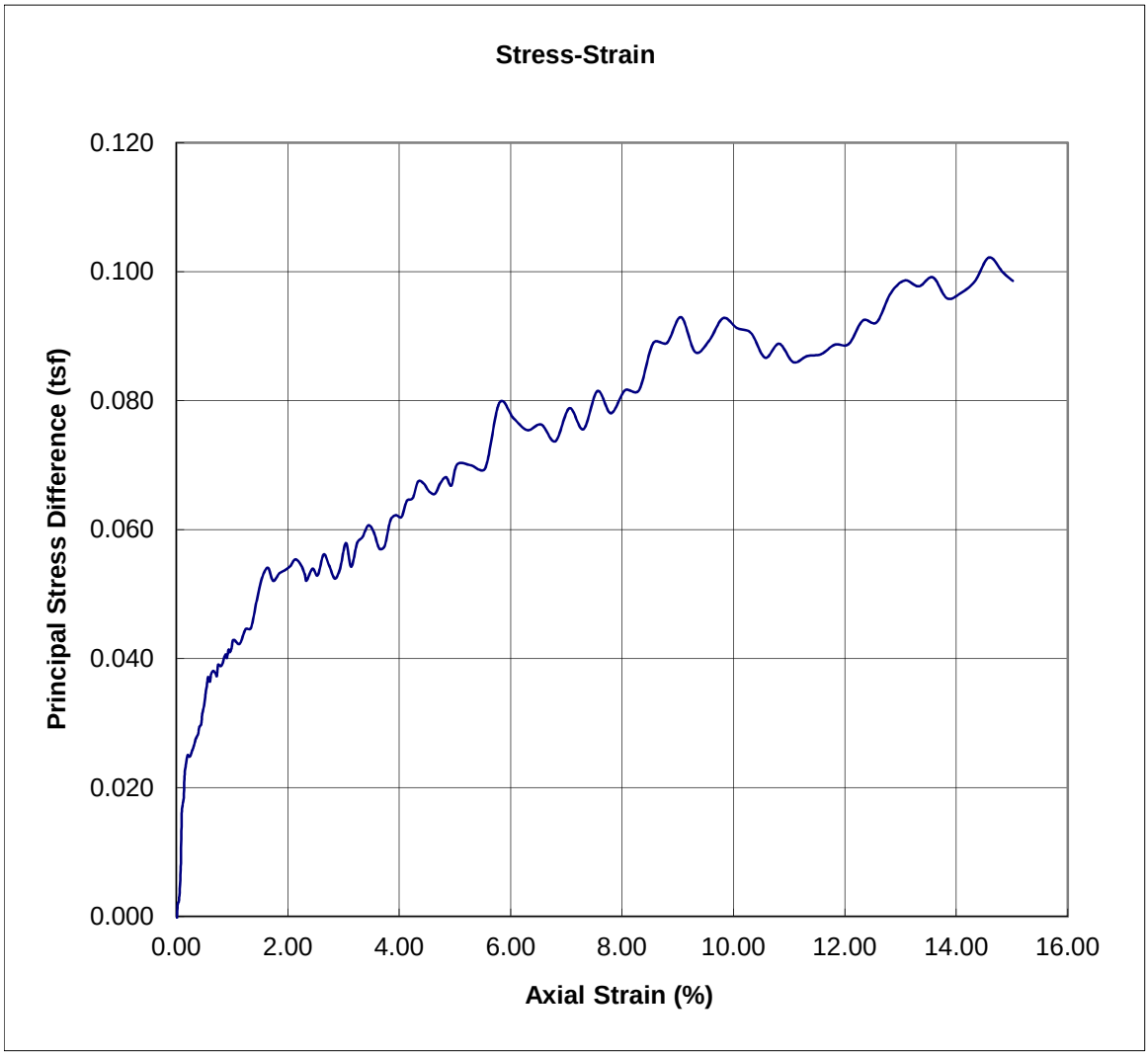
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	11:17:22 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	6
Diameter (inch):	2.75	**Height (inch):**	5.21
Piston Correction (lbs):	0.110749407		
Failure:	Bulge		



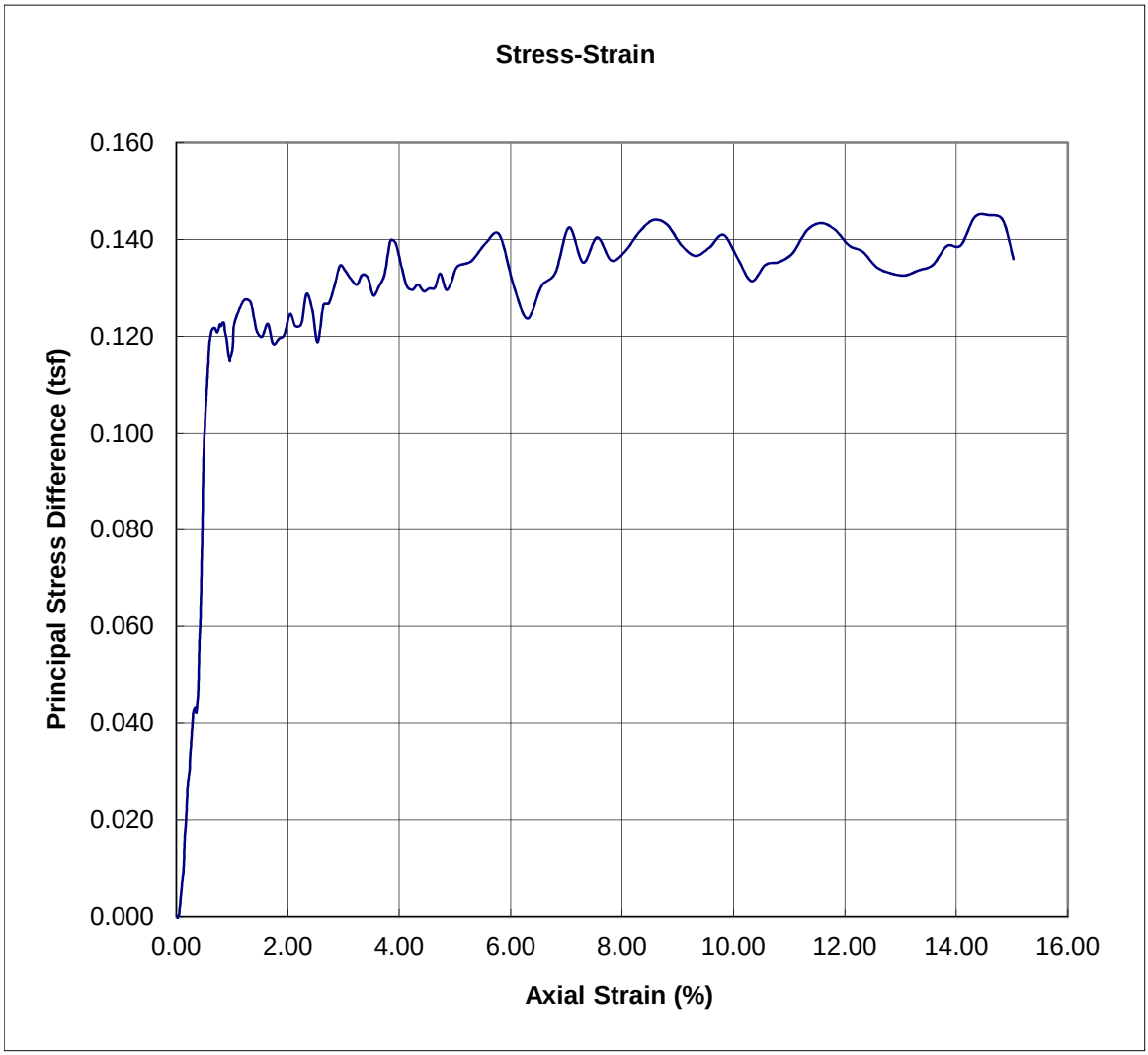
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	11:56:00 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.73	**Height (inch):**	5.24
Piston Correction (lbs):	0.228026399		
Failure:	Yield		



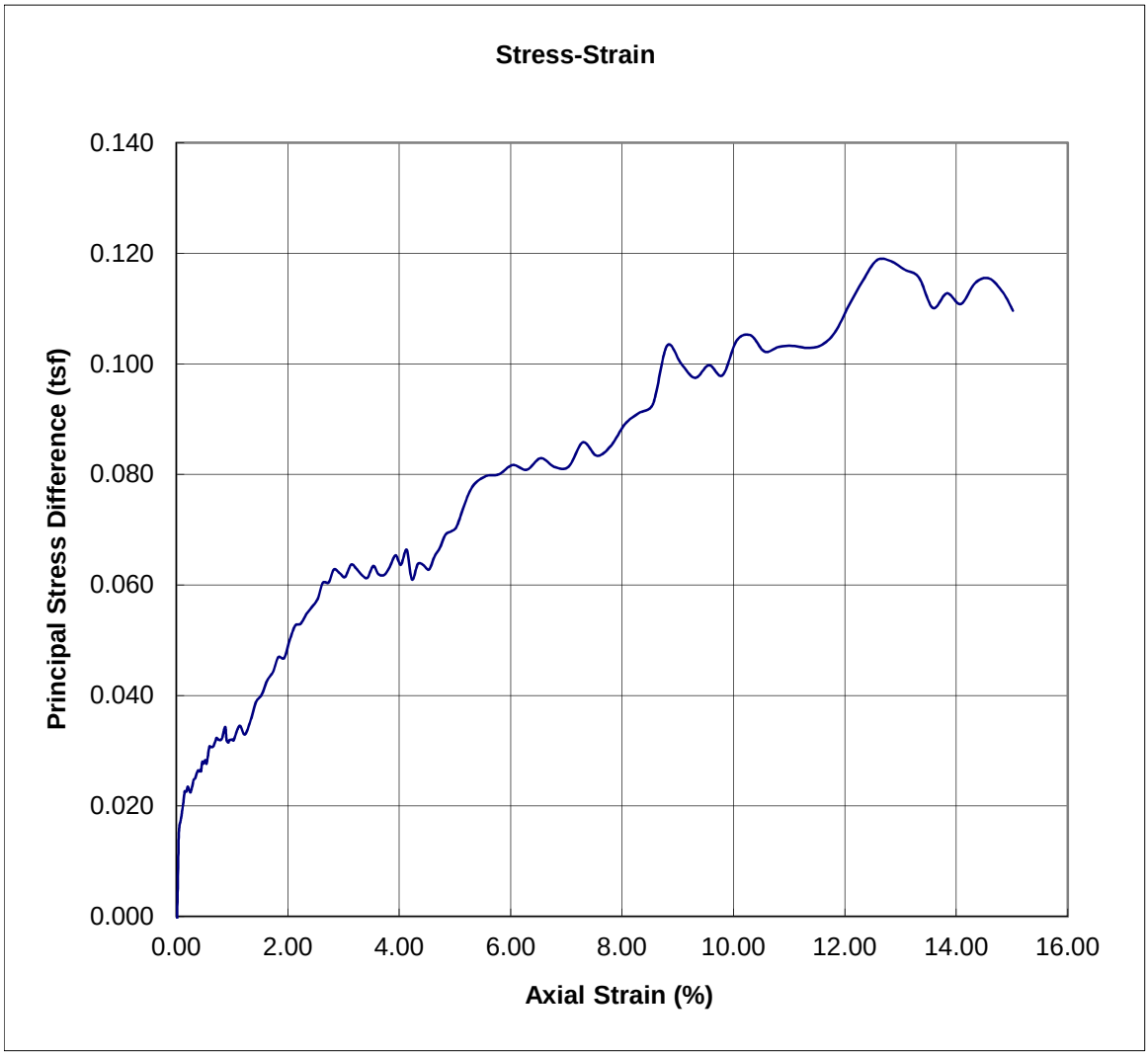
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	1:29:22 PM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	10
Diameter (inch):	2.81	**Height (inch):**	5.1
Piston Correction (lbs):	0.391625337		
Failure:	Yield		



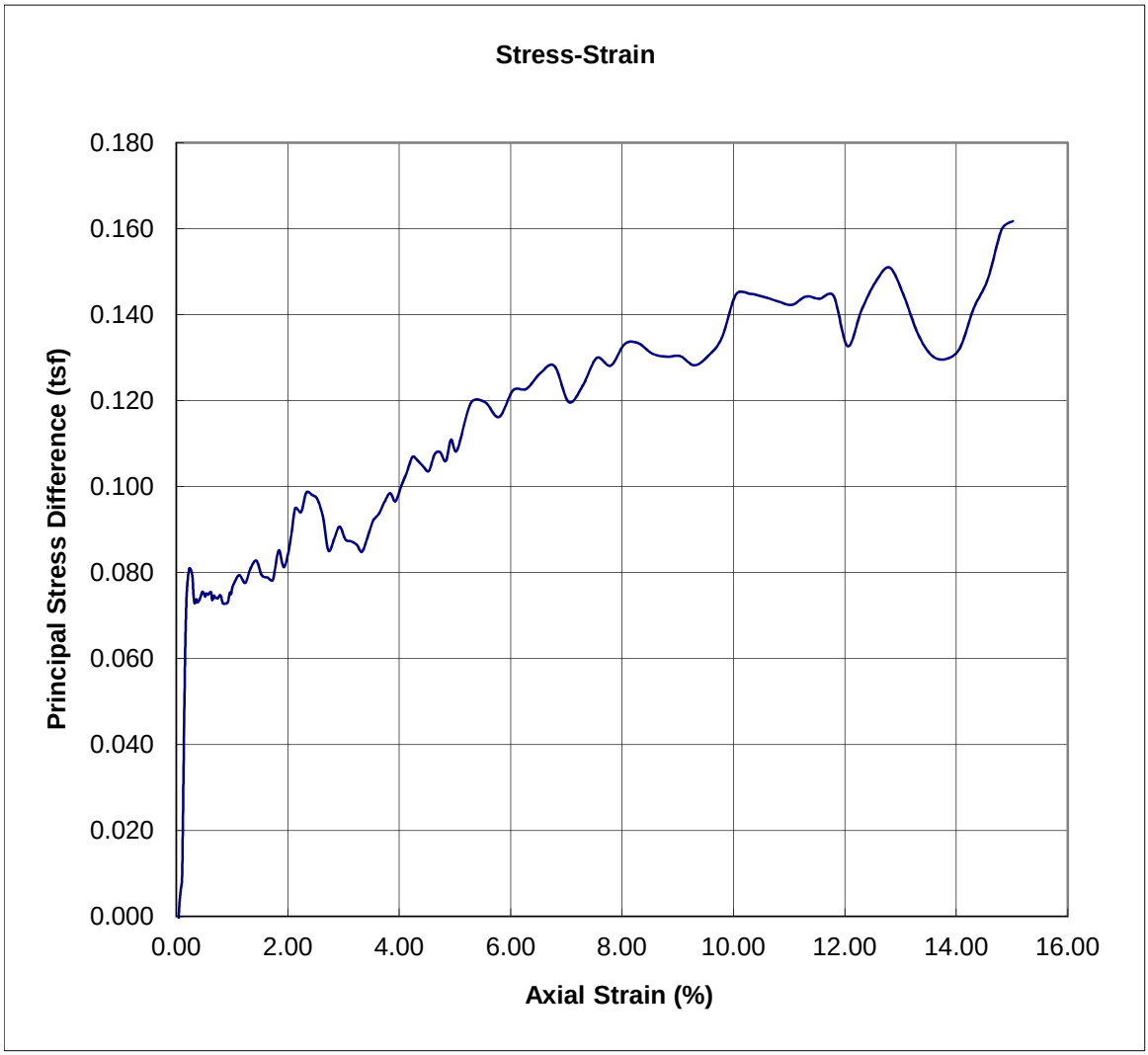
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	2:10:56 PM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	12
Diameter (inch):	2.84	**Height (inch):**	5.11
Piston Correction (lbs):	0.553656799		
Failure:	Yield		



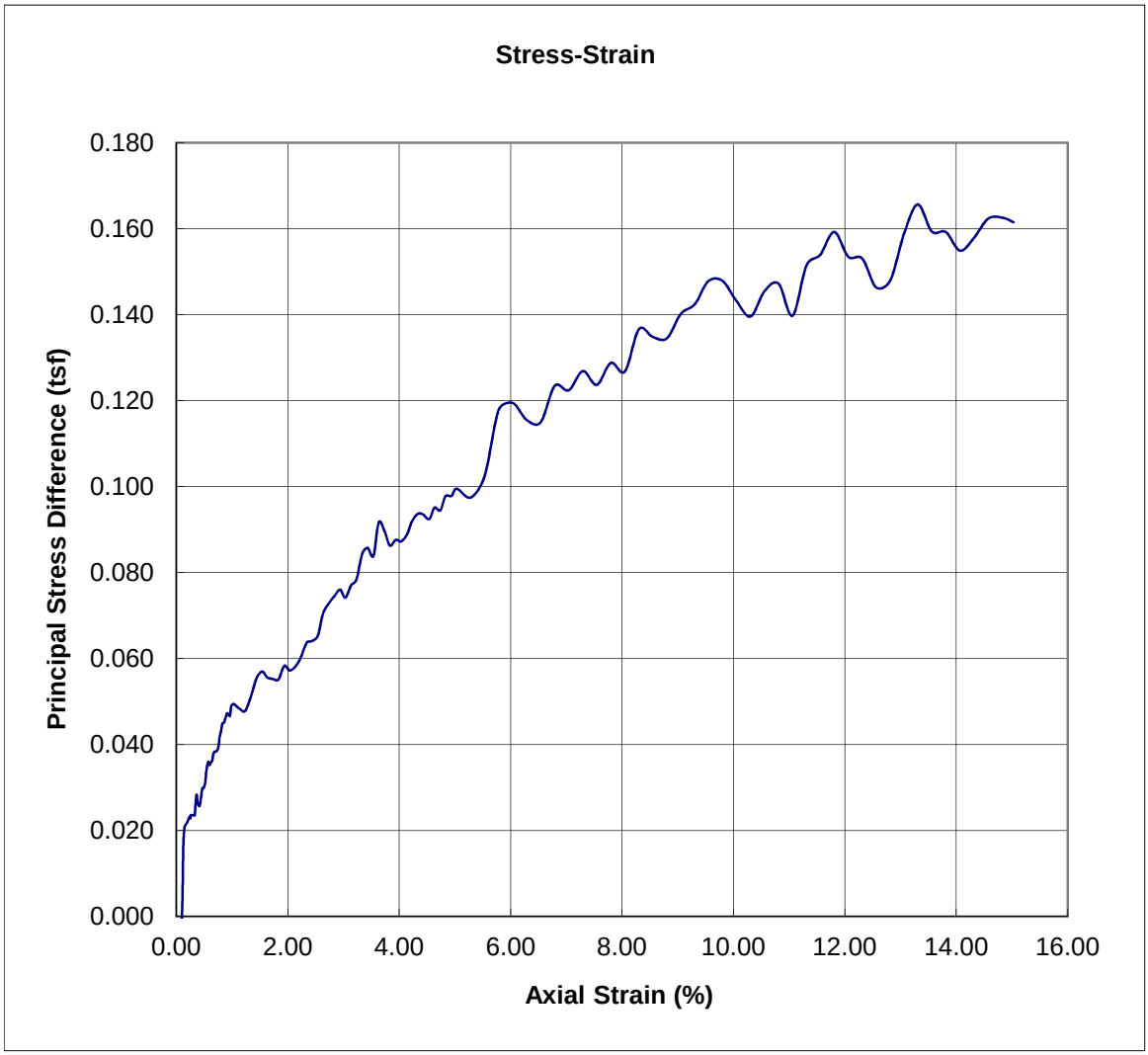
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	2:51:05 PM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	14
Diameter (inch):	2.83	**Height (inch):**	6
Piston Correction (lbs):	0.709655571		
Failure:	Bulge		



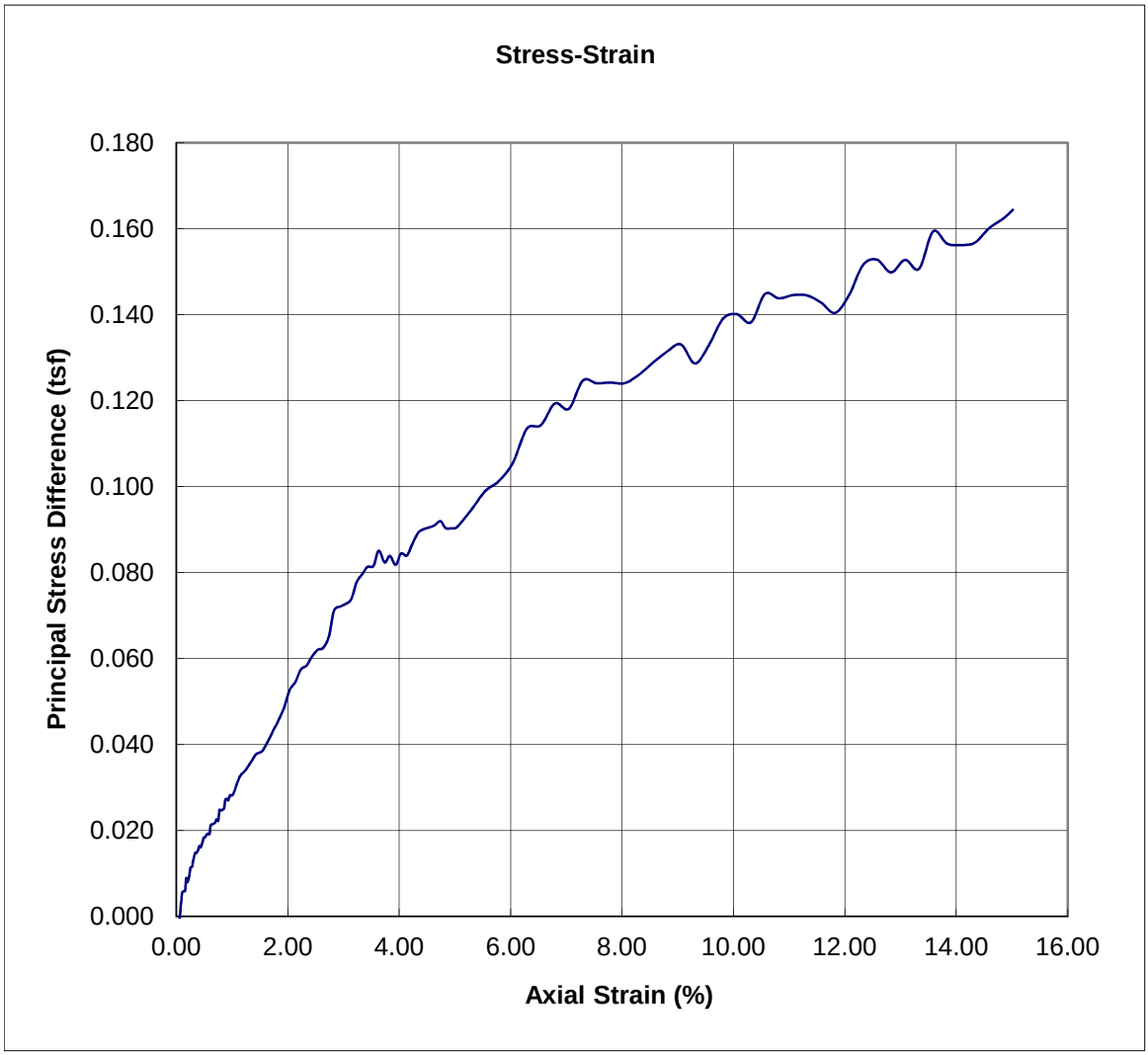
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	3:30:54 PM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.81	**Height (inch):**	5.68
Piston Correction (lbs):	0.860505392		
Failure:	Yield		



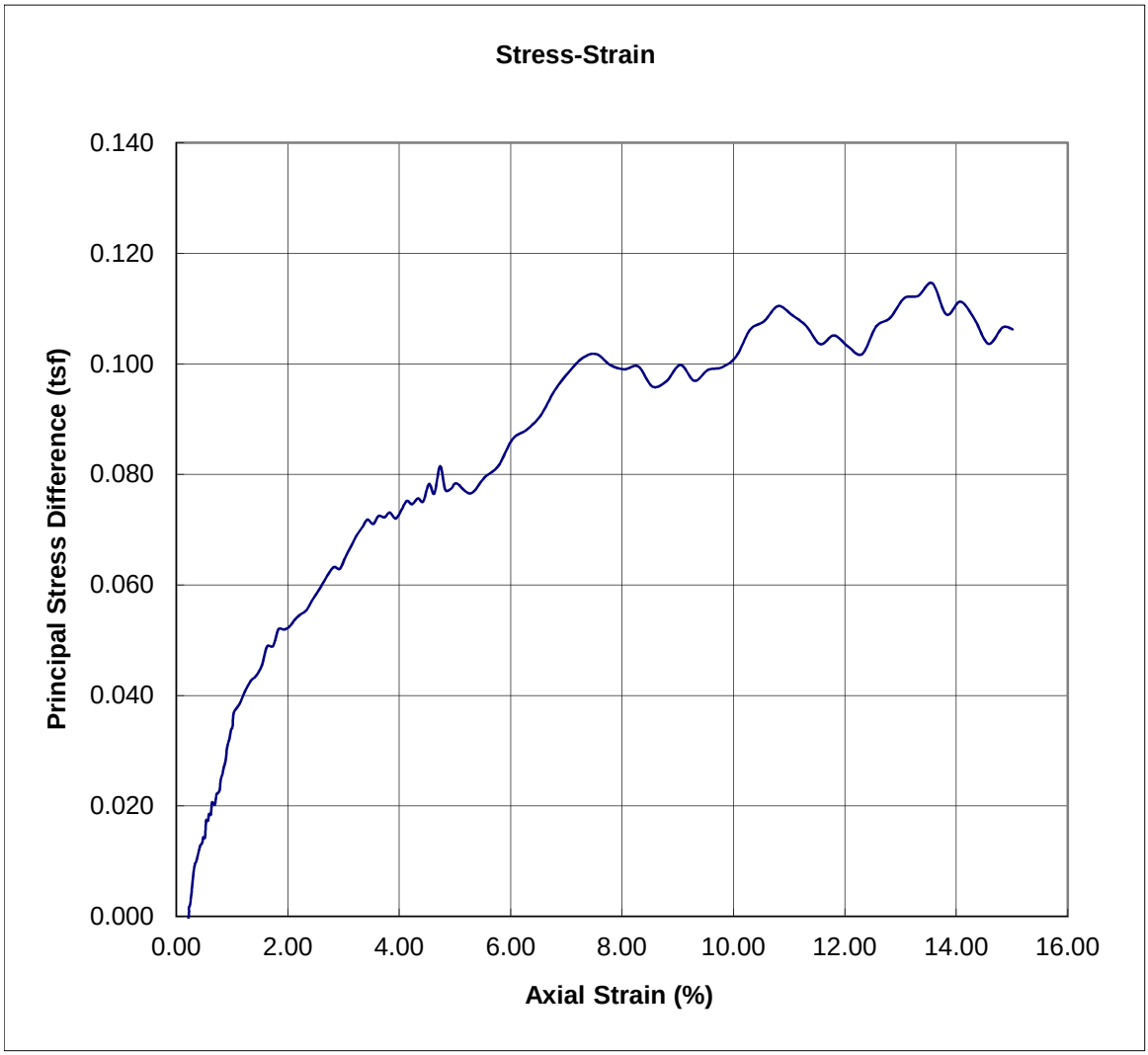
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/19/2011	**Time:**	4:06:36 PM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.8	**Height (inch):**	6
Piston Correction (lbs):	1.020146105		
Failure:	Bulge		



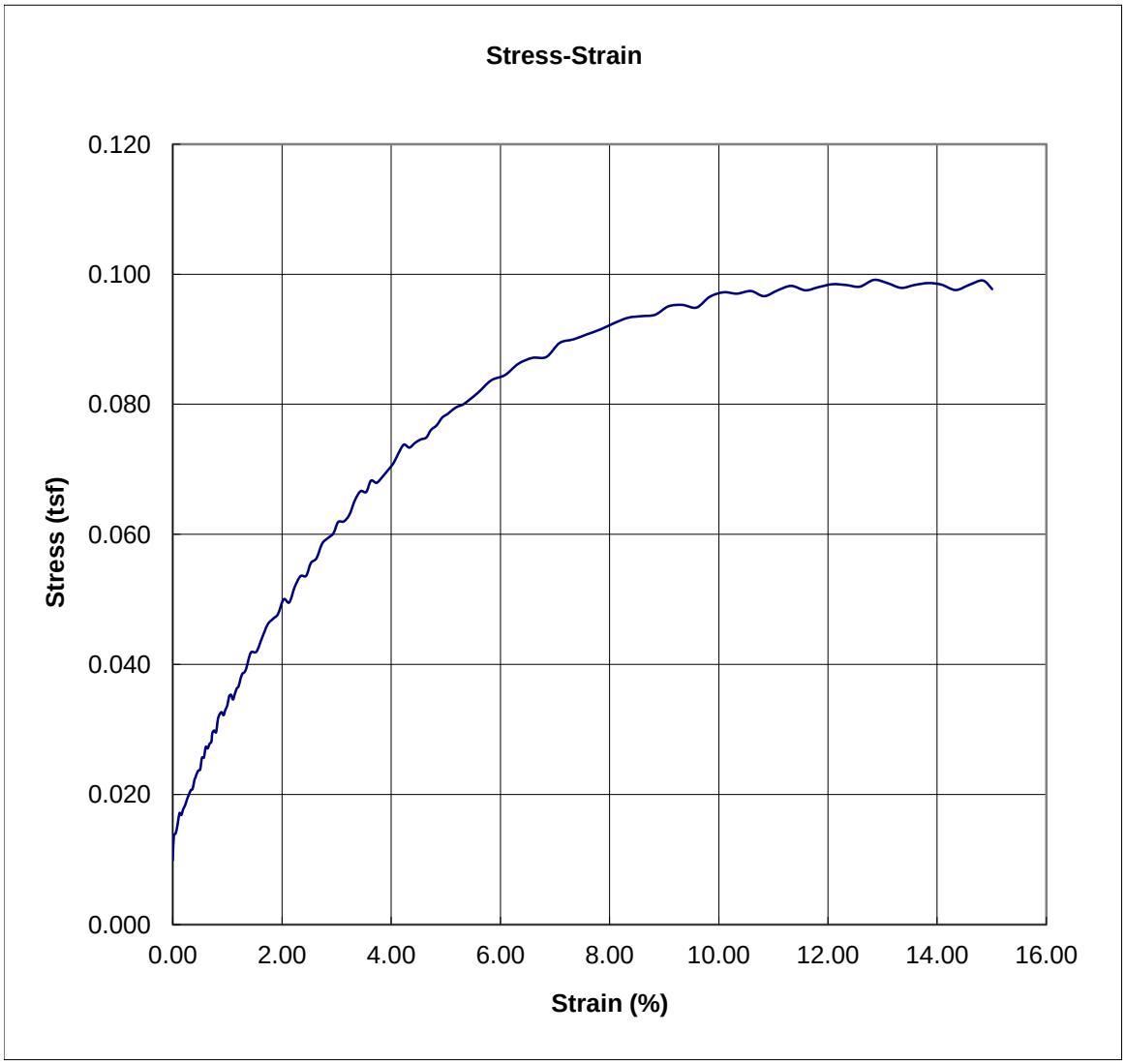
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	8:25:44 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.78	**Height (inch):**	5.71
Piston Correction (lbs):	1.182786882		
Failure:	Yield		



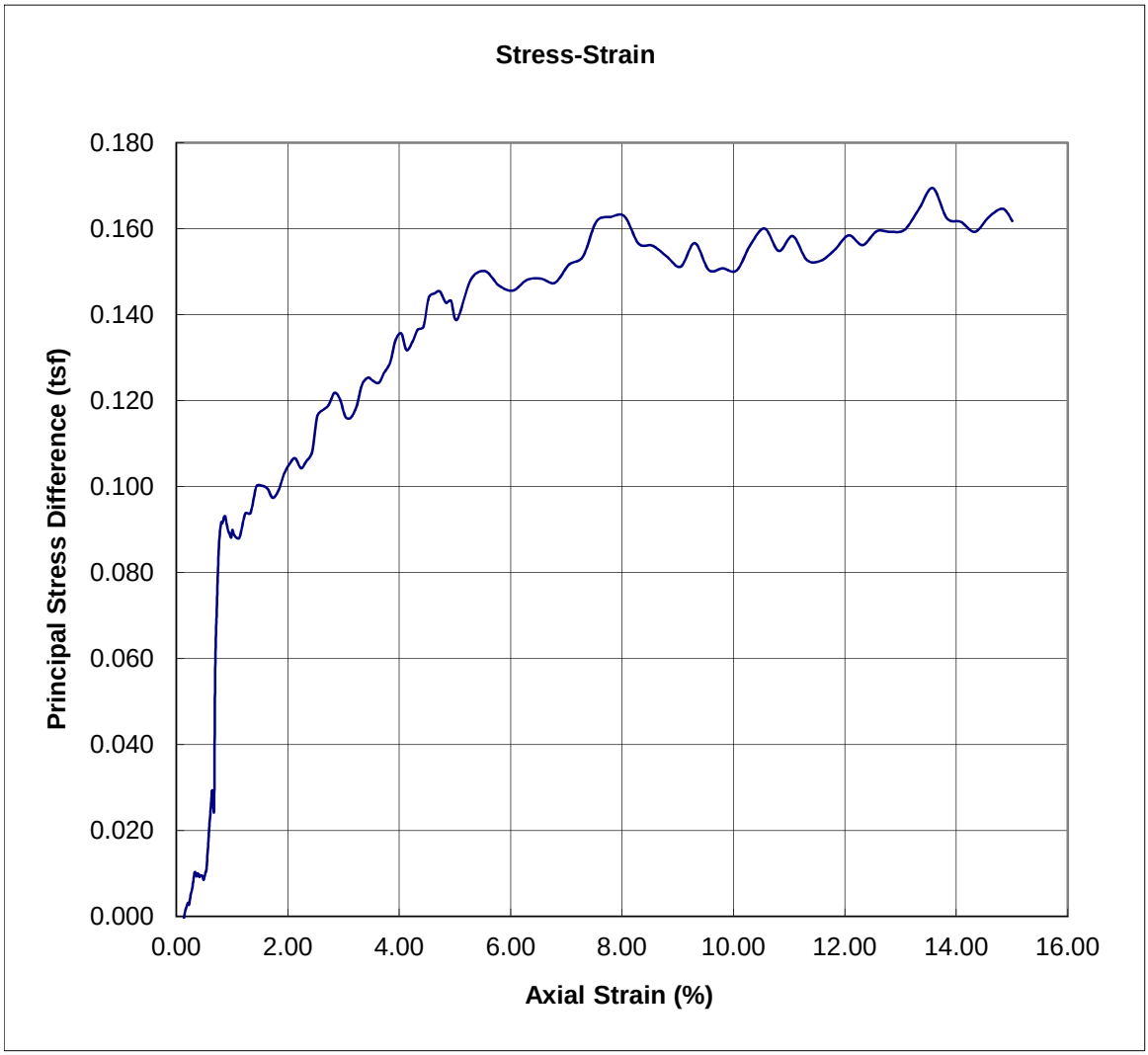
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	9:10:01 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.87	**Height (inch):**	5.99
Piston Correction (lbs):	1.330231978		
Failure:	Bulge		



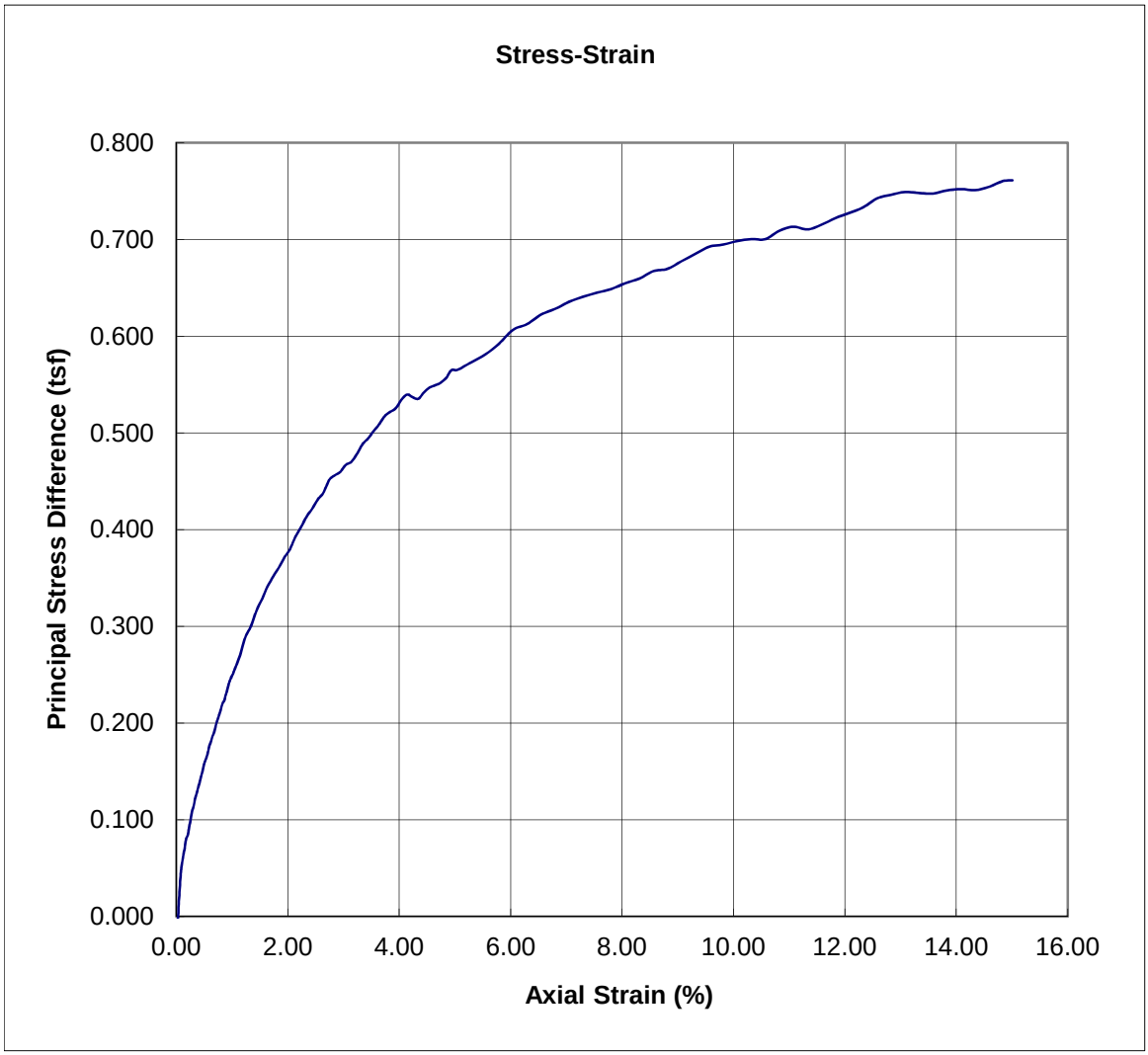
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	9:01:27 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.87	**Height (inch):**	6.01
Failure:	Multiple Shear		



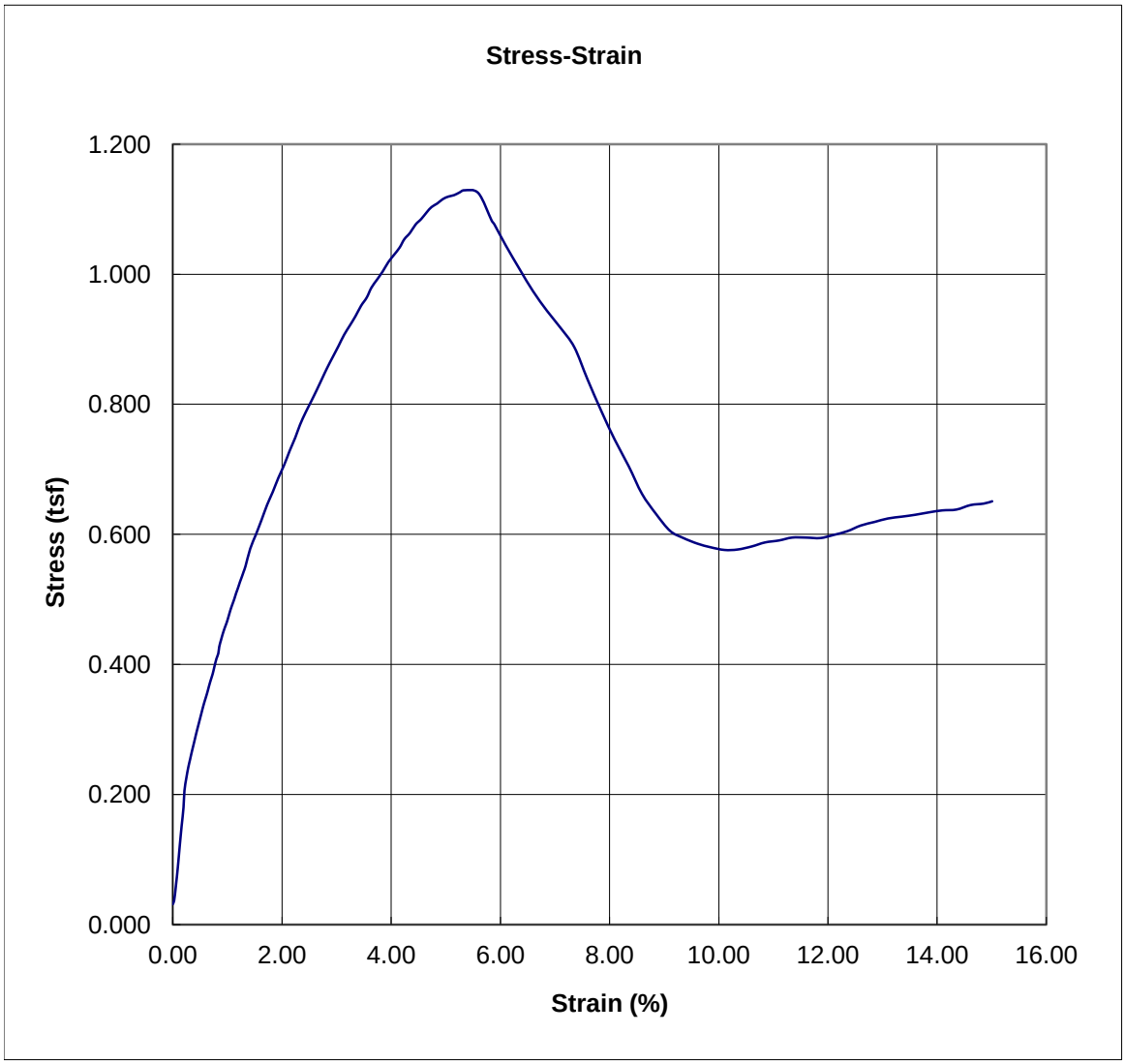
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	9:56:02 AM
Boring:	3	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.79	**Height (inch):**	5.7
Piston Correction (lbs):	1.879230071		
Failure:	Bulge		



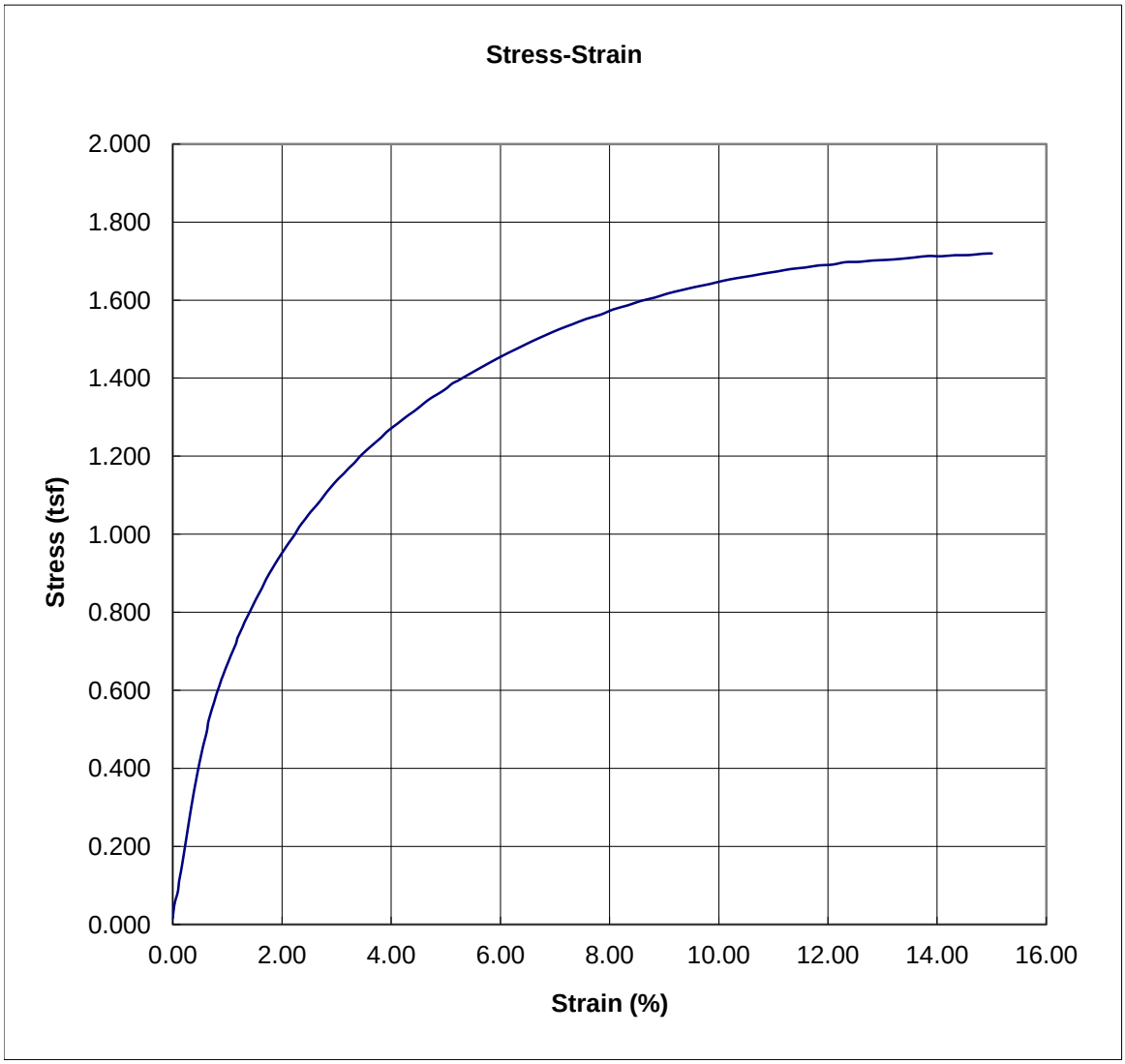
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	10:53:22 AM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	14
Diameter (inch):	2.83	**Height (inch):**	5.9
Piston Correction (lbs):	0.712585868		
Failure:	Yield		



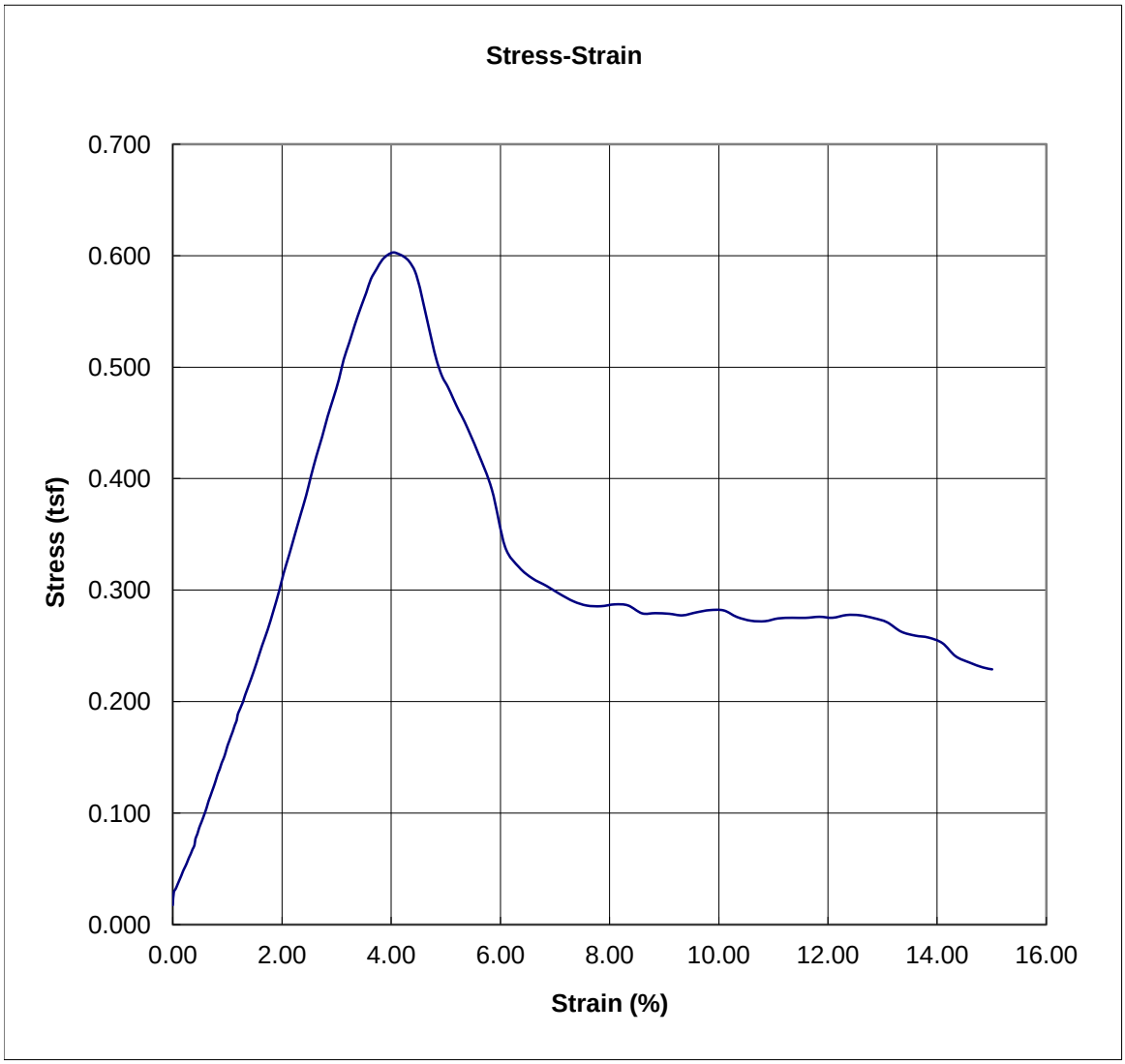
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	11:04:07 AM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.87	**Height (inch):**	5.9
Failure:	Multiple Shear		



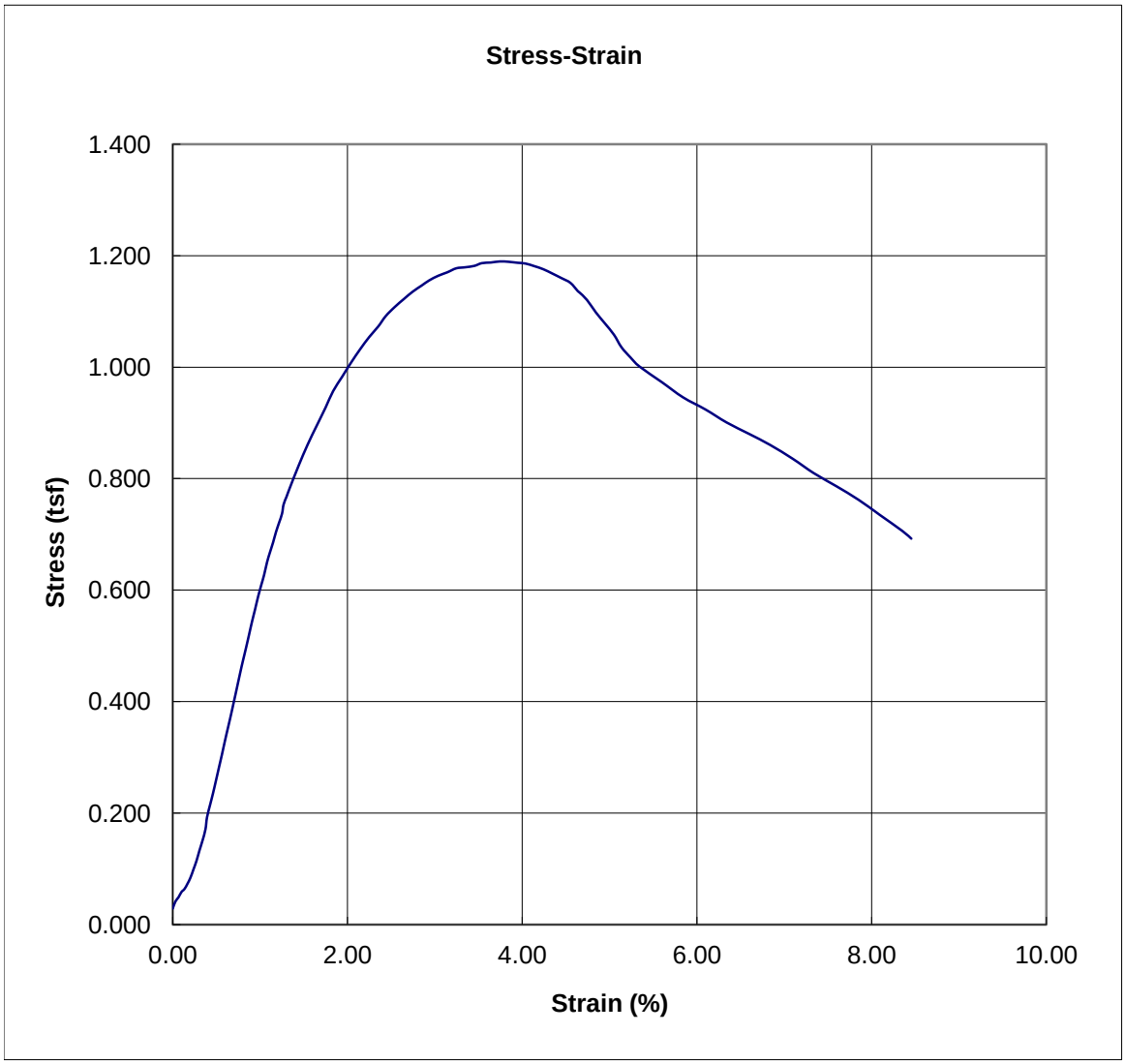
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	11:31:39 AM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.84	**Height (inch):**	5.91
Failure:	Yield		



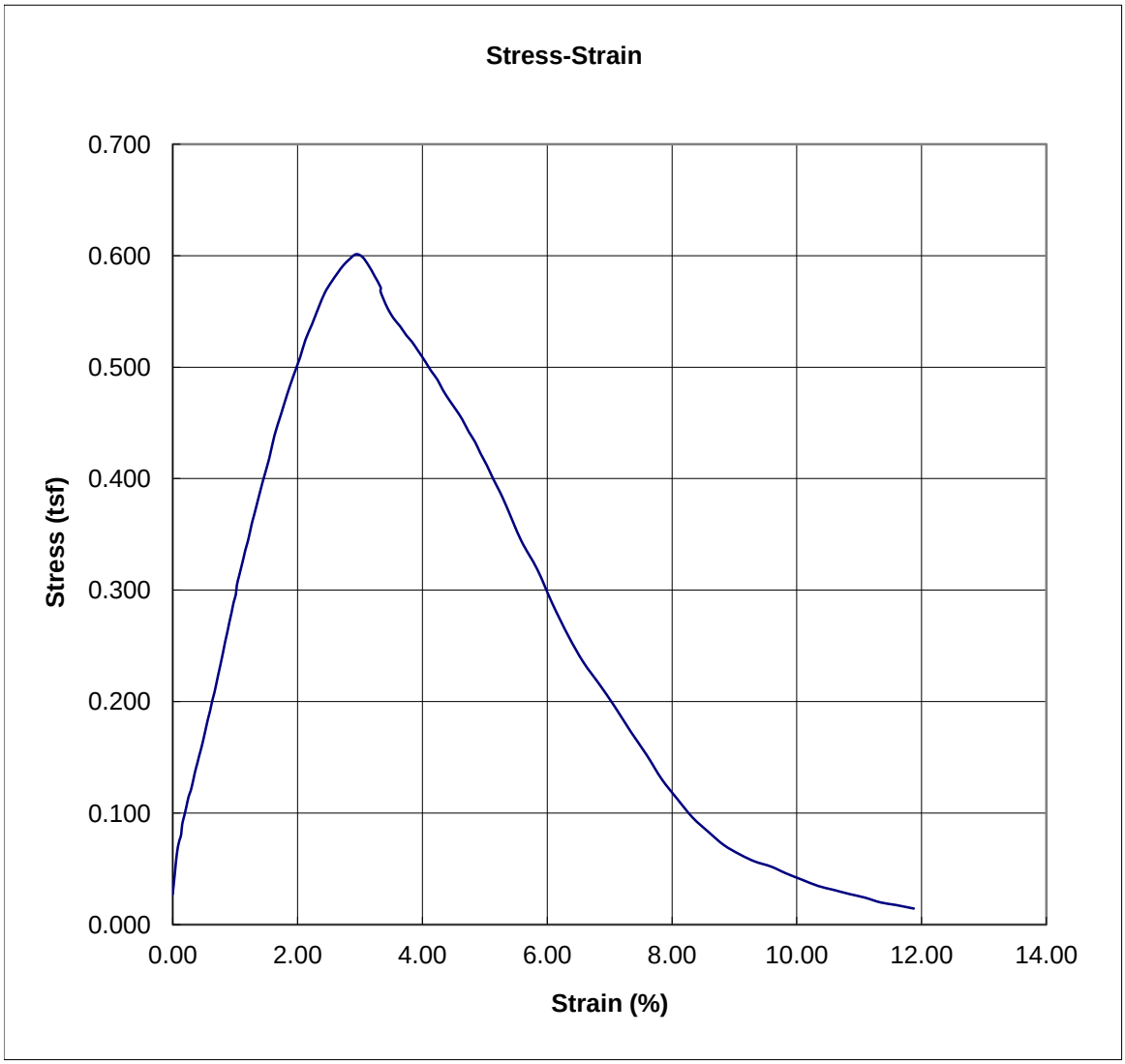
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	1:16:31 PM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.87	**Height (inch):**	4.9
Failure:	Multiple Shear		



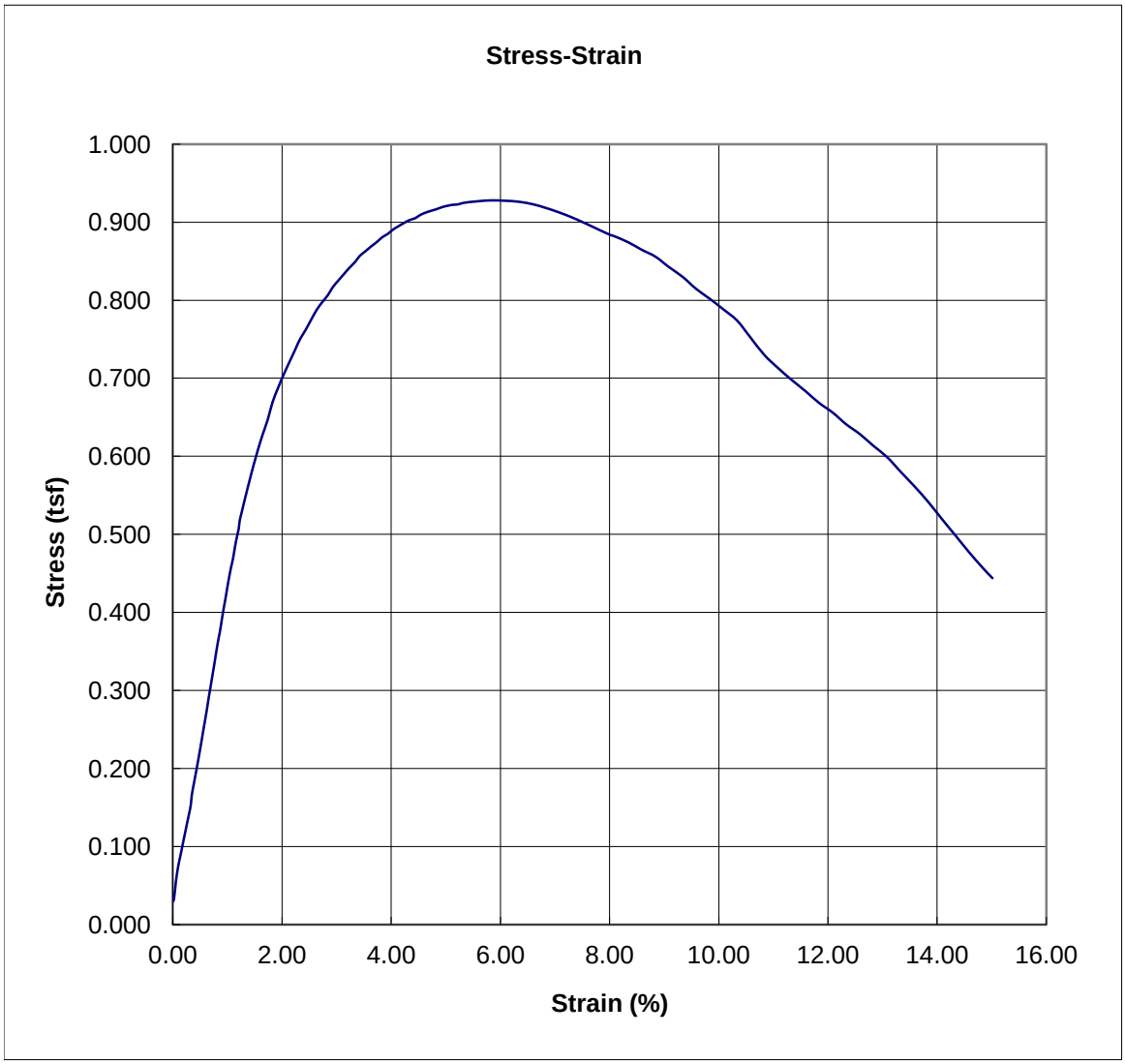
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	1:32:48 PM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.87	**Height (inch):**	6
Failure:	Multiple Shear		



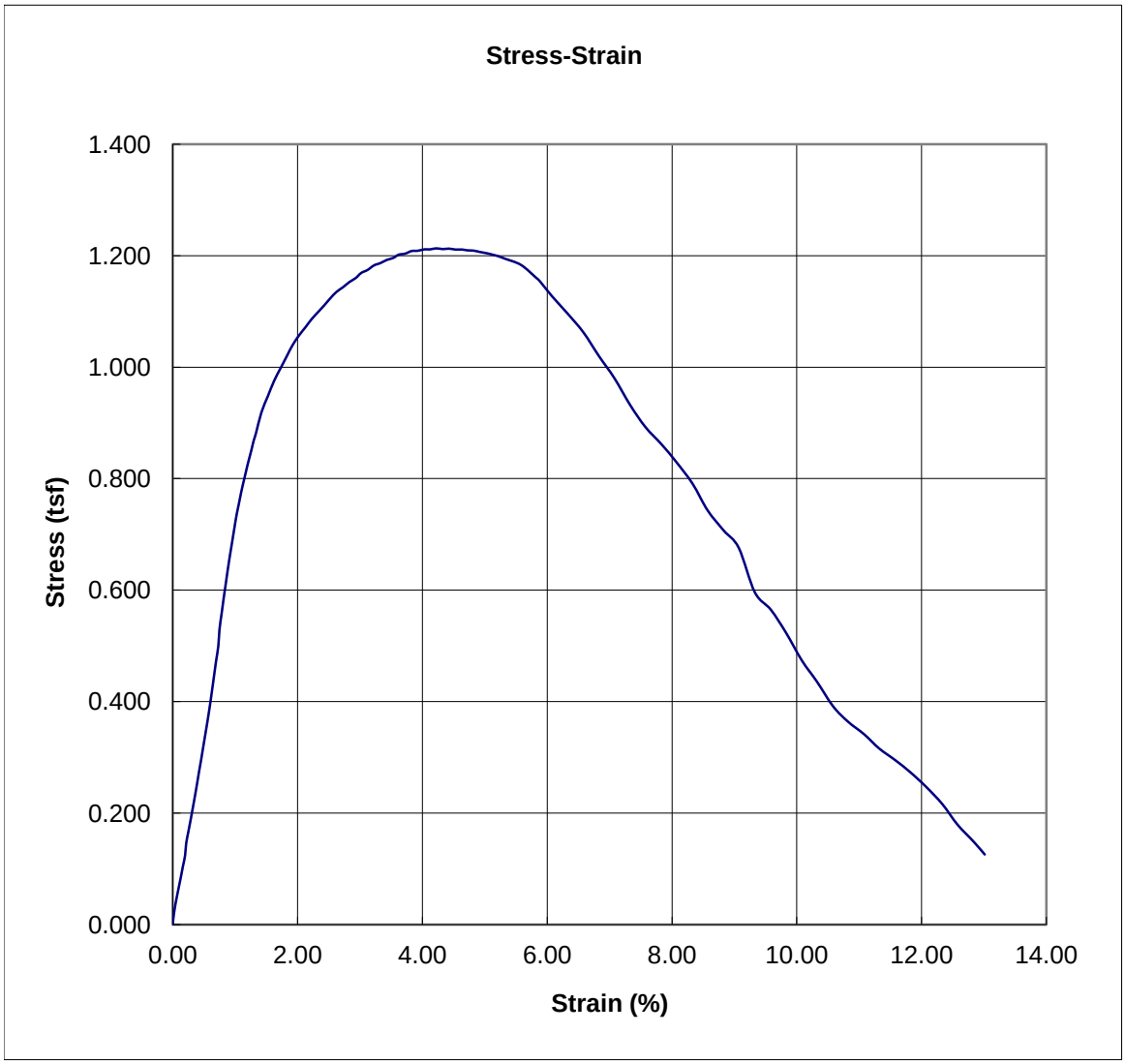
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/20/2011	**Time:**	1:53:23 PM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.88	**Height (inch):**	5.8
Failure:	Crumble		



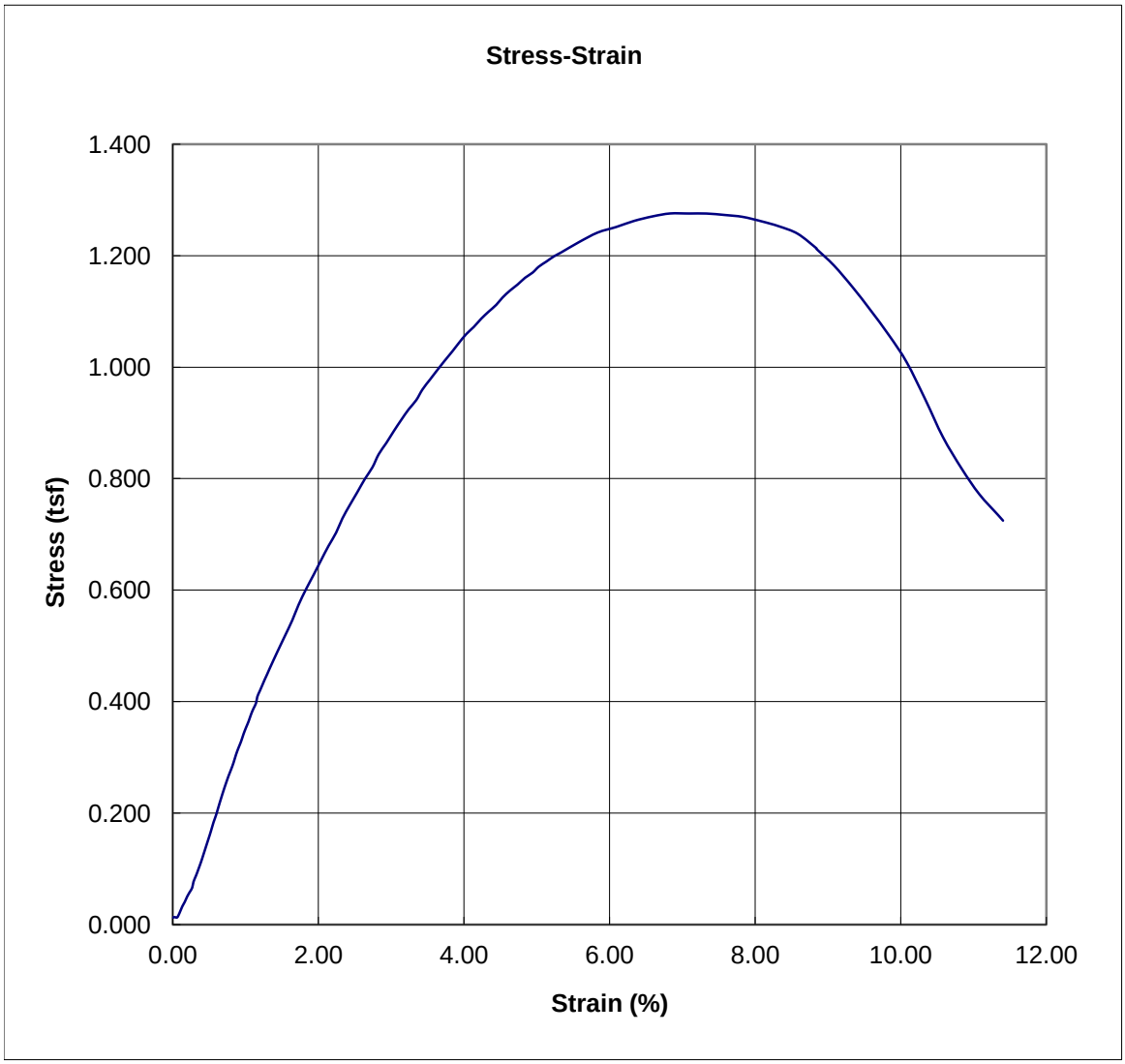
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/20/2011	**Time:**	2:07:57 PM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.87	**Height (inch):**	5.01
Failure:	Crumble		



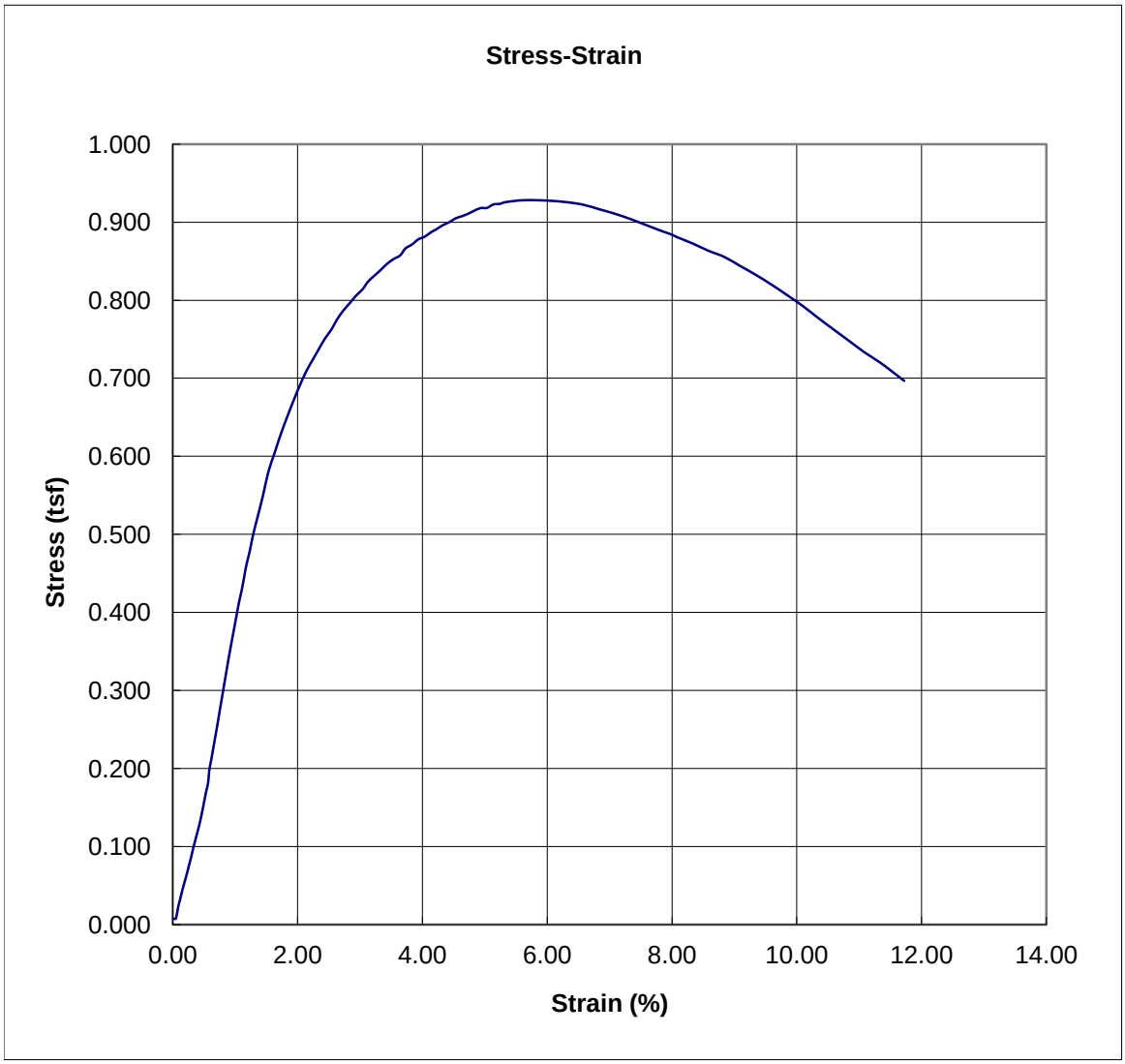
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/23/2011	**Time:**	8:49:08 AM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.87	**Height (inch):**	5
Failure:	SLS		



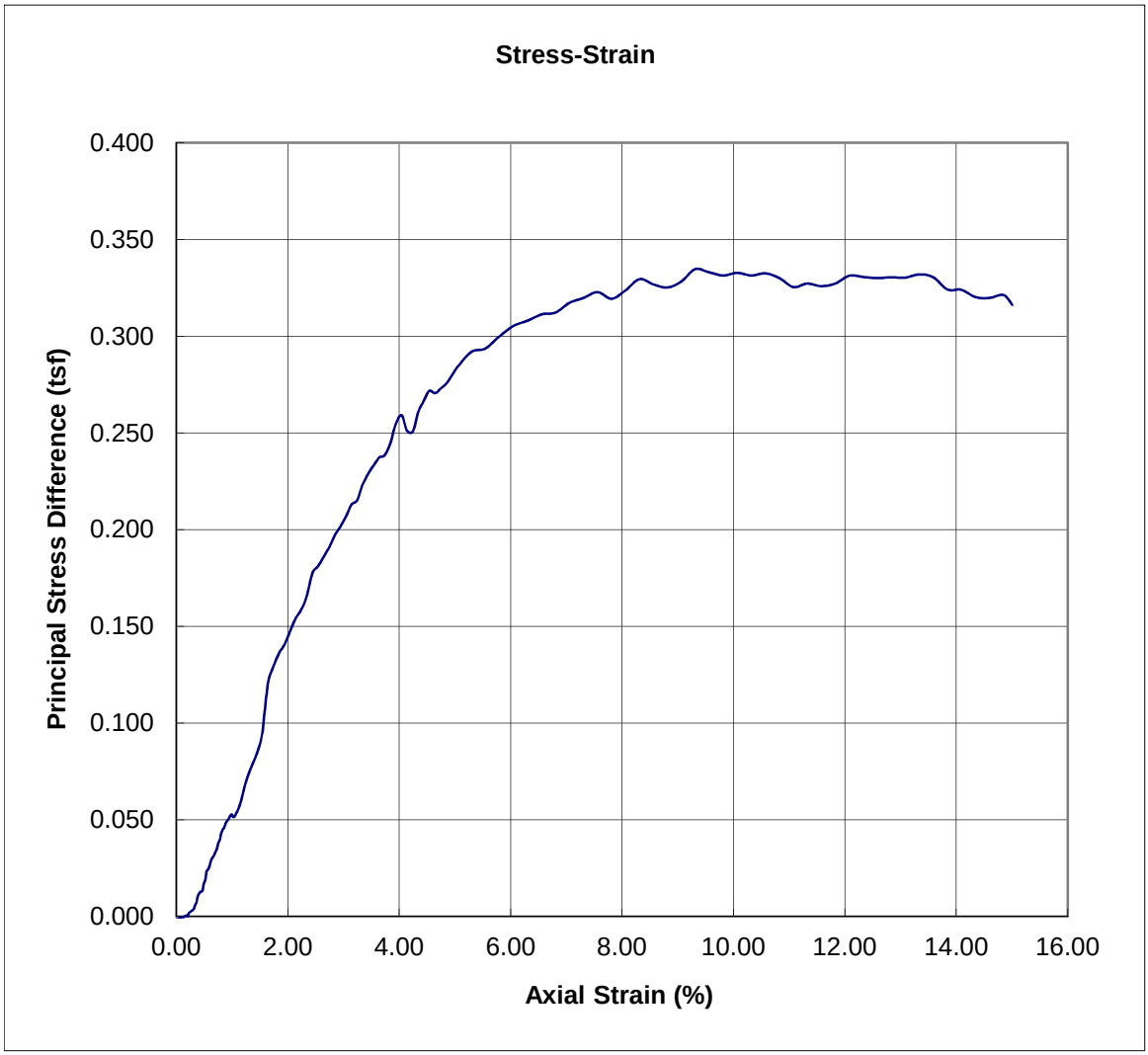
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/26/2011	**Time:**	8:05:12 AM
Boring:	4-Remold	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.87	**Height (inch):**	5
Failure:	Multiple Shear		



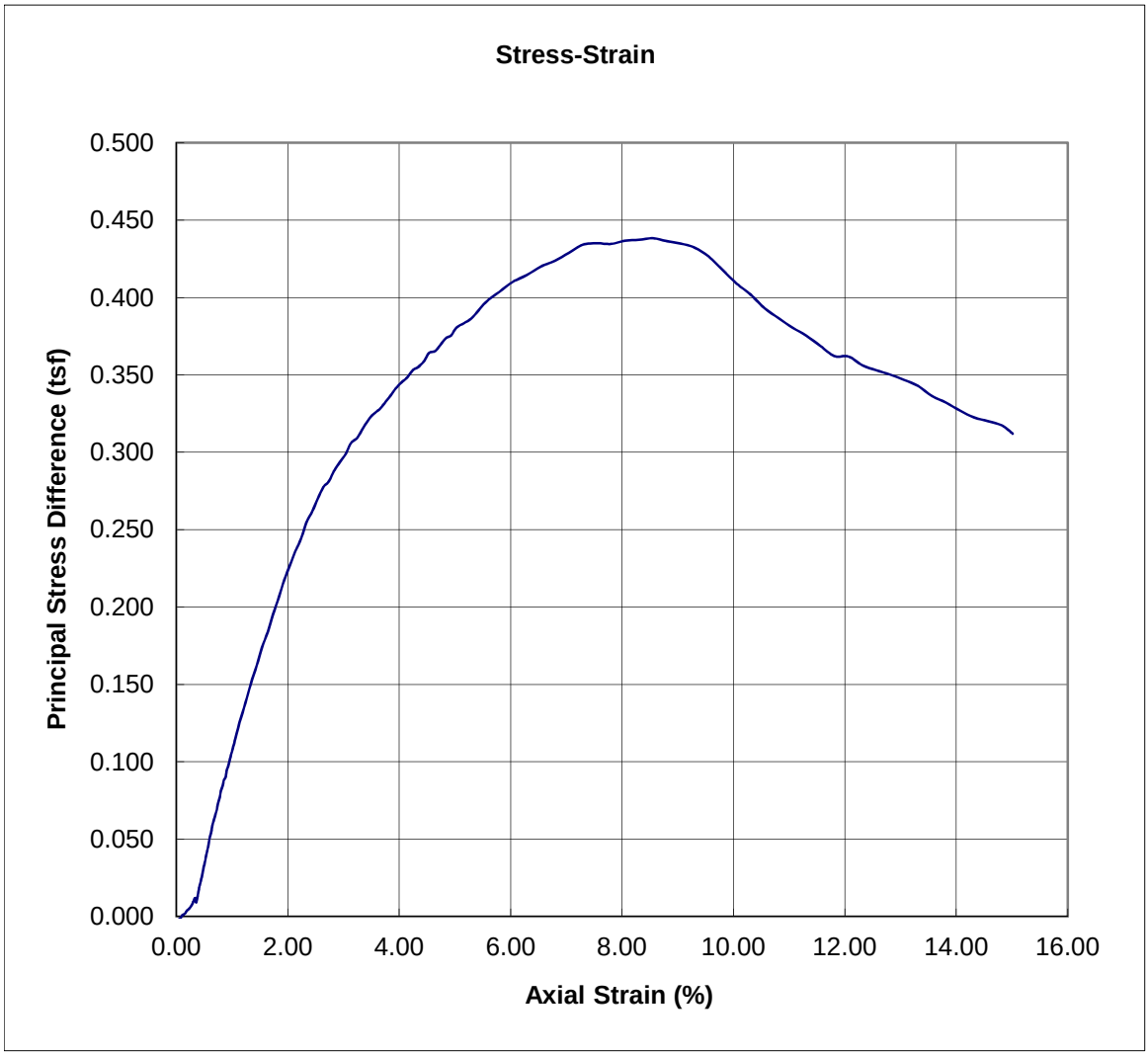
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	9:23:05 AM
Boring:	4	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.86	**Height (inch):**	4.97
Failure:	SLS		



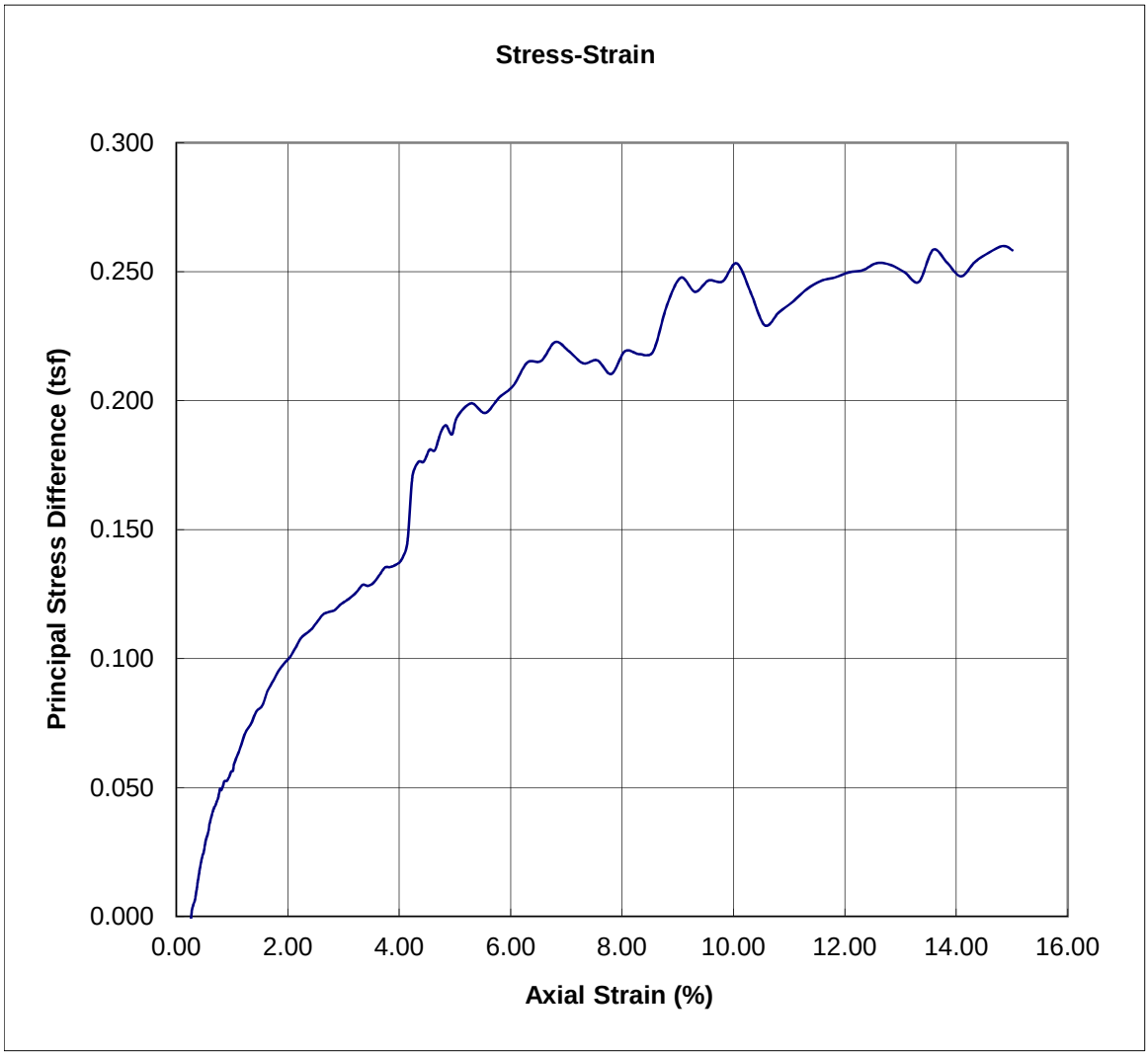
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/23/2011	**Time:**	9:54:58 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	6
Diameter (inch):	2.82	**Height (inch):**	5.9
Piston Correction (lbs):	0.101474785		
Failure:	Bulge		



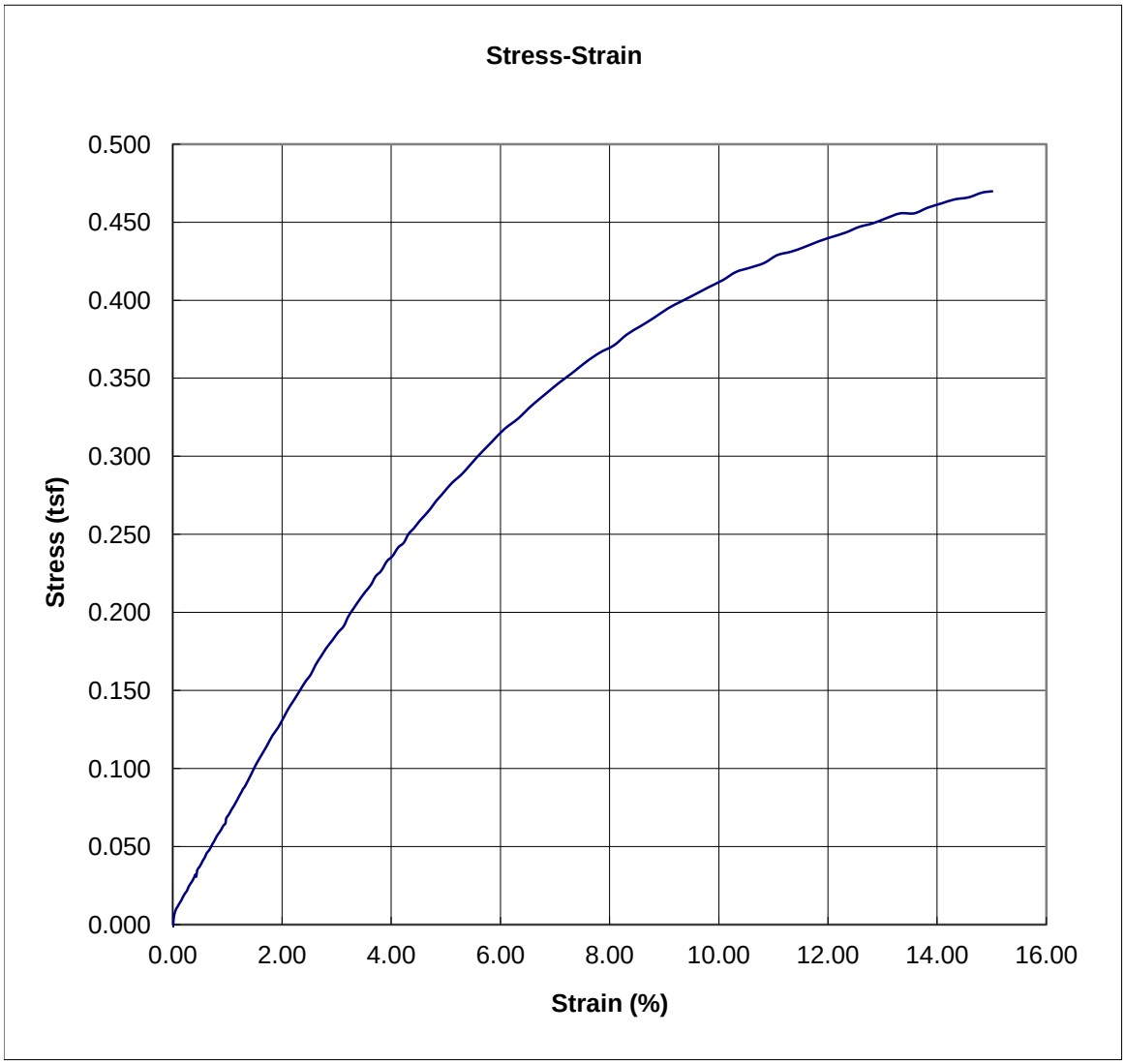
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/23/2011	**Time:**	10:41:50 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.82	**Height (inch):**	5.86
Piston Correction (lbs):	0.214263306		
Failure:	Bulge		



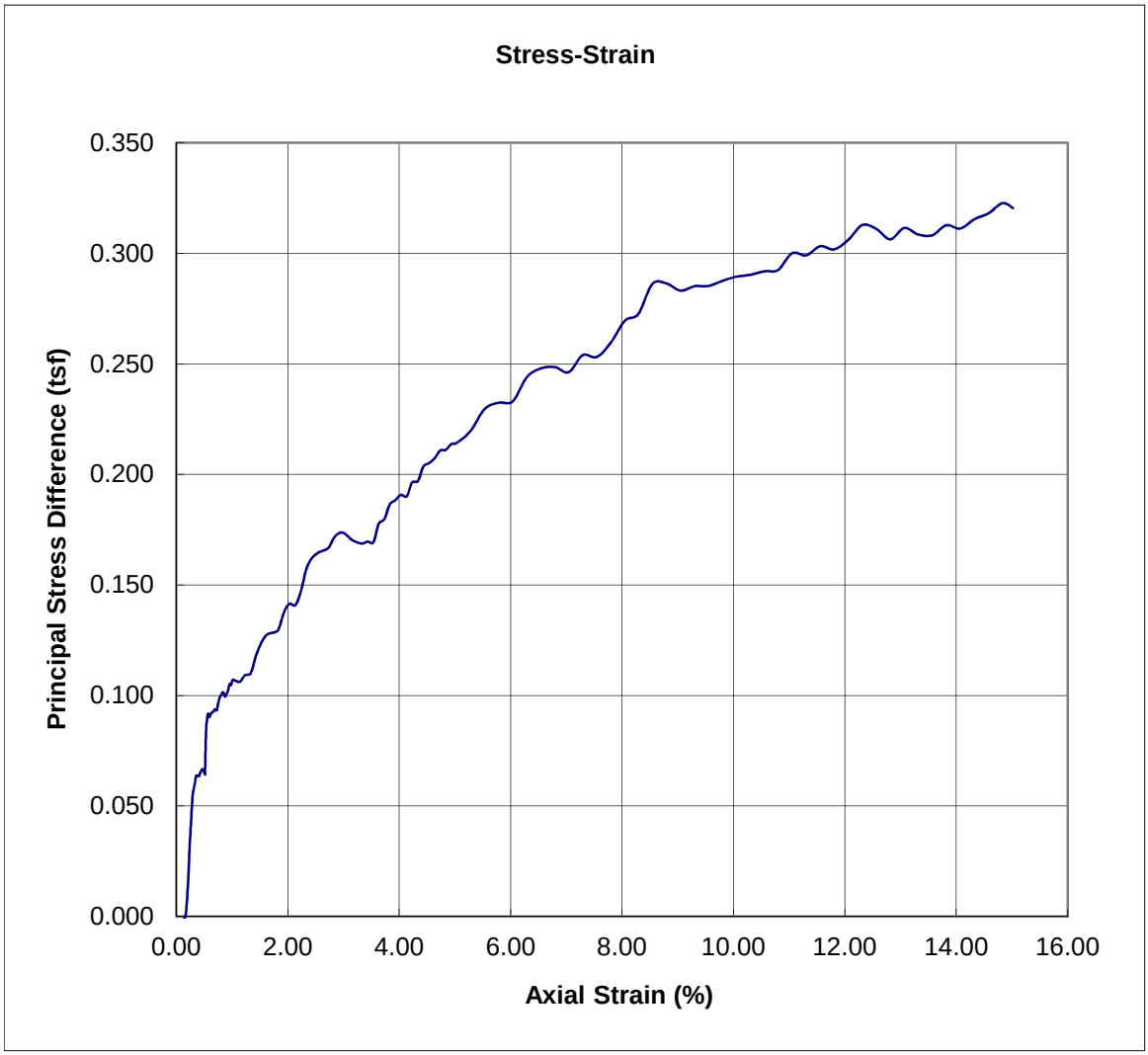
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/23/2011	**Time:**	11:16:20 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	14
Diameter (inch):	2.87	**Height (inch):**	5.4
Piston Correction (lbs):	0.714753357		
Failure:	Bulge		



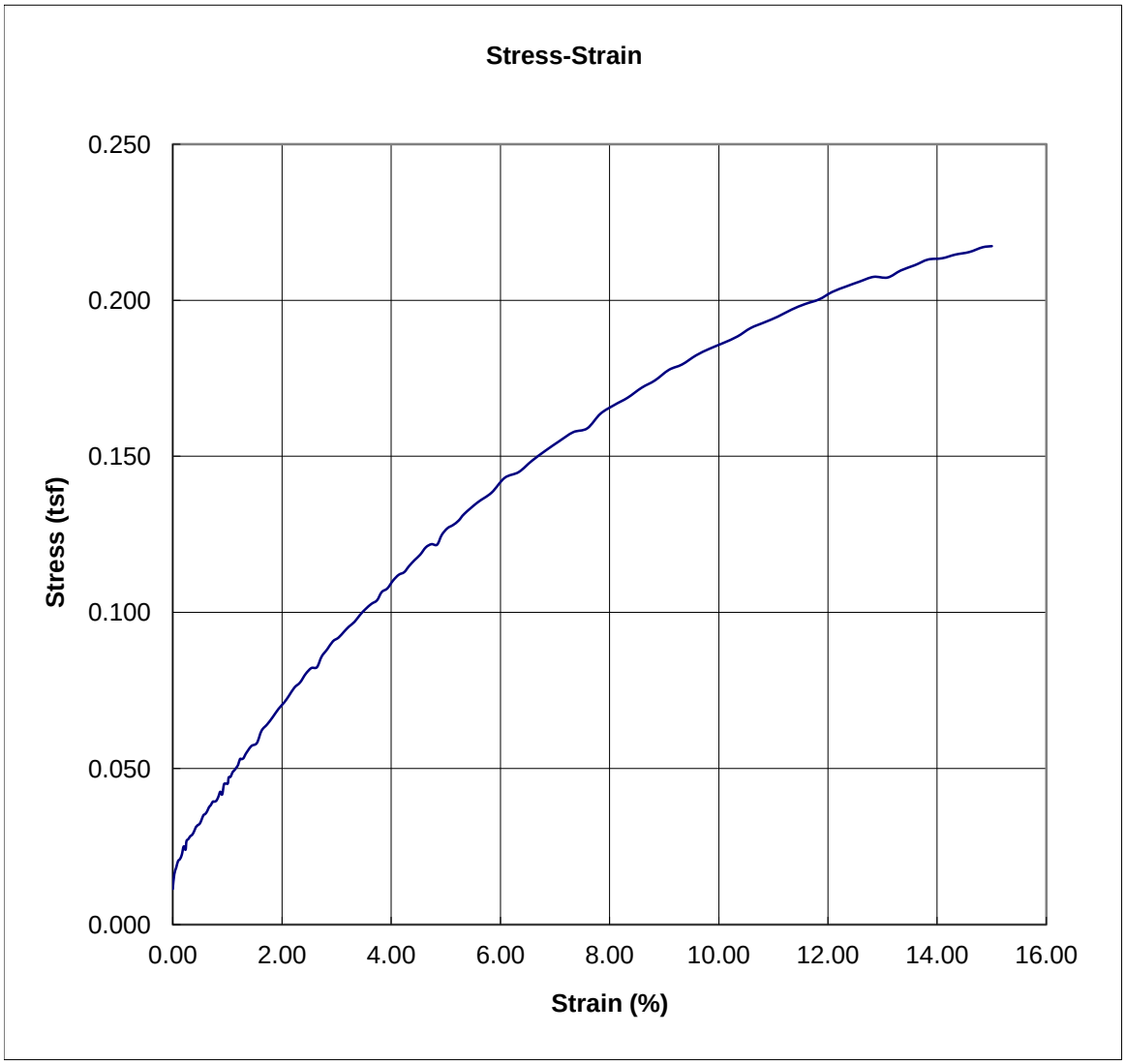
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	11:21:08 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.87	**Height (inch):**	5.19
Failure:	Yield		



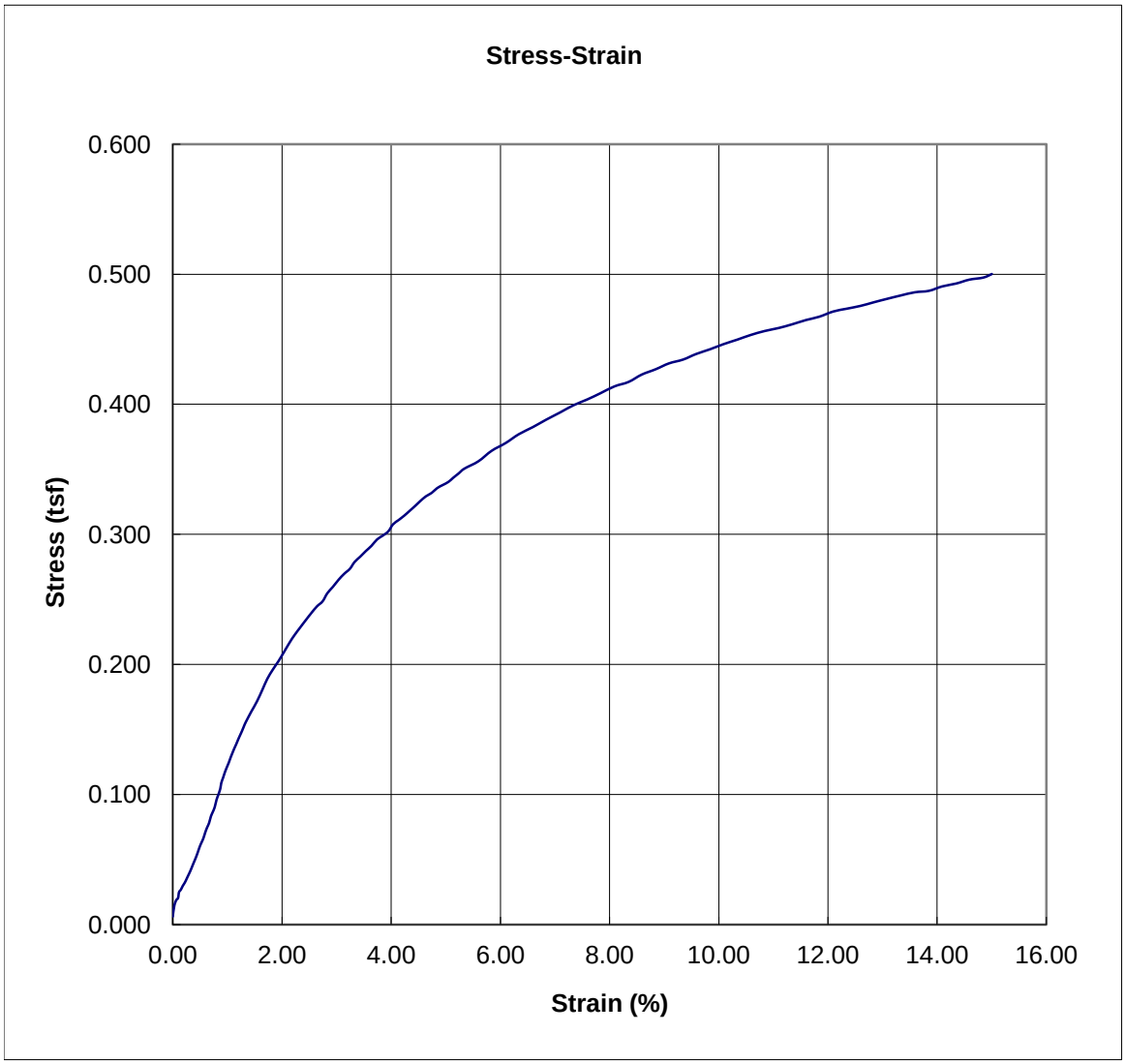
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	8:31:28 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.83	**Height (inch):**	5.9
Piston Correction (lbs):	1.013866897		
Failure:	Yield		



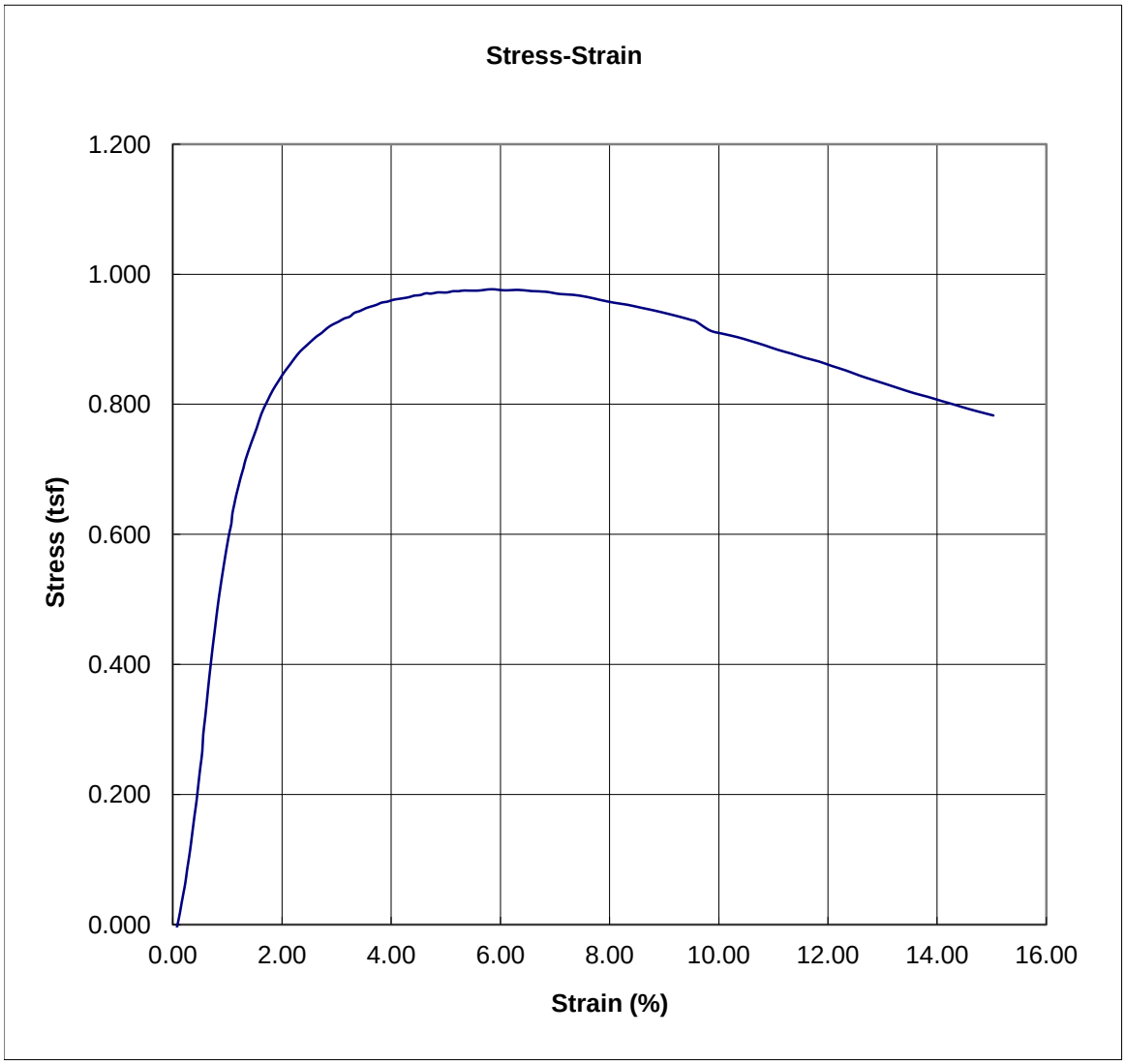
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/22/2011	**Time:**	11:46:19 AM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.85	**Height (inch):**	5.67
Failure:	Yield		



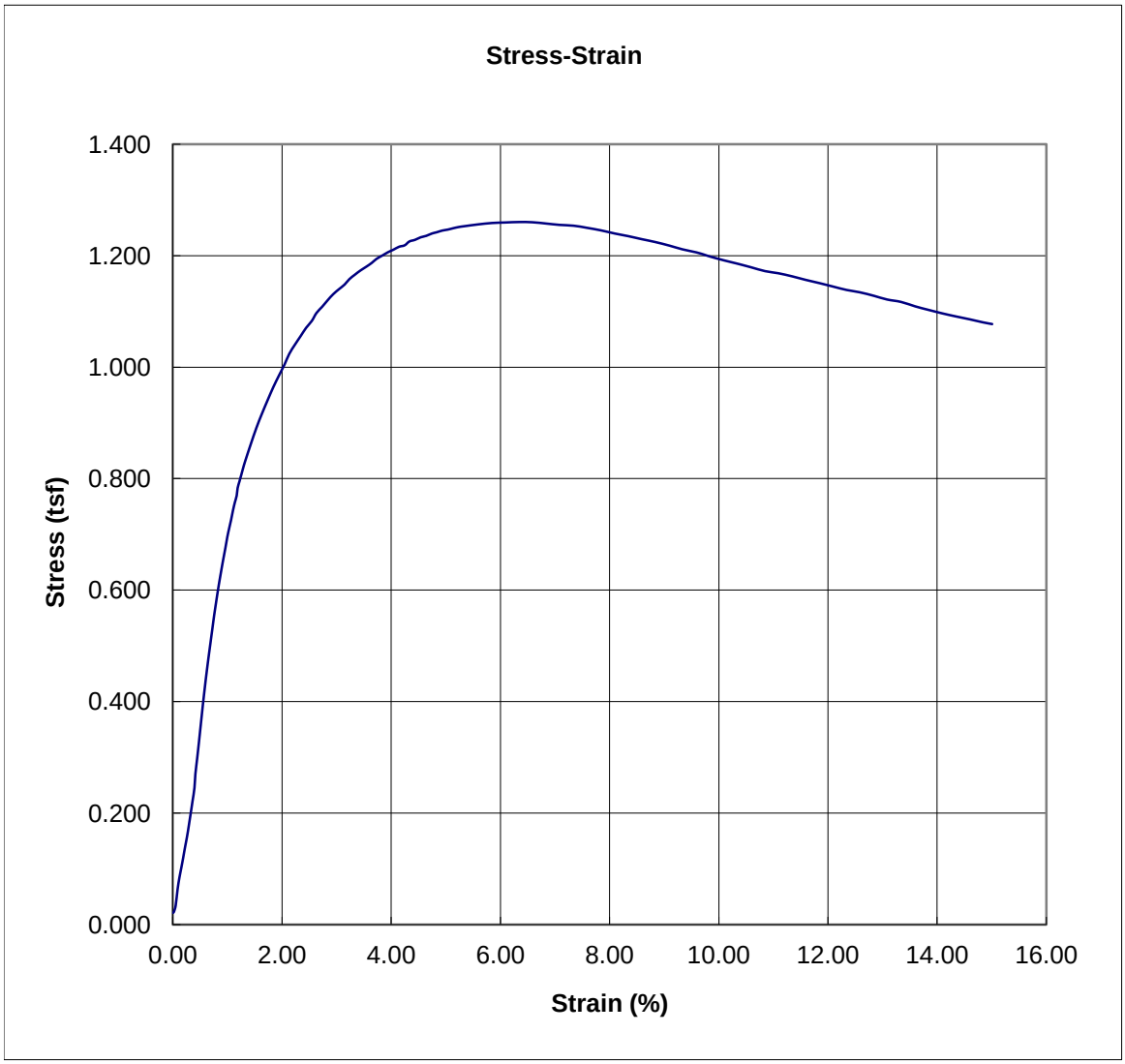
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	1:02:50 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.83	**Height (inch):**	5.9
Failure:	Yield		



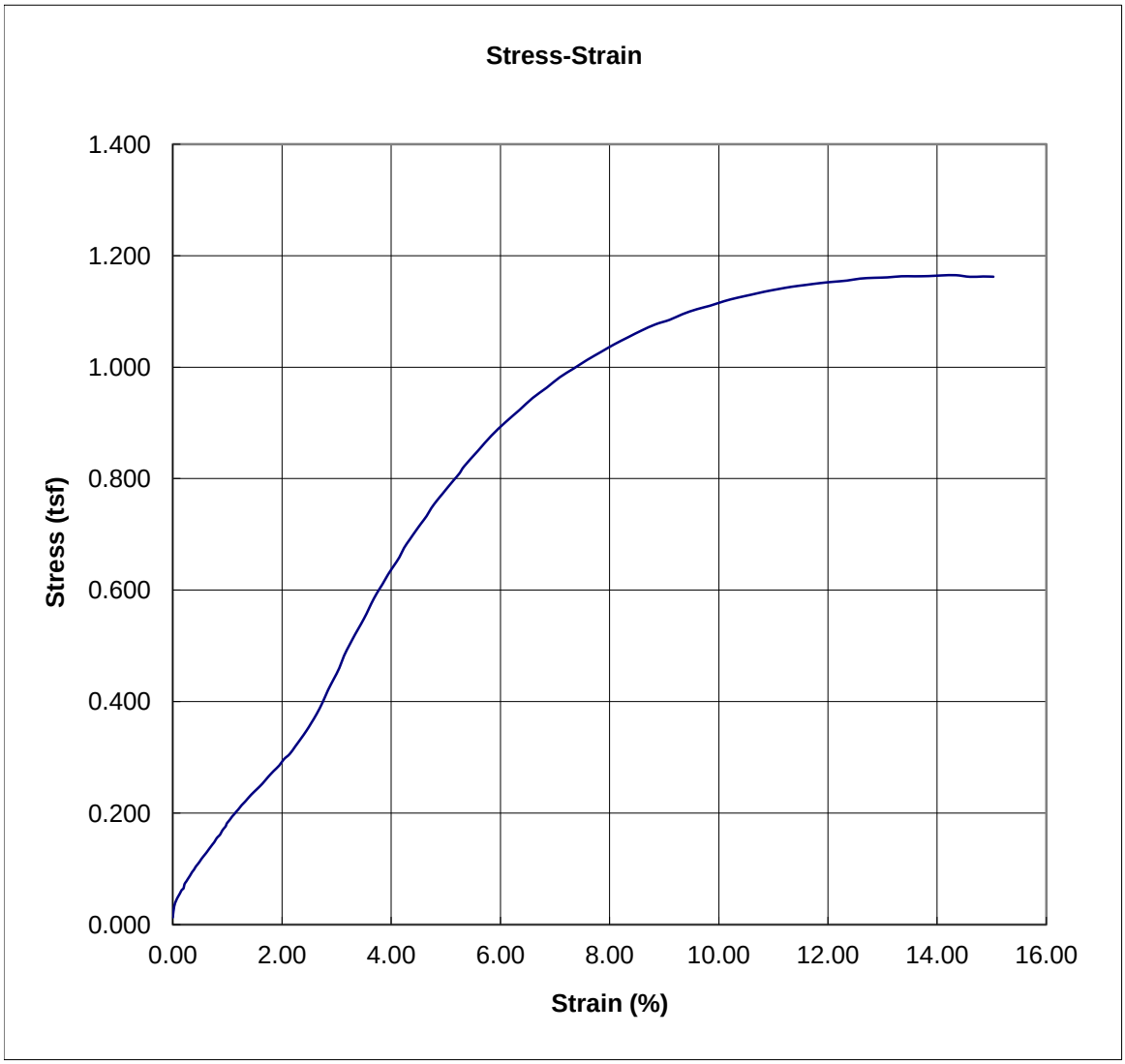
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	3:47:59 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.85	**Height (inch):**	6
Failure:	SLS		



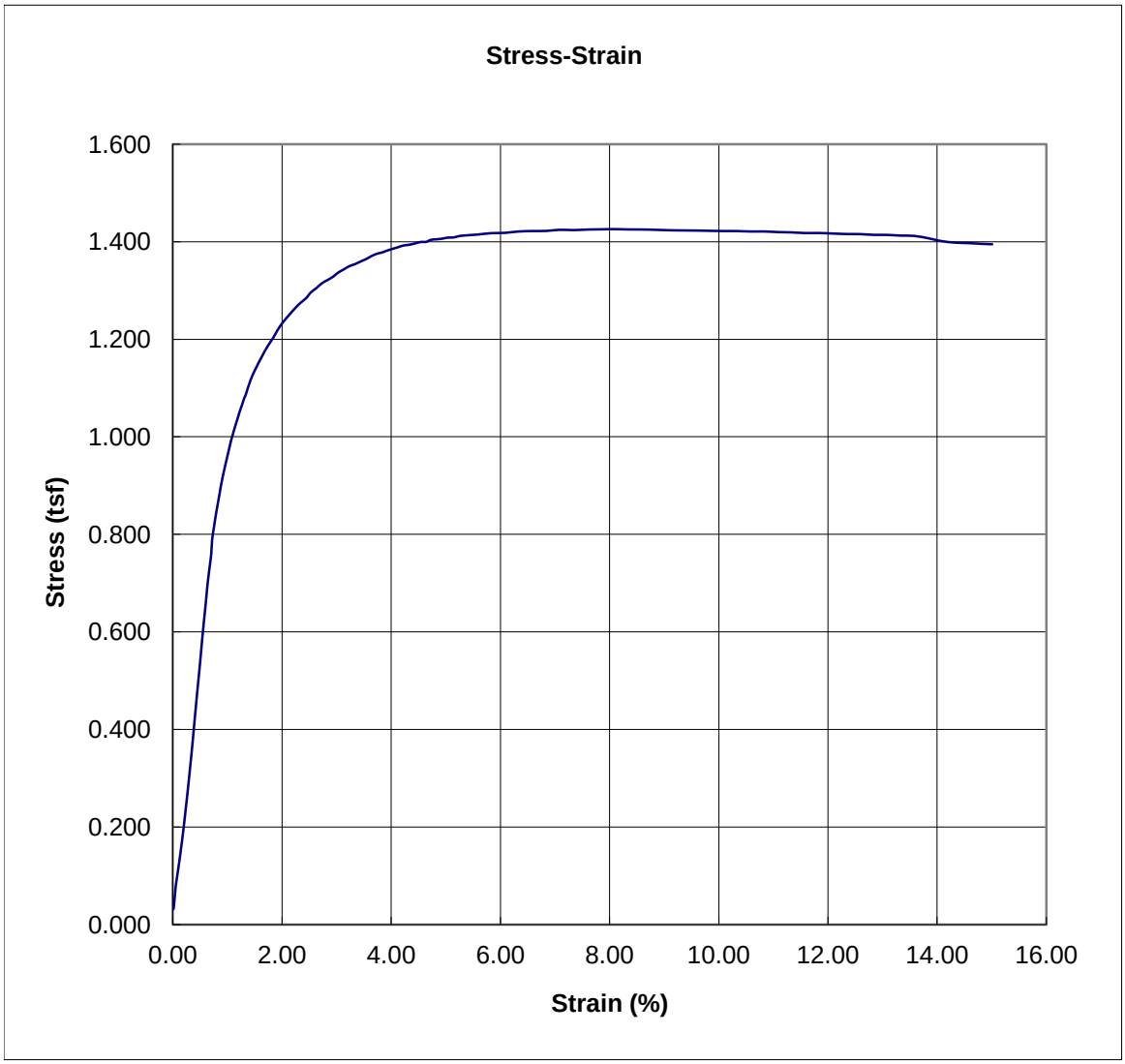
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	1:21:56 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.86	**Height (inch):**	5.3
Failure:	SLS		



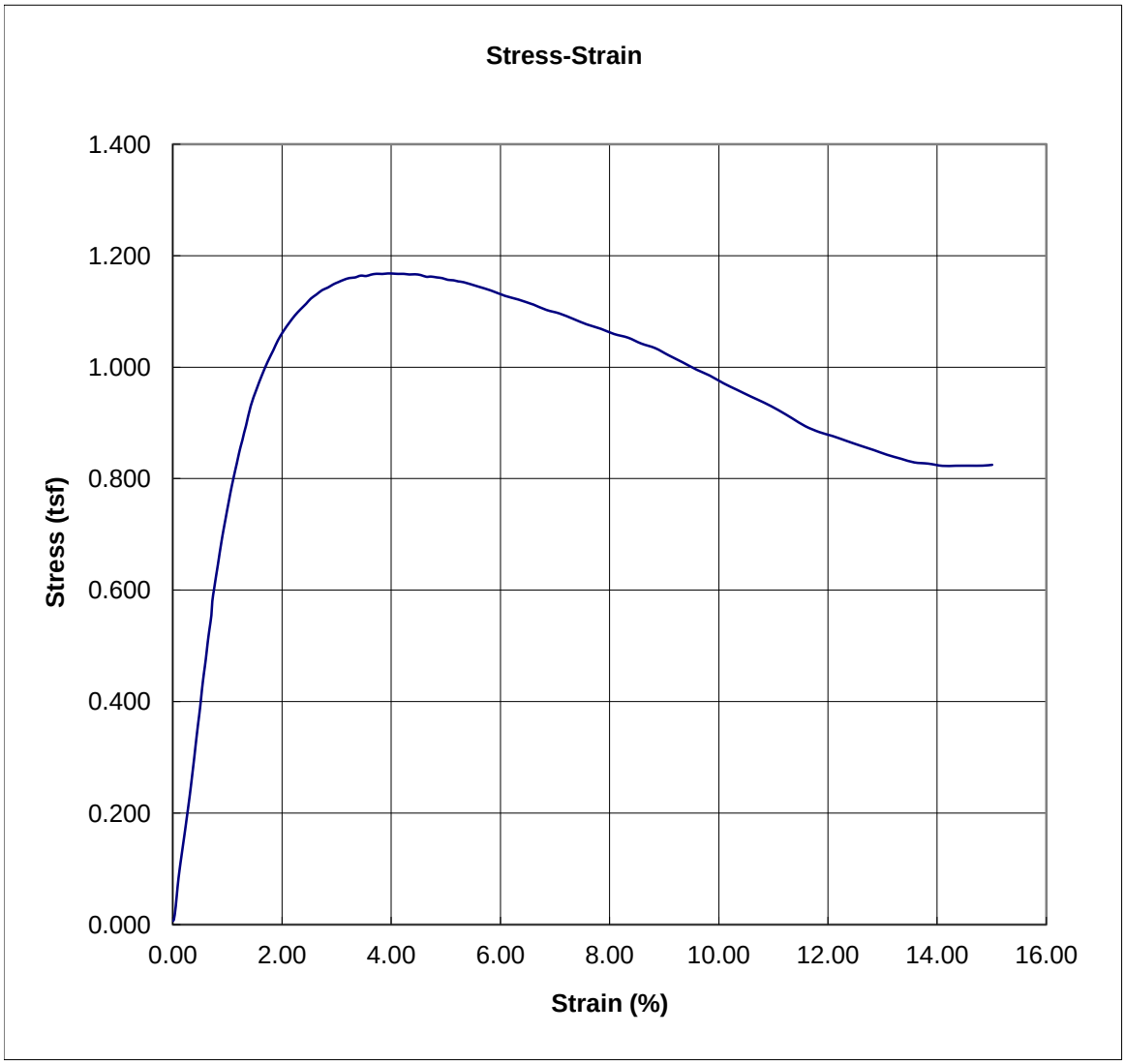
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/23/2011	**Time:**	9:06:56 AM
Boring:	5-Remold	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.86	**Height (inch):**	5.3
Failure:	Multiple Shear		



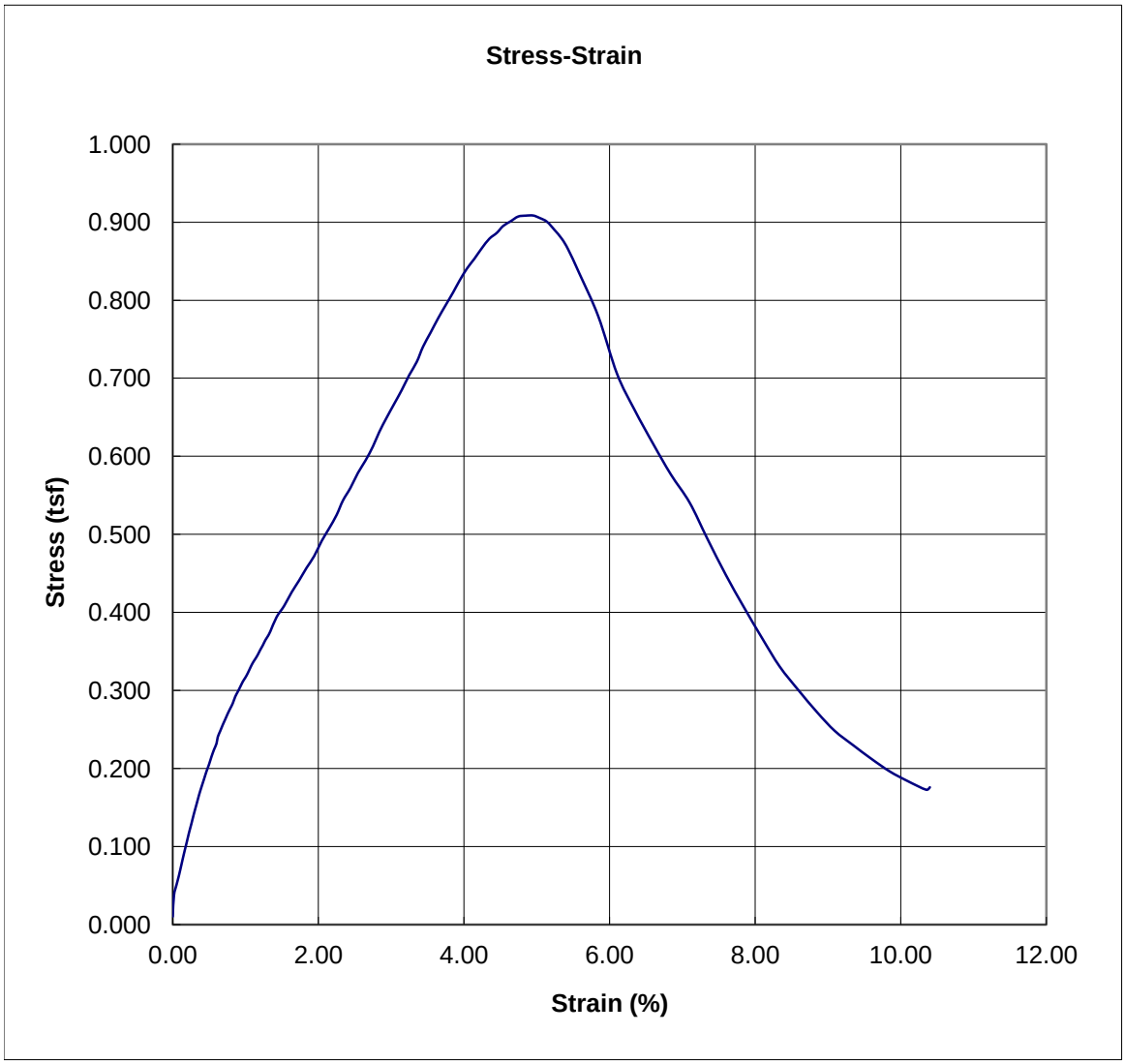
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	1:42:14 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.86	**Height (inch):**	6
Failure:	Multiple Shear		



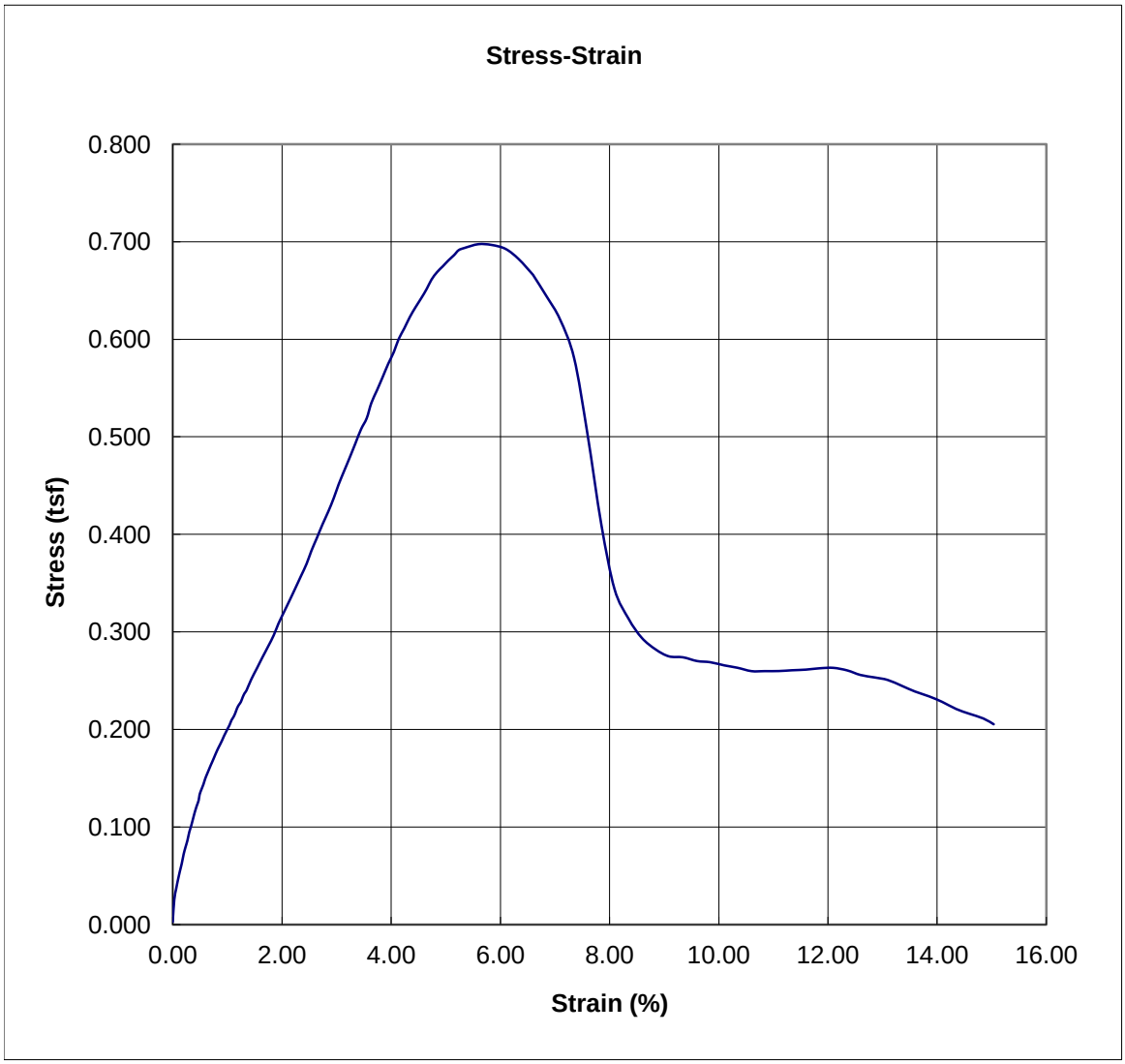
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	2:03:38 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.87	**Height (inch):**	5.9
Failure:	SLS		



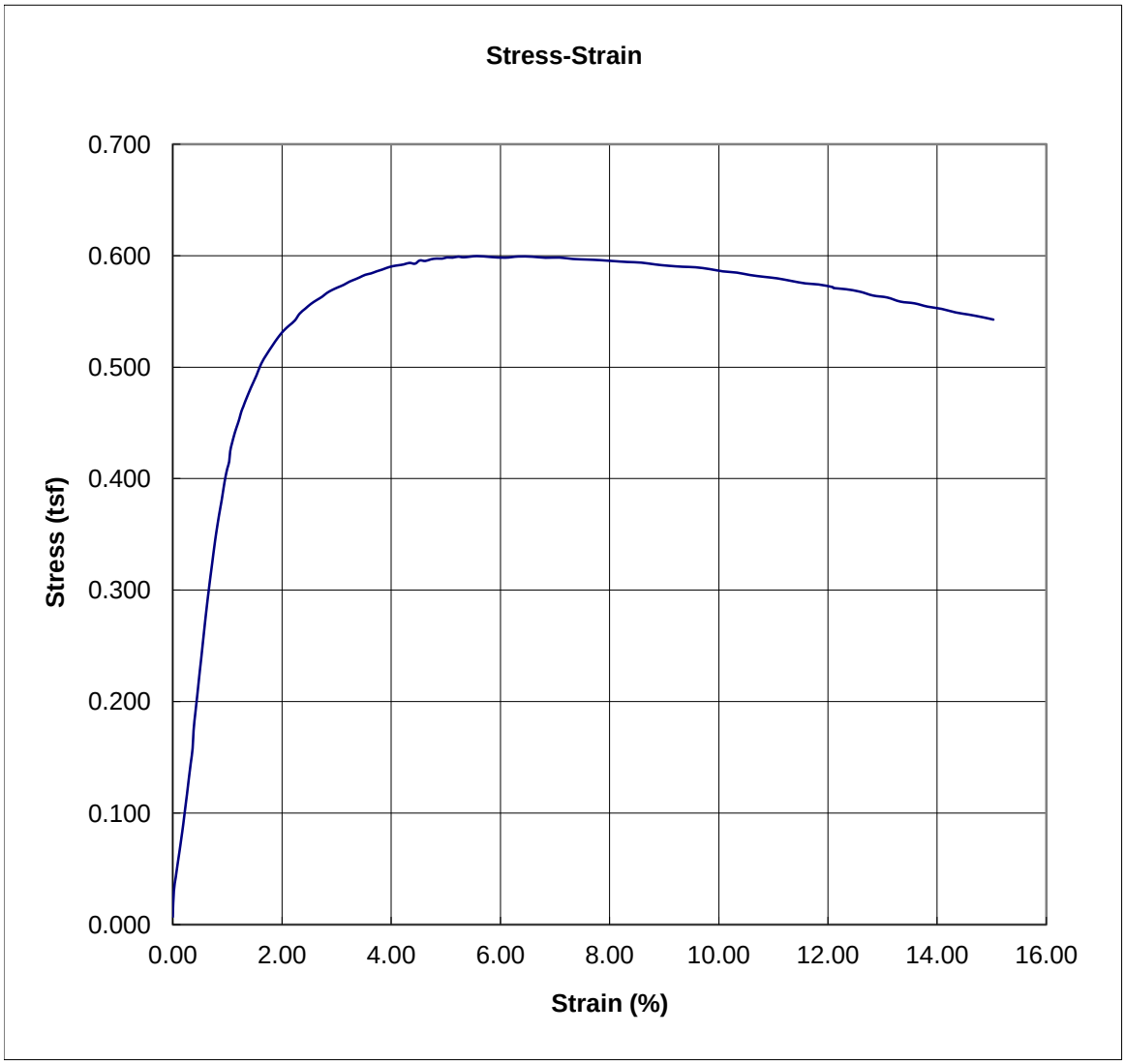
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	2:28:12 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	49
Diameter (inch):	2.86	**Height (inch):**	5.41
Failure:	Multiple Shear		



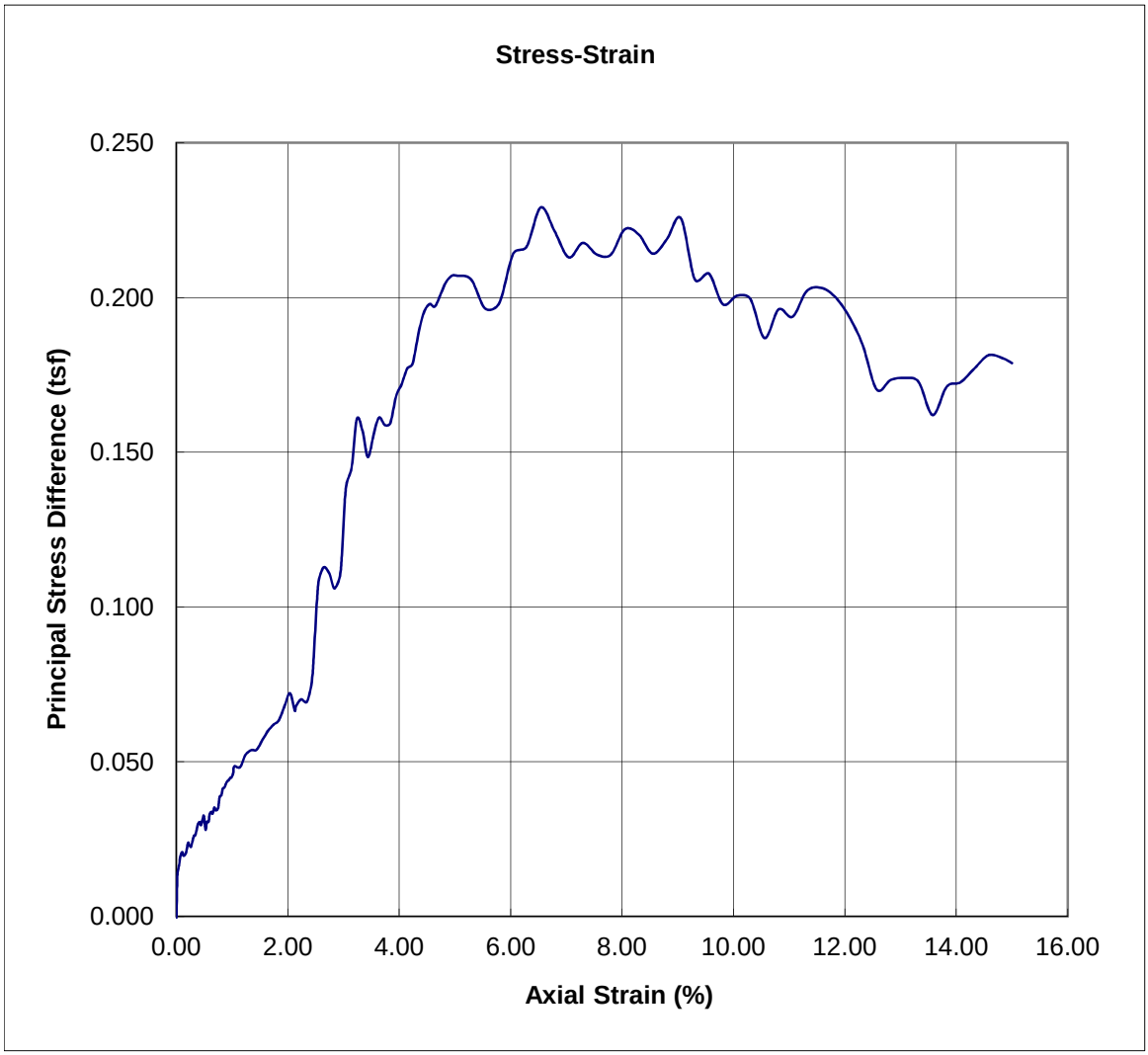
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/22/2011	**Time:**	2:59:24 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	54
Diameter (inch):	2.86	**Height (inch):**	5.7
Failure:	Silt Streak		



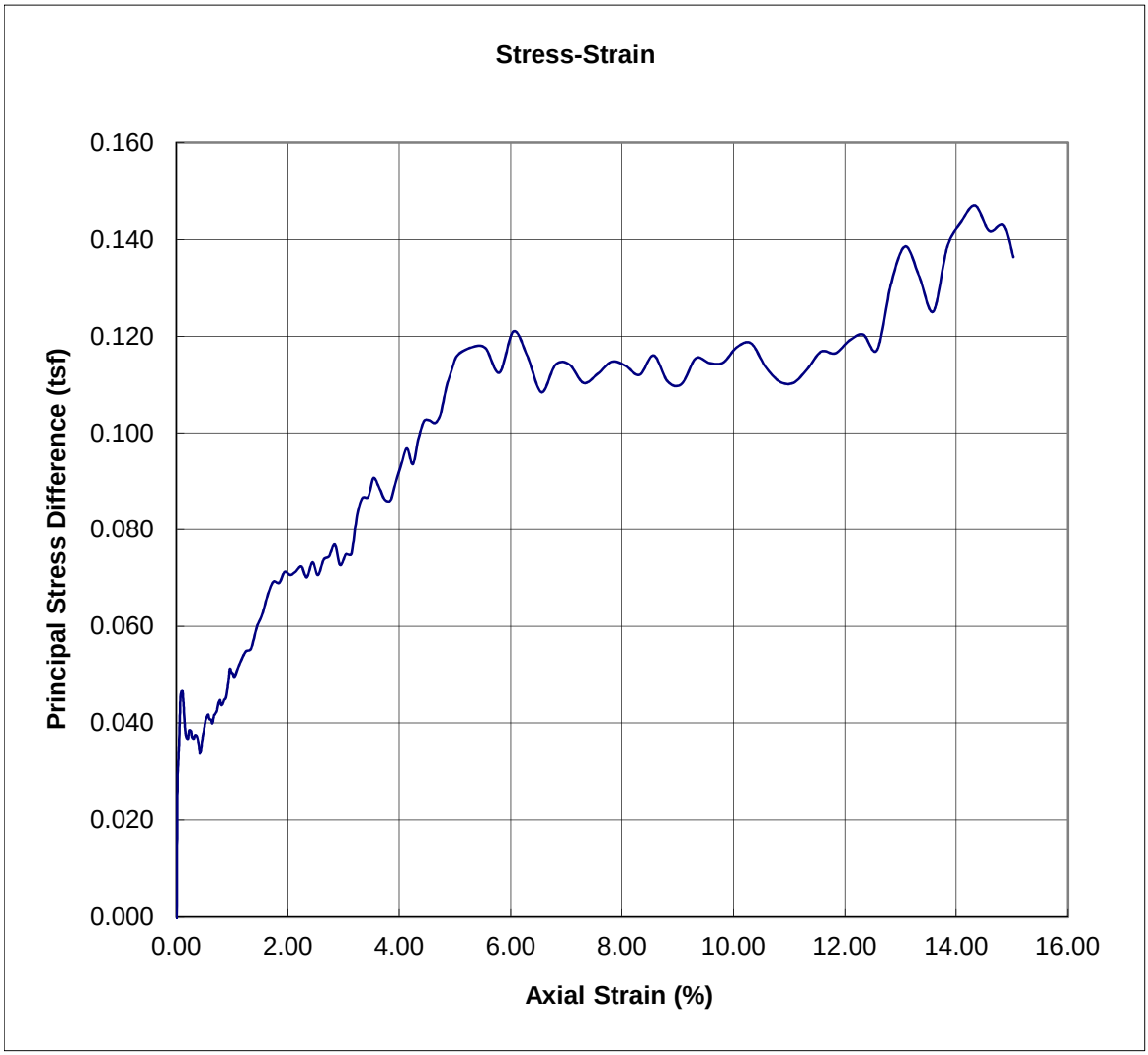
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/22/2011	**Time:**	3:19:09 PM
Boring:	5	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	59
Diameter (inch):	2.86	**Height (inch):**	5.83
Failure:	Multiple Shear		



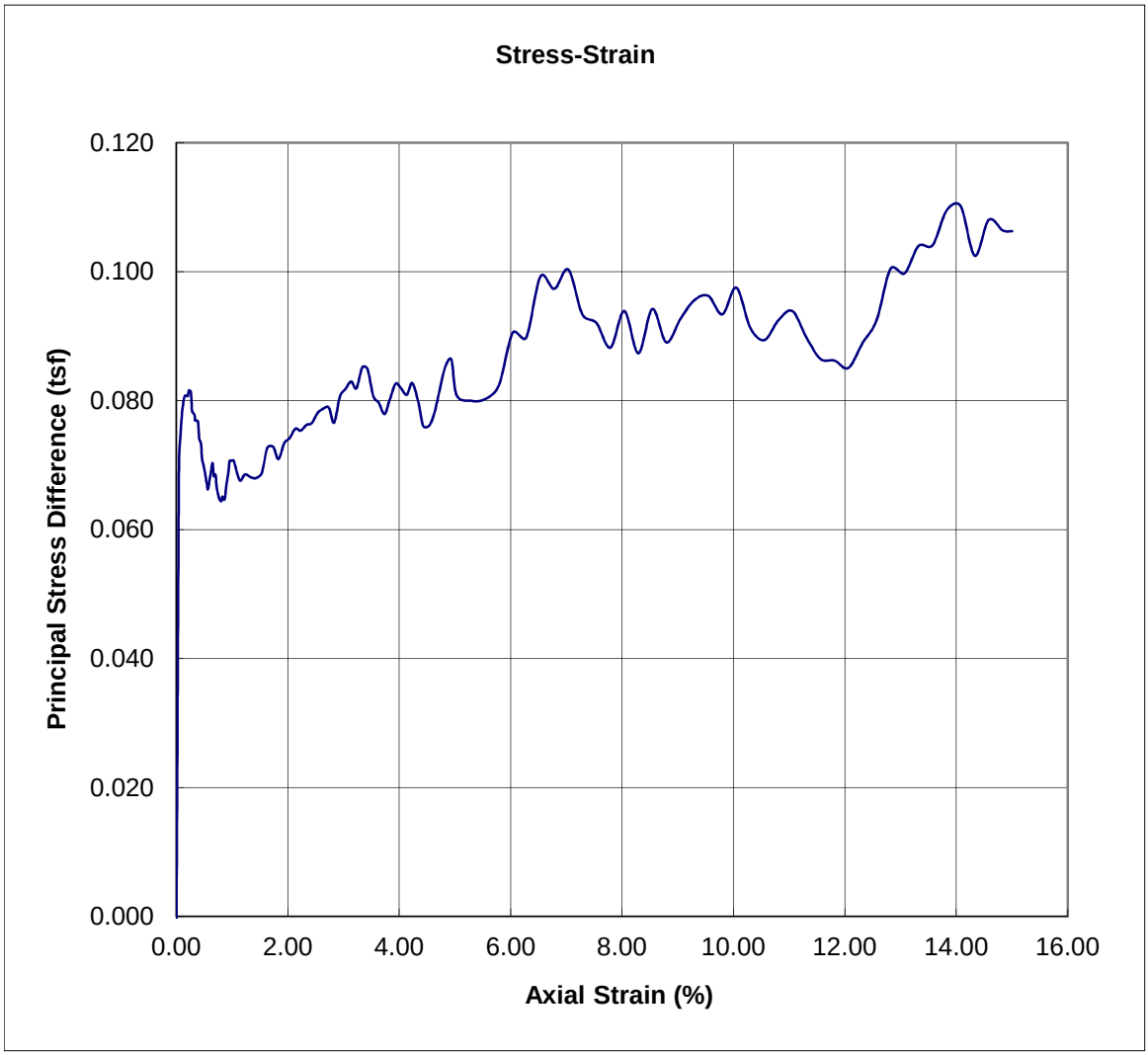
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	10:01:37 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	6
Diameter (inch):	2.83	**Height (inch):**	5.9
Piston Correction (lbs):	9.80E-02		
Failure:	Bulge		



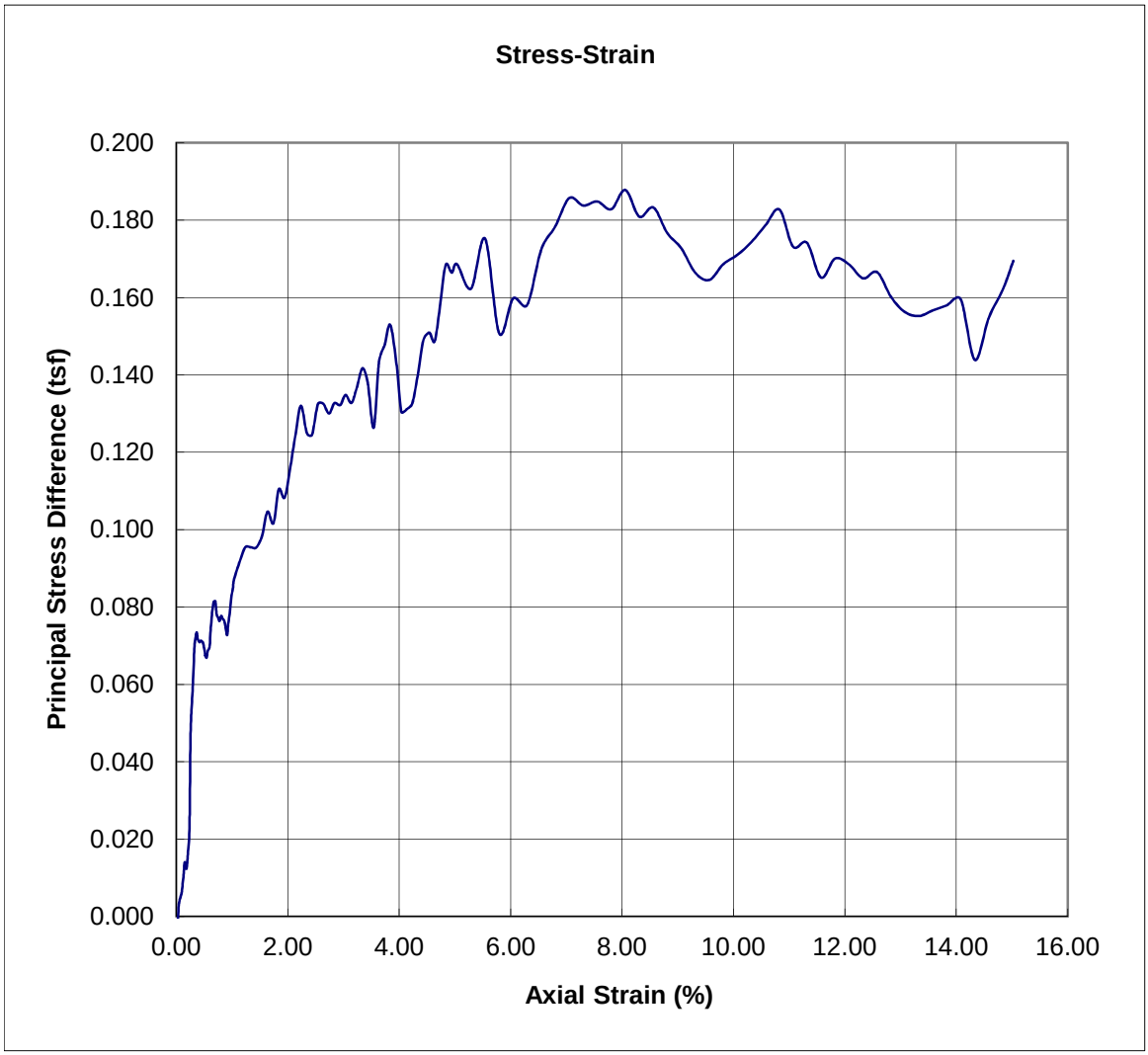
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	9:17:48 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.8	**Height (inch):**	5.9
Piston Correction (lbs):	0.241333667		
Failure:	Bulge		



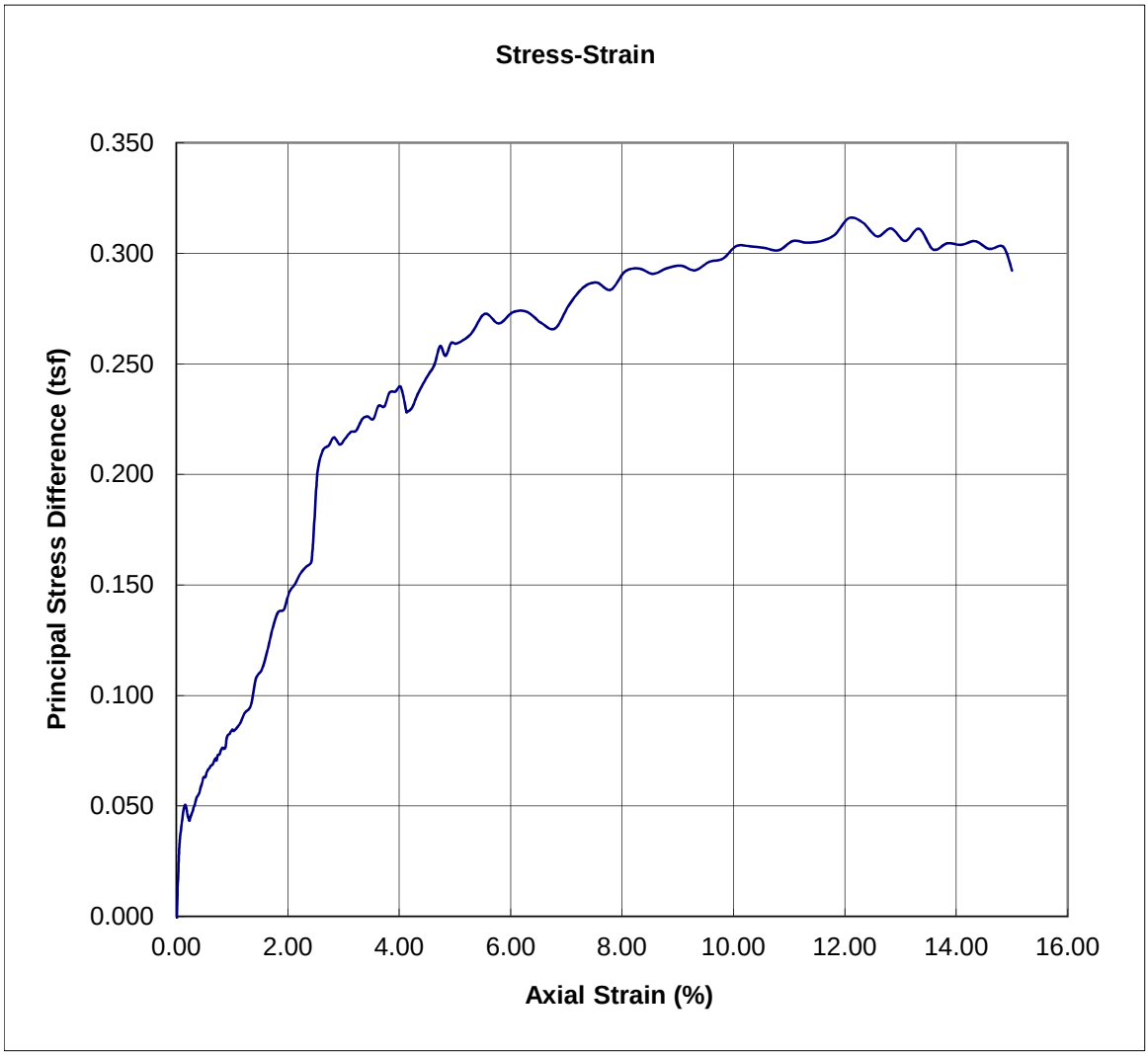
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	10:52:56 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	10
Diameter (inch):	2.86	**Height (inch):**	5.7
Piston Correction (lbs):	0.39888131		
Failure:	Bulge		



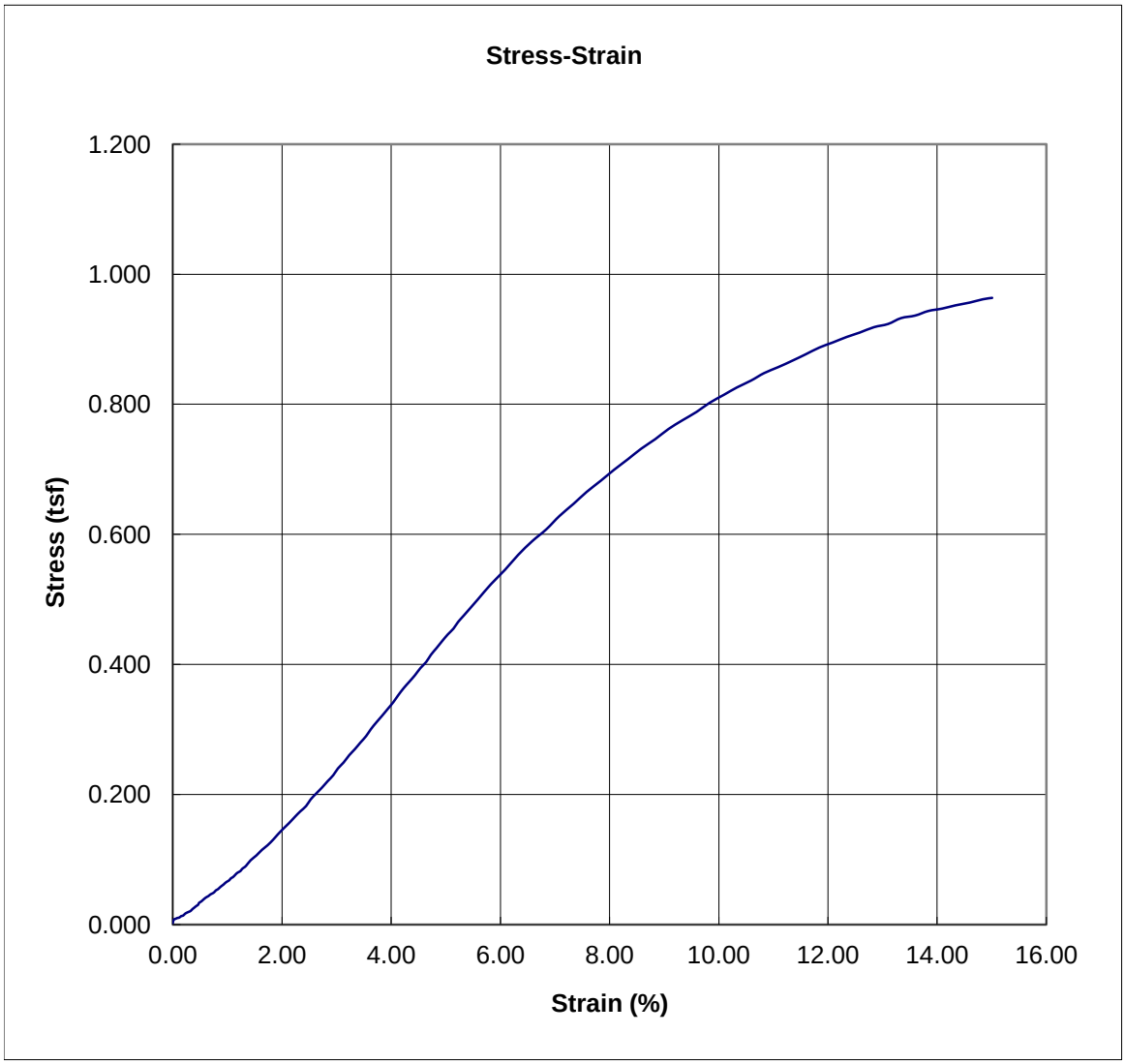
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	11:41:14 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.8	**Height (inch):**	6
Piston Correction (lbs):	0.863017076		
Failure:	Bulge		



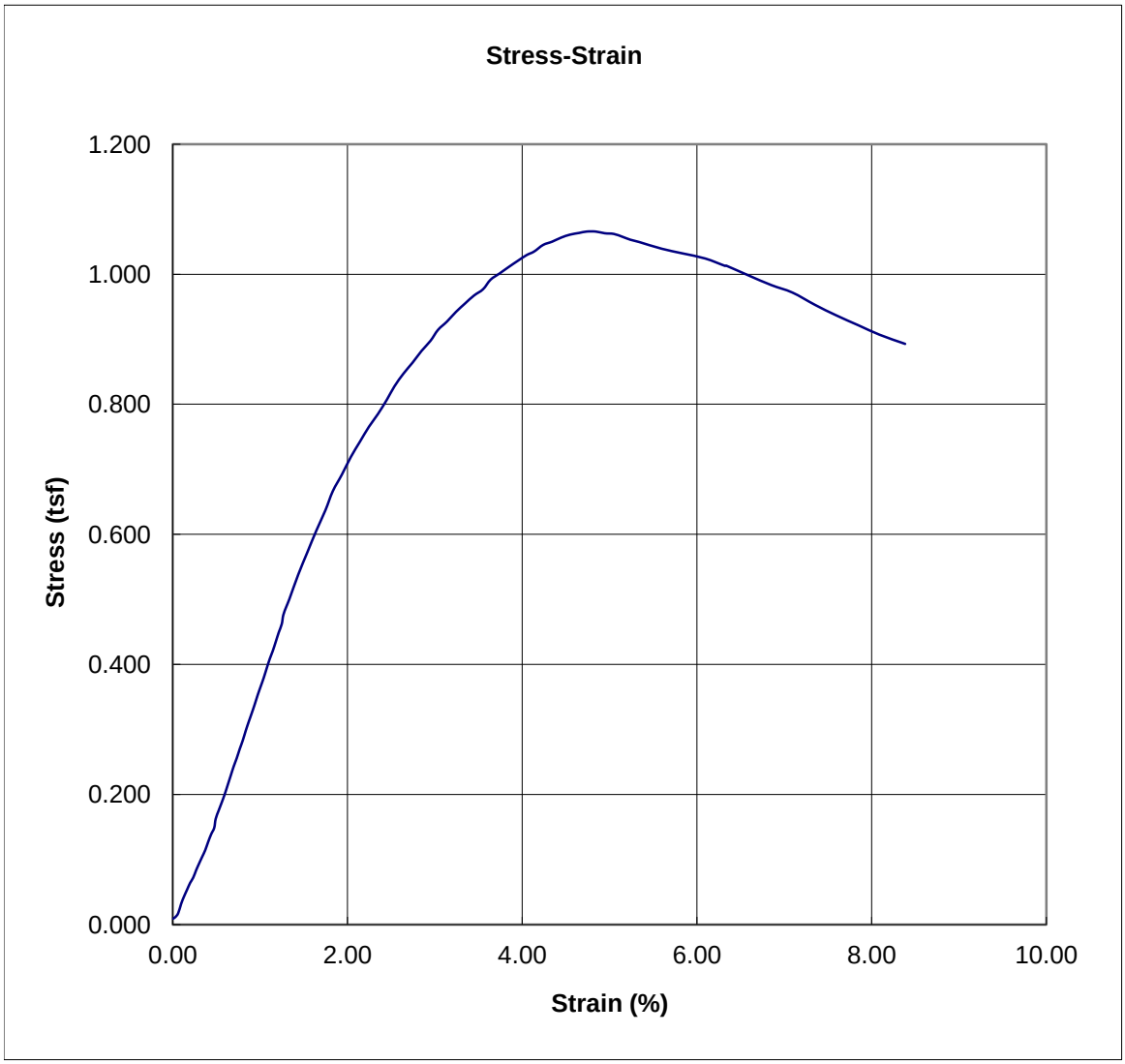
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	1:29:50 PM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.87	**Height (inch):**	5.9
Piston Correction (lbs):	1.177163503		
Failure:	Bulge		



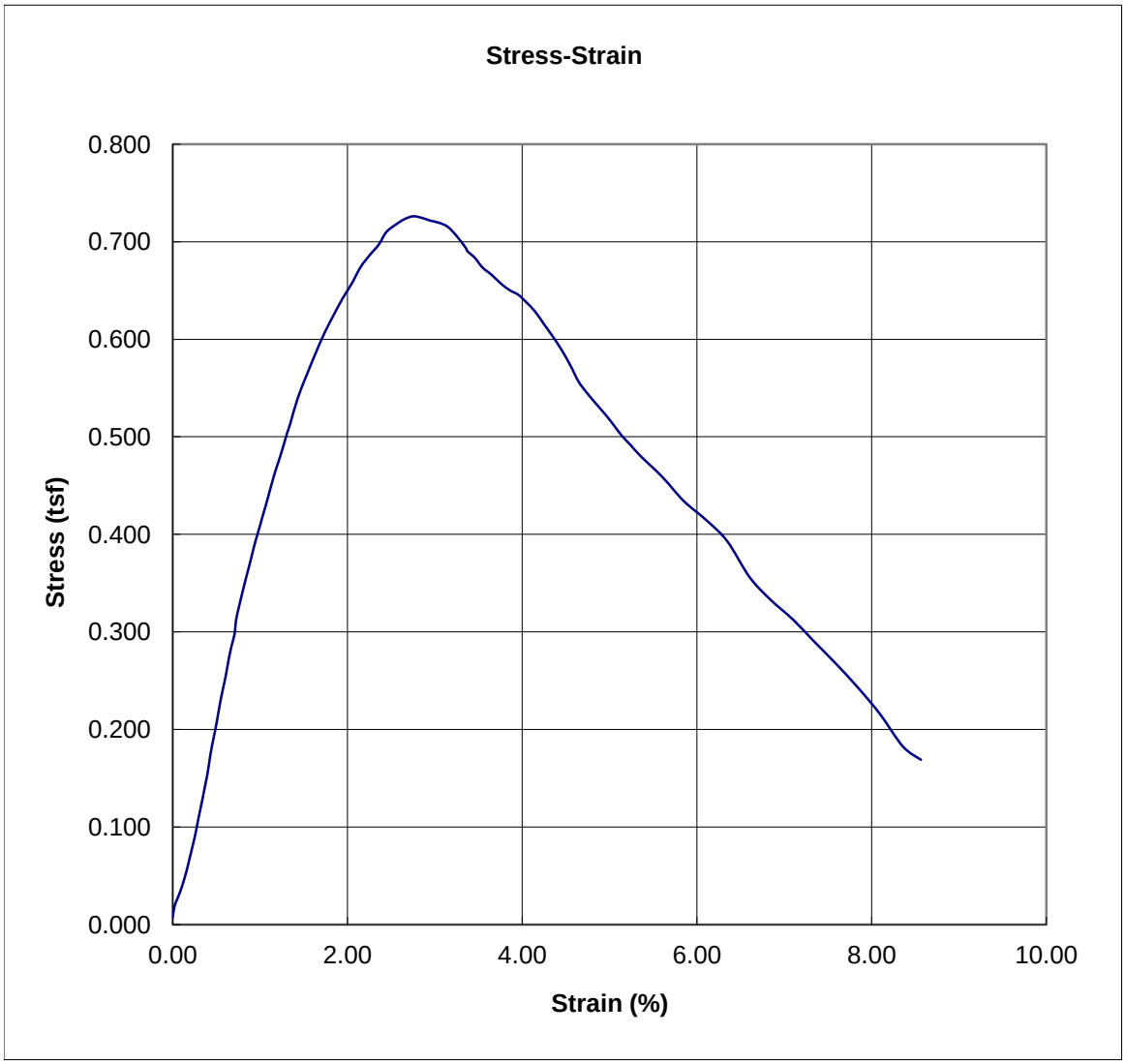
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	9:33:49 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.83	**Height (inch):**	6.02
Failure:	Yield		



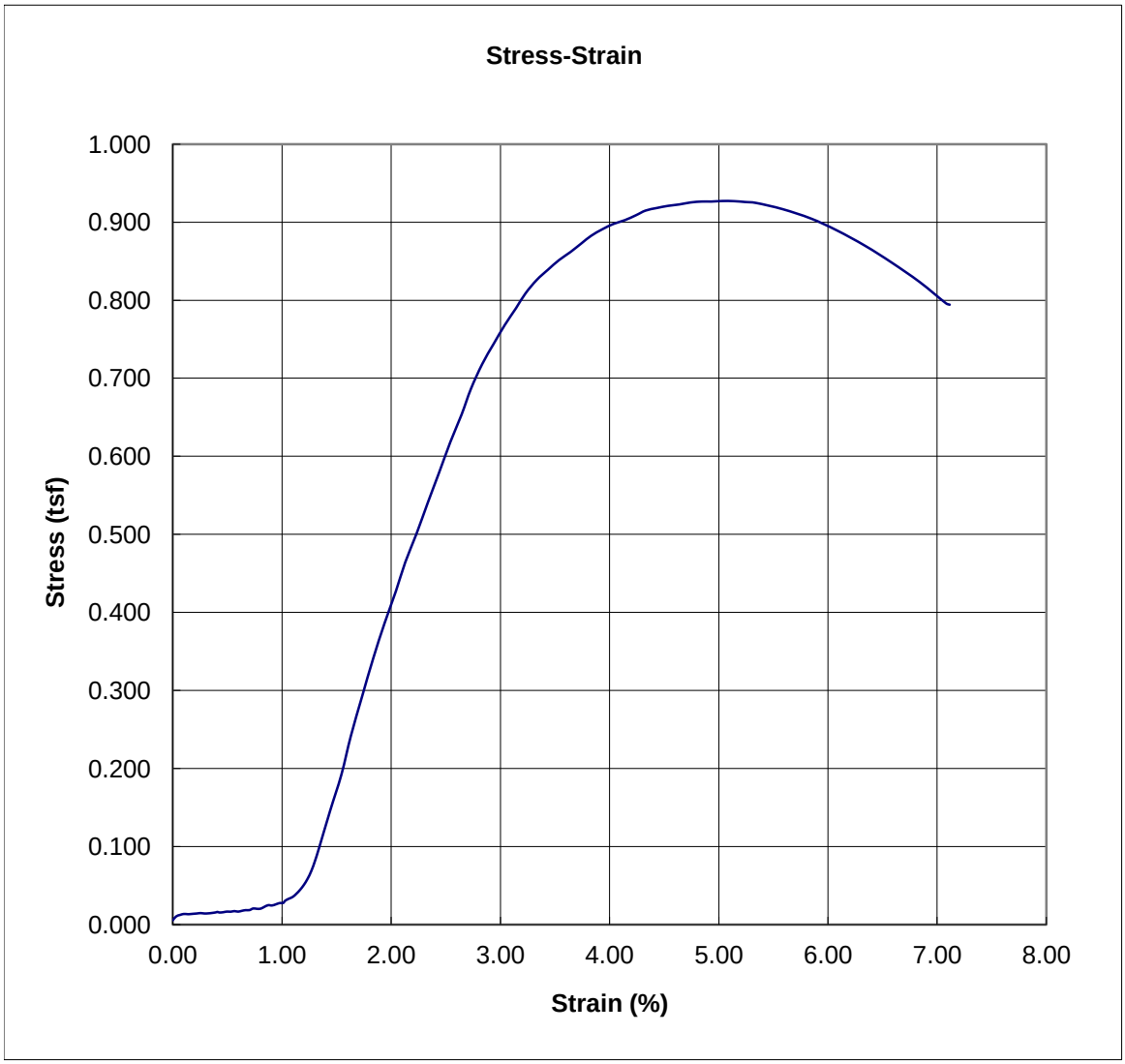
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/26/2011	**Time:**	10:04:07 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.83	**Height (inch):**	5.03
Failure:	Multiple Shear		



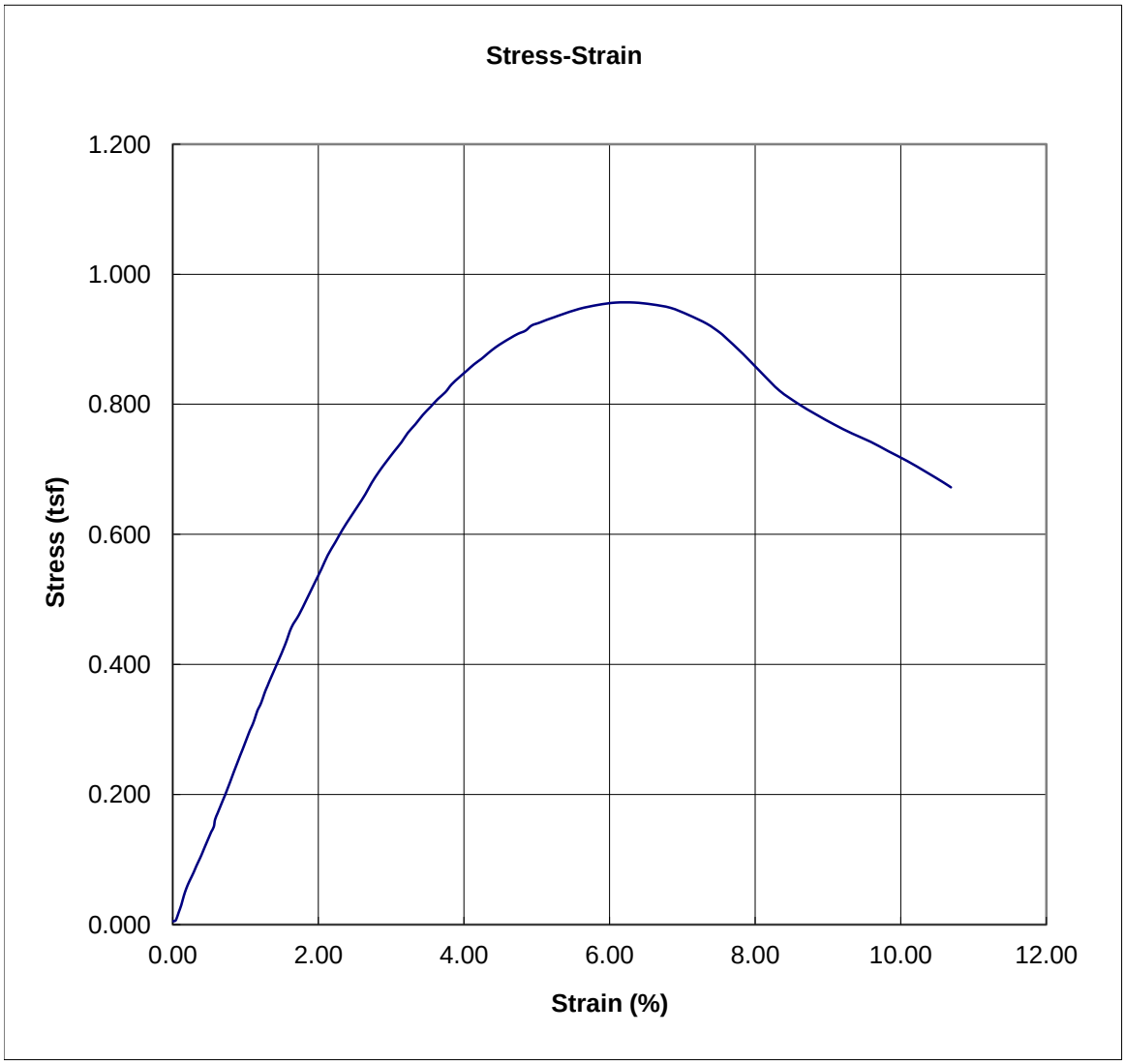
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	10:28:49 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.83	**Height (inch):**	6.03
Failure:	Multiple Shear		



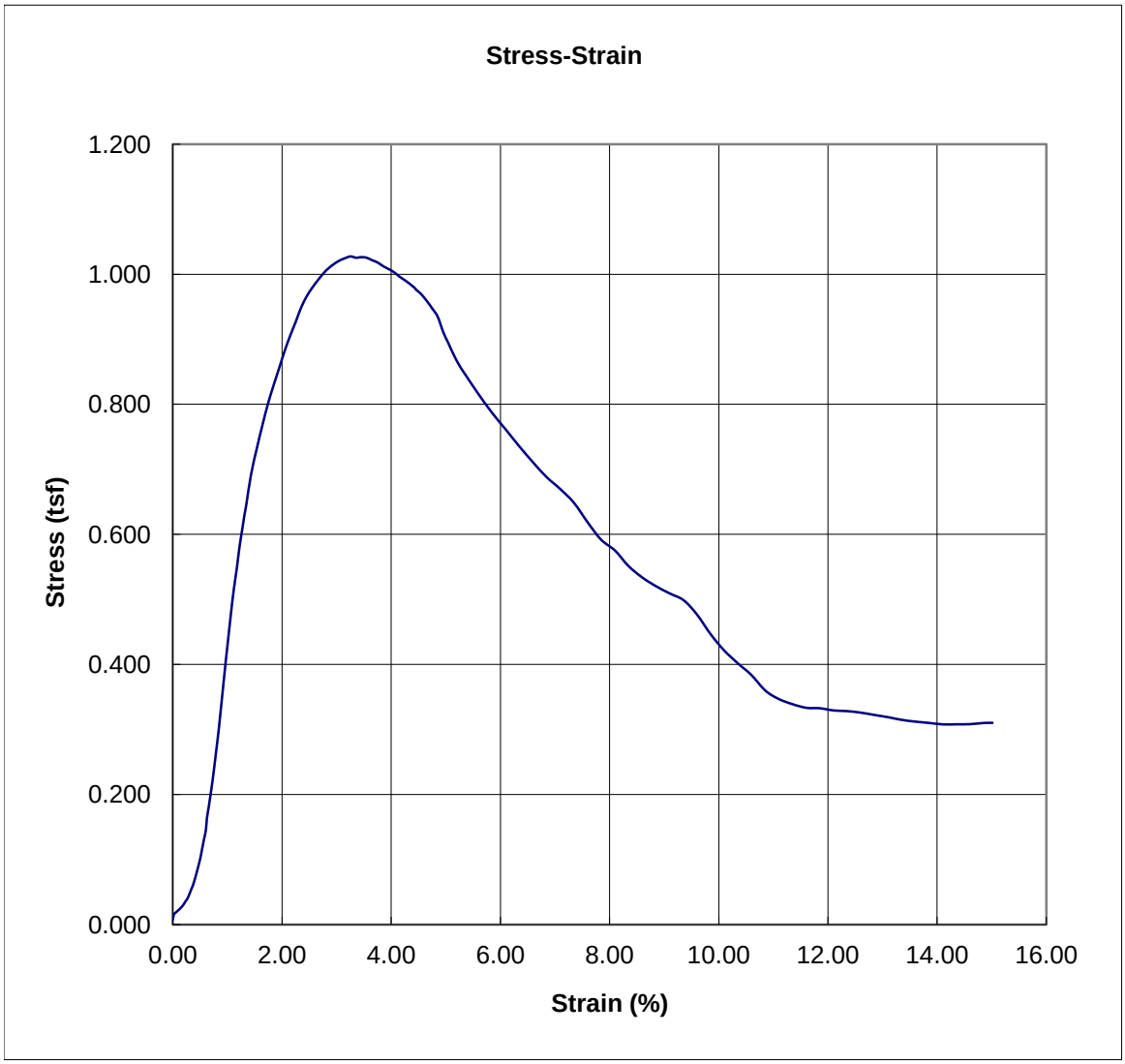
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	11:02:03 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.85	**Height (inch):**	6
Failure:	SLS		



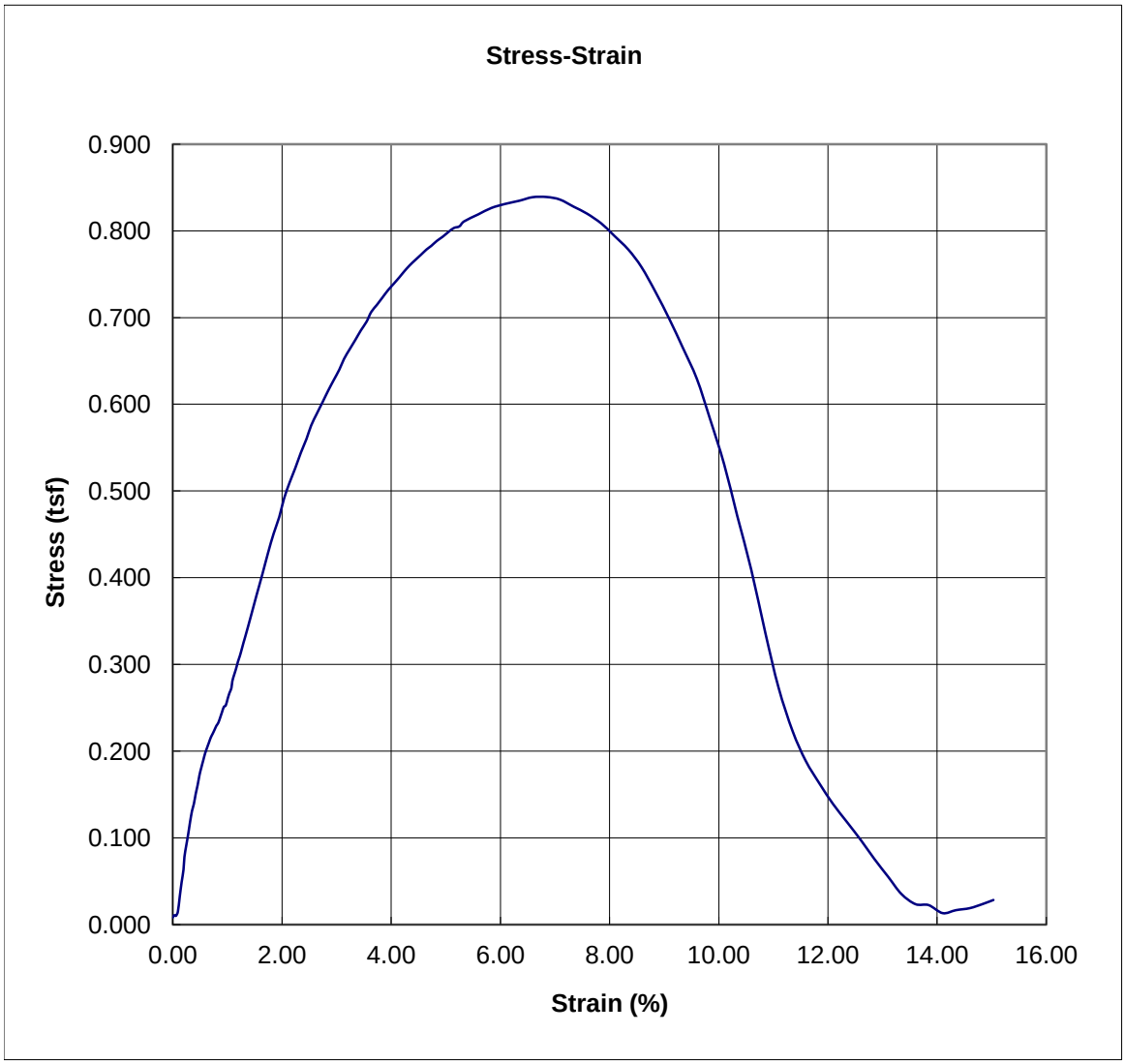
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	1:59:48 PM
Boring:	6-Remold	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.85	**Height (inch):**	6
Comments:	Remold		



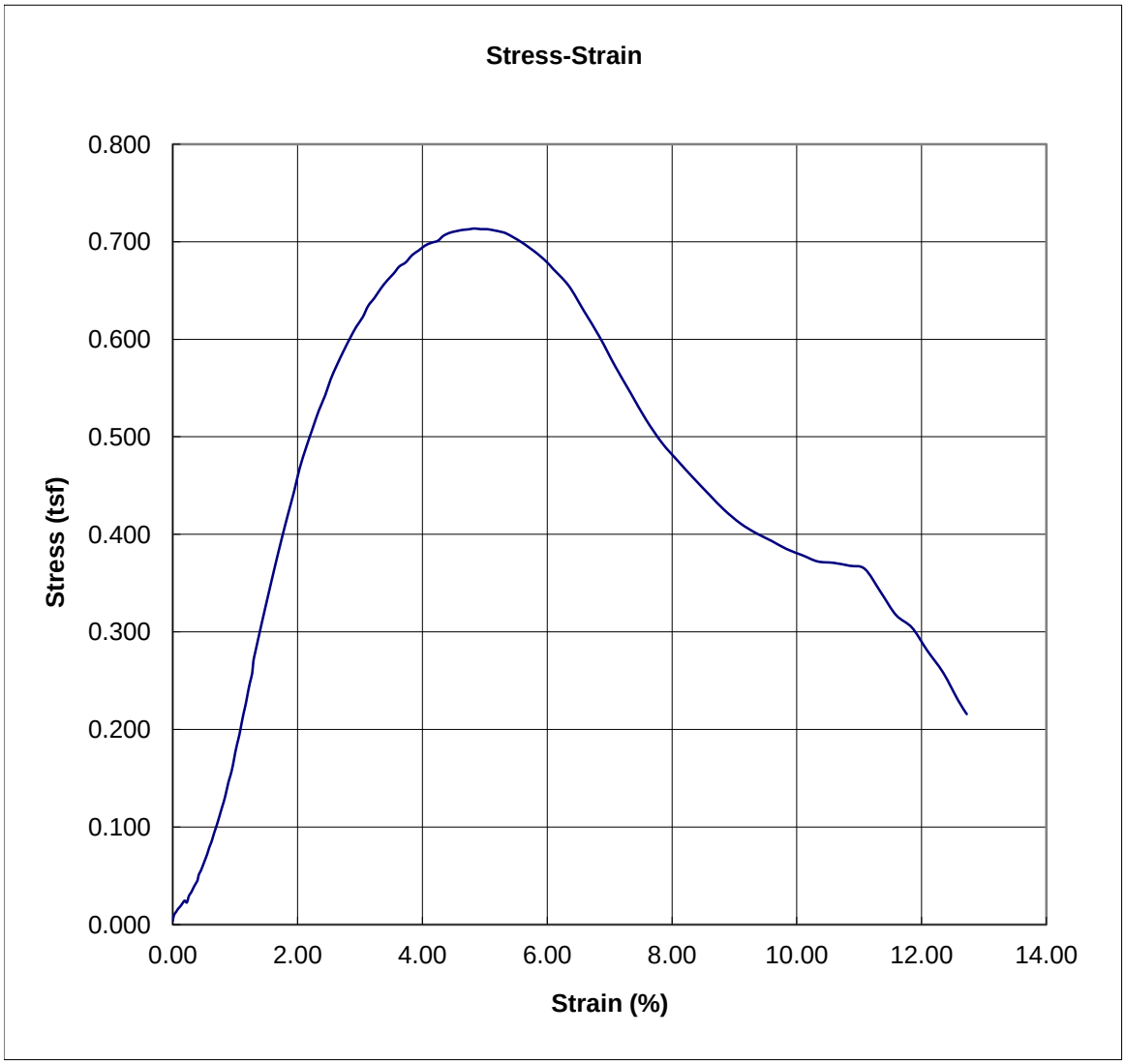
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	11:20:23 AM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.84	**Height (inch):**	6.02
Failure:	SLS		



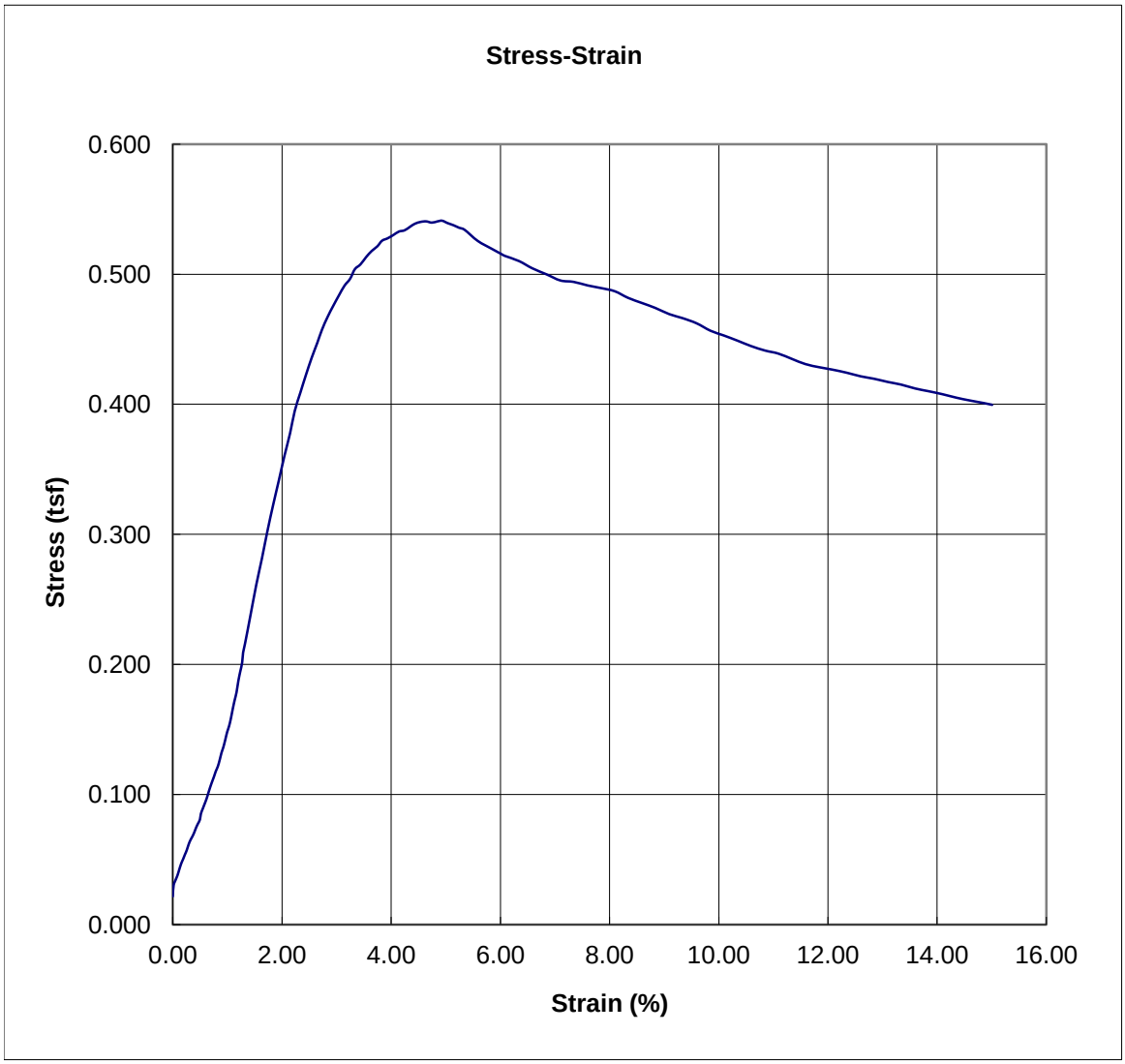
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	1:32:02 PM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	49
Diameter (inch):	2.85	**Height (inch):**	6.02
Failure:	Multiple Shear		



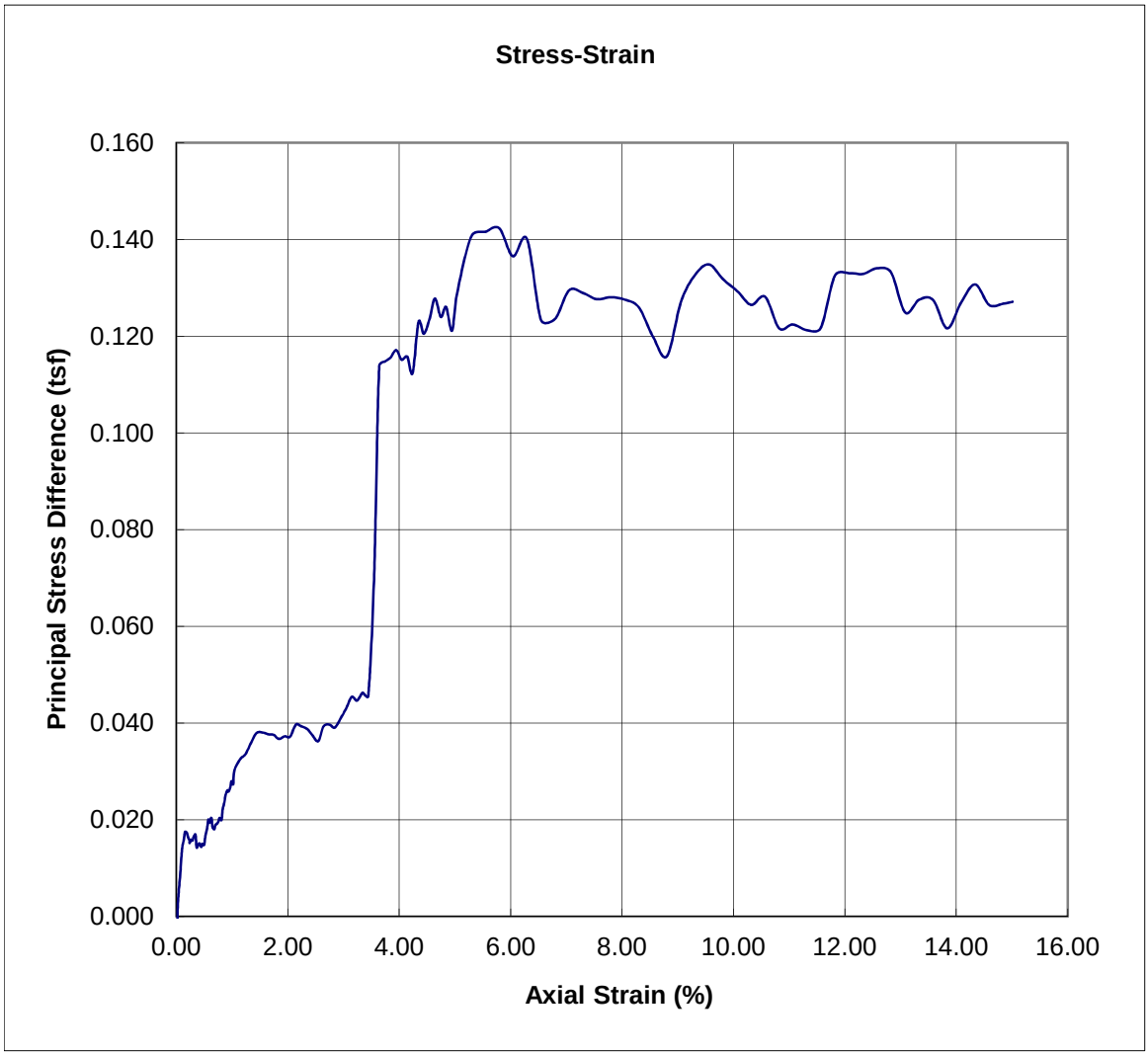
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	2:27:10 PM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	54
Diameter (inch):	2.83	**Height (inch):**	6.01
Failure:	Multiple Shear		



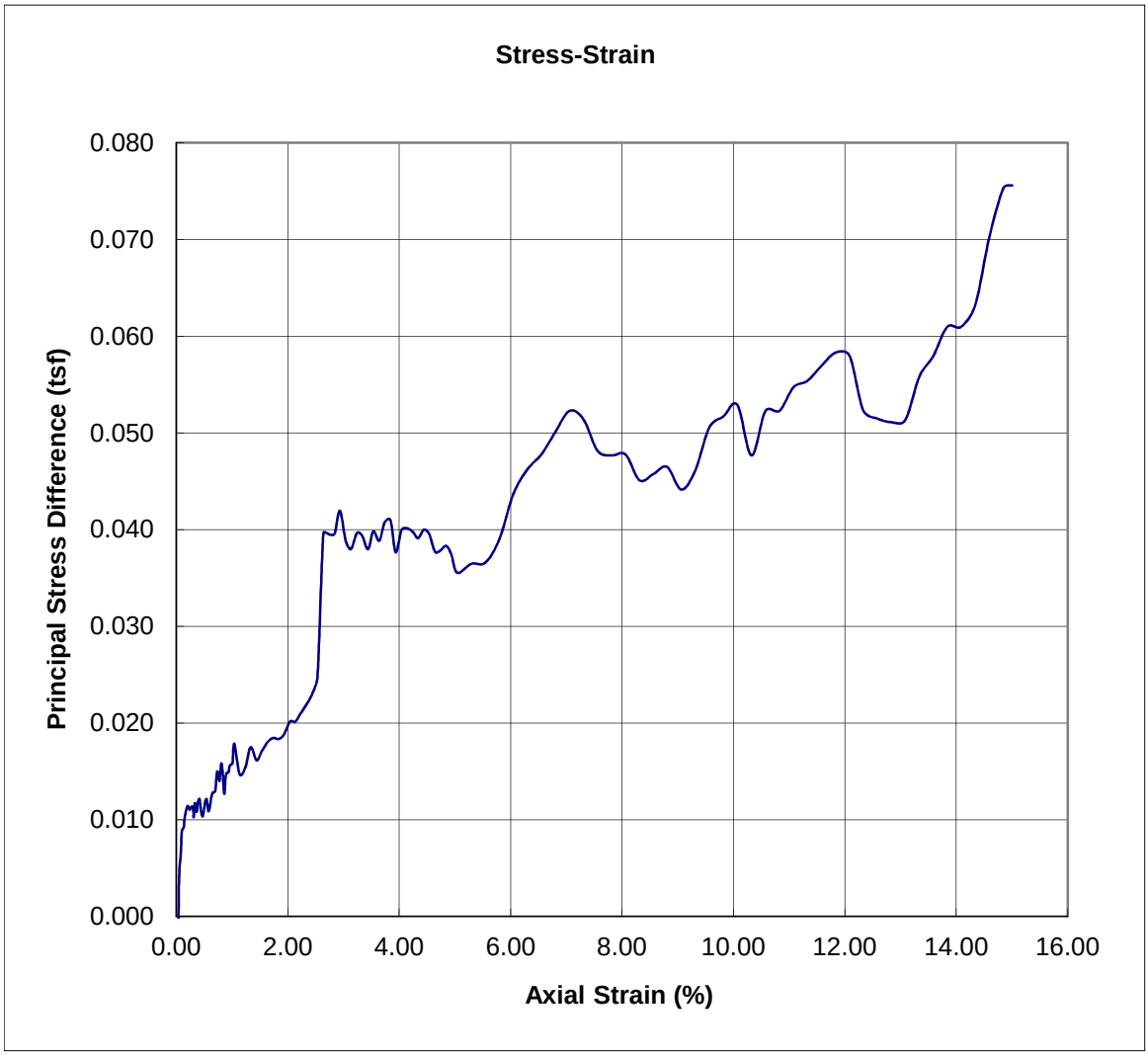
Project:	16715-023-00	**Load Frame Name**	Load Frame
Date:	9/26/2011	**Time:**	3:01:40 PM
Boring:	6	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	64
Diameter (inch):	2.86	**Height (inch):**	6.02
Failure:	Multiple Shear		



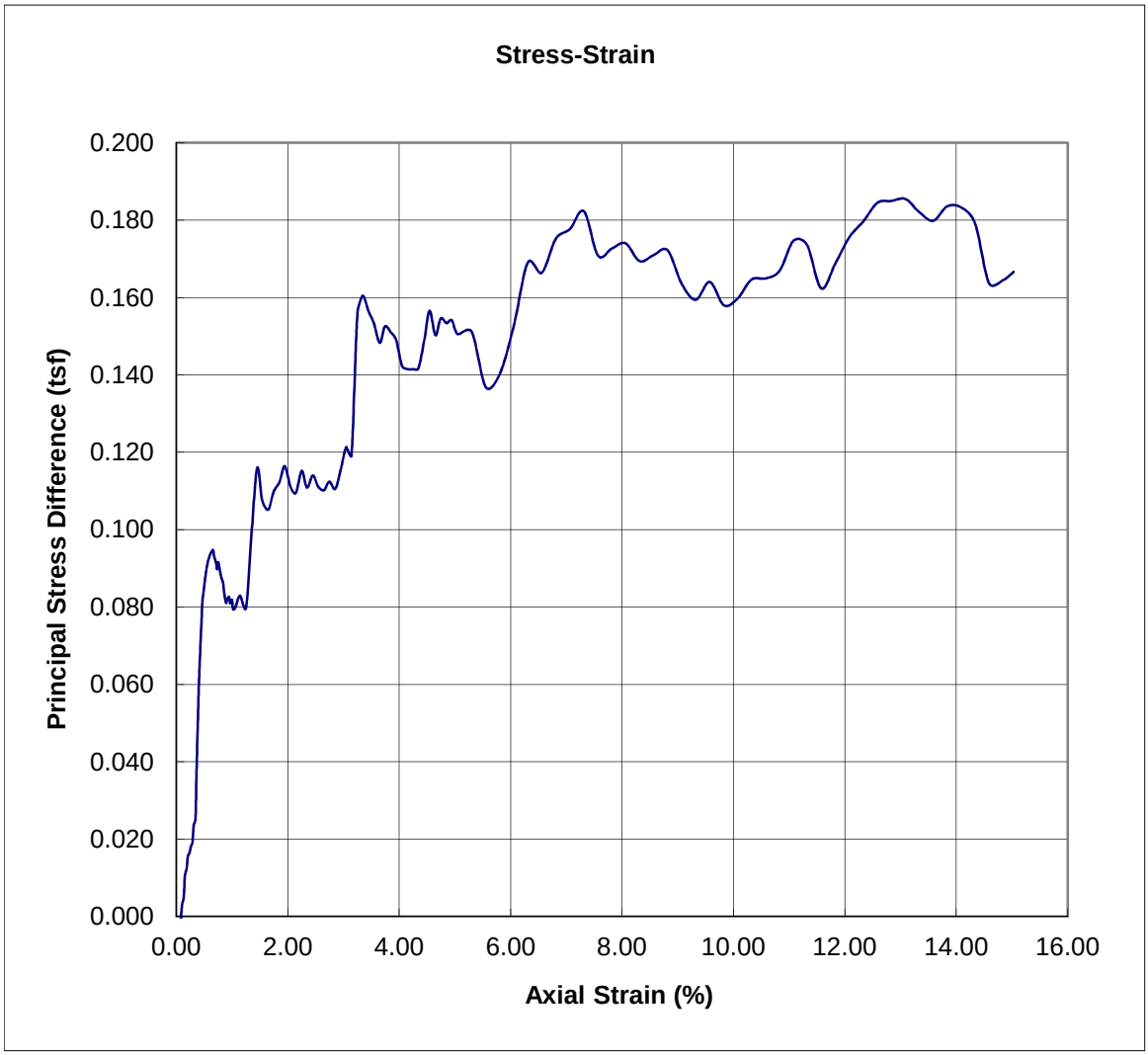
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	2:12:08 PM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	12
Diameter (inch):	2.85	**Height (inch):**	5.5
Piston Correction (lbs):	0.555996385		
Failure:	Bulge		



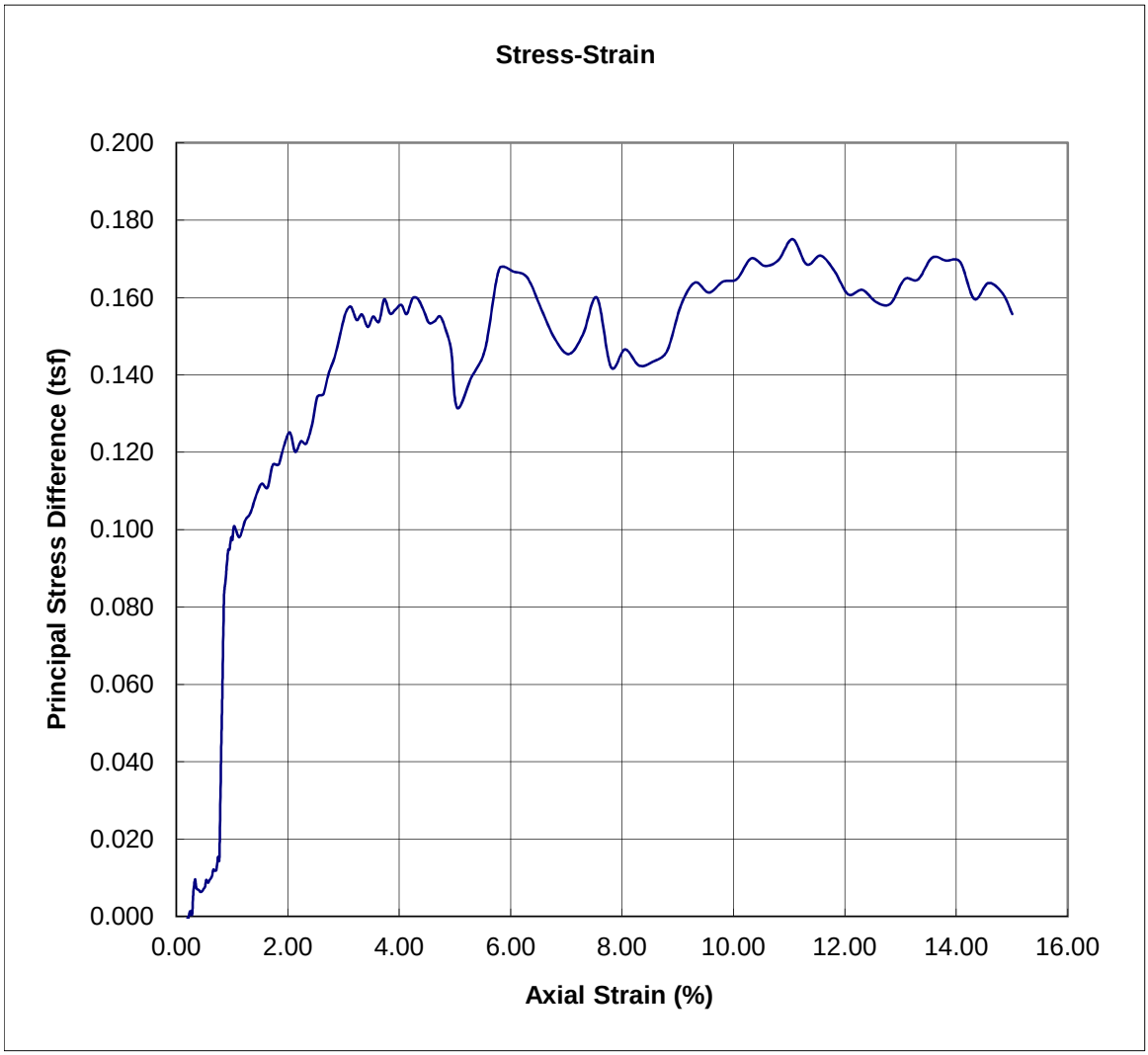
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	2:54:02 PM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.87	**Height (inch):**	5
Piston Correction (lbs):	0.871882386		
Faillure:	Yield		



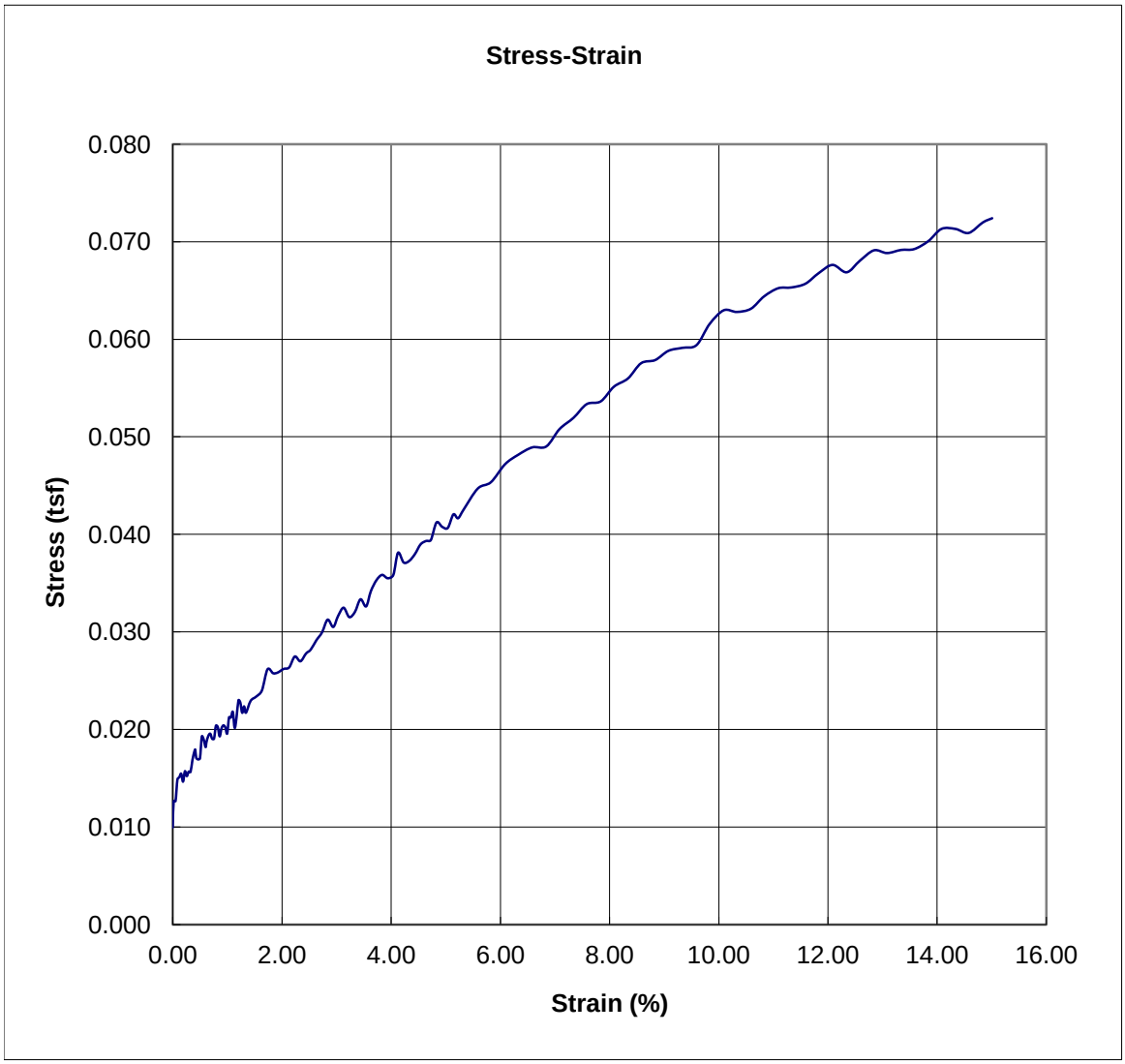
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	3:31:40 PM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.76	**Height (inch):**	5.3
Piston Correction (lbs):	1.014415746		
Failure:	Bulge		



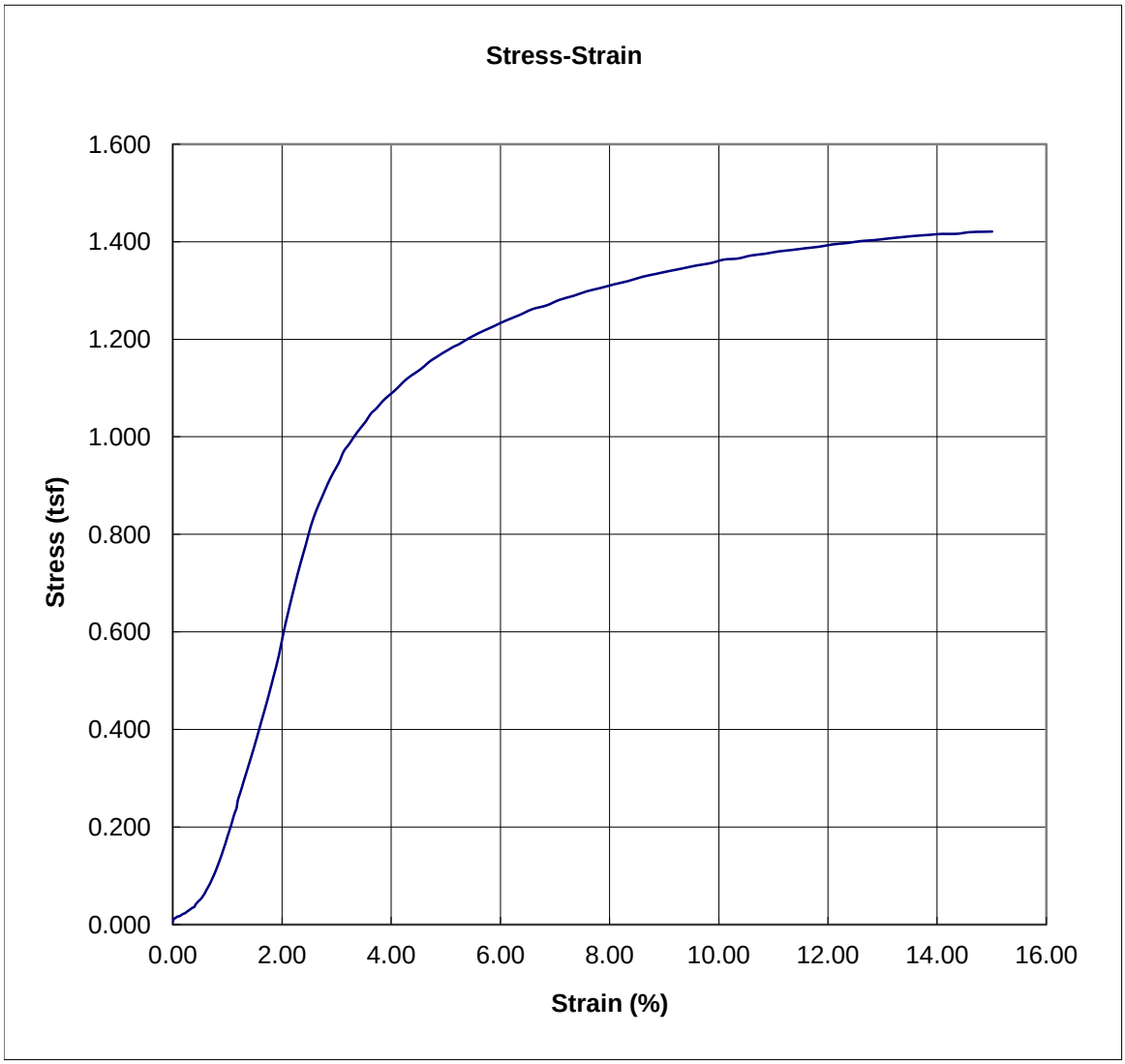
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	4:11:38 PM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.9	**Height (inch):**	5.6
Piston Correction (lbs):	1.335604189		
Failure:	Bulge		



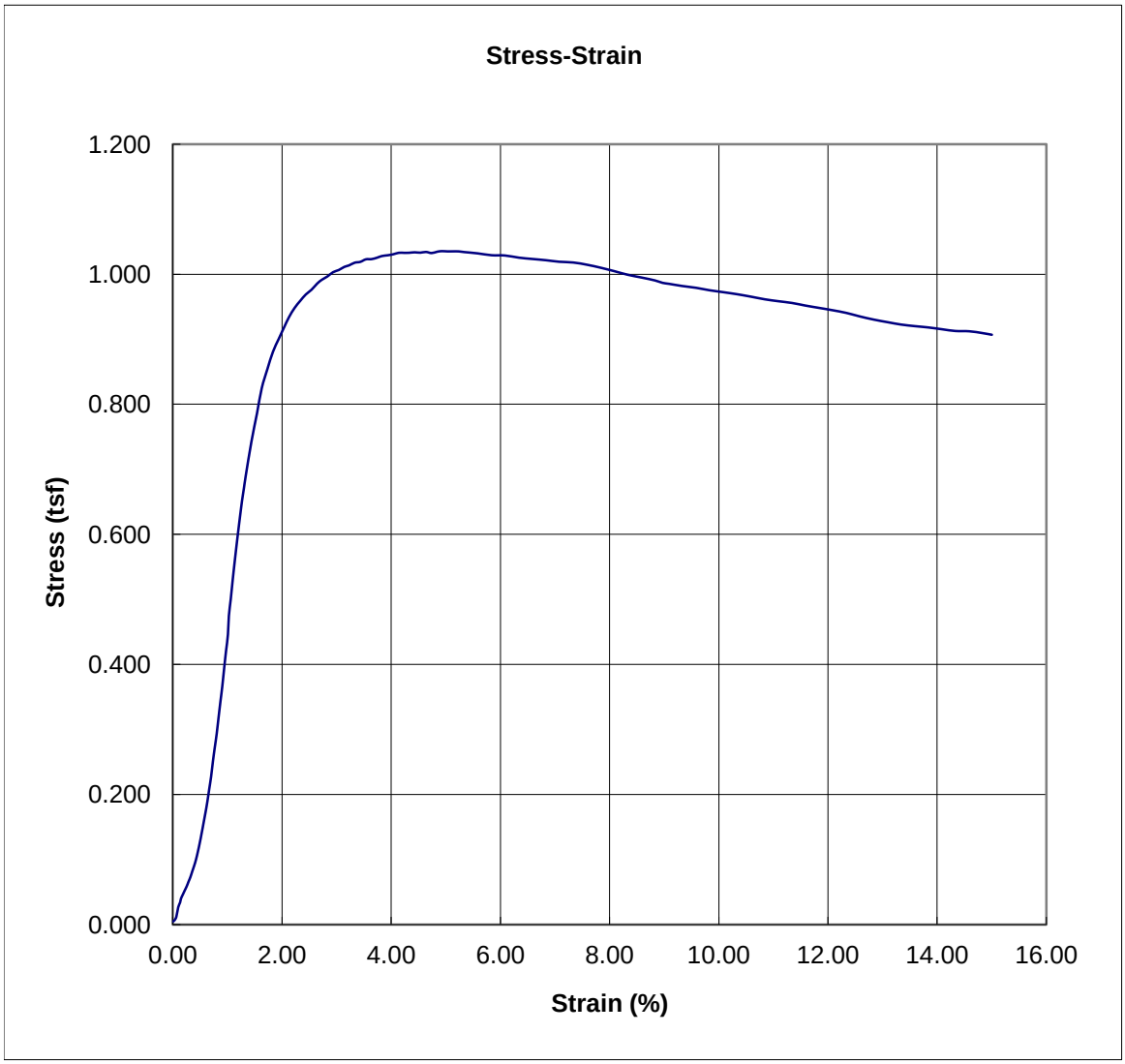
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	9:25:52 AM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	24
Diameter (inch):	2.75	**Height (inch):**	4.62
Failure:	Yield		



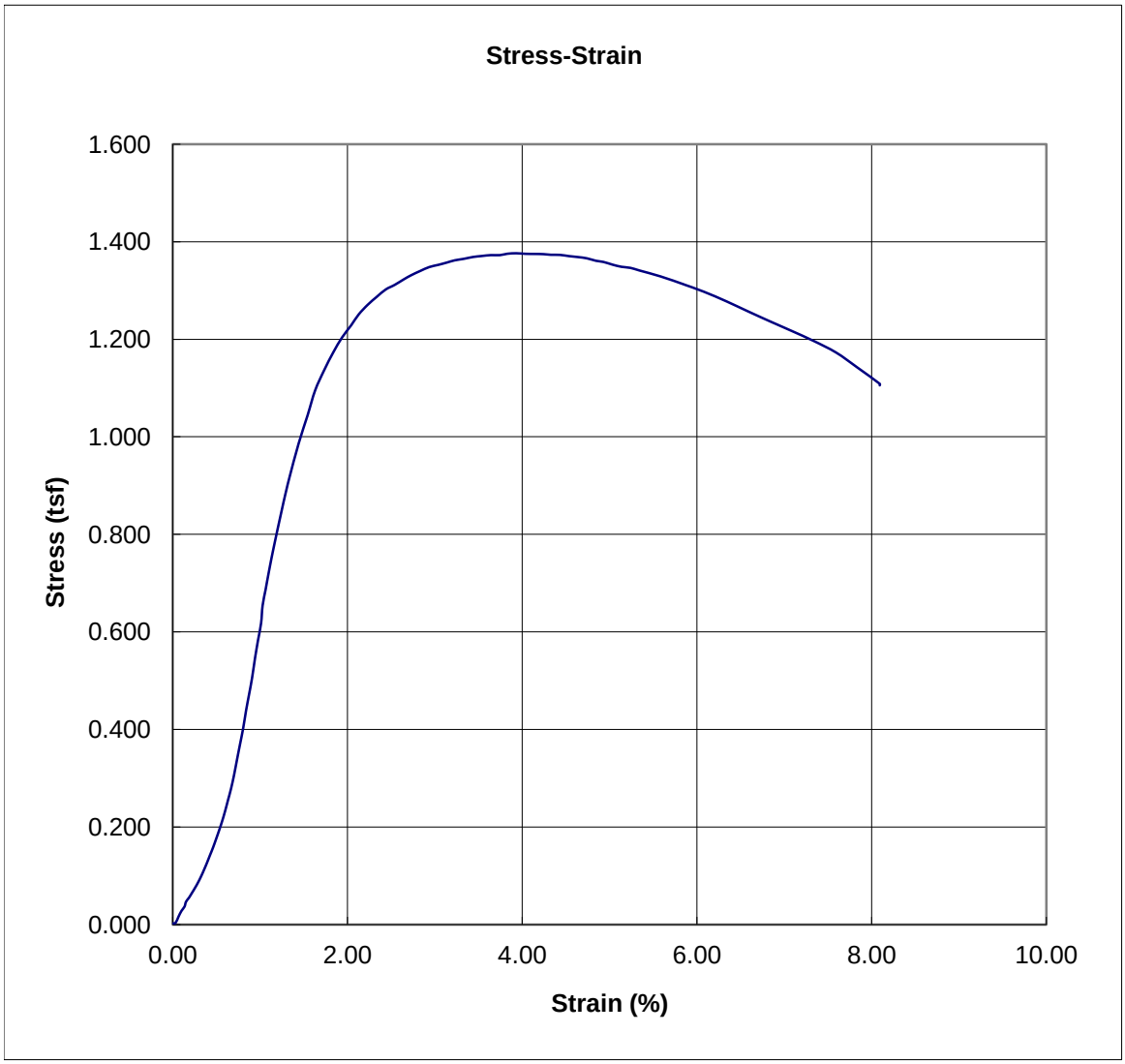
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/26/2011	**Time:**	4:36:36 PM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.82	**Height (inch):**	6.01
Failure:	Yield		



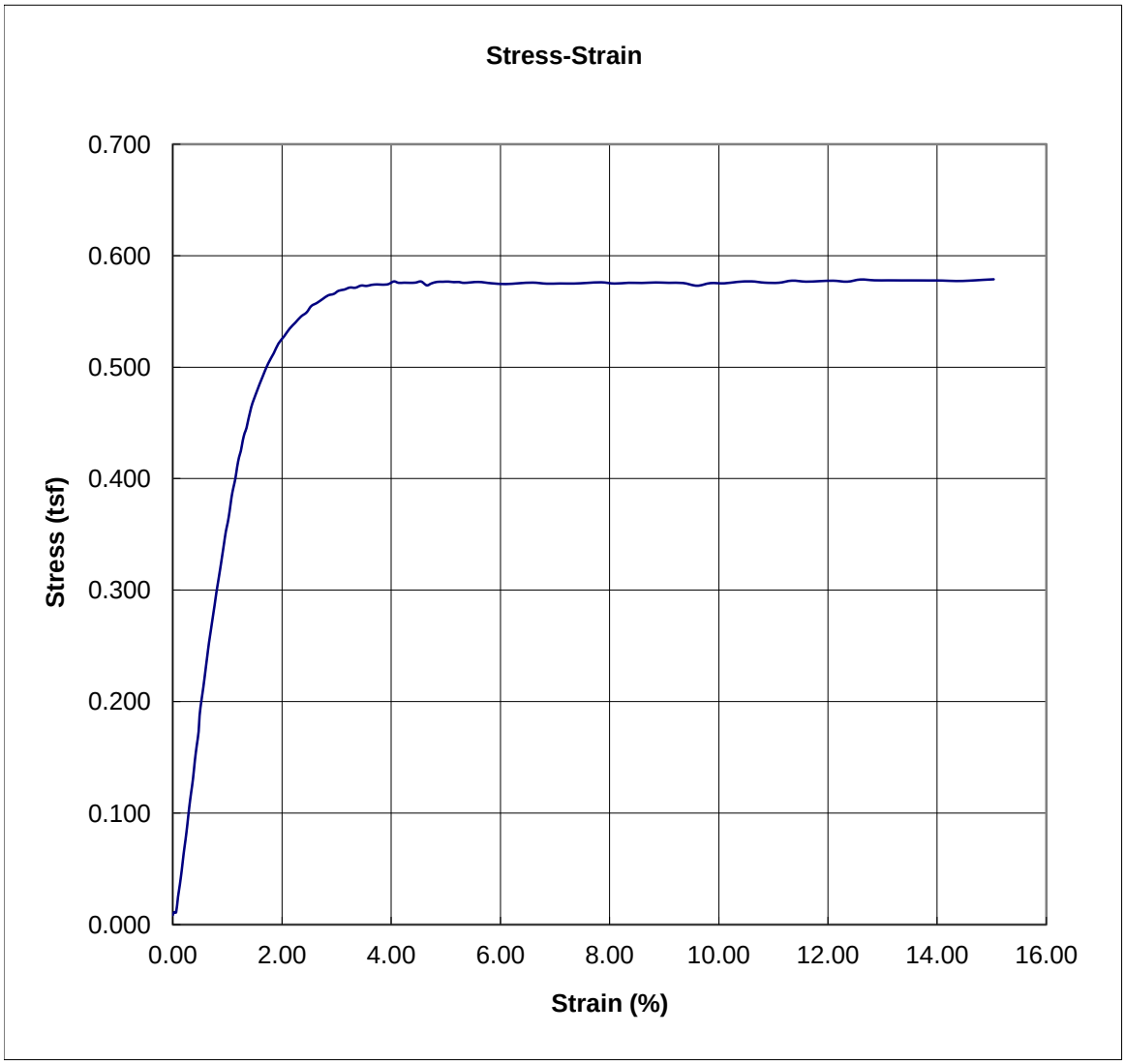
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	9:54:53 AM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	34
Diameter (inch):	2.82	**Height (inch):**	5.4
Failure:	Multiple Shear		



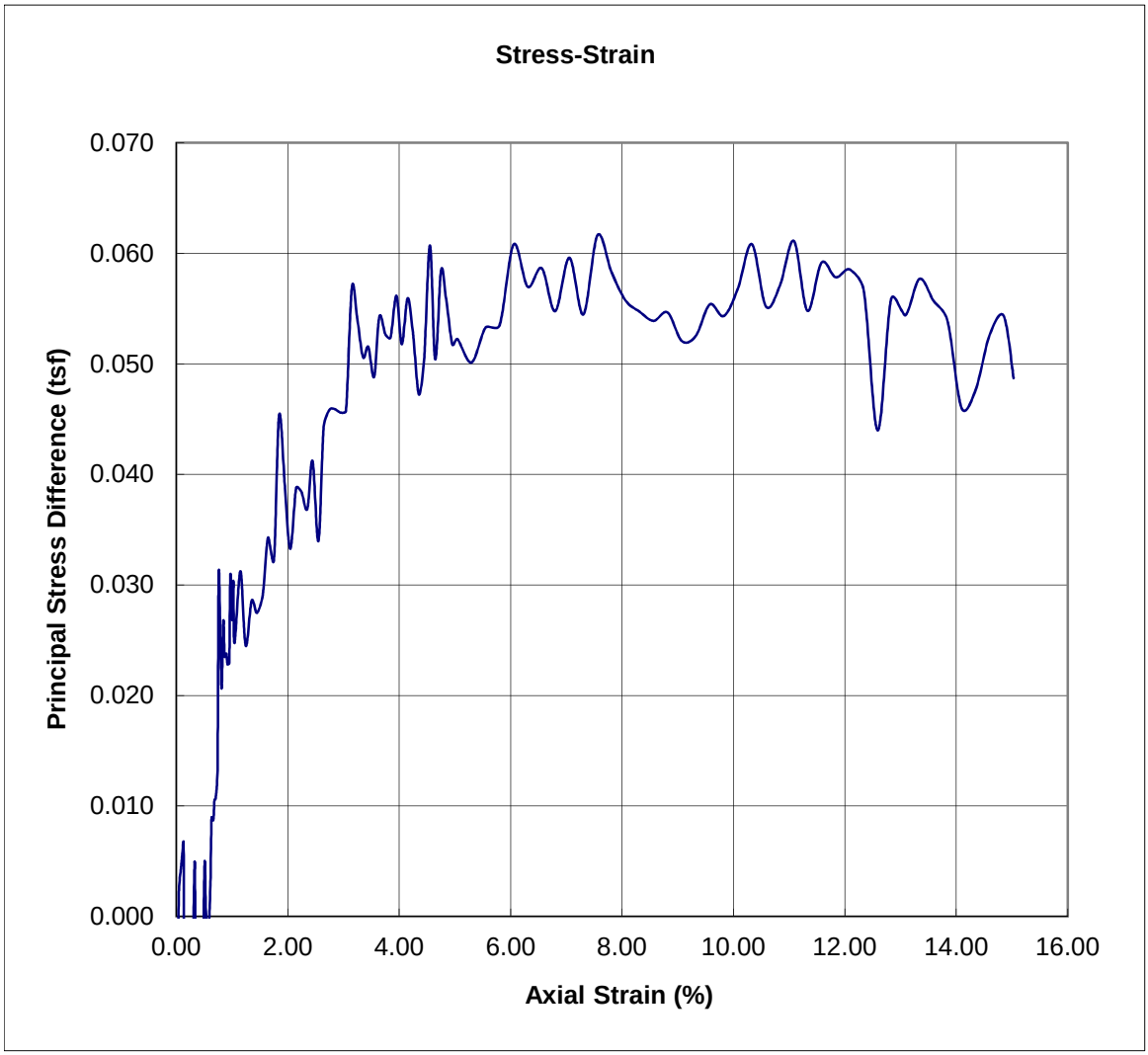
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	10:15:42 AM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.83	**Height (inch):**	6.01
Failure:	Multiple Shear		



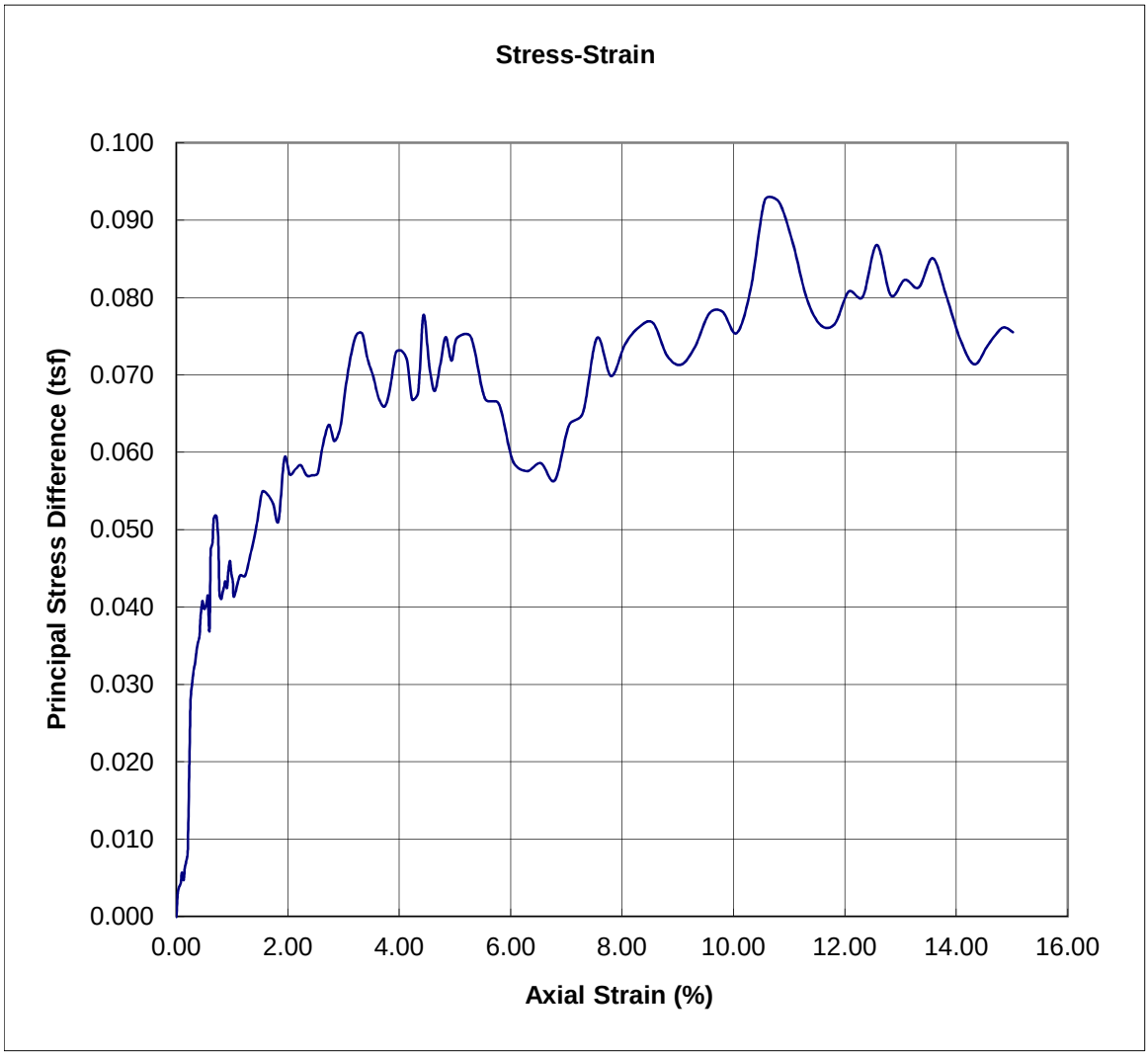
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	10:38:20 AM
Boring:	7	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.86	**Height (inch):**	5.43
Failure:	Yield		



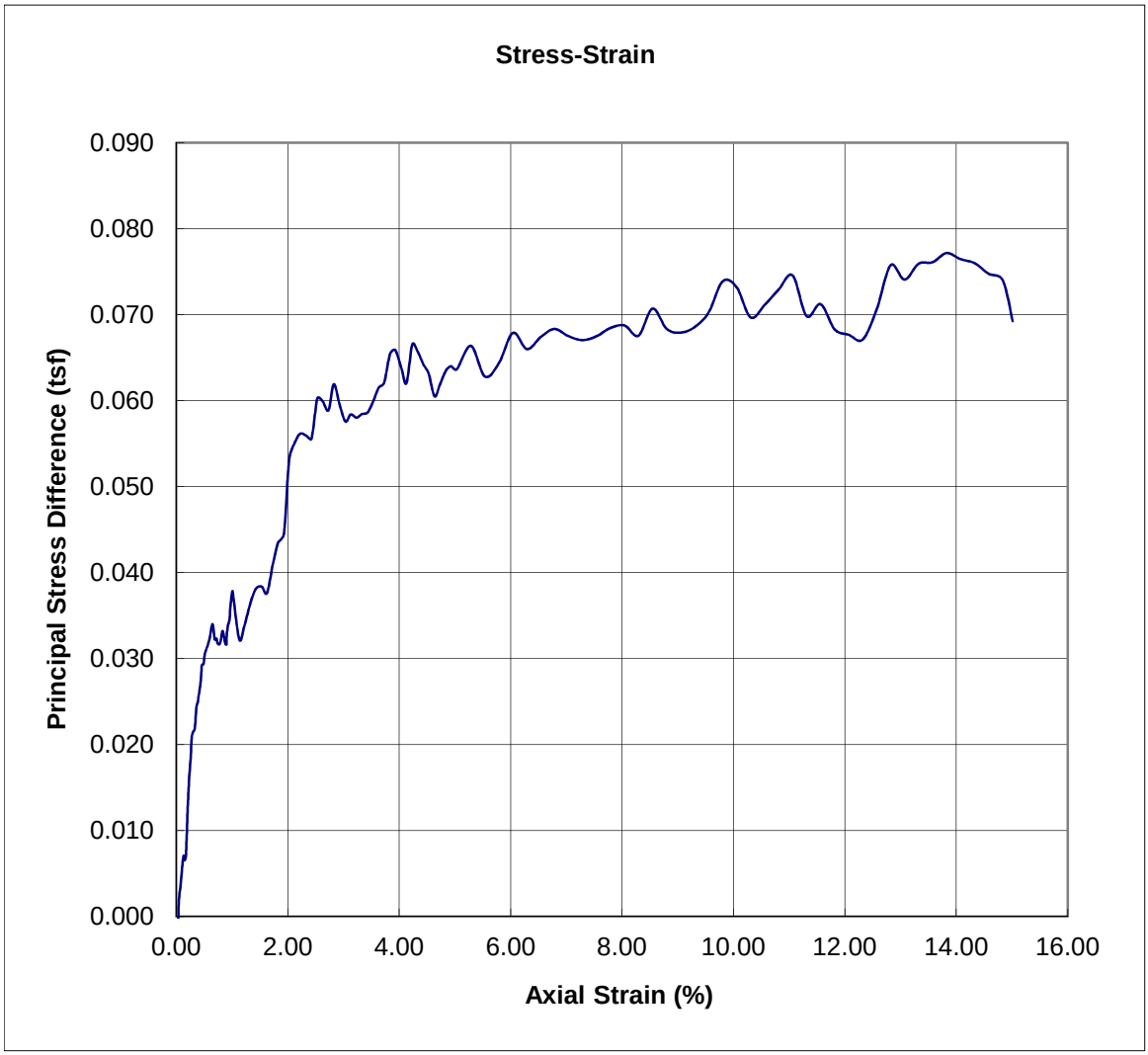
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	4:23:50 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	6
Diameter (inch):	2.86	**Height (inch):**	5.7
Piston Correction (lbs):	0.1167914		
Failure:	Bulge		



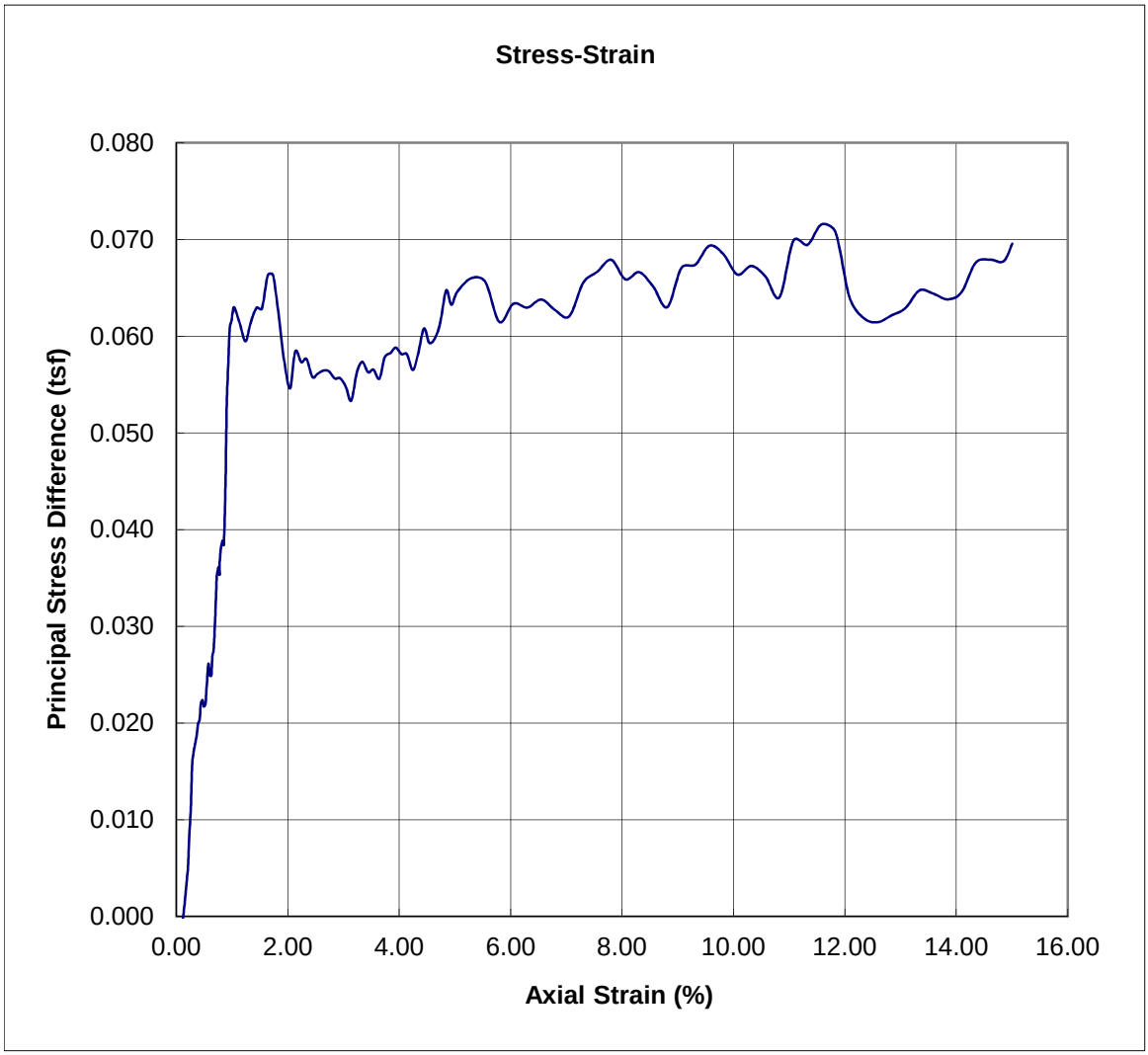
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	8:46:13 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	8
Diameter (inch):	2.85	**Height (inch):**	5.5
Piston Correction (lbs):	0.226724044		
Failure:	Bulge		



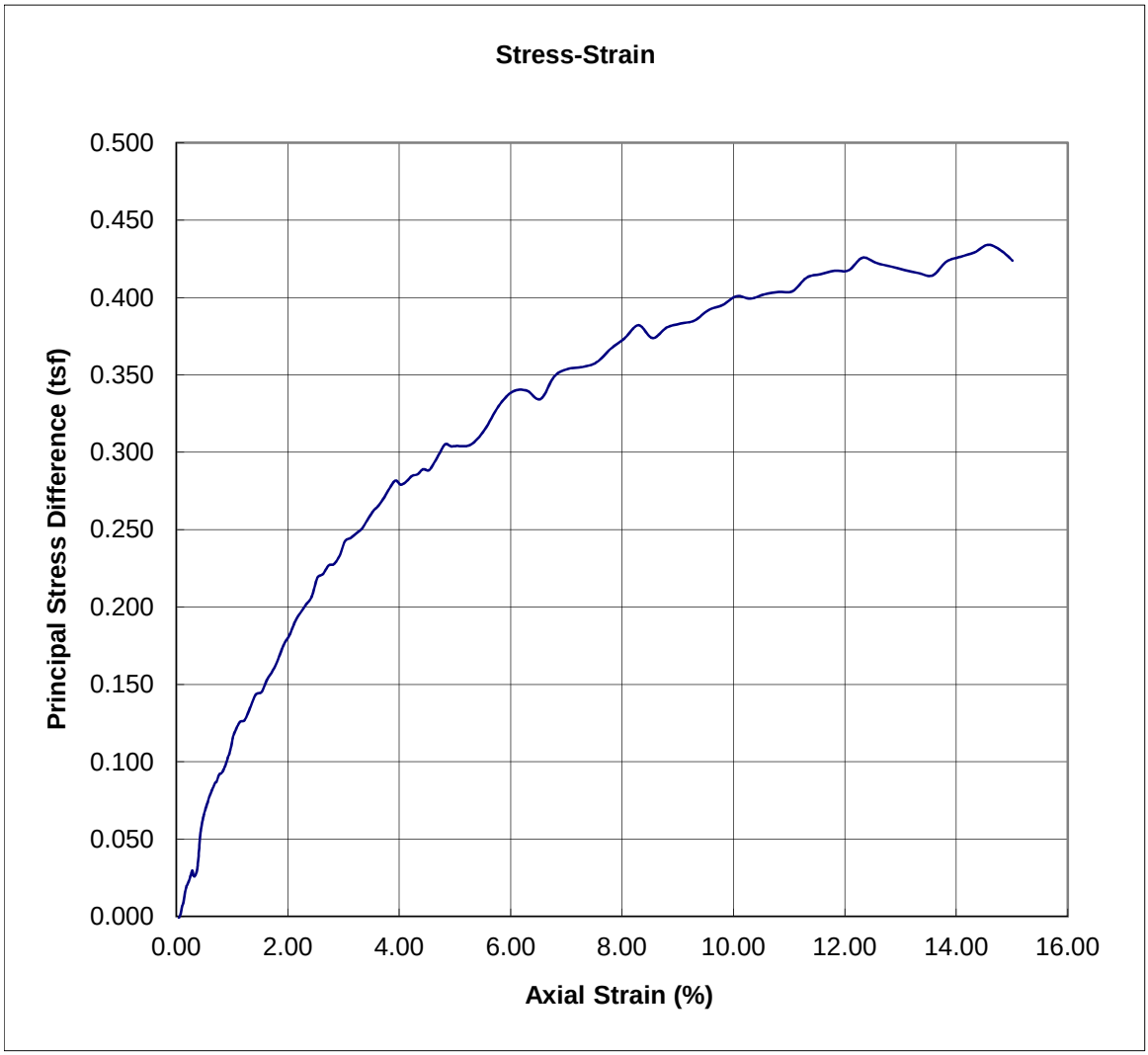
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	9:34:37 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	10
Diameter (inch):	2.8	**Height (inch):**	5.9
Piston Correction (lbs):	0.384067032		
Failure:	Bulge		



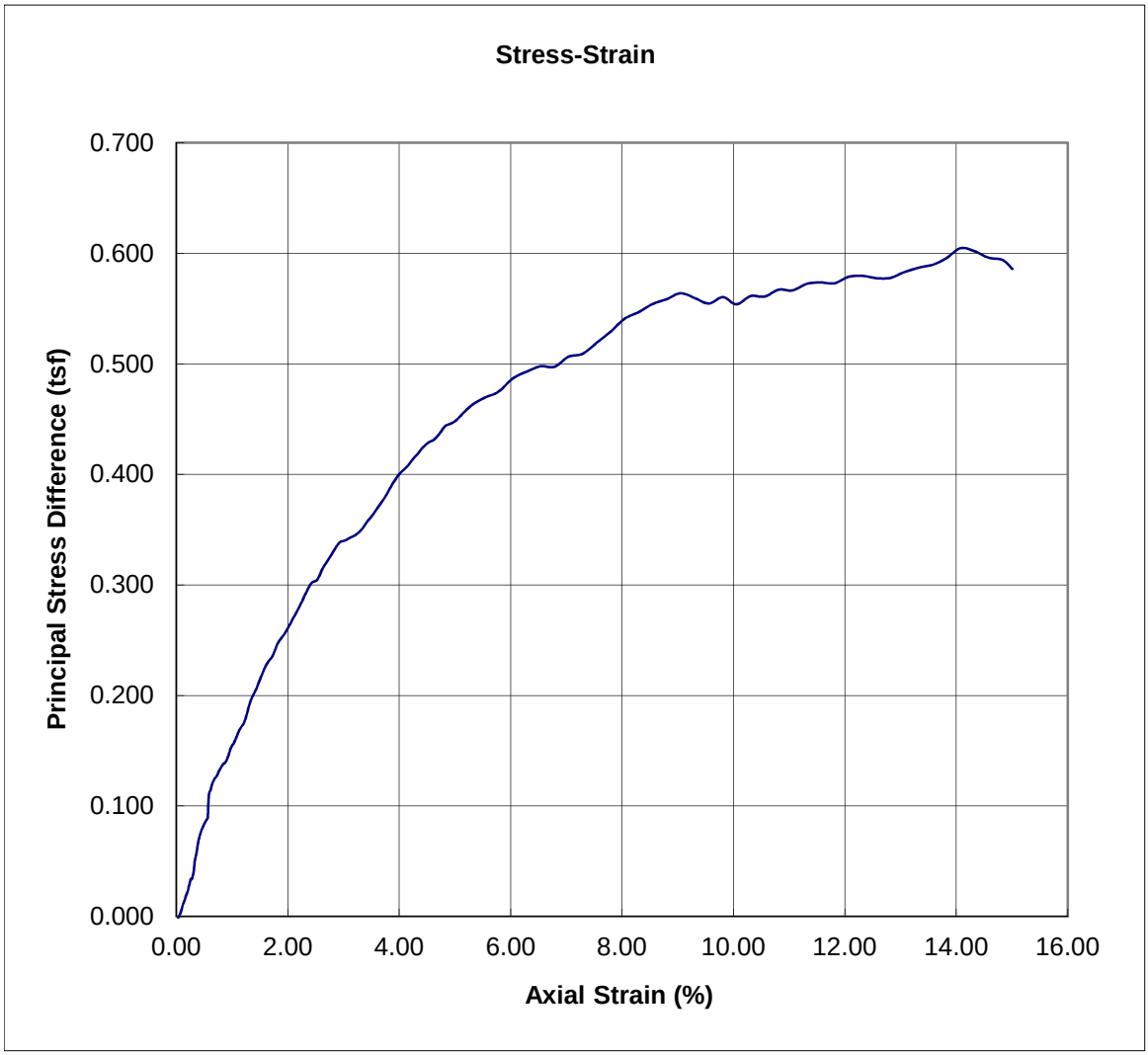
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	10:17:59 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	12
Diameter (inch):	2.85	**Height (inch):**	4.5
Piston Correction (lbs):	0.549731132		
Failure:	Bulge		



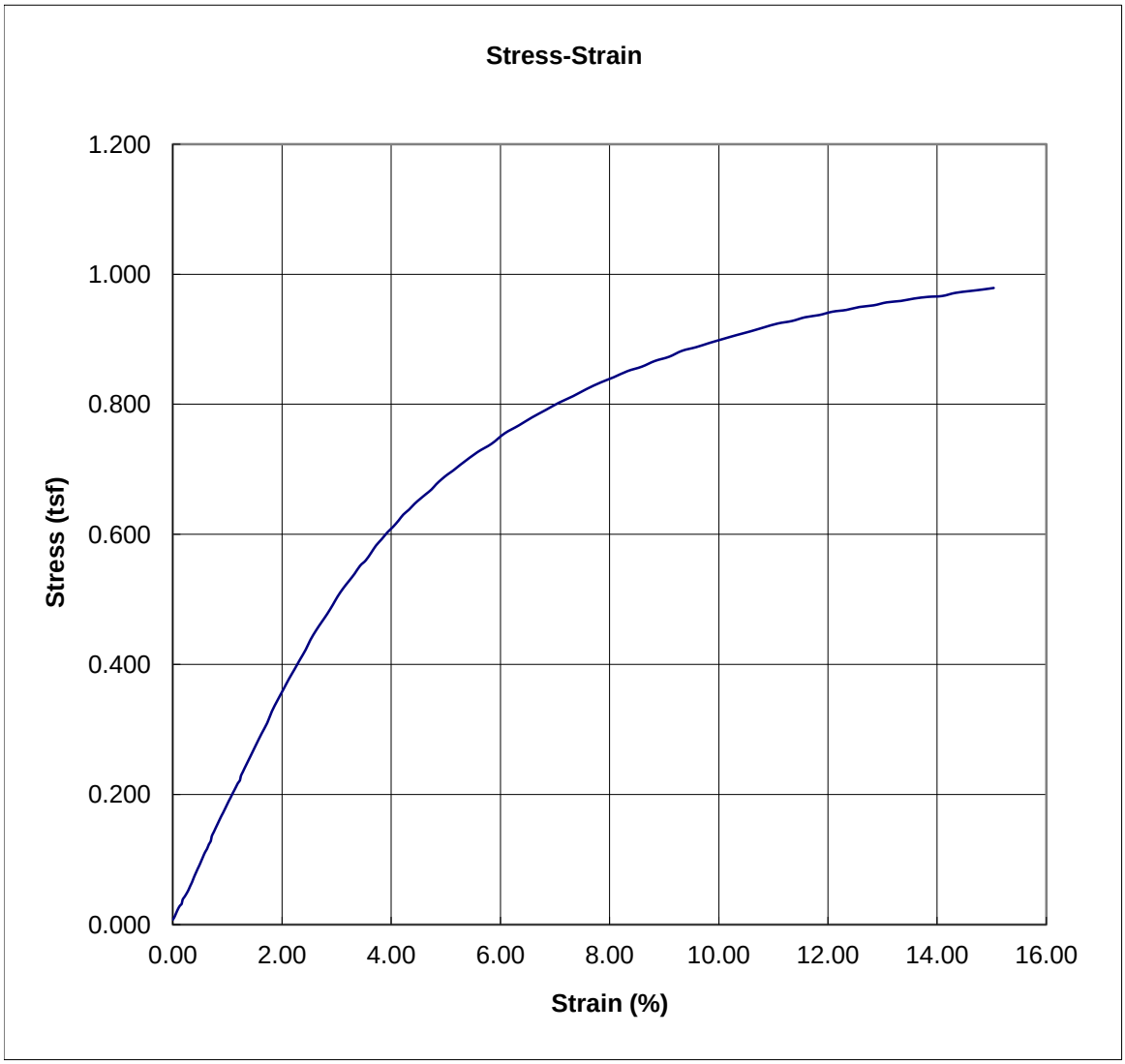
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	11:03:35 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	14
Diameter (inch):	2.86	**Height (inch):**	5.9
Piston Correction (lbs):	0.705785719		
Failure:	Yield		



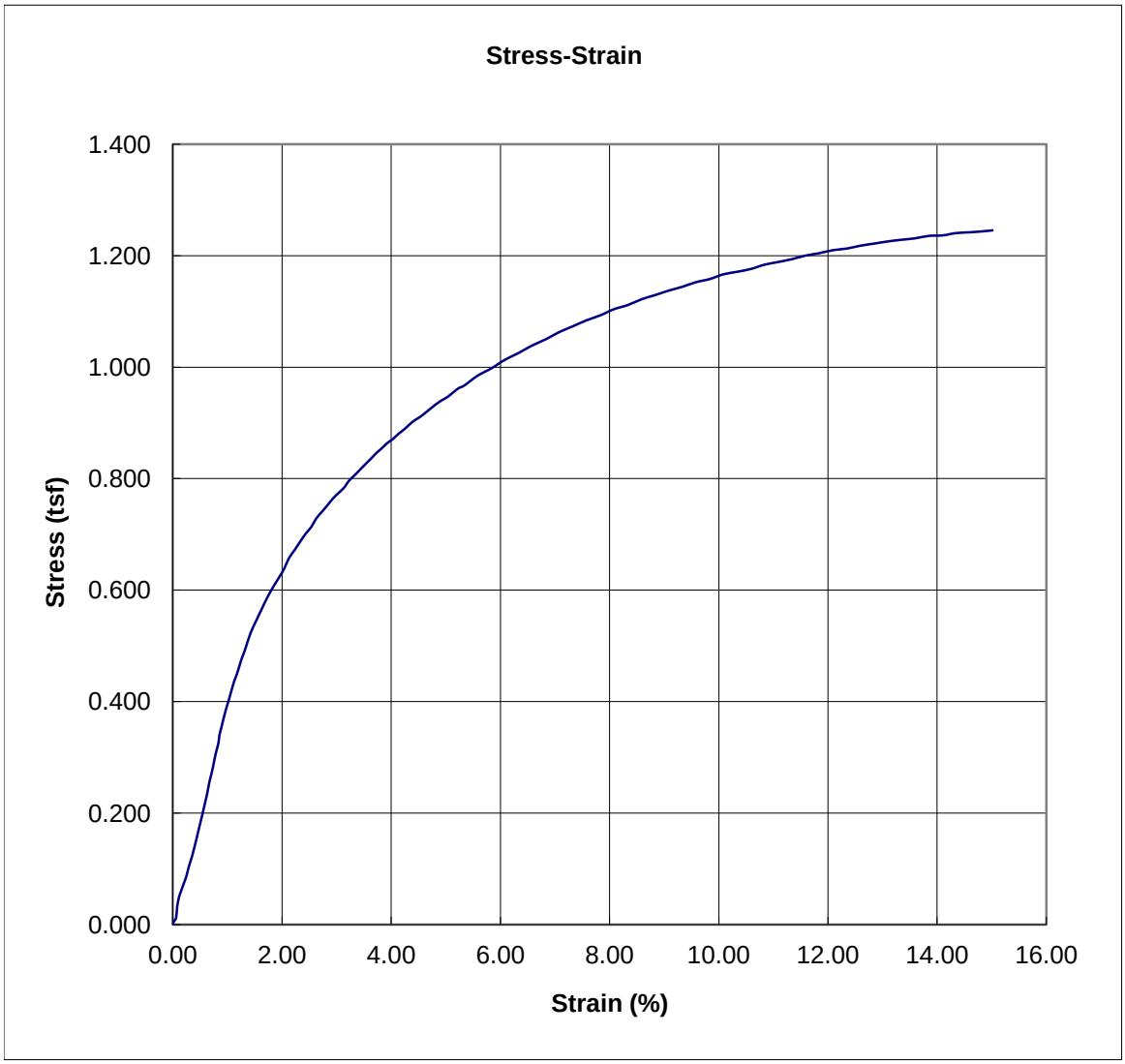
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	11:42:13 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	16
Diameter (inch):	2.83	**Height (inch):**	5.9
Piston Correction (lbs):	0.863872908		
Failure:	Bulge		



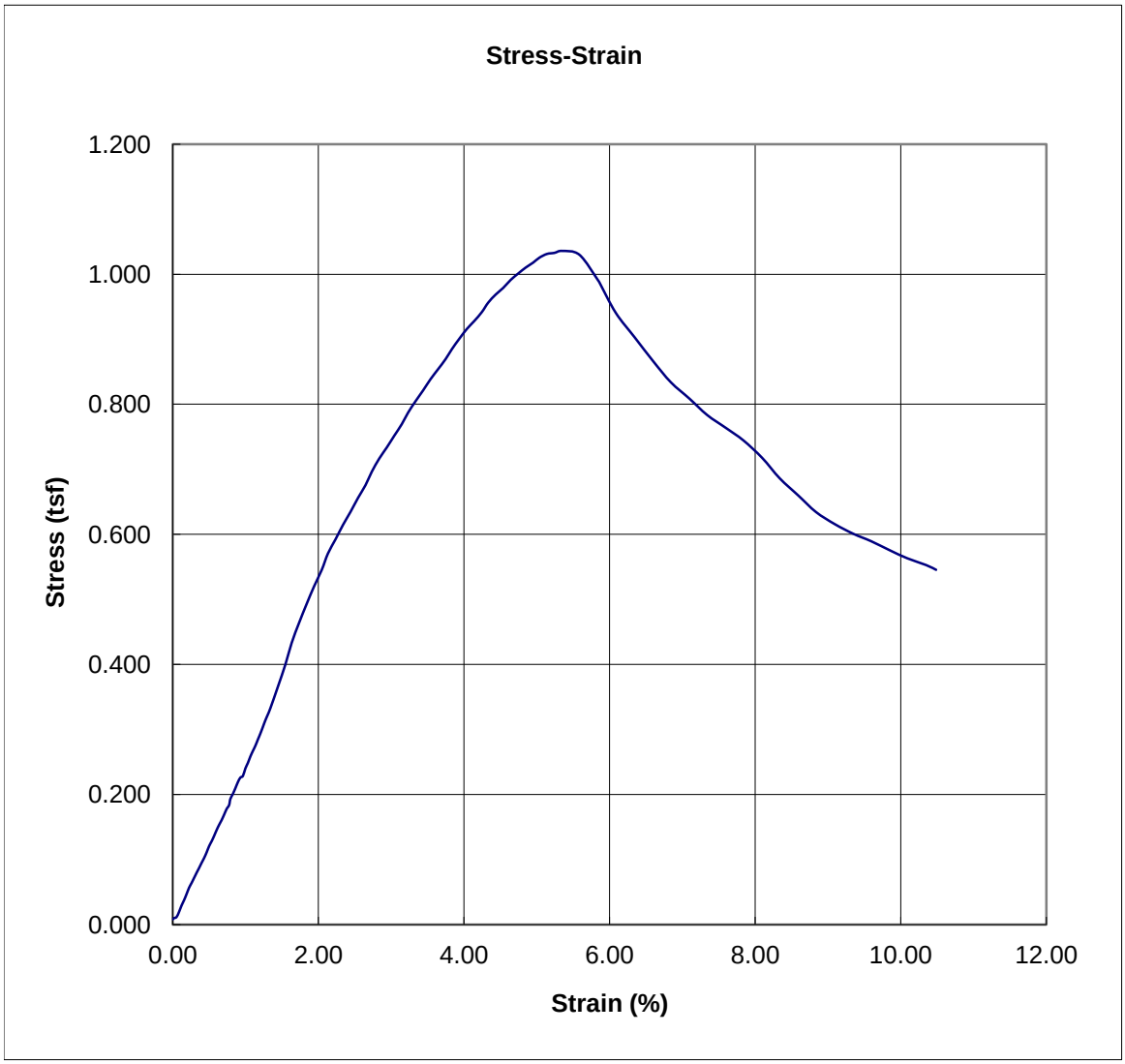
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	11:17:09 AM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	18
Diameter (inch):	2.83	**Height (inch):**	6.12
Failure:	Yield		



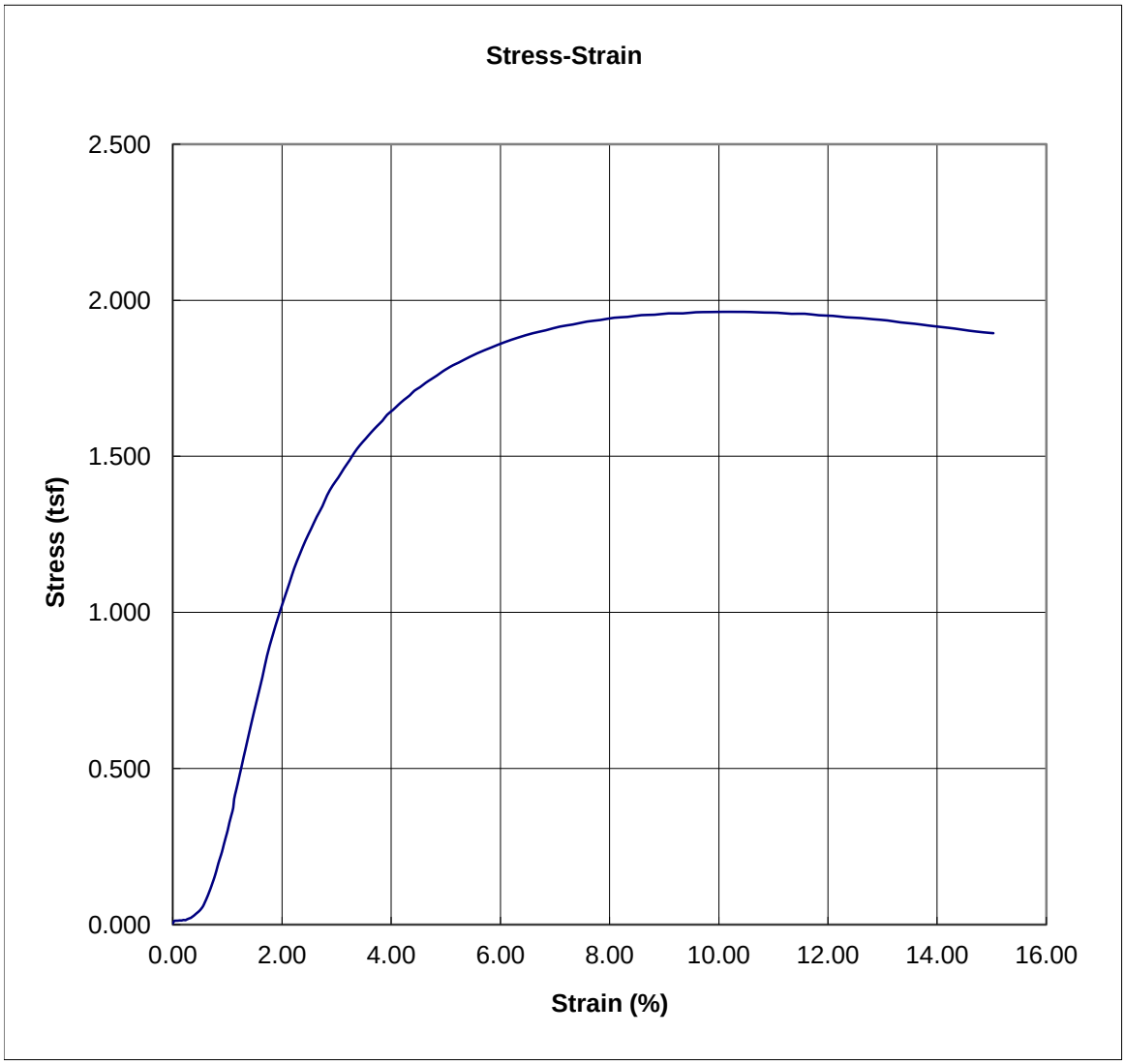
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	1:27:56 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	20
Diameter (inch):	2.85	**Height (inch):**	6.01
Failure:	Yield		



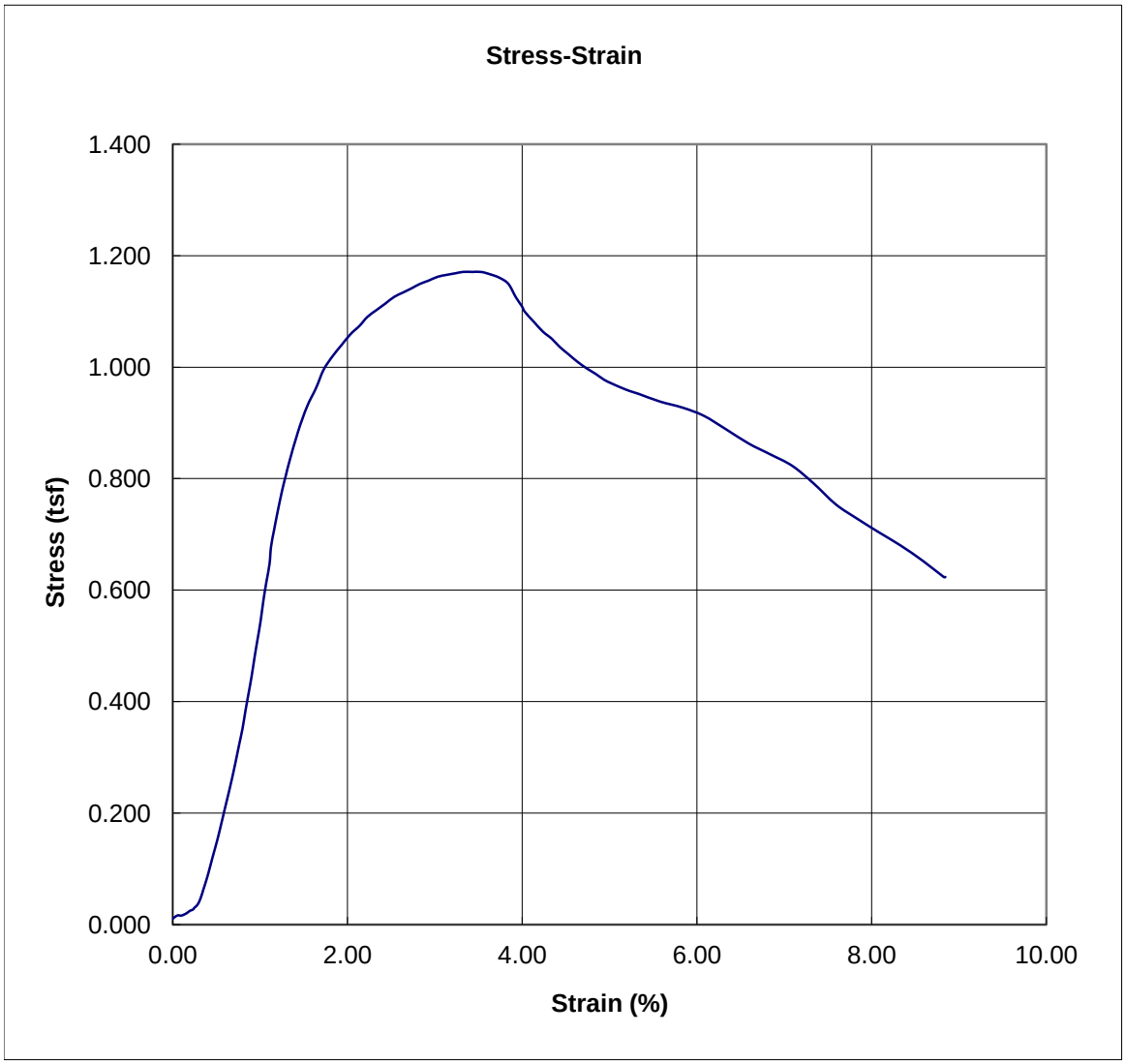
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	1:47:39 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	22
Diameter (inch):	2.85	**Height (inch):**	5.57
Failure:	Vertical Shear		



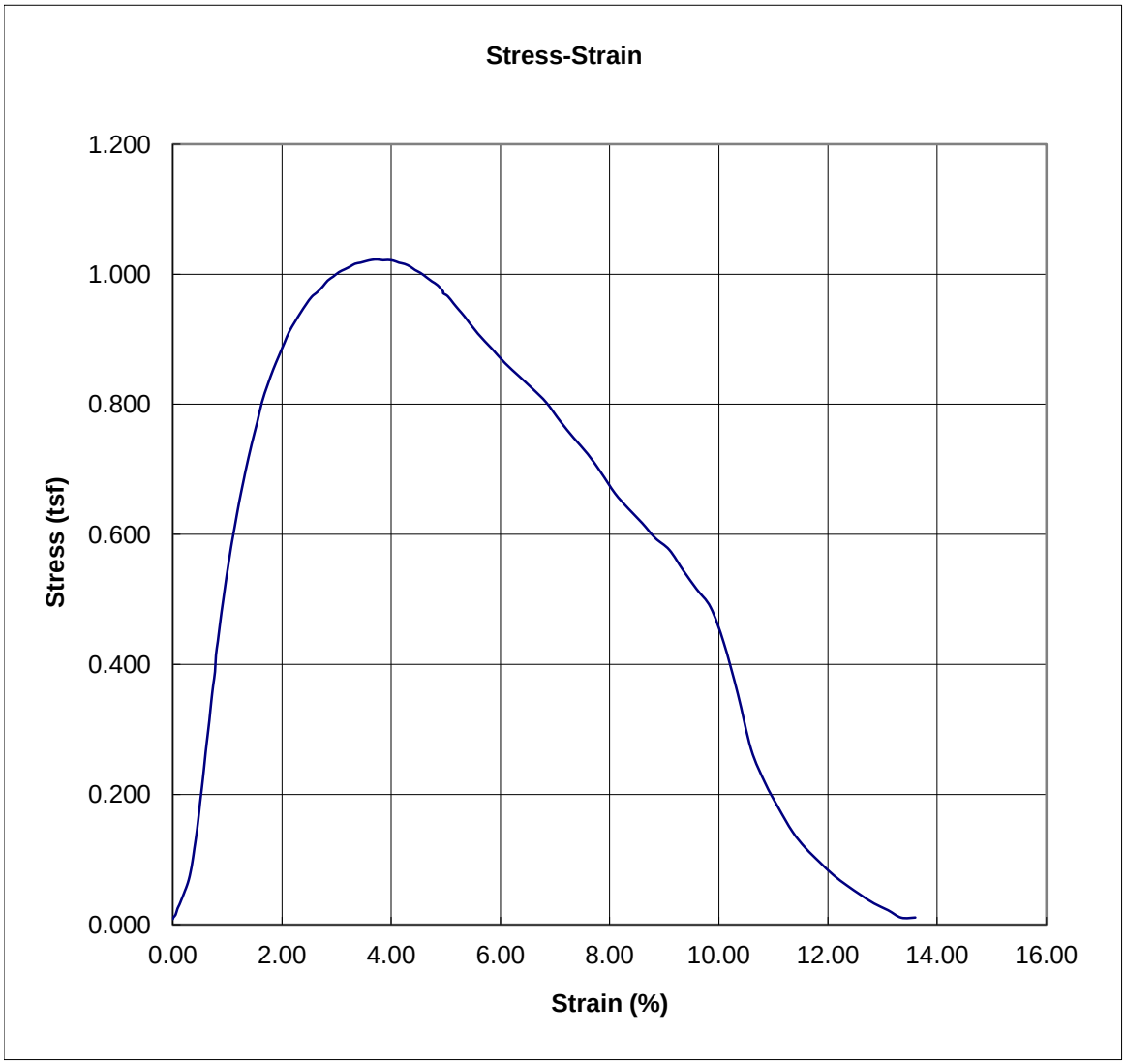
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	3:45:08 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	29
Diameter (inch):	2.85	**Height (inch):**	6.02
Failure:	Multiple Shear		



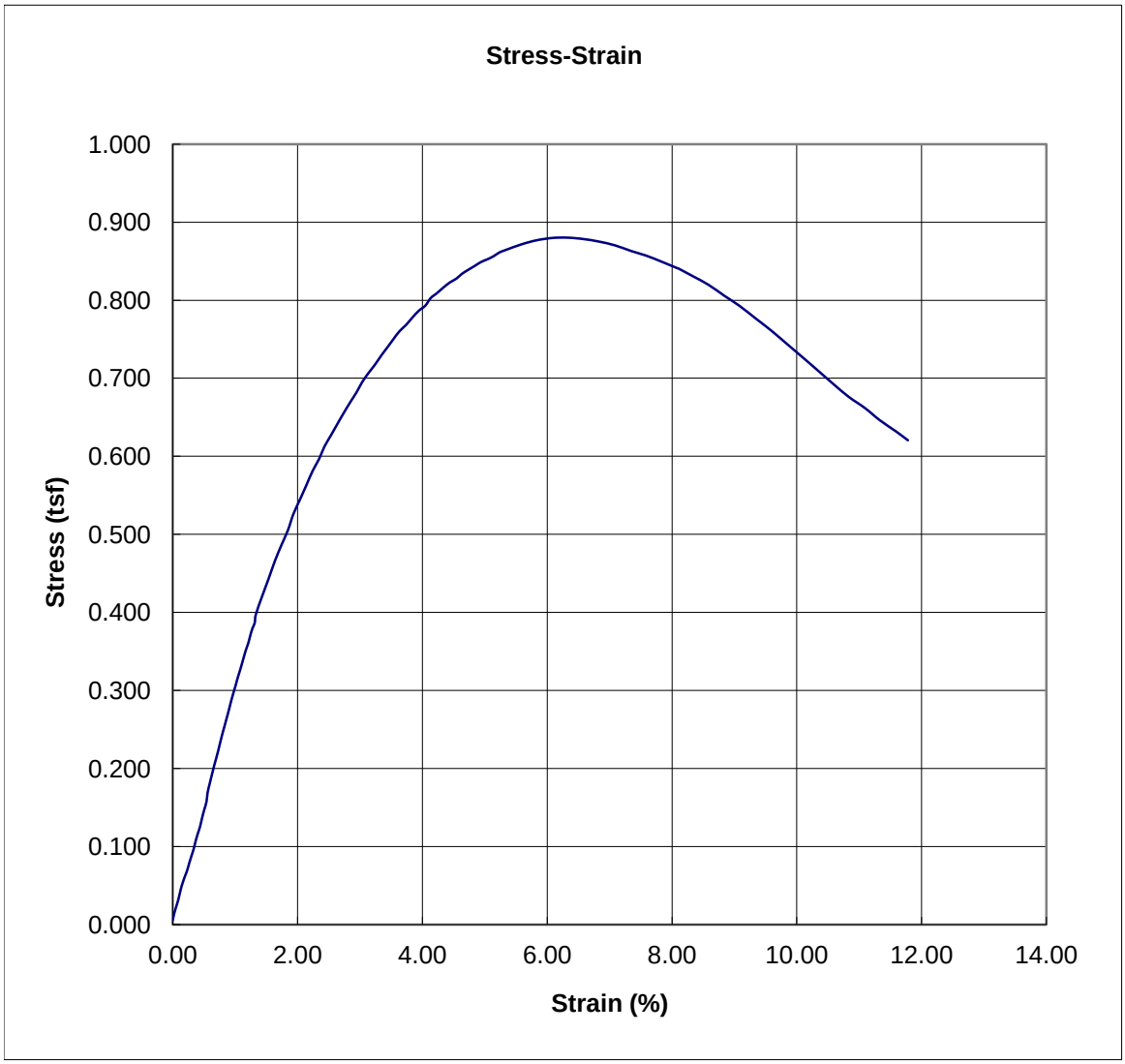
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	4:29:04 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	39
Diameter (inch):	2.81	**Height (inch):**	6.02
Failure:	SLS		



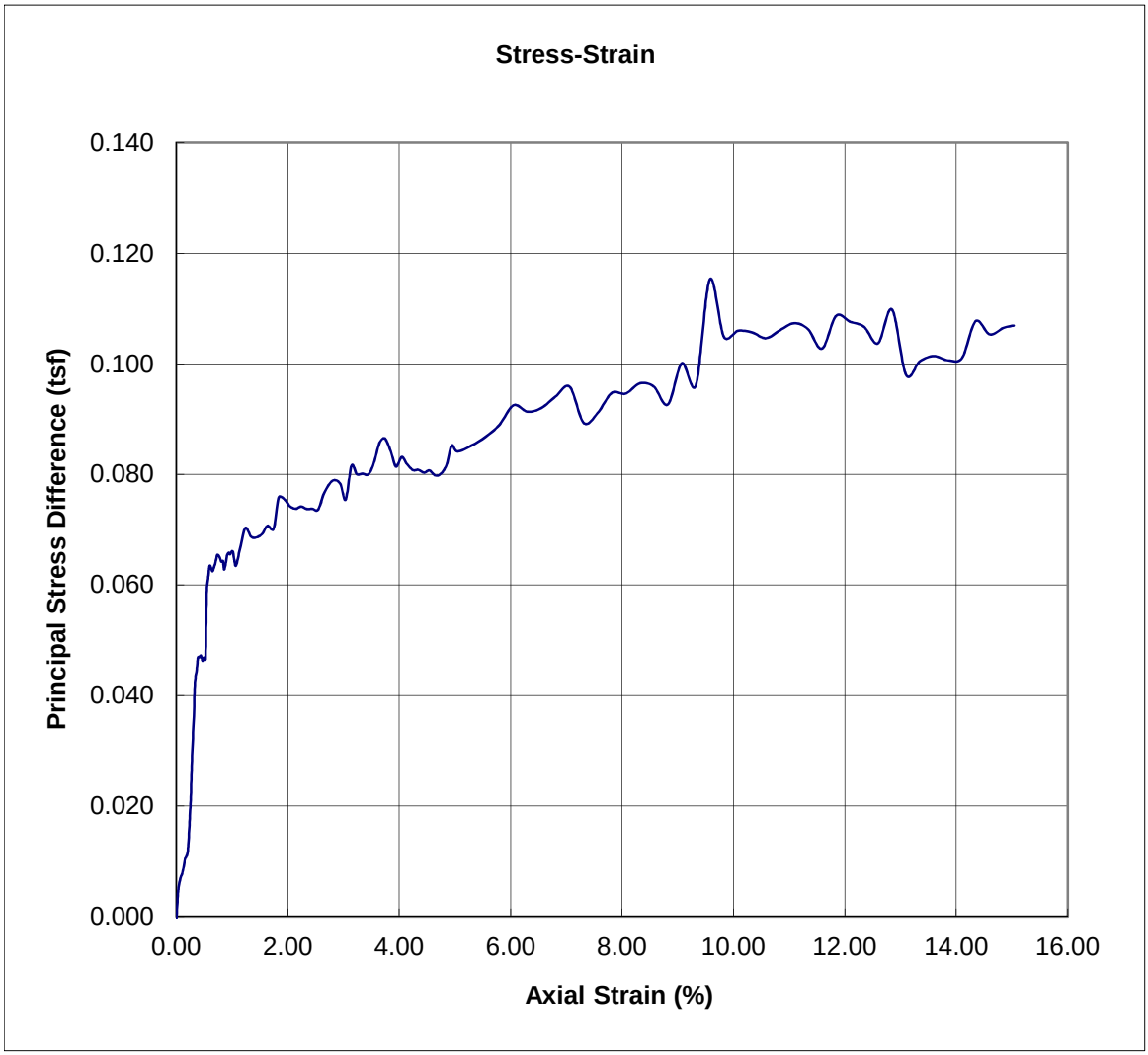
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/27/2011	**Time:**	4:47:40 PM
Boring:	8	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.86	**Height (inch):**	6.01
Failure:	SLS		



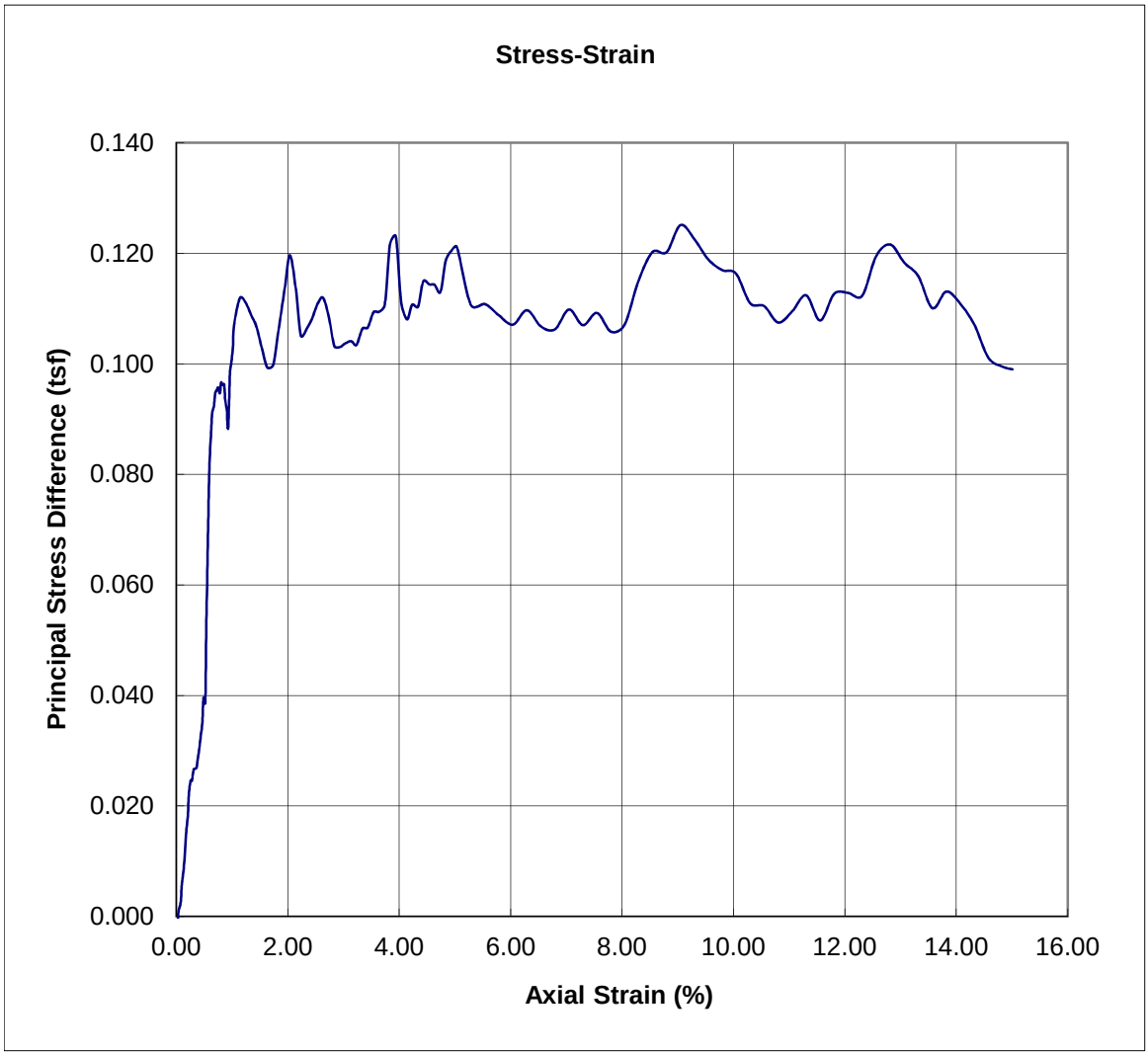
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	8:43:28 AM
Boring:	8-Remold	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	44
Diameter (inch):	2.86	**Height (inch):**	6.01
Failure:	Remold		



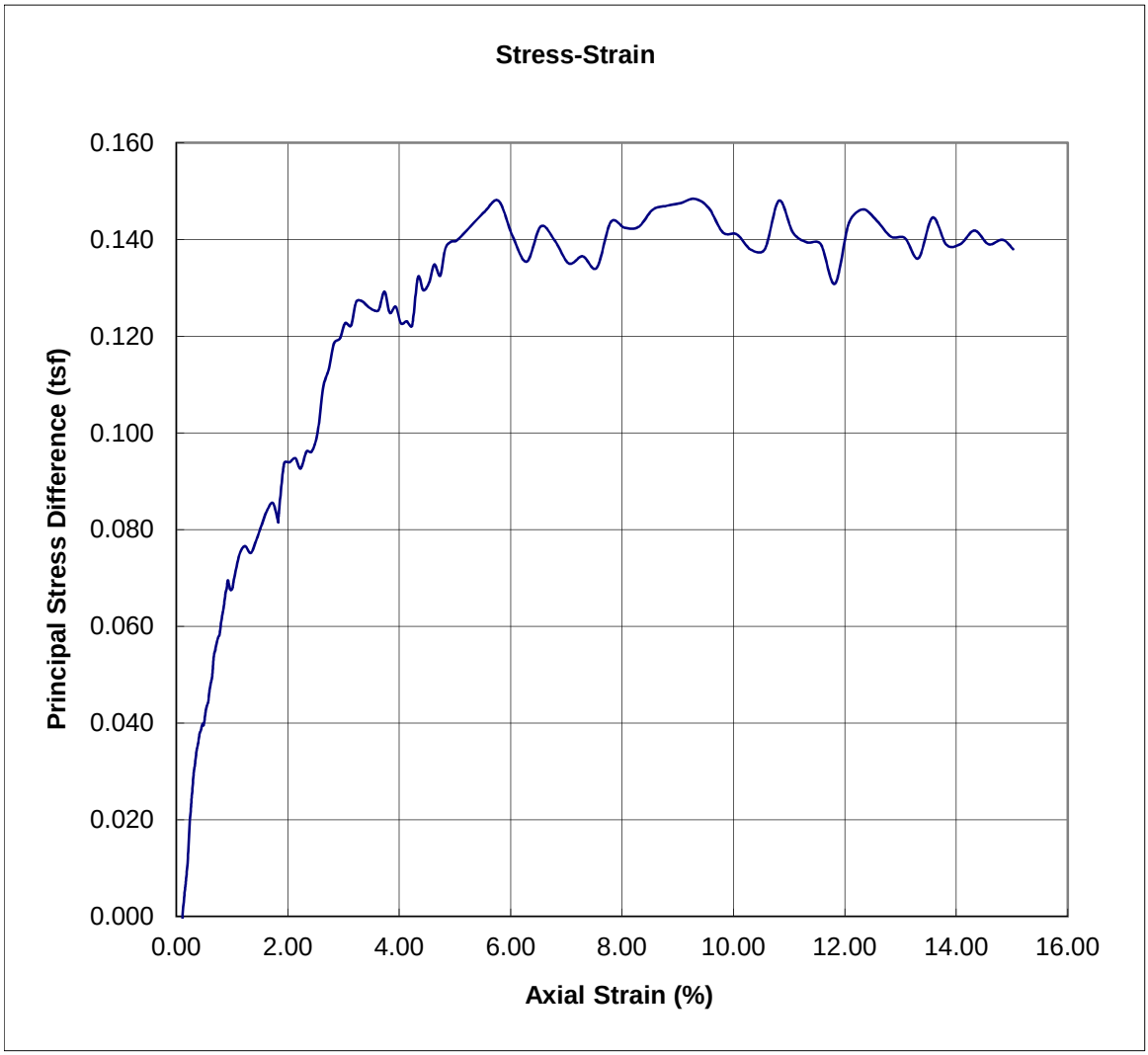
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	1:33:25 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	7.5
Diameter (inch):	2.81	**Height (inch):**	5.7
Piston Correction (lbs):	0.218040133		
Failure:	Bulge		



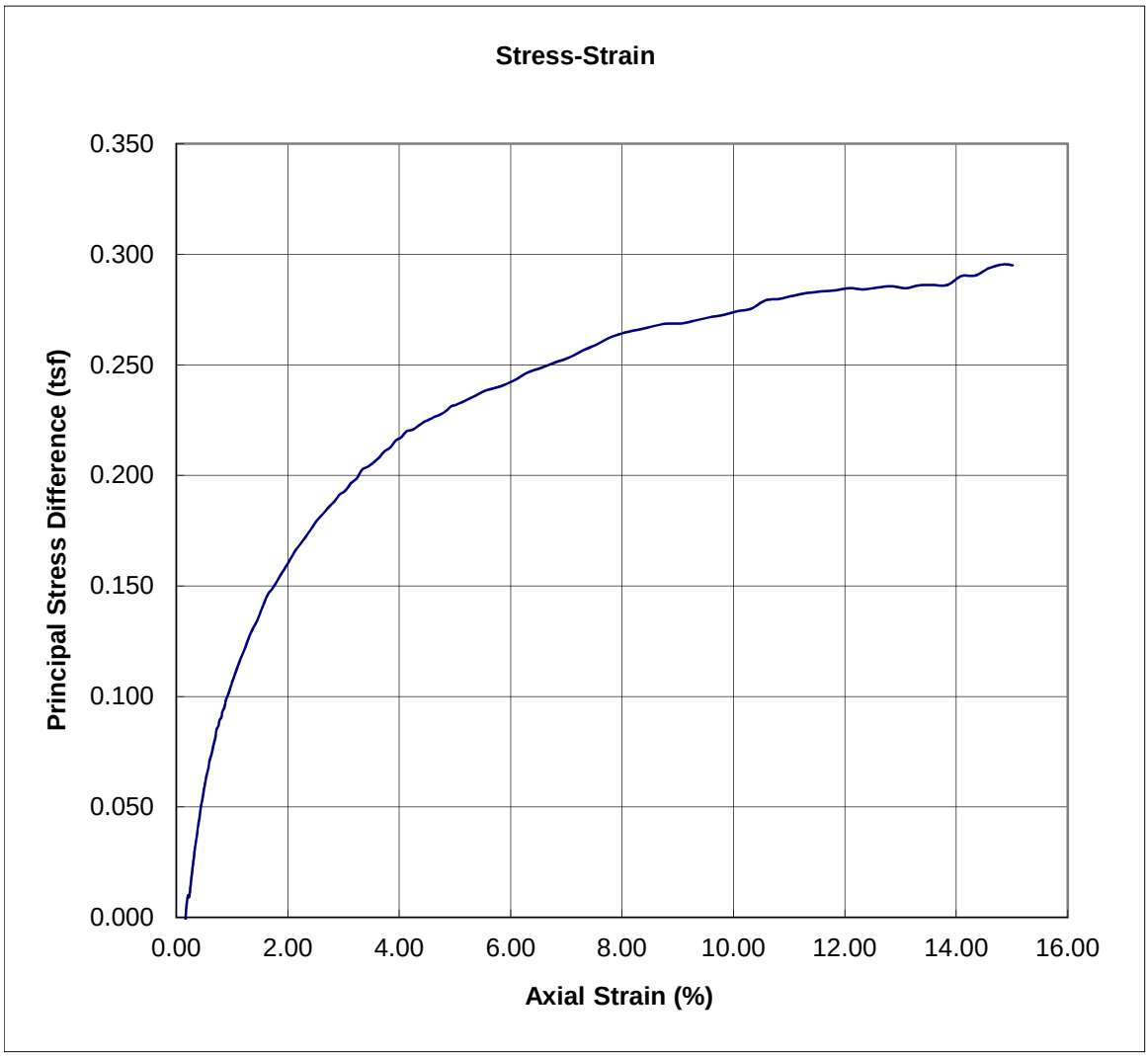
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	2:23:02 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	11.5
Diameter (inch):	2.87	**Height (inch):**	5
Piston Correction (lbs):	0.544931026		
Failure:	Bulge		



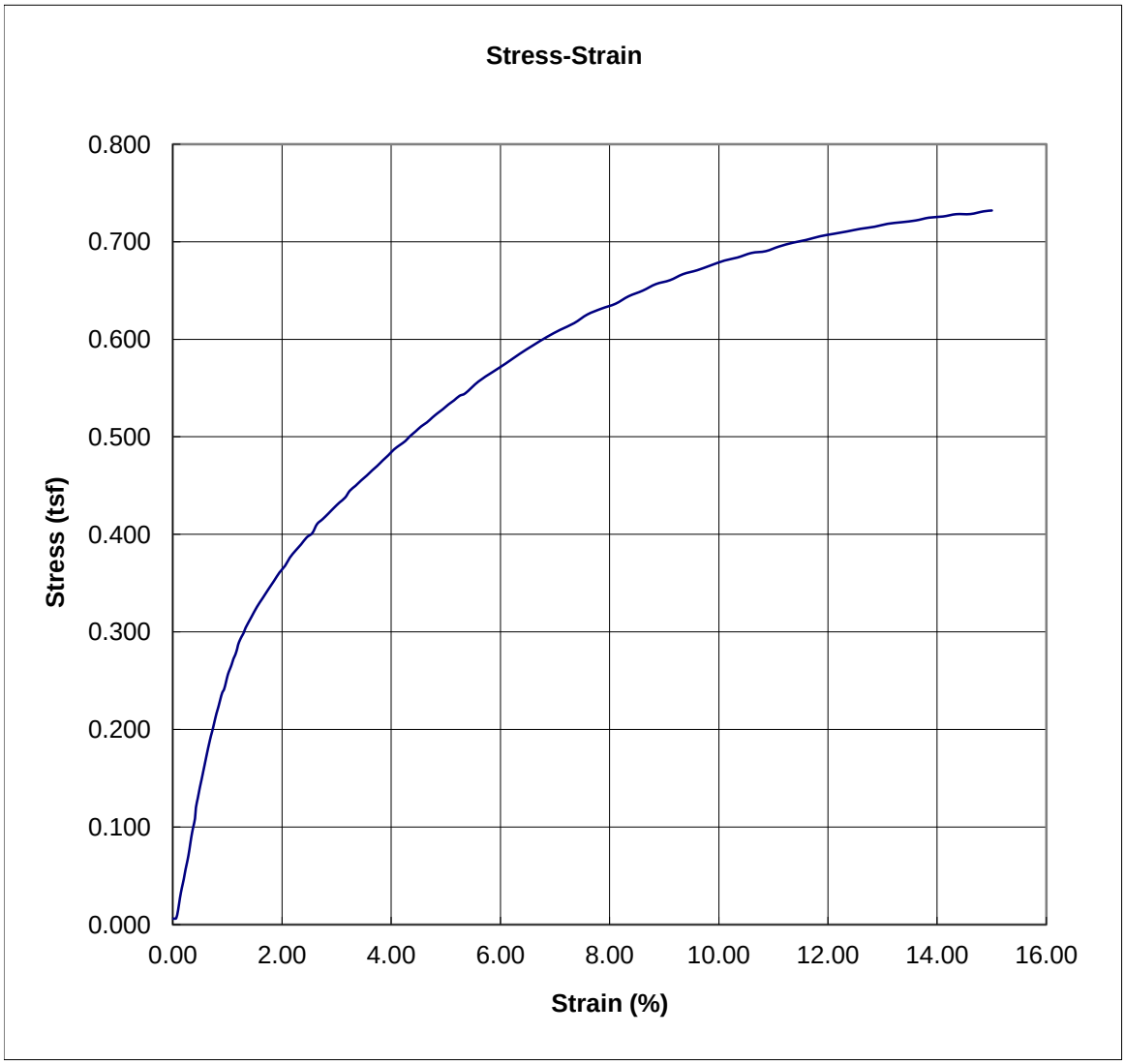
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	3:05:24 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	13.5
Diameter (inch):	2.81	**Height (inch):**	5.8
Piston Correction (lbs):	0.705622924		
Failure:	Bulge		



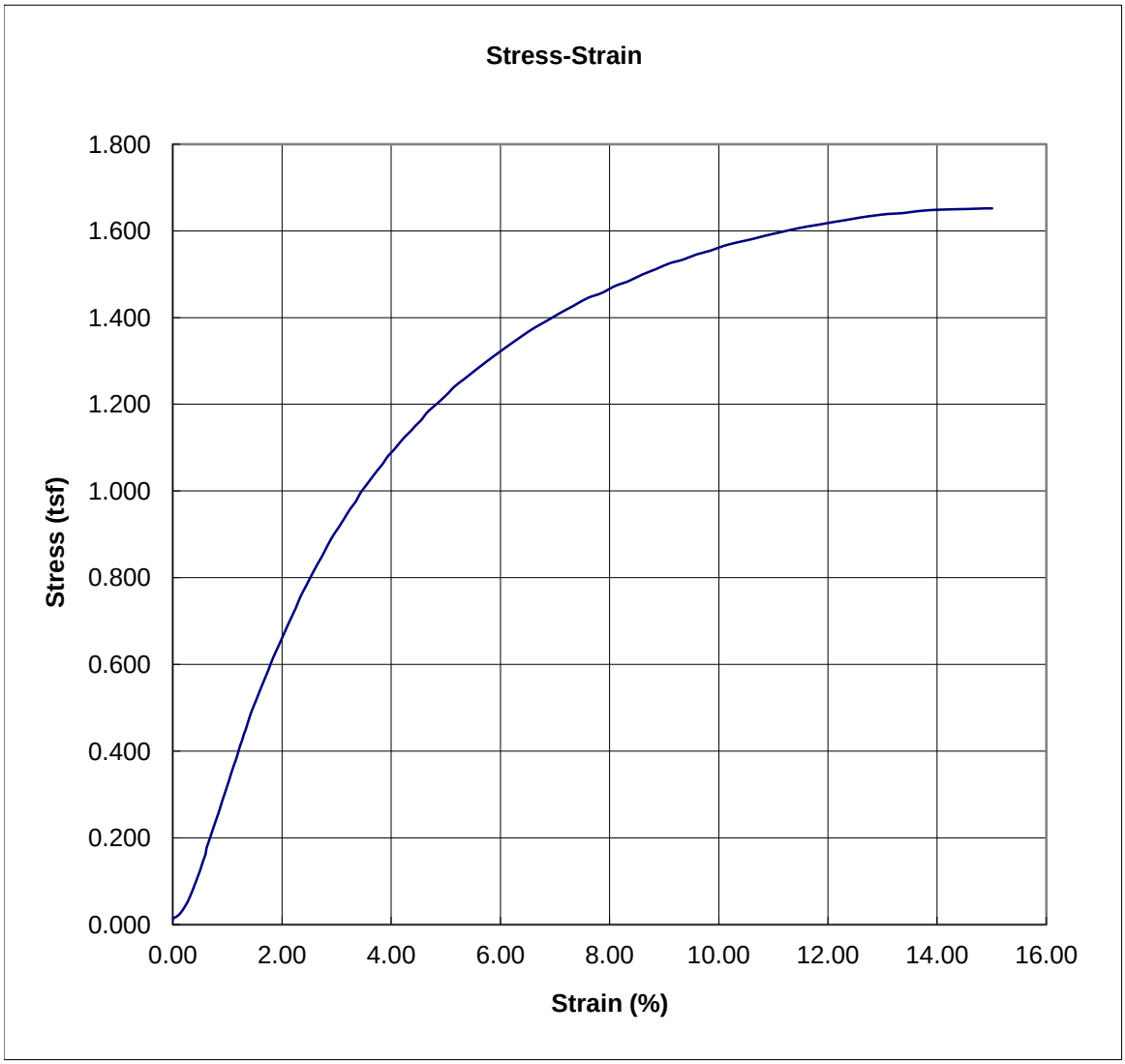
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	3:51:20 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	17.5
Diameter (inch):	2.83	**Height (inch):**	5.9
Piston Correction (lbs):	1.022201964		
Failure:	Yield		



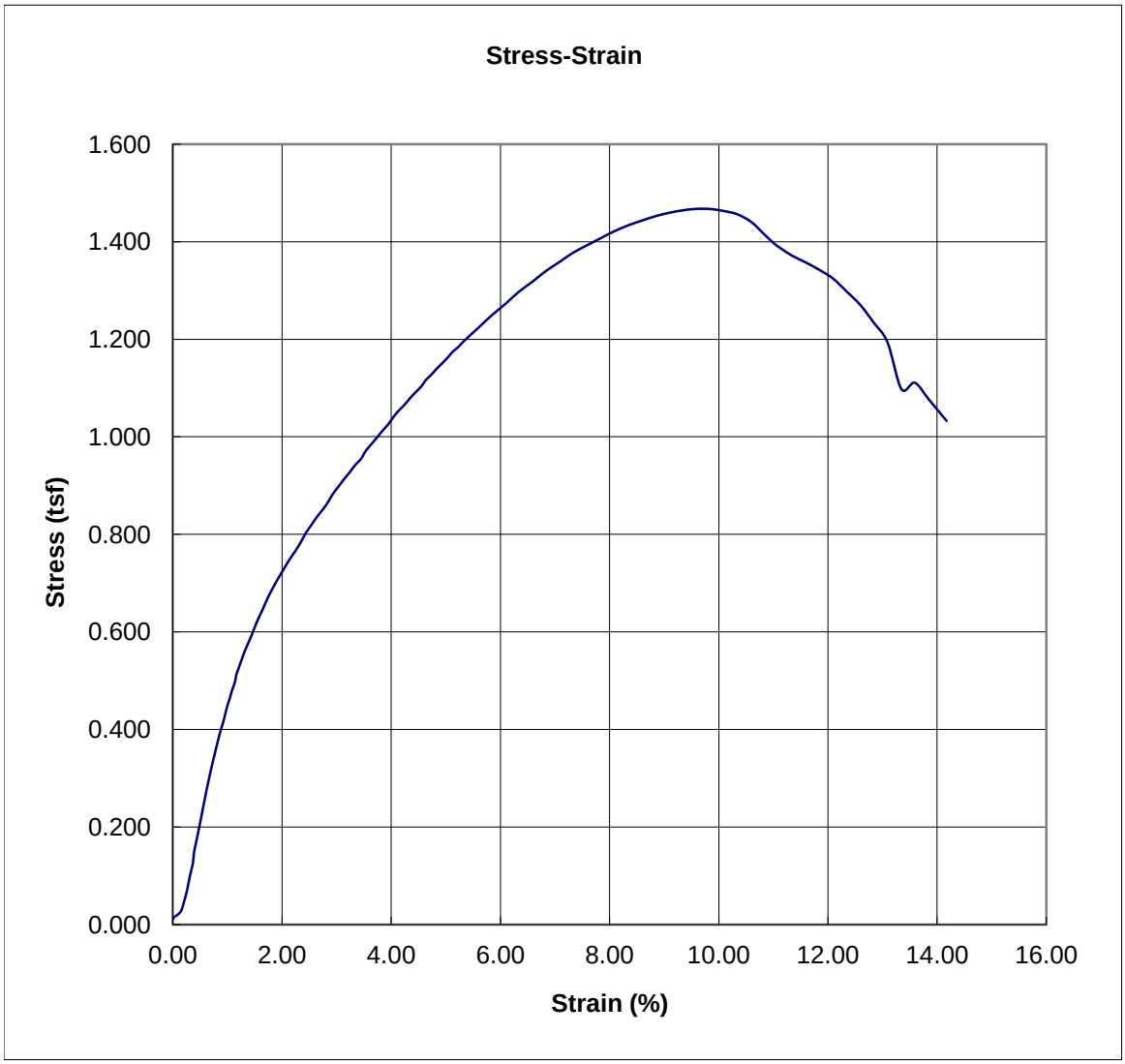
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	10:30:28 AM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	19.5
Diameter (inch):	2.77	**Height (inch):**	5.6
Failure:	Yield		



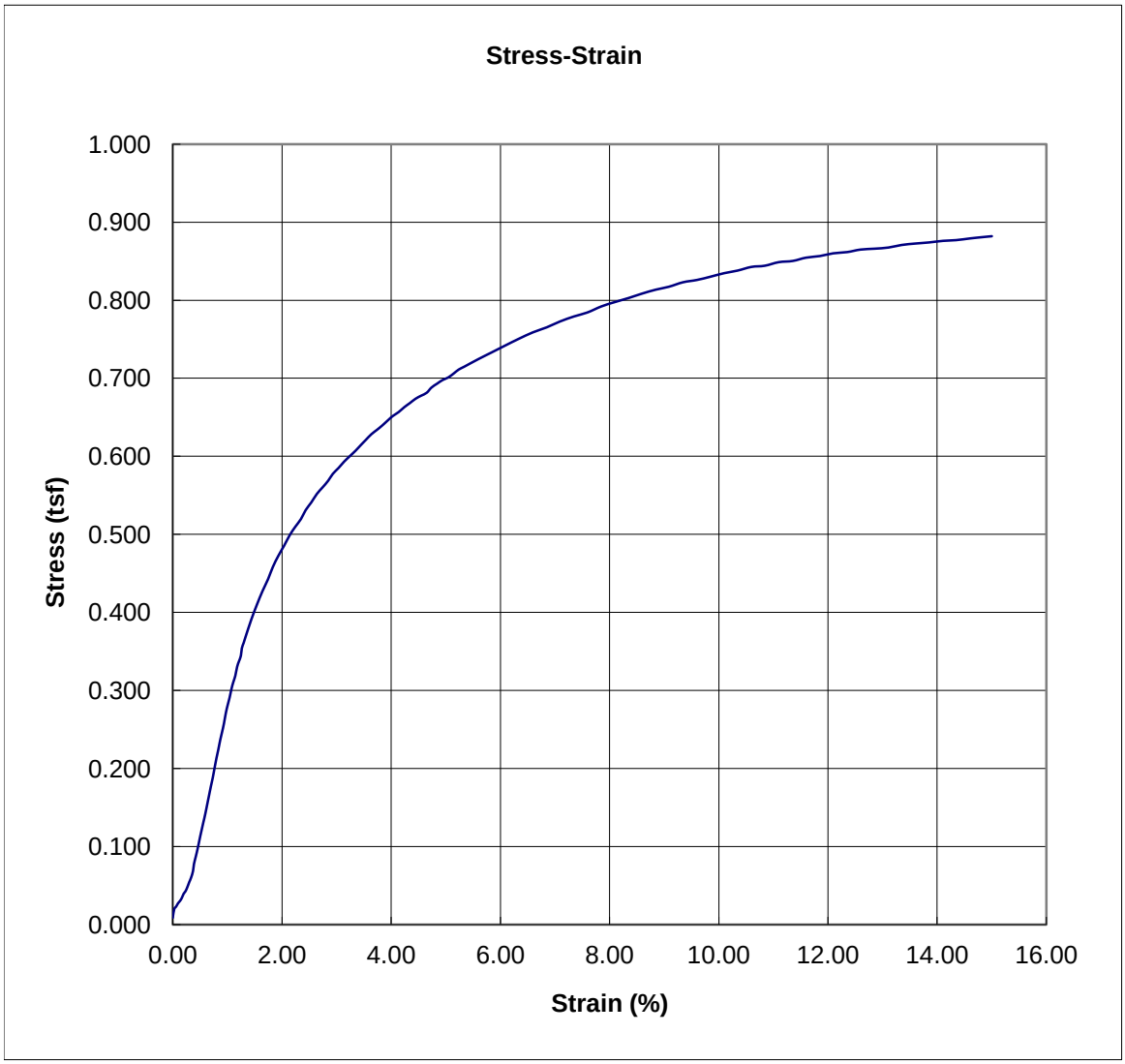
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	10:46:57 AM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	21.5
Diameter (inch):	2.84	**Height (inch):**	6.01
Failure:	Yield		



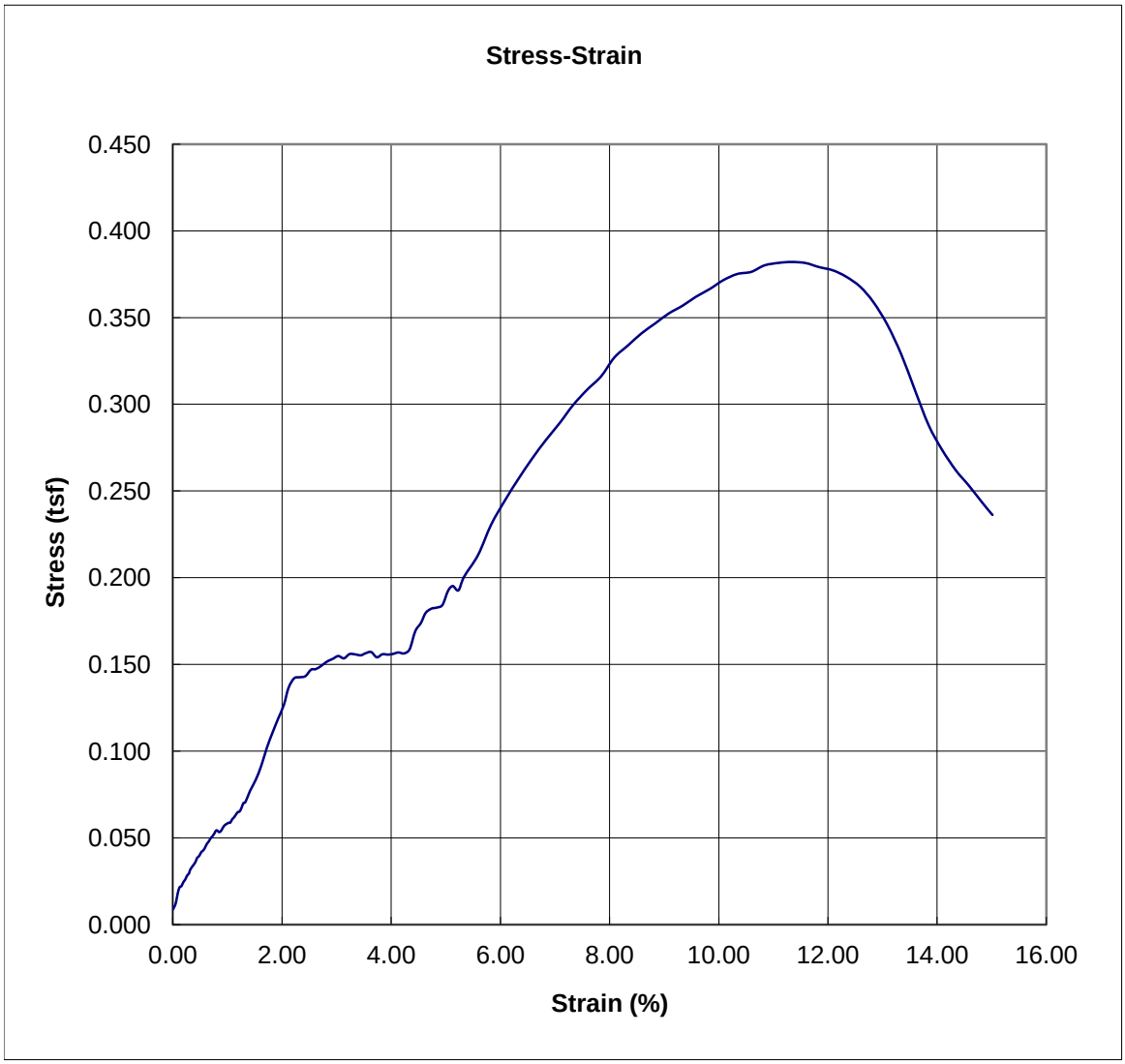
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	11:12:12 AM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	28.5
Diameter (inch):	2.85	**Height (inch):**	6
Failure:	Multiple Shear		



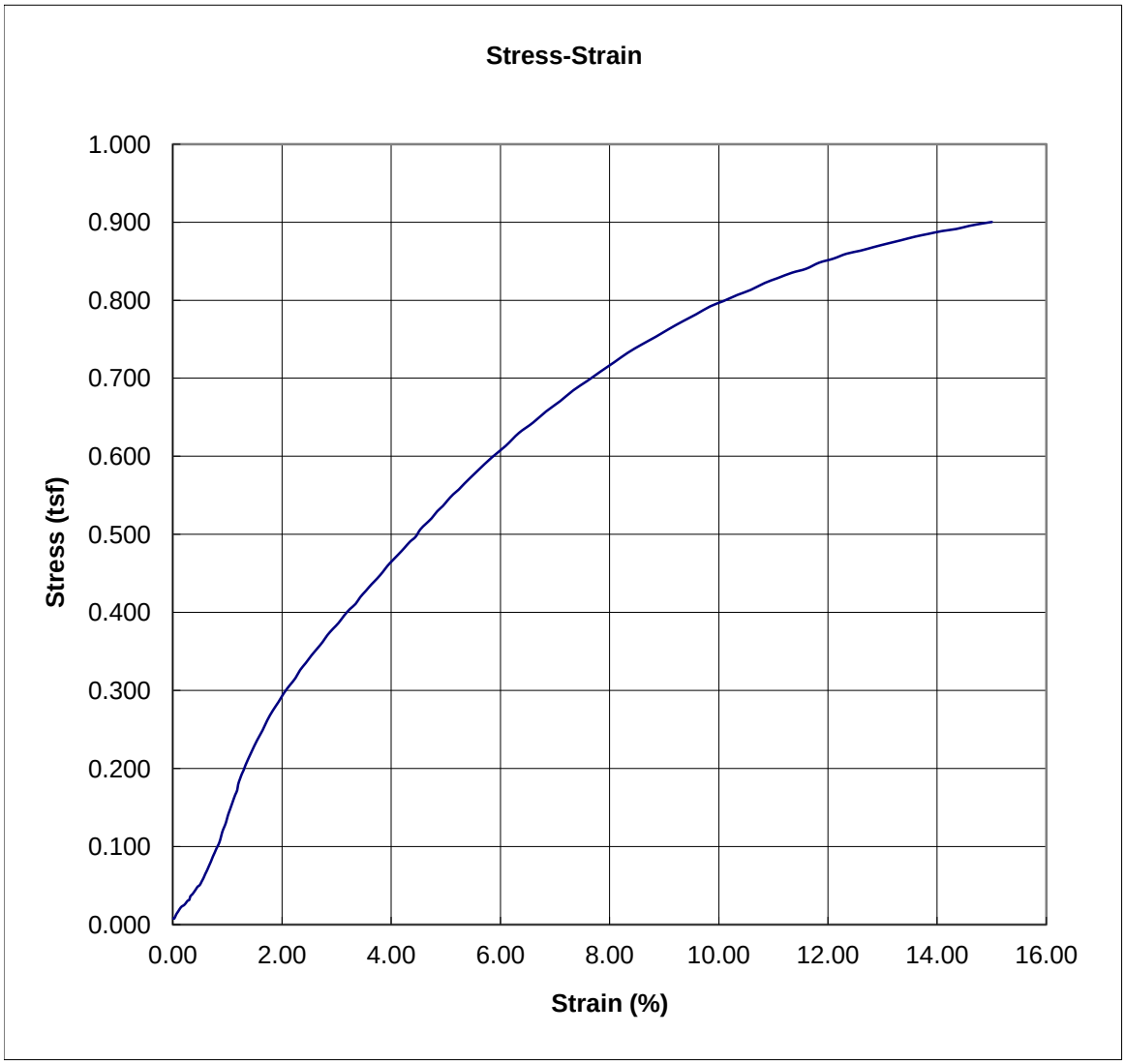
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	11:37:44 AM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	33.5
Diameter (inch):	2.85	**Height (inch):**	5.99
Failure:	Yield		



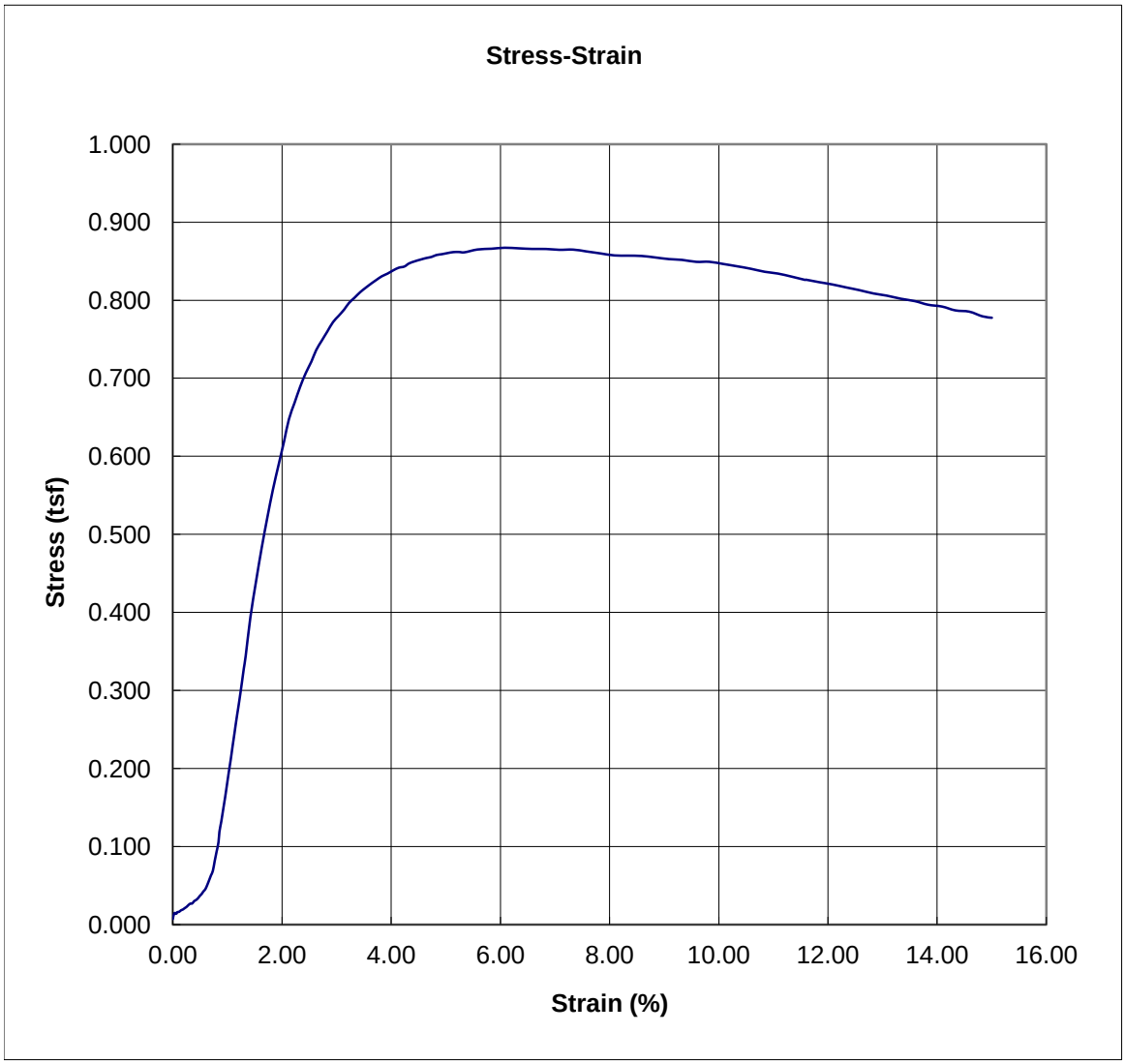
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	1:24:11 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	38.5
Diameter (inch):	2.85	**Height (inch):**	5.47
Failure:	Multiple Shear		



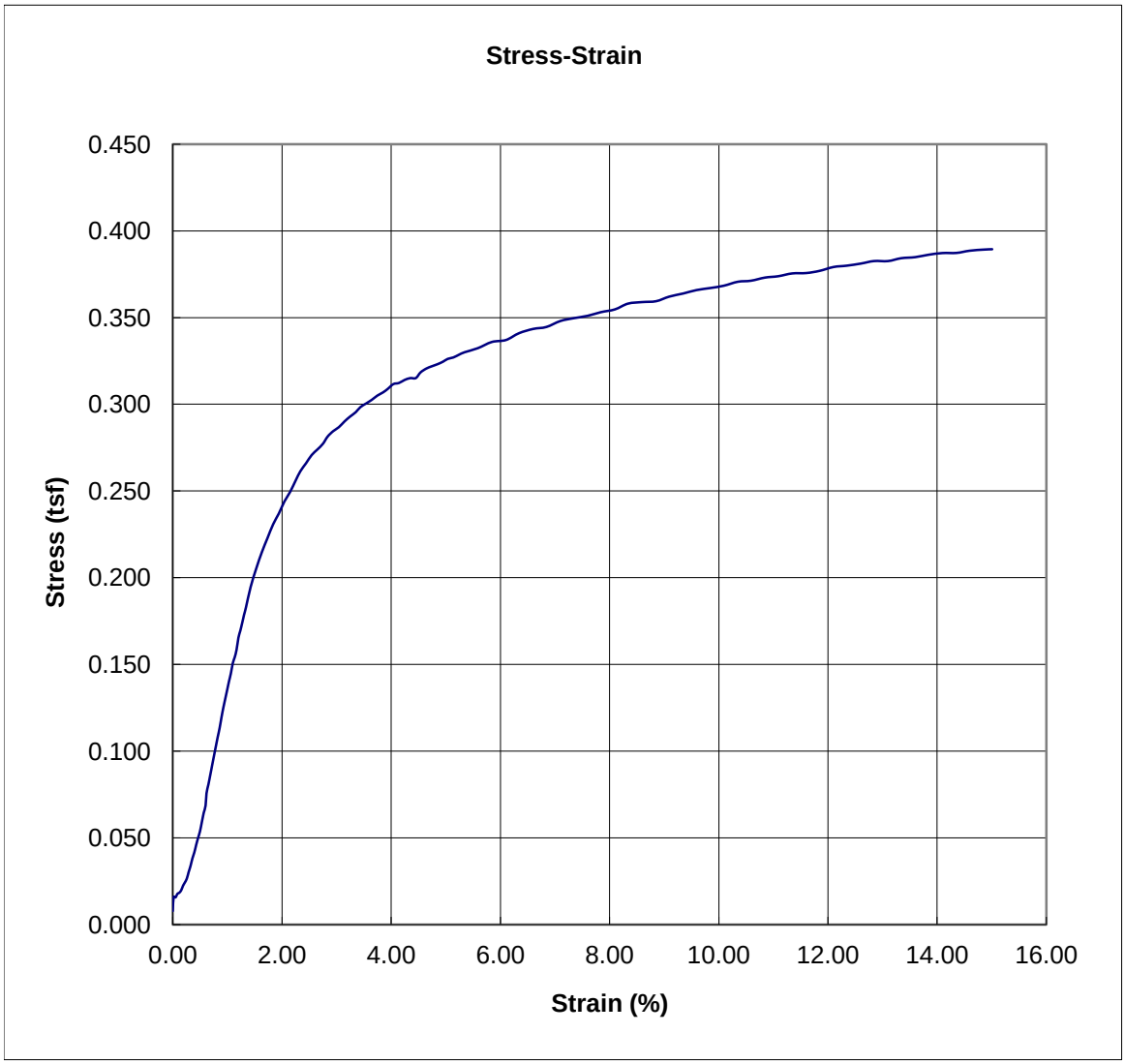
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	2:13:28 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	43.5
Diameter (inch):	2.84	**Height (inch):**	6.01
Failure:	Yield		



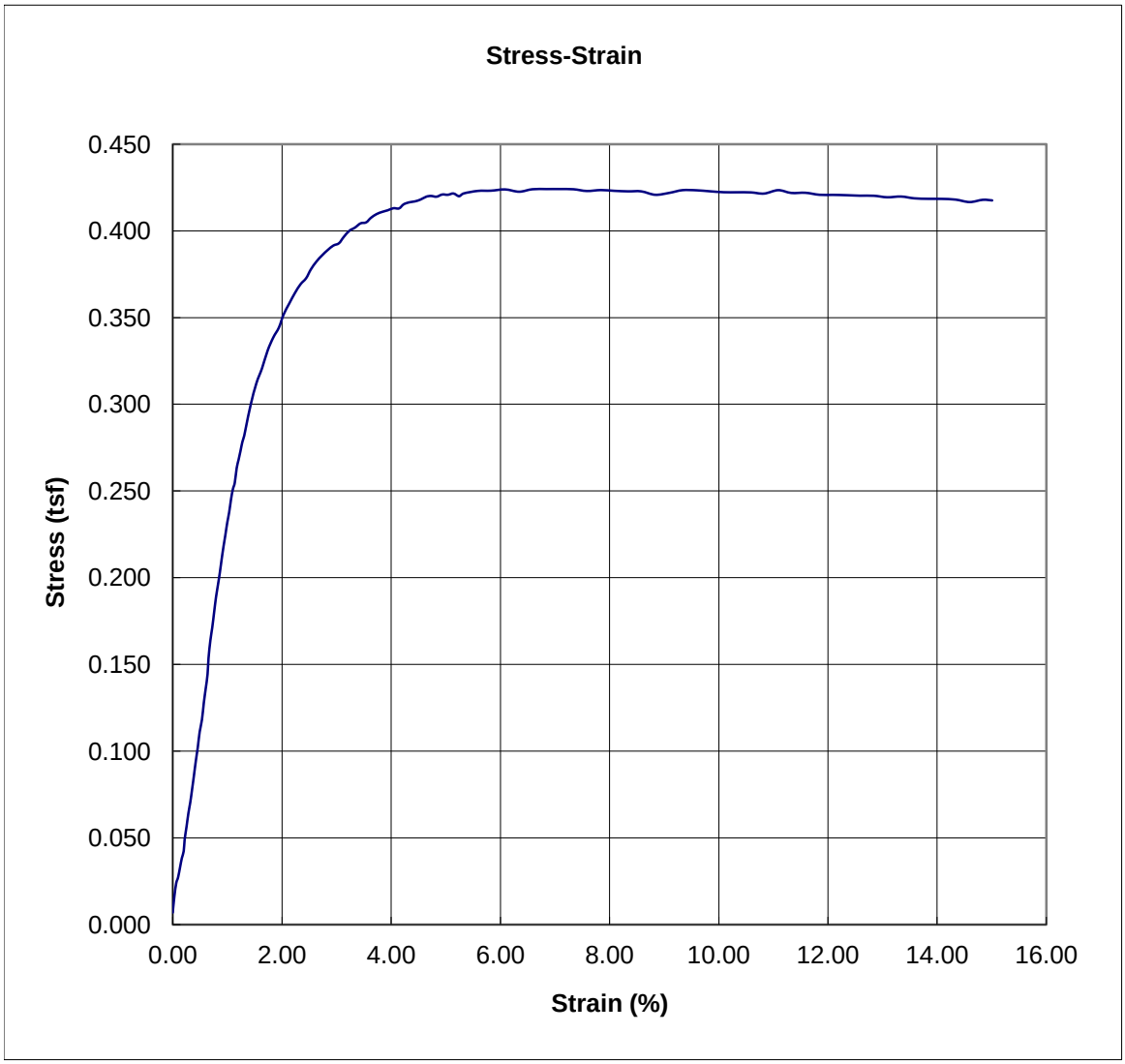
Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	2:32:08 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	48.5
Diameter (inch):	2.86	**Height (inch):**	6.01
Failure:	Multiple Shear		



Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	3:09:40 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	57.5
Diameter (inch):	2.86	**Height (inch):**	6.01
Failure:	Yield		



Project:	16715-023-00	**Load Frame Name:**	Load Frame
Date:	9/28/2011	**Time:**	3:39:59 PM
Boring:	9	**Sample:**	Sample1
Specimen:	Specimen1	**Depth (ft):**	62.5
Diameter (inch):	2.86	**Height (inch):**	6
Failure:	Multiple Shear		



GeoEngineers

PROJECT NAME Bayou Bonfouca Marsh Creation Project (PO-104)

LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-1		Zero (0) feet top of deck															
B-1		Water															
B-1																	
B-1		Mudline El. +0.35' NAVD88															
B-1	4																
B-1																	
B-1		Very soft tan and gray organic clay															
B-1	6	Very soft tan and gray organic clay with sand traces (organic content - 17%; specific gravity - 2.57)	128	82.0	36.0	141	42	99	0.16	15	0.17	Yield	UU	17			
B-1	8	Very soft tan and gray organic clay															
B-1	10	Tan and gray organic clay with large vertical sand streak on half of sample (organic content - 2.5%)	101			173	66	107						25			
B-1	12	Gray silty sand															
B-1	14	Gray sand with shells and a vertical streak of dark brown organic clay comprising approximately 40% of sample cross-section	56		72.8												
B-1	16	Stiff tan and gray clay	25	125.6	100.5	53	20	33	1.33	15	0.75	Yield	UU				
B-1	18	Medium tan and gray clay with organic matter; sand	28	126.0	98.6				0.55	15		Yield	UC				

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PROJECT NAME Bayou Bonfouca Marsh Creation Project (PO-104)

LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		streaks and ferrous nodules															
B-1	20	Stiff tan and gray clay with sand pockets and shells	27	122.1	95.8	68	22	46	1.01	15		Yield	UC				
B-1	22	Stiff tan and gray clay with sand pockets	30	122.2	94.1				1.44	13		Bulge	UC				
B-1	27	Stiff tan and gray clay with gravel (SLS)	41	114.5	81.2	84	29	55	1.11	3		SLS	UC				
B-1	32	Stiff tan and gray clay (SLS)	45	113.1	78.1				1.17	3		SLS	UC				
B-1	37	Stiff tan and gray clay	46			82	32	50									
B-1																	
B-1	42	Medium tan and gray clay with sand and shell	49	114.7	77.0	46	18	28	0.54	2		SLS	UC				
B-1	43								0.55	11		MS					
B-2		Zero (0) feet top of deck															
B-2		Water															
B-2		Mudline at El. -0.19' NAVD88															
B-2	4		523	70.5	11.3				0.16	12	0.06	Bulge	UU	30			
B-2		Very soft dark gray organic clay and peat (organic content - 30%)															
B-2	6	Very soft black organic clay with peat	397	64.4	13.0	503	210	293	0.11	10	0.17		UU				
B-2	8	Very soft gray organic clay	190	74.2	25.6				0.13	11	0.29	Bulge	UU				
B-2	10	Very soft gray organic clay (organic content -	157		30.8	150	35	115						29			

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		29%; specific gravity - 2.19; [1]FV @ 10' - 0.018 ksf)															
B-2	12	Very soft gray organic clay	163	86.0	32.6	154	39	115	0.09	14	0.52	Bulge	UU				
B-2	14	Very soft gray organic clay (organic content - 17%; [1]FV @ 14' - 0.049 ksf)	153	82.5	32.6				0.09	10	0.63	Bulge	UU	17			
B-2	16	Very soft gray and brown organic clay with sand	177			159	47	112									
B-2	18	Very soft brown very soft organic clay with organic matter	94			216	43	173									
B-2	20	Very soft gray organic clay with sand traces	108	107.4	51.7				0.07	13	0.98	Bulge	UU				
B-2	22	Very soft gray organic clay with sand traces	257	104.2	29.2	61	20	41	0.13	15	1.09	Yield	UU				
B-2	27	Very soft tan and gray organic clay	119	100.2	45.8				0.02	15		Yield	UC				
B-2																	
B-2	32	Very soft tan and gray clay with organic matter	25	89.8	71.9	119	40	79	0.11	14		MS	UC				
B-2	37	Very soft tan and gray clay with organic matter	42	103.4	72.6				0.06	15		Yield	UC				
B-2																	
B-2	42	Very soft gray very silty clay with organic matter	24	124.6	100.7	29	14	15	0.13	15		Yield	UC				
B-3		Zero (0) feet top of deck															
B-3		Water															

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PROJECT NAME Bayou Bonfouca Marsh Creation Project (PO-104)

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PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-3																	
B-3		Mudline at El. +0.39' NAVD88															
B-3	4	Very soft dark gray organic clay with peat (organic content - 35%)	396	72.8	14.7				0.12	6	0.06	Bulge	UU	35			
B-3	6	Very soft gray organic clay with peat	339	73.7	16.8	245	95	150	0.12	15	0.17	Yield	UU				
B-3	8	Very soft gray organic clay	124	80.8	36.1				0.10	15	0.29	Yield	UU				
B-3	10	Very soft gray organic clay ([1]FV @ 14' - 0.026 ksf)	183	83.9	29.6	110	38	72	0.15	15	0.40	Yield	UU				
B-3	12	Very soft gray organic clay	136	85.0	36.0				0.12	13	0.52	Bulge	UU				
B-3	14	Very soft gray organic clay	114	83.0	38.7	135	37	98	0.16	15	0.63	Yield	UU				
B-3	16	Very soft gray organic clay	111	88.5	42.0				0.17	13	0.75	Bulge	UU				
B-3	18	Very soft gray clay with silt, sand pockets and organic matter ([1]FV @ 18' - 0.065 ksf)	56	101.4	65.1	66	25	41	0.16	15	0.86	Yield	UU				
B-3	20	Very soft gray organic clay with silt lenses	88	99.6	53.0				0.12	14	0.98	Bulge	UU				
B-3	22	Very soft gray organic clay (specific gravity - 2.06)	101	87.4	43.6	107	30	77	0.10	13		MS	UC				
B-3																	
B-3	27	Very soft gray clay with	83	107.6	58.8	67	22	45	0.17	14	1.38	Bulge	UU				

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		organic matter and 2½" sand layer															
B-3																	
B-3	32	Light gray very silty clay with sand pockets	27			24	15	9									
B-3	37	Firm gray sandy silt	26												61.0		
B-3																	
B-3	42	Firm gray clayey sand	19												36.0		
B-4		Zero (0) feet top of deck															
B-4		Water															
B-4																	
B-4		Mudline at El. -1.51' NAVD88															
B-4	4	Very stiff brown and gray organic clay with sand	71														
B-4	6	Gray sandy clay with organic matter	40												61.0		
B-4	8	Gray sandy clay with silt	21												65.0		
B-4	10	Loose gray sandy silt with clay streaks															
B-4	12	Medium gray sandy clay with ferrous nodules and organic matter	24	131.4	106.1	37	17	20	0.76	15	0.52	Yield	UU		64.0		
B-4	14	Stiff gray very sandy clay with ferrous nodules and organic matter	16	128.0	110.2	31	14	17	1.13	5		MS	UC				
B-4	16	Stiff gray sandy clay with sand streaks, 2" sandy silt layer at bottom, organic matter and	19	128.1	107.2	38	14	24	1.72	15		Yield	UC				

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LOCATION St. Tammany Parish, Louisiana

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		ferrous nodules ([1]FV @ 16' - 0.179 ksf)															
B-4	18	Medium gray clay with sand streaks	20	128.1	106.8				0.60	4		MS	UC				
B-4	20	Stiff gray sandy clay with 2" sand layer	22			38	20	18									
B-4	22	Stiff gray clay with large sand pockets	29	122.7	95.3	56	21	35	1.19	4		MS	UC		82.0		
B-4	27	Medium tan and light gray clay with sand streaks and silt lenses	35	112.0	82.9	79	31	48	0.60	3		Crumble	UC				
B-4	32	Medium tan and light gray clay with silt streaks	41	112.6	79.7				0.93	6		Crumble	UC				
B-4	37	Stiff tan and gray clay with sand streaks and ferrous nodules (specific gravity = 2.64)	32	116.3	88.0	72	27	45	1.21	4		SLS	UC				
B-4	38								1.28	7		MS					
B-4	42	Medium tan and gray clay with 3" sand layer	41	114.1	80.7				0.93	6		SLS	UC				
B-5		Zero (0) feet top of deck															
B-5		Water line															
B-5																	
B-5		Mudline at El. -0.21' NAVD88															
B-5	4	Loose gray sandy silt with organic matter	28	123.5	96.7				0.31	9	0.06	Bulge	UU		54.0		
B-5	6	Loose gray clayey sand	38	126.9	91.8	26	19	7	0.42	9	0.17	Bulge	UU		46.0		
B-5	8	Loose gray silty sand															
B-5	10	Loose gray clayey sand	19												49.0		

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-5	12	Very soft very sandy clay	20	131.2	109.5	17	12	5	0.23	10	0.52	Bulge	UU		53.0		
B-5	14	Soft tan and gray very sandy clay with ferrous nodules (organic content - 2.4%; specific gravity - 2.63; [1]FV @ 14' - 0.168 ksf)	24	125.6	101.4	33	14	19	0.47	15		Yield	UC	2.47			
B-5	16	Soft gray sandy clay	23	126.9	103.3				0.29	15	0.75	Yield	UU				
B-5	18	Very soft gray very silty clay with ferrous nodules	22	124.2	102.0	22	14	8	0.22	15		Yield	UC				
B-5	20	Medium gray sandy clay with ferrous nodules ([1]FV @ 20' - 0.24 ksf)	22	122.9	100.4				0.50	15		Yield	UC				
B-5	22	Medium tan and gray clay with sand pockets and lenses (SLS)	32	120.6	91.3	69	21	48	0.98	6		SLS	UC				
B-5	27	Stiff gray clay with sand and 5 inch sand with clay layer at bottom (SLS)	22	120.7	98.9				1.26	6		SLS	UC				
B-5	28								1.17	14		MS					
B-5	32	Stiff gray clay with sand pockets	29	121.5	94.3	69	21	48	1.43	8		MS	UC				
B-5	37	Stiff light gray clay with sand streaks and pockets	30	119.3	91.5				1.17	4		SLS	UC				
B-5																	
B-5	42	Firm brown clayey sand															
B-5																	
B-5	47	Medium gray clay with silt lenses	40	115.5	82.3	44	21	23	0.91	5		MS	UC				
B-5	52	Medium gray clay with silt	32	117.6	89.0	42	18	24	0.70	6		Silt streak failure	UC				

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		(SLS) and shells															
B-5																	
B-5	57	Medium gray clay with shells	46	108.4	74.3				0.60	6		MS	UC				
B-5	62	Medium gray clay	45			68	24	44									
B-6		Zero (0) feet top of deck															
B-6		Water line															
B-6																	
B-6		Mudline at El. +1.18' NAVD88															
B-6	4	Very soft dark gray organic clay with peat (organic content - 14%)	191	87.4	30.0	123	33	90	0.21	7	0.06	Bulge	UU	14			
B-6	6	Very soft dark gray organic clay with peat	357	81.0	17.7				0.11	14	0.17	Bulge	UU				
B-6	8	Very soft dark gray organic clay with peat ([1]FV @ 9' - 0.036 ksf)	311	79.0	19.2				0.08	7	0.29	Bulge	UU				
B-6	10	Very soft gray organic clay (specific gravity - 2.23)	149		33.0	125	48	77									
B-6	12	Very soft gray peat	425			358	147	211									
B-6	14	Very soft gray peat ([1]FV @ 14' - 0.036 ksf)	376	74.8	15.7				0.17	7	0.63	Bulge	UU				
B-6	16	Firm gray silty sand with clay													39.0		
B-6	18	Soft gray clayey silt with organic matter traces ([1]FV @ 19' - 0.108 ksf)	21	127.2	105.2	19	14	5	0.29	12	0.86	Bulge	UU				
B-6	20	Medium gray sandy clay	19	130.0	109.5				0.96	15		Yield	UC				

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-6	22	Stiff tan and gray clay with sand streaks and pockets	30	121.0	93.2	66	21	45	1.07	5		MS	UC				
B-6	27	Medium tan and gray clay with sand lenses, pockets and streaks	30	119.6	92.3				0.73	3		MS	UC				
B-6	32	Medium tan and gray clay (SLS)	49	112.0	75.4	86	30	56	0.93	5		SLS	UC				
B-6	33								0.96	6		MS					
B-6	37	Stiff tan and gray clay (SLS)	47	111.2	75.4				1.03	3		SLS	UC				
B-6																	
B-6	42	Medium tan and gray very sandy clay with sand pockets	27			27	15	12									
B-6	47	Medium tan and gray clay with sand lenses and pockets	36	117.2	86.3				0.84	7		MS	UC				
B-6																	
B-6	52	Medium gray clay with sand lenses and pockets	42	111.5	78.7	52	20	32	0.71	5		MS	UC				
B-6	57	Stiff gray clay															
B-6	62	Medium gray clay with sand streaks and pockets	37	115.2	84.3	58	21	37	0.54	5		MS	UC				
B-7		Zero (0) feet top of deck															
B-7		Water line															
B-7																	
B-7		Mudline at El. -0.10' NAVD88															
B-7	4	Very soft brown peat															

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-7	6	Very soft brown organic clay with peat															
B-7	8	Very soft brown organic clay with peat (organic content - 21%)	243			208	59	149						21			
B-7	10	Very soft brown organic clay with peat	294	71.2	18.1				0.13	6	0.40	Bulge	UU				
B-7	12	Very soft brown organic clay with peat (specific gravity - 1.66)	160		33.6	323	103	220									
B-7	14	Very soft brown organic clay with peat	320	76.8	18.3	290	108	182	0.04	15	0.63	Yield	UU				
B-7	16	Very soft brown organic clay with organic matter ([1]FV @ 16' - 0.05 ksf)	228	82.5	25.2				0.16	7	0.75	Bulge	UU				
B-7	18	Very soft brown organic clay	184			157	40	117									
B-7	20	Very soft brown clay with organic matter and 2" sandy clay layer ([1]FV @ 20' = 0.05 ksf)	166	106.4	40.0				0.15	6	0.98	Bulge	UU				
B-7	22	Medium gray silty clay with 2" sand layer	30	126.3	96.8	23	13	10	0.72	15		Yield	UC				
B-7																	
B-7	27	Stiff tan and gray clay with sand streaks	31	124.7	95.5	57	19	38	1.42	15		Yield	UC				
B-7	32	Stiff tan and gray clay with silt streaks	44	121.0	84.1				1.04	5		MS	UC				
B-7	37	Stiff tan and gray clay	42	114.7	80.9				1.38	4		MS	UC				
B-7	42	Medium tan and gray clay	43	111.0	77.5	88	28	60	0.58	15		Yield	UC				

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-8		Zero (0) feet top of deck															
B-8		Water line															
B-8																	
B-8		Mudline at El. +1.36' NAVD88															
B-8	4	Very soft dark gray organic clay and peat	469	64.8	11.4	641	192	449	0.05	5	0.06	Bulge	UU				
B-8	6	Very soft dark gray organic clay and peat	430	69.3	13.1				0.07	3	0.17	Bulge	UU				
B-8	8	Very soft dark gray organic clay and peat ([1]FV @ 9' - 0.022 ksf) (organic content - 45%)	697	78.3	9.8	382	136	246	0.06	2	0.40	Bulge	UU				
B-8	10	Very soft gray clay with organic traces (organic content - 5.4%)	91	77.9	40.8	63	27	36	0.06	4	0.29	Bulge	UU				
B-8	12	Soft gray clay with silt ([1]FV @ 13.5' - 0.214 ksf)	20	128.9	107.0				0.40	15	0.52	Yield	UU				
B-8	14	Medium gray clay with silt pockets	24	128.1	103.4				0.57	14	0.63	Bulge	UU				
B-8	16	Medium tan and gray very sandy clay	21	128.5	106.6	30	13	17	0.98	15		Yield	UC				
B-8	18	Stiff tan and gray sandy clay	19	129.4	108.9	37	13	24	1.25	15		Yield	UC				
B-8	20	Stiff tan and gray clay with sand streaks and pockets	22	130.1	106.6				1.04	5		VS	UC				
B-8	22	Stiff tan and gray clay with sand streaks and	59														

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Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		pockets															
B-8																	
B-8	27	Stiff tan and gray clay with sand streaks and pockets	23	127.9	103.8				1.96	10		MS	UC				
B-8																	
B-8	32	Stiff tan and gray clay	43			80	28	52									
B-8	37	Stiff tan and gray clay (SLS)	47	114.4	77.9				1.17	3		SLS	UC				
B-8	42	Stiff tan and gray clay (SLS)	37	112.3	82.2				0.88	6		SLS	UC				
B-8	43								1.02	4		MS					
B-9		Zero (0) feet top of deck															
B-9		Water line															
B-9																	
B-9		Mudline at El. +0.83' NAVD88															
B-9	3.5	Very soft dark gray peat (no usable recovery)															
B-9	5.5	Very soft dark gray organic clay and peat (organic content - 57%)	394	63.4	12.8				0.09	10	0.17	Bulge	UU	57			
B-9	7.5	Very soft black peat	736			606	171	435									
B-9	9.5	Very soft dark gray organic clay with peat ([1]FV @ 10' - 0.027 ksf) (organic content - 8%)	562	75.5	11.4				0.12	2	0.40		UU				
B-9	11.5	Very soft dark gray clay with silt and 1" peat layer ([1]FV unable to penetrate	27	107.2	84.4	49	20	29	0.13	6	0.52	Bulge	UU				

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PROJECT NAME Bayou Bonfouca Marsh Creation Project (PO-104)

LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		soil at 12' depth)															
B-9	13.5	Very soft gray very silty clay with organic matter (specific gravity - 2.67)	26		96.7	27	13	14									
B-9	15.5	Soft gray silty clay with silt pockets and ferrous nodules	29	116.1	89.9				0.26	15	0.75	Yield	UU				
B-9	17.5	Medium gray clay with silt	20	128.6	106.8	42	21	21	0.73	15		Yield	UC				
B-9	19.5	Stiff gray clay with sand	21	128.4	106.4				1.65	15		Yield	UC				
B-9	21.5	Stiff gray clay with sand streaks	20			43	16	27									
B-9	26.5	Stiff tan and gray clay with sand streaks and pockets	21	128.7	106.2				1.47	10		MS	UC				
B-9	31.5	Medium tan and gray clay with sand streaks and pockets	23	128.5	104.8				0.88	15		Yield	UC				
B-9	36.5	Soft tan and gray very sandy clay with shells	29	123.9	96.4	28	17	11	0.38	11		MS	UC				
B-9	41.5	Medium tan and gray clay with sand streaks, pockets and shells	26	123.1	97.6				0.90	15		Yield	UC				
B-9	46.5	Medium tan and gray clay with sand pockets and shells	23	118.9	96.8				0.87	6		MS	UC				
B-9																	
B-9	50.5	Medium gray clay	60			70	24	46									
B-9	55.5	Soft gray clay with sand pockets and streaks	37	115.2	84.2				0.39	15		Yield	UC				
B-9	60.5	Soft tan and gray clay	40	116.4	83.1	54	21	33	0.42	7		MS	UC				

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PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		with sand pockets															
B-10		Zero (0) feet top of deck															
B-10		Water line															
B-10																	
B-10		Mudline															
B-10	11.5	Very soft dark gray clay with silt	30			44	17	27									
B-10	13.5	Medium gray silty clay with ferrous nodules															
B-10	15.5	Soft gray very silty clay with ferrous nodules	25			26	14	12									
B-10	15.5	Soft gray very silty clay with ferrous nodules	25			26	14	12									
B-10	17.5	Stiff gray silty clay with ferrous nodules															
B-10	19.5	Stiff gray silty clay with ferrous nodules	24			40	18	22									
B-10	21.5	Stiff gray silty clay with ferrous nodules															
B-10	23.5	Medium gray clay with ferrous nodules	38			53	19	34									
B-10	25.5	Medium gray silty clay with ferrous nodules															
B-10	27.5	Medium gray clay with ferrous nodules	34			84	29	55									
B-10	29.5	Medium gray silty clay with ferrous nodules															
B-11		Zero (0) feet top of deck															
B-11		Water line															
B-11																	

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LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-11		Mudline															
B-11	10	Very soft gray silty clay with ferrous nodules															
B-11	12	Soft gray very silty clay with ferrous nodules	24			31	14	17									
B-11	14	Medium gray sandy clay with ferrous nodules															
B-11	16	Medium gray very sandy clay with ferrous nodules	24			28	14	14									
B-11	18	Medium brown and gray clay with ferrous nodules															
B-11	20	Medium green and gray clay with calcareous and ferrous nodules	25			70	21	49									
B-11	22	Stiff green and gray clay with ferrous nodules															
B-11	24	Stiff green and gray clay with ferrous nodules	27			69	20	49									
B-11	26	Stiff green and gray clay with ferrous nodules															
B-11	28	Stiff green and gray clay with silt, sand pockets and ferrous nodules	28			47	14	33									
B-12		Zero (0) feet top of deck															
B-12		Water line															
B-12																	
B-12		Mudline															
B-12	11	Very soft dark gray clayey sand with shells	22			29	19	10							21.0		
B-12	13	Very soft dark gray sandy															

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LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		clay with shells															
B-12	15	Medium gray clay with silt, ferrous nodules and sand pockets	25			44	18	26									
B-12	17	Medium gray silty clay with calcareous and ferrous nodules															
B-12	19	Medium gray clay with calcareous and ferrous nodules	23			54	20	34									
B-12	21	Medium gray silty clay with calcareous and ferrous nodules															
B-12	23	Medium gray clayey silt with calcareous nodules	25			25	19	6									
B-12	25	Medium brown and gray silty clay with sand pockets and ferrous nodules															
B-12	27	Medium tan and gray clay with silt pockets, lenses and ferrous nodules	34			49	20	29									
B-12	29	Medium gray silty clay with silt pockets and ferrous nodules															
B-13		Zero (0) feet top of deck															
B-13		Water line															
B-13																	
B-13		Mudline															
B-13	11	Very soft dark gray very	33			31	17	14									

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LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
		sandy clay with sand pockets															
B-13	13	Loose dark gray sandy clay with shells															
B-13	15	Soft gray very sandy clay with ferrous nodules	17			23	12	11									
B-13	17	Soft gray very sandy clay with ferrous nodules															
B-13	19	Medium gray very silty clay with ferrous nodules	18			30	12	18									
B-13	21	Medium gray silty clay with ferrous nodules															
B-13	23	Medium gray clay with ferrous nodules, sand pockets and lenses	35			70	23	47									
B-13	25	Medium gray clay with ferrous nodules															
B-13	27	Medium gray clay with ferrous nodules	31			67	20	47									
B-13	29	Medium gray clay with silt pockets, lenses and ferrous nodules	22			42	17	25									
B-14		Zero (0) feet top of deck															
B-14		Water line															
B-14																	
B-14		Mudline															
B-14	11	Very soft dark gray sandy clay															
B-14	13	Very soft dark gray sandy clay with ferrous nodules	31														

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LOCATION St. Tammany Parish, Louisiana

PROJECT NUMBER 16715-023-00

NOTES

Borehole	Top Depth	Soil Description	Moisture Content (%)	Wet Density (pcf)	Dry Density (pcf)	Liquid Limit	Plastic Limit	Plasticity Index	Compressive Strength TSF	Strain %	Start Pressure (KSF)	Failure	Test Type	Organic Content (%)	#200 Sieve	Alpha Angle	Comments
B-14	15	Very soft gray clay with ferrous nodules and shells															
B-14	17	Very soft tan and gray clay with ferrous nodules	34			58	20	38									
B-14	19	Very soft gray clay with ferrous nodules															
B-14	21	Very soft tan and gray clay with ferrous nodules	30			75	22	53									
B-14	23	Medium gray clay with sand pockets, lenses and ferrous nodules (cuttings)															
B-14	25	Stiff tan and gray clay with ferrous and calcareous nodules	42			76	23	53									
B-14	27	Medium brown and gray clay with ferrous nodules															
B-14	29	Stiff brown and gray clay with silt pockets and ferrous nodules	34			63	19	44									

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	6.0 - 8.0	150	0.089621308	338.0515751	0.338
B-1	10.0 - 12.0	93	0.055565211	209.5919765	0.210
B-2	4.0 - 6.0	39	0.02330154	87.89340952	0.088
B-2	6.0 - 8.0	51	0.030471245	114.9375355	0.115
B-2	8.0 - 10.0	22	0.013144459	49.58089768	0.050
B-2	10.0 - 12.0	28	0.016729311	63.10296068	0.063
B-2	12.0 - 14.0	50	0.029873769	112.6838584	0.113
B-2	14.0 - 16.0	98	0.058552588	220.8603624	0.221
B-2	16.0 - 18.0	40	0.023899016	90.14708669	0.090
B-2	18.0 - 20.0	35	0.020911639	78.87870085	0.079
B-2	20.0 - 22.0	38	0.022704065	85.63973235	0.086
B-2	22.0 - 24.0	77	0.046005605	173.5331419	0.174
B-2	27.0 - 29.0	93	0.055565211	209.5919765	0.210
B-2	32.0 - 34.0	81	0.048395507	182.5478505	0.183
B-2	37.0 39.0	99	0.059150064	223.1140396	0.223
B-2	42.0 44.0	131	0.078269276	295.2317089	0.295
B-3	4.0 - 6.0	56	0.033458622	126.2059214	0.126
B-3	6.0 - 8.0	52	0.03106872	117.1912127	0.117
B-3	8.0 - 10.0	33	0.019716688	74.37134652	0.074
B-3	10.0 - 12.0	45	0.026886393	101.4154725	0.101
B-3	12.0 - 14.0	135	0.080659178	304.2464176	0.304
B-3	14.0 - 16.0	68	0.040628326	153.2500474	0.153
B-3	16.0 - 18.0	73	0.043615703	164.5184332	0.165
B-3	18.0 - 20.0	63	0.03764095	141.9816615	0.142
B-3	20.0 - 22.0	59	0.035251048	132.9669529	0.133
B-3	27.0 - 29.0	57	0.034056097	128.4595985	0.128
B-4	6.0 - 8.0	100	0.059747539	225.3677167	0.225
B-5	4.0 - 6.0	71	0.042420753	160.0110789	0.160
B-5	6.0 - 8.0	99	0.059150064	223.1140396	0.223
B-5	47.0 - 49.0	292	0.174462814	658.0737328	0.658
B-5	62.0 - 64.0	138	0.082451604	311.0074491	0.311
			0	0	0.000
B-6	4.0 - 6.0	35	0.020911639	78.87870085	0.079
B-6	6.0 - 8.0	52	0.03106872	117.1912127	0.117
B-6	8.0 - 10.0	45	0.026886393	101.4154725	0.101
B-6	10.0 - 12.0	57	0.034056097	128.4595985	0.128

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-6	12.0 - 14.0	78	0.04660308	175.786819	0.176
B-6	14.0 - 16.0	105	0.062734916	236.6361026	0.237
B-6	16.0 - 18.0	110	0.065722293	247.9044884	0.248
B-6	18.0 - 20.0	155	0.092608685	349.3199609	0.349
B-6	20.0 - 22.0	#N/A	#N/A	#N/A	#N/A
B-6	22.0 - 24.0	#N/A	#N/A	#N/A	#N/A
B-6	27.0 29.0	#N/A	#N/A	#N/A	#N/A
B-6	32.0 34.0	#N/A	#N/A	#N/A	#N/A
B-6	37.0 39.0	#N/A	#N/A	#N/A	#N/A
B-6	42.0 44.0	#N/A	#N/A	#N/A	#N/A
B-6	47.0 49.0	336	0.200751731	757.2355282	0.757
B-6	52.0 54.0	234	0.139809241	527.3604571	0.527
B-6	57.0 59.0	#N/A	#N/A	#N/A	#N/A
B-6	62.0 64.0	230	0.137419339	518.3457485	0.518
			0	0	0.000
B-7	4.0 - 6.0	36	0.021509114	81.13237802	0.081
B-7	6.0 - 8.0	40	0.023899016	90.14708669	0.090
B-7	8.0 - 10.0	44	0.026288917	99.16179536	0.099
B-7	10.0 - 12.0	28	0.016729311	63.10296068	0.063
B-7	12.0 - 14.0	30	0.017924262	67.61031502	0.068
B-7	14.0 - 16.0	41	0.024496491	92.40076386	0.092
B-7	16.0 - 18.0	85	0.050785408	191.5625592	0.192
B-7	18.0 - 20.0	#N/A	#N/A	#N/A	#N/A
B-7	20.0 - 22.0	#N/A	#N/A	#N/A	#N/A
B-7	22.0 - 24.0	#N/A	#N/A	#N/A	#N/A
B-7	27.0 - 29.0	#N/A	#N/A	#N/A	#N/A
B-7	32.0 - 34.0	#N/A	#N/A	#N/A	#N/A
B-7	37.0 - 39.0	#N/A	#N/A	#N/A	#N/A
B-7	42.0 - 44.0	#N/A	#N/A	#N/A	#N/A
			0	0	0.000
B-8	4.0 - 6.0	19	0.011352032	42.81986618	0.043
B-8	6.0 - 8.0	21	0.012546983	47.32722051	0.047
B-8	8.0 - 10.0	56	0.033458622	126.2059214	0.126
B-8	10.0 - 12.0	89	0.05317531	200.5772679	0.201
B-8	12.0 - 14.0	#N/A	#N/A	#N/A	#N/A
B-8	14.0 - 16.0	238	0.142199143	536.3751658	0.536
B-8	16.0 - 18.0	#N/A	#N/A	#N/A	#N/A
B-8	18.0 - 20.0	#N/A	#N/A	#N/A	#N/A
B-8	20.0 - 22.0	#N/A	#N/A	#N/A	#N/A

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-8	22.0 - 24.0	#N/A	#N/A	#N/A	#N/A
B-8	27.0 29.0	#N/A	#N/A	#N/A	#N/A
B-8	32.0 - 34.0	#N/A	#N/A	#N/A	#N/A
B-8	37.0 - 39.0	#N/A	#N/A	#N/A	#N/A
B-8	42.0 - 44.0	274	0.163708257	617.5075438	0.618
B-9	3.5 - 5.5	#N/A	#N/A	#N/A	#N/A
B-9	5.5 - 7.5	39	0.02330154	87.89340952	0.088
B-9	7.5 - 9.5	35	0.020911639	78.87870085	0.079
B-9	9.5 - 11.5	13	0.00776718	29.29780317	0.029
B-9	11.5 - 13.5	33	0.019716688	74.37134652	0.074
B-9	13.5 - 15.5	11	0.006572229	24.79044884	0.025
B-9	15.5 - 17.5	168	0.100375865	378.6177641	0.379
B-9	17.5 - 19.5	#N/A	#N/A	#N/A	#N/A
B-9	19.5 - 21.5	#N/A	#N/A	#N/A	#N/A
B-9	21.5 - 23.5	#N/A	#N/A	#N/A	#N/A
B-9	23.5 - 25.5	#N/A	#N/A	#N/A	#N/A
B-9	26.5 - 28.5	#N/A	#N/A	#N/A	#N/A
B-9	31.5 - 33.5	137	0.081854128	308.7537719	0.309
B-9	36.5 - 38.5	176	0.105155668	396.6471814	0.397
B-9	41.5 - 43.5	233	0.139211766	525.10678	0.525
B-9	46.5 - 48.5	280	0.167293109	631.0296068	0.631
B-9	50.5 - 52.5	#N/A	#N/A	#N/A	#N/A
B-9	55.5 - 57.5	#N/A	#N/A	#N/A	#N/A
B-9	60.5 - 62.5	#N/A	#N/A	#N/A	#N/A
			0	0	0.000
B-10	13.5 - 15.5	126	0.075281899	283.9633231	0.284

Project: Bayou Bonfouca Marsh Creation (PO-104)
Project Location: St. Tammany Parish, Louisiana
Project No.: 16715-023-00

S. No.	Boring No.	Field Vane Test		Field Vane Instrument Used	Color of Field Vane Used	Instrument Reading	Shear Stress Interpolated from Geonor H-10 Vane Borer Calibration Curves			Plasticity Index	Correction Factor	PI Corrected Shear Stress	
		Depth Below Barge Deck	Depth Below Mudline (feet)*				kN/m^2	psf	ksf	%		psf	ksf
1	B-1			2555	Red		0.00	0	0.000			0	0.000
2	B-1			2555	Red		0.00	0	0.000			0	0.000
3	B-2	10	6	2555	Red	3	1.57	33	0.033	115	0.556	18	0.018
4	B-2	14	18	2555	Red	8	4.18	87	0.087	115	0.556	49	0.049
5	B-3	14	10	2555	Red	4	2.09	44	0.044	98	0.601	26	0.026
6	B-3	18	15	2555	Red	7	3.66	76	0.076	41	0.847	65	0.065
7	B-4	9	5	2555	Red	4	2.09	44	0.044	ML	1.1	48	0.048
8	B-4	16	12	2555	Red	17	8.89	186	0.186	24	0.963	179	0.179
9	B-5	14	10	2555	Red	14	7.32	153	0.153	5	1.1	168	0.168
10	B-5	24	20	2555	Red	20	10.46	218	0.218	8	1.1	240	0.240
11	B-6	9	5	2555	Red	3	1.57	33	0.033	9	1.1	36	0.036
12	B-6	14	10	2555	Red	6	3.14	66	0.066	211	0.548	36	0.036
13	B-6	19	15	2556	Red	9	4.71	98	0.098	5	1.1	108	0.108
14	B-7	16	12	2555	Red	9	4.71	98	0.098	OH	0.58	57	0.057
15	B-7	20	16	2555	Red	9	4.71	98	0.098	OH	0.58	57	0.057
16	B-8	9	5	2555	Red	4	2.09	44	0.044	246	0.5	22	0.022
17	B-8	13.5	9.5	2555	Red	23	12.08	252	0.252	CH	0.85	214	0.214
18	B-9	10	6.5	2555	Red	5	2.62	55	0.055	PT	0.5	27	0.027
19	B-9	12	8.5	2555	Red	Refusal	#N/A	#N/A	#N/A	29	0.924	#N/A	#N/A

LABORATORY DATA
ORGANIC CONTENT
ASTM D 2974
Method C

PROJECT NO: 16715-023-00

BORING NUMBER	DEPTH (FEET)	% ORGANIC
B-1	6.0 - 8.0	17.0
B-1	10.0 - 12.0	25.0
B-2	4.0 - 6.0	30.0
B-2	10.0 - 12.0	29.0
B-2	14.0 - 16.0	17.0
B-3	4.0 - 6.0	35.0
B-5	14.0 - 16.0	2.5
B-6	4.0 - 6.0	14.0
B-7	8.0 - 10.0	21.0
B-8	8.0 - 10.0	45.0
B-8	10.0 - 12.0	5.4
B-9	5.5 - 7.5	57.0
B-9	9.5 - 11.5	8.0

Final Report:

Settling Properties of Sediment Slurry for the Louisiana Department of Natural Resources / Office of Coastal Protection and Restoration Bayou Bonfouca Marsh Creation (PO-104)

GeoEngineers Project Number: 16715-023-00

Submitted to:

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Submitted by:

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October 7, 2011

1.0 Introduction, Scope, and Objectives

The objective of the experimental testing reported herein was to evaluate zone settling and compression settling properties of sediments which may be hydraulically dredged as part of the Louisiana Department of Natural Resources / Office of Coastal Protection and Restoration Bayou Bonfouca Marsh Creation (PO-104) (GeoEngineers project number 16715-023-00).

2.0 Experimental Procedures and Results

Water (labeled as: 16715-023-00, B-10 to B-14) and homogenized sediment samples (labeled as: B-10 to B-14) from the proposed dredging location were provided by GeoEngineers, Inc. for laboratory testing. The salinity of water provided from the proposed dredging site, measured in duplicate for each water sample in terms of total dissolved solids (TDS) following *Standard Methods*[1], ranged from 4.6 to 5.1 g/L, with an average of 4.8 g/L.

Slurry was prepared using an equal mass (wet basis) from the five homogenized sediment samples and water from the proposed dredging location. Slurry containing the fine-grained fraction of sediments was obtained by thoroughly mixing the slurry and then allowing coarse grained materials (e.g., sand and shells), to separate by differential settling as described in the US Army Corps of Engineers Manual No. 1110-2-5027[2]. The fine-grained sediment slurry was loaded into a large-scale (8.0 inch ID) column while mixing with air sparging as described in the US Army Corps of Engineers Manual No. 1110-2-5027[2]. Solids concentrations in the slurry at the start of the settling test were measured in samples collected along the height of the column, as described in the US Army Corps of Engineers Manual No. 1110-2-5027[2]. The total suspended solids (TSS) concentration at the start of the settling test was 135.4 g/L, close to but slightly less than the recommended testing concentration of 150 g/L.

A clear sediment-water interface was observed shortly after the start of the settling test (<30 minutes), indicating zone settling. The height of the sediment-water interface above the bottom of the column was measured and recorded over a period lasting more than 15 days as depicted in Figure 1 (see Appendix A for tabulated data).

50 mL samples were collected from the clarified layer above the sediment-water interface for measurement of TSS as described in the US Army Corps of Engineers Manual No. 1110-2-5027[2]. Because the TSS concentrations in the samples collected for characterization of flocculent settling in the zone above the sediment-water interface were low, the mass of suspended solids retained on the filters was lower than the 5 mg recommended by the US Army Corps of Engineers Manual No. 1110-2-5027[2]. Based on the data collected, the TSS concentration in all samples for analysis of the flocculent settling above the sediment-water interface are reported here as <100 mg/L (calculated as the minimum residue mass required for acceptable analysis, 5 mg, divided by the sample volume filtered, 0.05 L).

As shown in Figure 1, zone settling was observed during the first portion of the settling test, followed by compression settling thereafter.

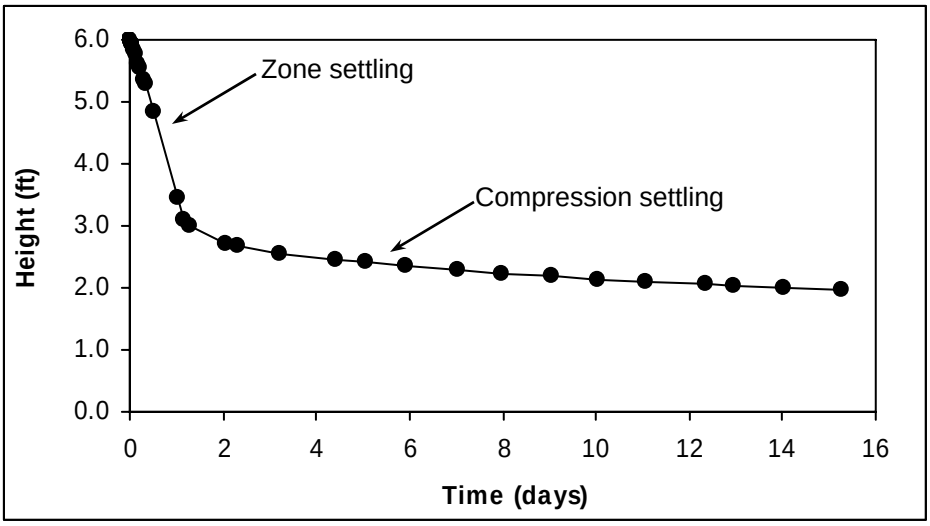

Figure 1: Interface height as a function of time during the pilot-scale settling test.

Data for the first 1.2 days of the settling test, during which zone settling was observed, is depicted separately in Figure 2. A linear regression was performed with the resulting equation and correlation coefficient depicted on the graph. The slope of the regression line, which corresponds to the zone settling velocity, was 2.44 ft/day (0.102 ft/hour).

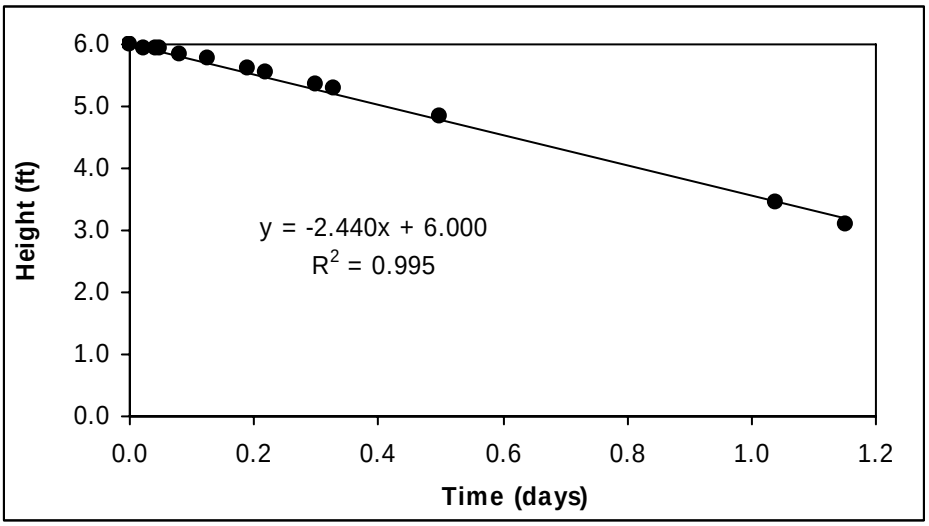

Figure 2: Interface height as a function of time during the zone settling portion of the pilot-scale settling test.

For the portion of the settling test during which compression settling was observed, the concentration in the settled solids at each time interval was calculated using the following equation (equation 3-11 in ref. 2).

$$C = \frac{C_o H_i}{H_t}$$

Where:

C = slurry suspended solids concentration at time t (g/L)
C_o = initial slurry suspended solids concentration (g/L)
H_i = initial slurry height (ft)
H_t = height of the interface at time t (ft)

The corresponding suspended solids concentration as a function of time during compression settling is depicted in Figure 3.

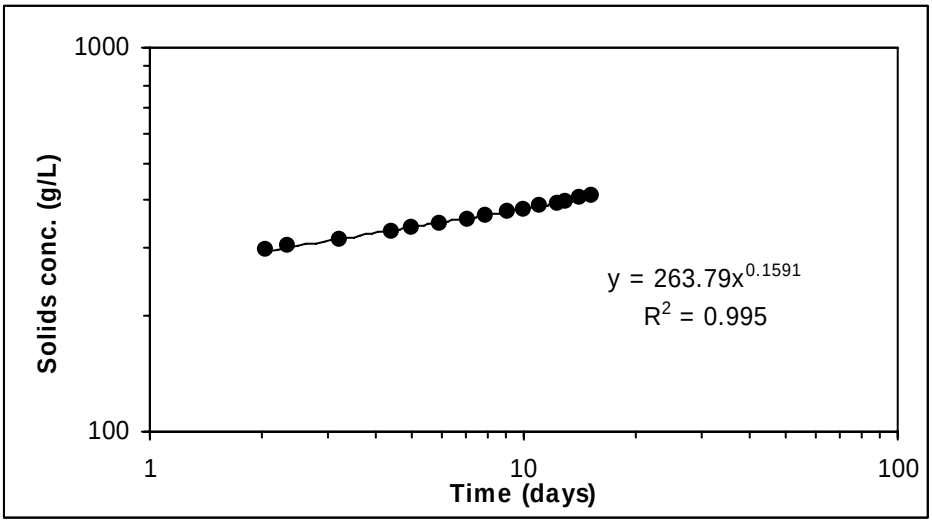

Figure 3: Concentration of settled solids as a function of time during the compression settling portion of the pilot-scale settling test.

3.0 References

[1] American Public Health Association (1998) *Standard Methods for the Examination of Water and Wastewater*, 20th Edition, American Water Works Association, Water Pollution Control Federation, Washington, DC.

[2] US Army Corps of Engineers (1987) *Engineering and Design - Confined Disposal of Dredged Material*, Engineer Manual No. 1110-2-5027.

Appendix A: Interface height as a function of time during the pilot-scale column settling test.

The height of the interface above the bottom of the column was recorded as a function of time as summarized in the table below.

Elapsed duration (hr)	Interface Height (ft)
0.00	6.000
0.53	5.950
1.00	5.950
1.17	5.929
1.92	5.850
3.00	5.758
4.58	5.613
5.28	5.538
7.18	5.363
7.87	5.292
12.00	4.850
24.92	3.450
27.63	3.083
30.75	2.992
49.00	2.717
55.92	2.671
76.92	2.558
106.0	2.450
121.0	2.404
142.5	2.342
169.3	2.275
191.0	2.225
217.3	2.179
241.0	2.138
265.3	2.100
296.0	2.058
311.1	2.042
337.0	2.008
366.3	1.975

Sediment Geotechnical Properties for the Bayou Bonfouca Marsh Creation Project

FINAL REPORT

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October 25, 2011

INTRODUCTION

This report presents the results of laboratory testing conducted at the Louisiana State University to determine the index and self-weight consolidation properties of the hydraulic fill material to be used for the Bayou Bonfouca Marsh Creation Project. These tests were conducted on five composite samples that were homogenized from tube samples taken from different borings, B-10, B-11, B-12, B-13, and B-14, respectively.

EXPERIMENTS

Five buckets of composite soil samples homogenized from Borings B-10 to B-14, respectively, were provided by GeoEngineers, Inc. for laboratory testing. Based on the quantity of the samples provided, further combination and mixing of the five samples were performed, resulting in three composite samples for subsequent index and self-weight consolidation testing (Table 1). Sufficient mixing of each composite sample was then performed before utilization. Basic index properties, including specific gravity, Atterberg limits, and particle size distribution were determined on each of the composite samples (i.e., CS1 to CS3 in Table 1) by following the relevant ASTM standard methods.

Table 1. Three composite samples mixed from tube samples of different borings.

Composite sample ID	Boring for the sample
CS1	B-10
CS2	B-11 and B-13
CS3	B-12 and B-14

Three self-weight consolidation tests were also performed on the three composite samples (CS1 to CS3), respectively. These consolidation tests followed the methods specified in the US Army Corps of Engineers Manual No. 1110-2-5027 (USACE, 1987) and the University of Texas Method (Pedersen, 2001). A low pressure loading system was employed to perform the tests. The homogenized composite samples were diluted to a consistency of (1.0-1.5) times the liquid limit (1.0-1.5 x w_L) of the samples to make sure the samples were reconstituted to a slurry consistency allowing free flow under gravity, which eases sample preparation. One-dimensional incremental loading method was used for the consolidation, with stresses ranging from 10 to 400 psf. Both the Casagrande (or Log time) and Taylor (or Root time) methods were employed to analyze the results to determine the coefficient of consolidation, c_v.

RESULTS

Table 2 summarizes the specific gravity and Atterberg limits of the three composite samples.

Figure 1 shows the particle size distribution curves for the three composite samples.

Tables 3, 4, and 5 summarize the three self-weight consolidation test results for the three composite samples, respectively.

Figures 2, 3, and 4 present the self-weight consolidation curves of the three composite samples, respectively.

Figures 5, 6, and 7 present the relationship between the coefficient of consolidation and vertical effective stress and the relationship between void ratio and coefficient of hydraulic conductivity for the three composite samples, respectively.

REFERENCES

American Society for Testing and Materials (ASTM) (2006). Annual Book of ASTM Standards, Vol. 04.08.

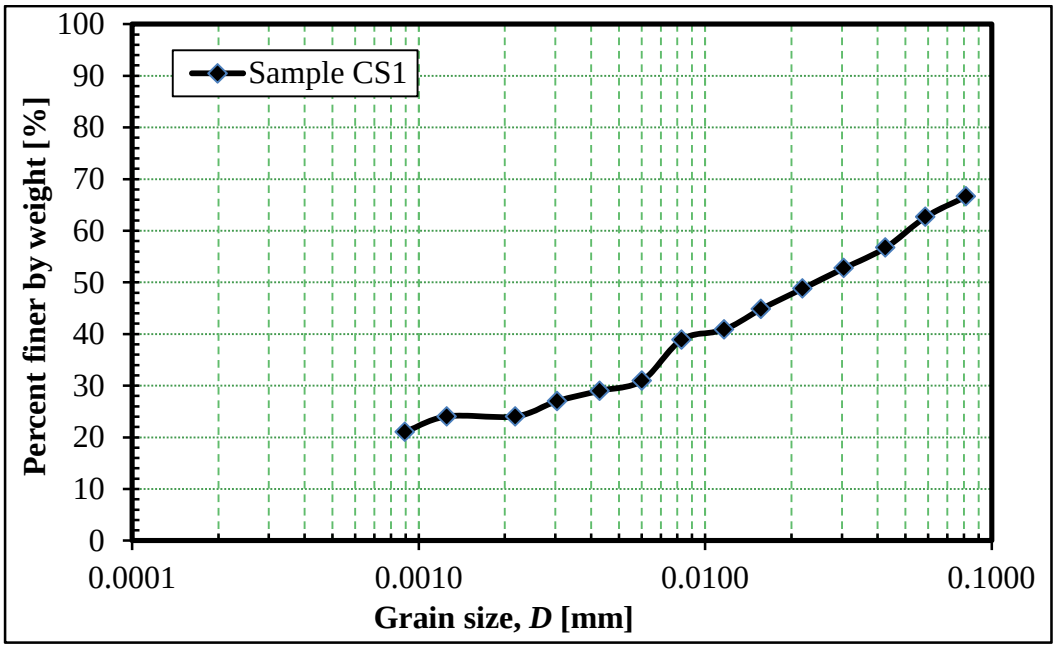
Pedersen, R.C. (2001). Model Offshore Soil Deposit: Design, Preparation, and Characterization. M.S. Thesis, University of Texas at Austin.

US Army Corps of Engineers (USACE) (1987). Engineering and Design – Confined Disposal of Dredged Material, Engineering Manual No. 1110-2-5027.

Table 2. Summary of index properties of the three composite samples.

Sample ID	Natural water content w (%)	Specific gravity G_s	Liquid limit w_L (%)	Plastic limit w_P (%)	Plasticity index I_P (%)
CS1	29.74	2.70	34.50	15.72	18.78
CS2	27.39	2.70	23.95	18.97	4.98
CS3	25.31	2.69	28.50	13.98	14.52

Note: During index testing, the samples were found to contain a lot of shells.



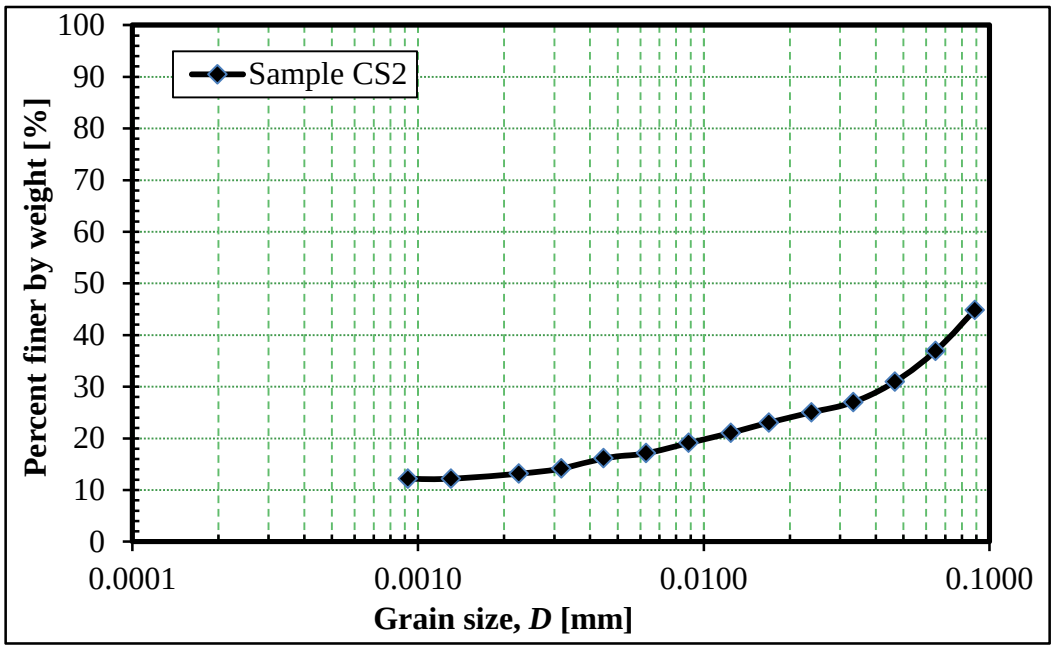


Figure 1. Particle size distribution curves for the three composite samples (to be continued).

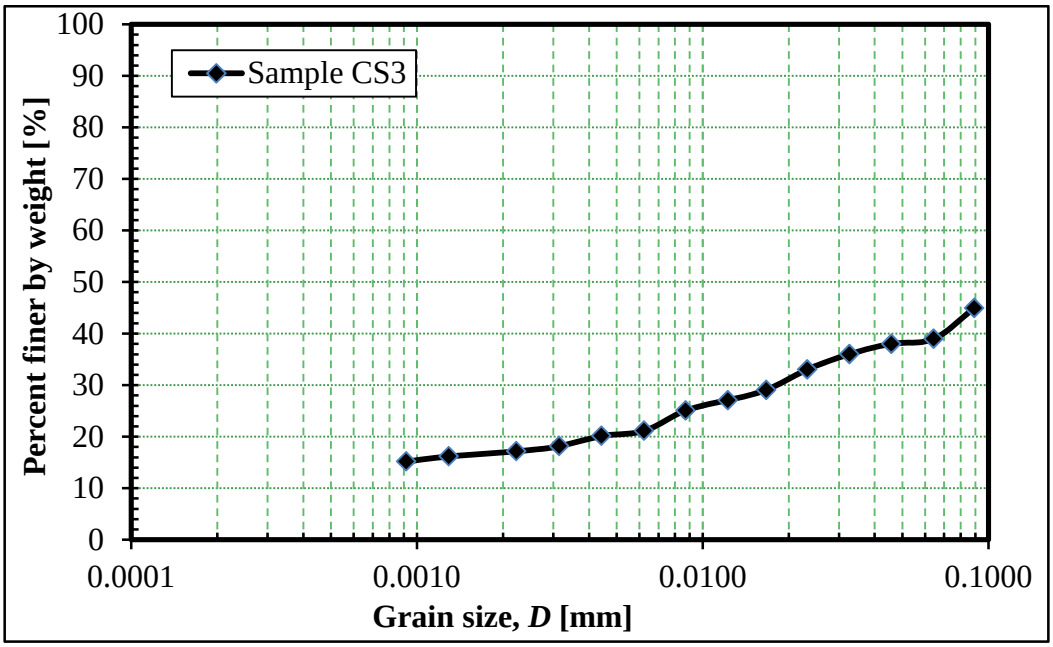


Figure 1. Particle size distribution curves for the three composite samples (continued).

Table 3. Self weight consolidation test results for the composite sample CS1.

σ'_v	d_{100}	ε_{100}	Δe_{100}	t_{50}	t_{90}	c_v (log(t))	c_v (sqrt(t))
[psf]	[in]			[min]	[min]	[ft^2/min]	[ft^2/min]
10							
25	0.056	0.056	0.14464	190	702.25	1.69718E-06	1.9766E-06
50	0.0906	0.0906	0.234	200	492.84	1.46413E-06	2.5576E-06
100	0.1242	0.1242	0.32078	105	380.25	2.58763E-06	3.0758E-06
200	0.19	0.19	0.49073	180	756.25	1.34165E-06	1.3746E-06
400	0.2442	0.2442	0.63072	95	368.64	2.19005E-06	2.4294E-06

e_0	H_f	H_i	H_d	e_{100}	c_c	$c_{\alpha\varepsilon}$	$c_{\alpha e}$	σ'_a	γ_w	k	k
1.5828	[in]	[in]	[in]		0.417			[psf]	[pcf]	[ft/min]	[ft/day]
	1	1							62.4		
	0.942	1	0.4855	1.43816		0.0109	0.02805	17.5		4.24E-07	0.000611
	0.9086	0.942	0.46265	1.3488		0.008	0.02066	37.5		1.71E-07	0.000246
	0.874	0.9086	0.44565	1.26202		0.0057	0.0147	75		1.51E-07	0.000217
	0.8067	0.8739	0.42015	1.09207		0.0125	0.03226	150		3.91E-08	5.63E-05
	0.7533	0.8066	0.38998	0.95208		0.005	0.01284	300		3.19E-08	4.6E-05

Table 4. Self weight consolidation test results for the composite sample CS2.

σ'_v	d_{100}	ε_{100}	Δe_{100}	t_{50}	t_{90}	c_v (log(t))	c_v (sqrt(t))
[psf]	[in]			[min]	[min]	[ft^2/min]	[ft^2/min]
10							
25	0.0422	0.0422	0.08653	62	196	5.27253E-06	7.1793E-06
50	0.068	0.068	0.13943	28	51.84	1.08361E-05	2.5194E-05
100	0.1022	0.1022	0.20955	37	174.24	7.67905E-06	7.0193E-06
200	0.143	0.143	0.29321	27	86.49	9.69299E-06	1.3025E-05
400	0.1704	0.1704	0.34939	20	96.04	1.20993E-05	1.0846E-05

e_0	H_f	H_i	H_d	e_{100}	c_c	$c_{\alpha\varepsilon}$	$c_{\alpha e}$	σ'_a	γ_w	k	k
1.0504	[in]	[in]	[in]		0.228			[psf]	[pcf]	[ft/min]	[ft/day]
	1	1							62.4		
	0.9553	1	0.48883	0.96387		0.0026	0.00533	17.5		9.07E-07	0.001307
	0.9285	0.9553	0.47094	0.91097		0.0046	0.00935	37.5		8.7E-07	0.001253
	0.8945	0.9284	0.45573	0.84085		0.0035	0.00707	75		3.08E-07	0.000444
	0.855	0.8945	0.43738	0.75719		0.0016	0.00335	150		1.95E-07	0.00028
	0.8272	0.8551	0.42058	0.70101		0.0023	0.00472	300		1.21E-07	0.000175

Table 5. Self weight consolidation test results for the composite sample CS3.

σ'_v	d_{100}	ε_{100}	Δe_{100}	t_{50}	t_{90}	c_v (log(t))	c_v (sqrt(t))
[psf]	[in]			[min]	[min]	[ft^2/min]	[ft^2/min]
10							
25	0.0322	0.0322	0.06786	45	163.84	7.32095E-06	8.6555E-06
50	0.0574	0.0574	0.12097	95	361	3.26442E-06	3.6979E-06
100	0.0874	0.0874	0.18419	40	148.84	7.34312E-06	8.4948E-06
200	0.134	0.134	0.2824	42	125.44	6.43436E-06	9.2736E-06
400	0.172	0.172	0.36248	40	108.16	6.12309E-06	9.7475E-06

e_0	H_f	H_i	H_d	e_{100}	c_c	$c_{\alpha\varepsilon}$	$c_{\alpha e}$	σ'_a	γ_w	k	k
1.1075	[in]	[in]	[in]		0.25			[psf]	[pcf]	[ft/min]	[ft/day]
	1	1							62.4		
	0.9629	1	0.49073	1.0396		0.0043	0.0091	17.5		1.34E-06	0.001935
	0.9415	0.963	0.47612	0.98649		0.002	0.00415	37.5		2.8E-07	0.000403
	0.9121	0.9414	0.46336	0.92327		0.0005	0.00098	75		3.15E-07	0.000453
	0.8656	0.9122	0.44445	0.82506		0.0008	0.00176	150		1.38E-07	0.000198
	0.8268	0.8657	0.42312	0.74498		0.0021	0.00434	300		6.56E-08	9.44E-05

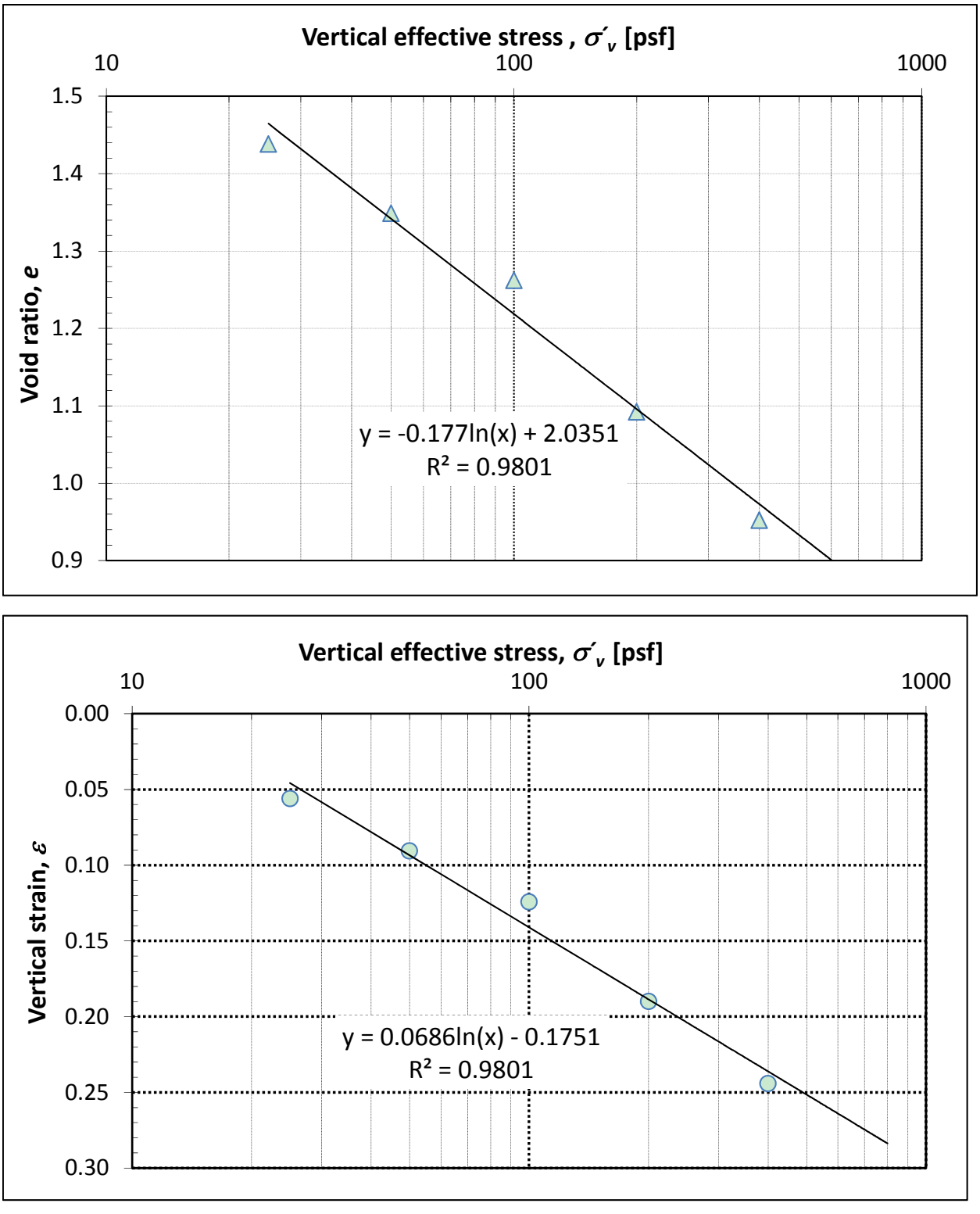
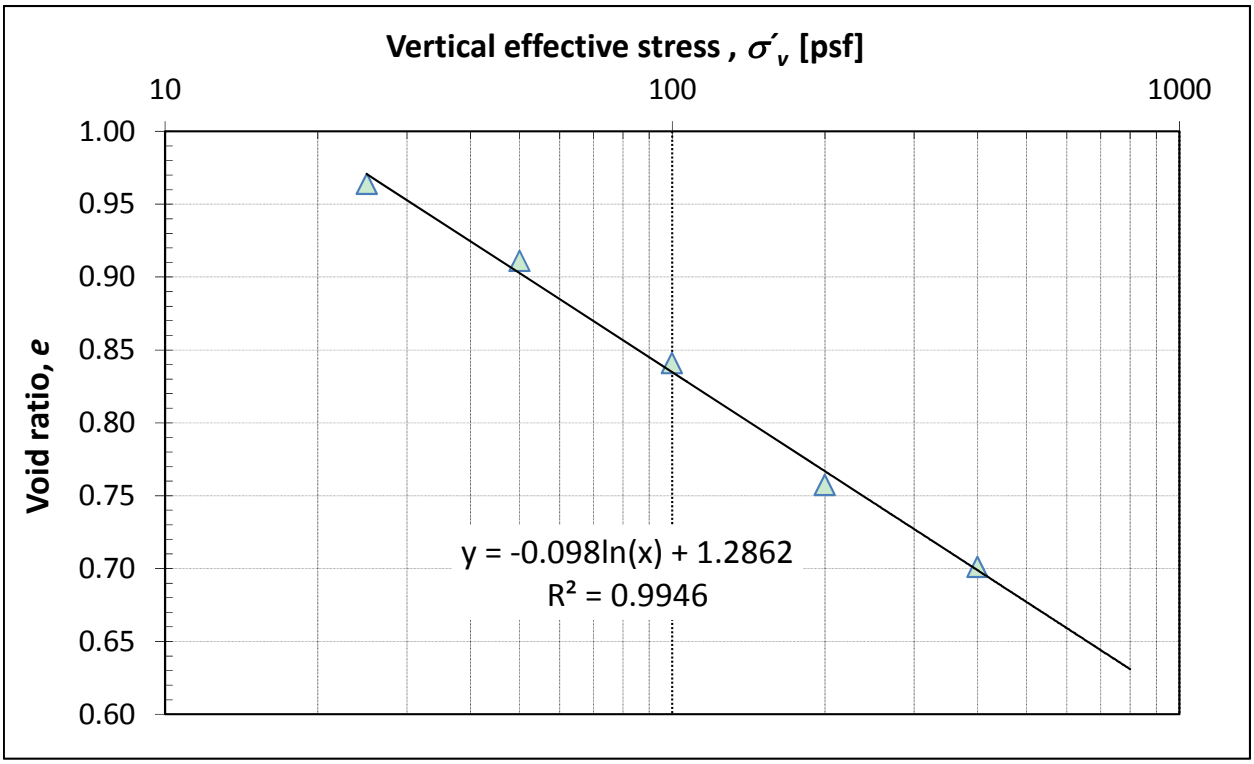


Figure 2. The self-weight consolidation curves for Sample CS1.



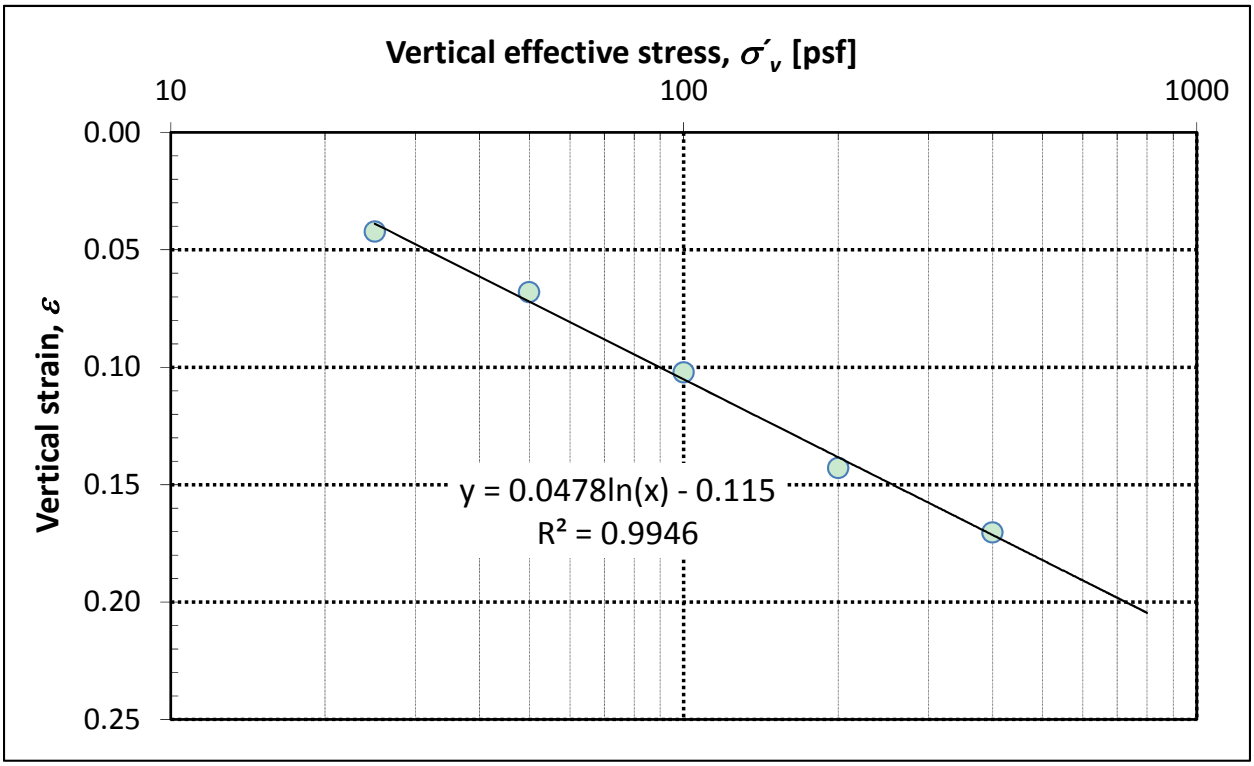
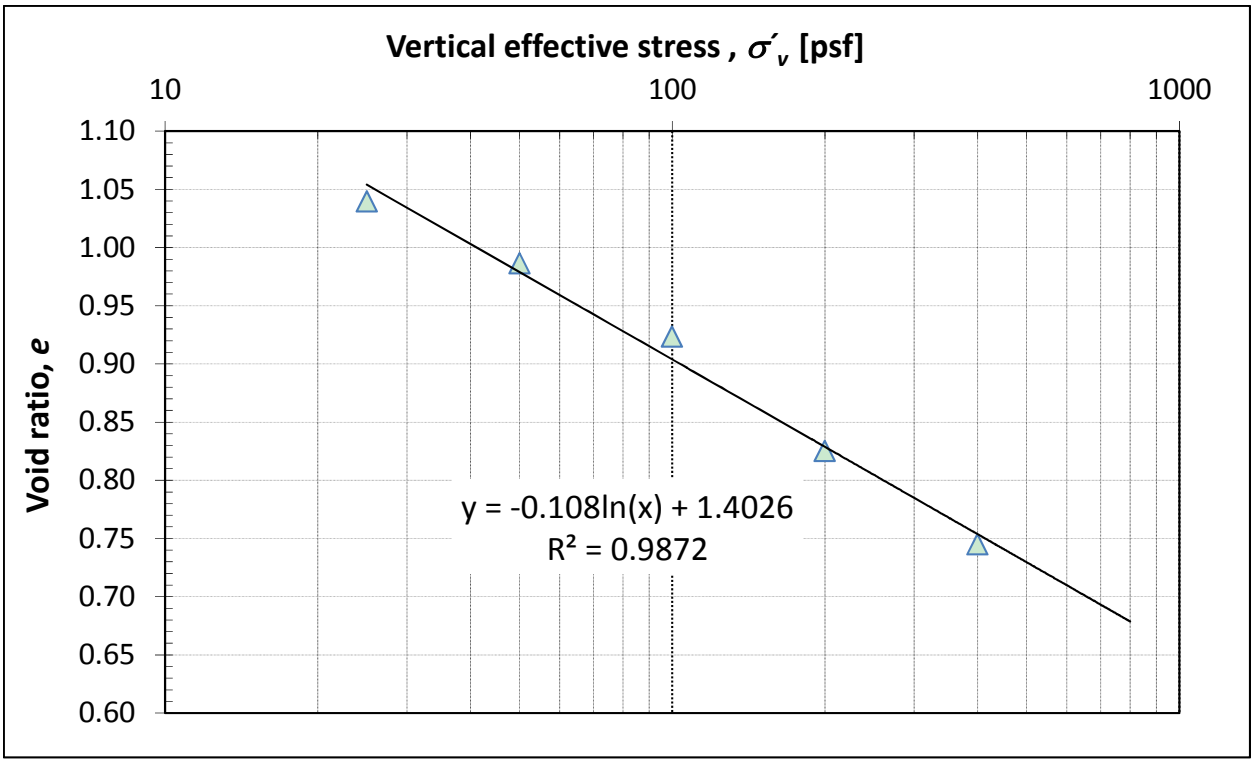


Figure 3. The self-weight consolidation curves for Sample CS2.



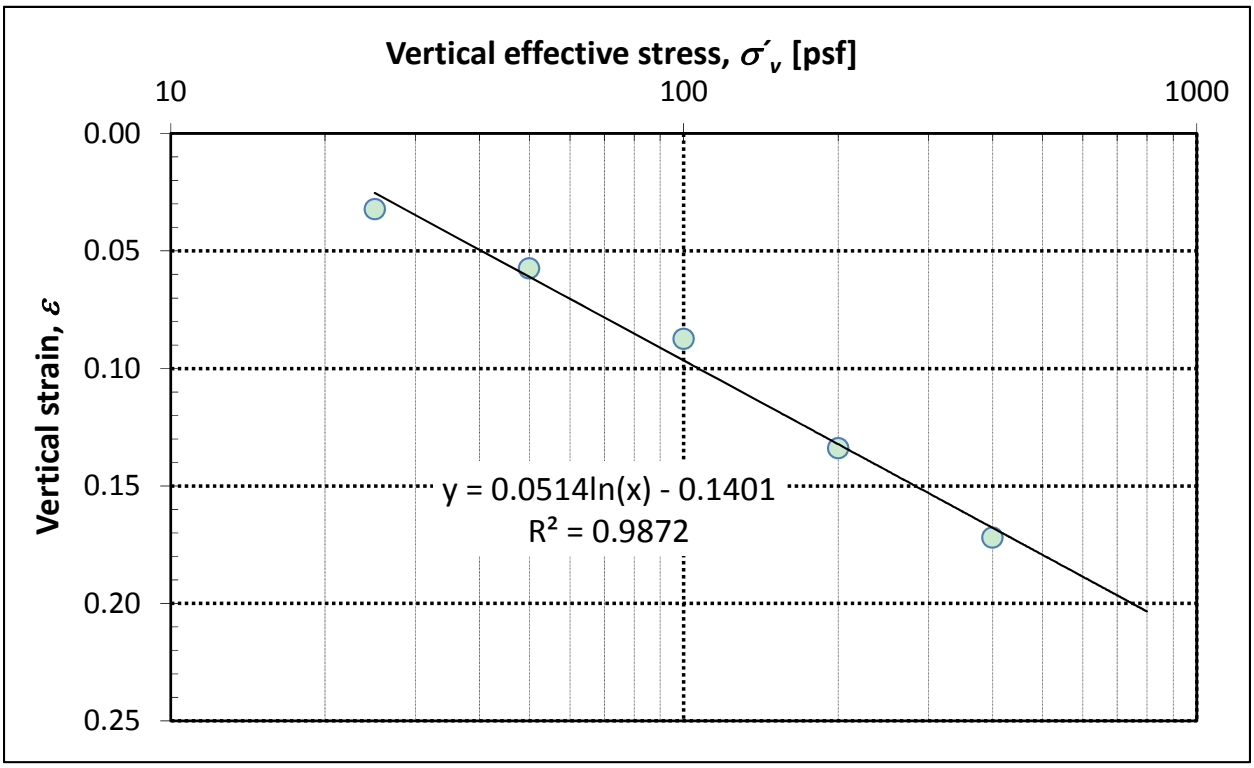
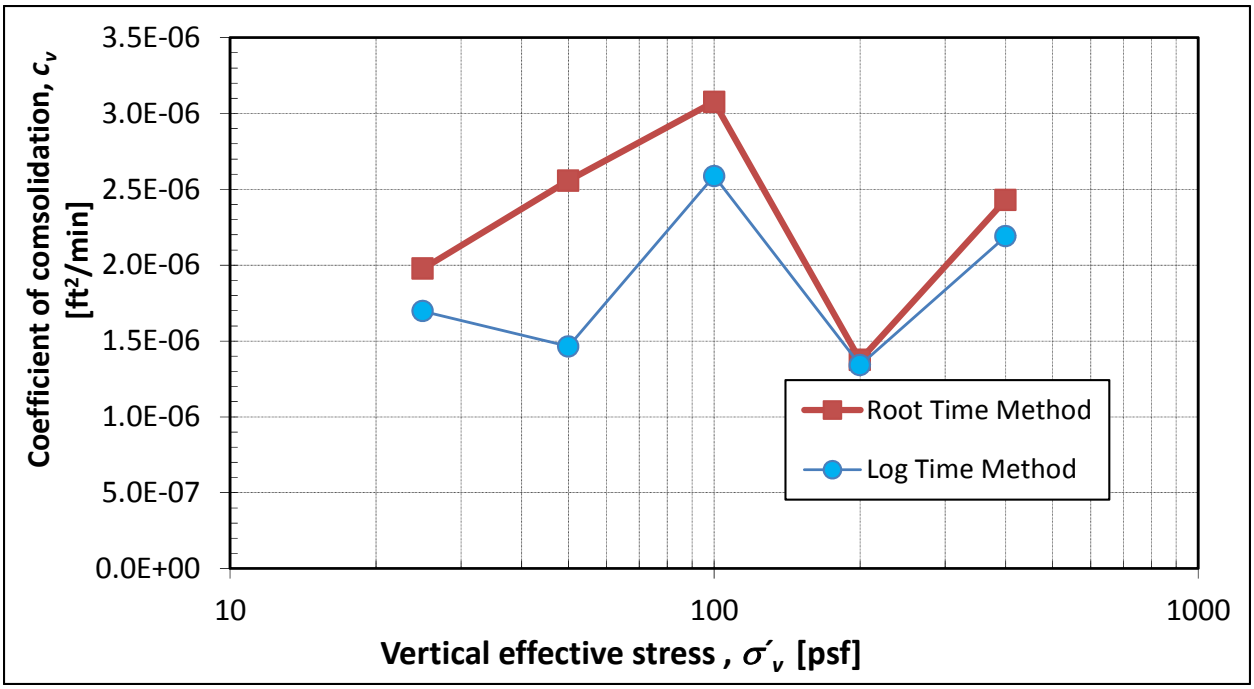


Figure 4. The self-weight consolidation curves for Sample CS3.



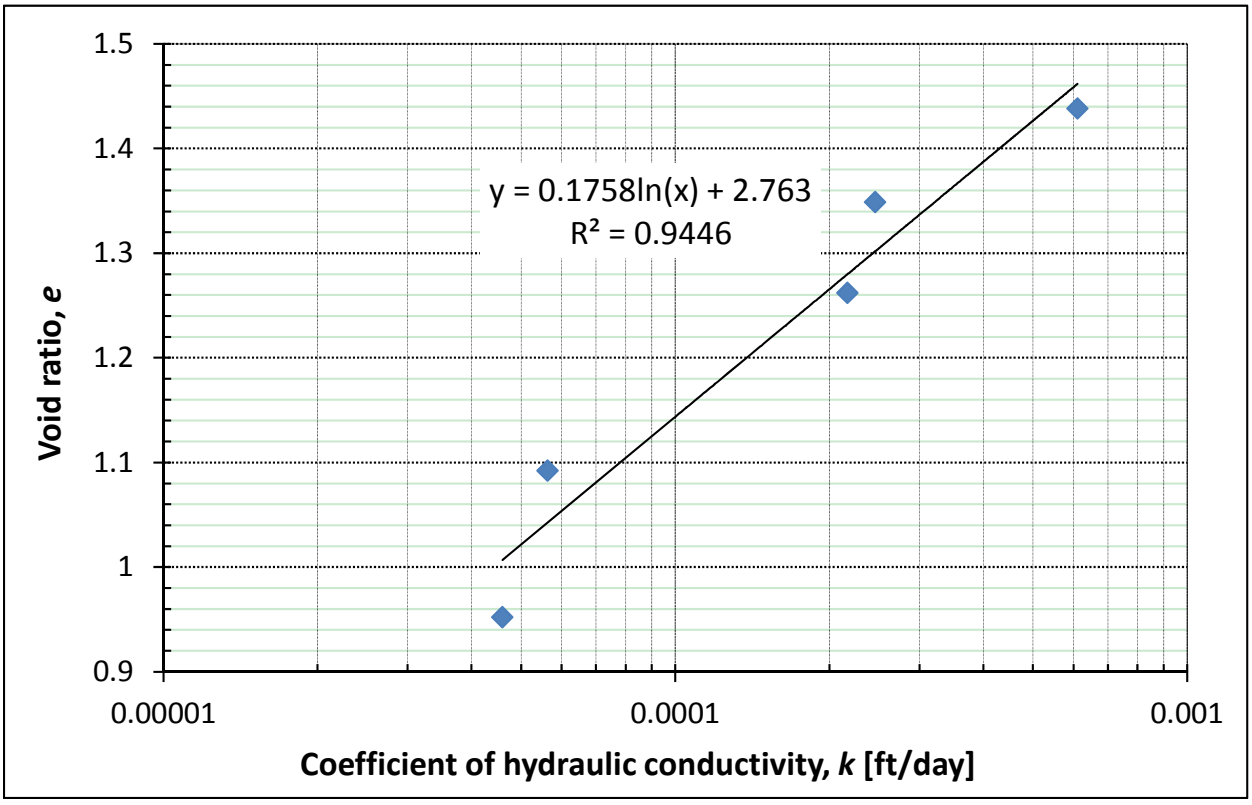
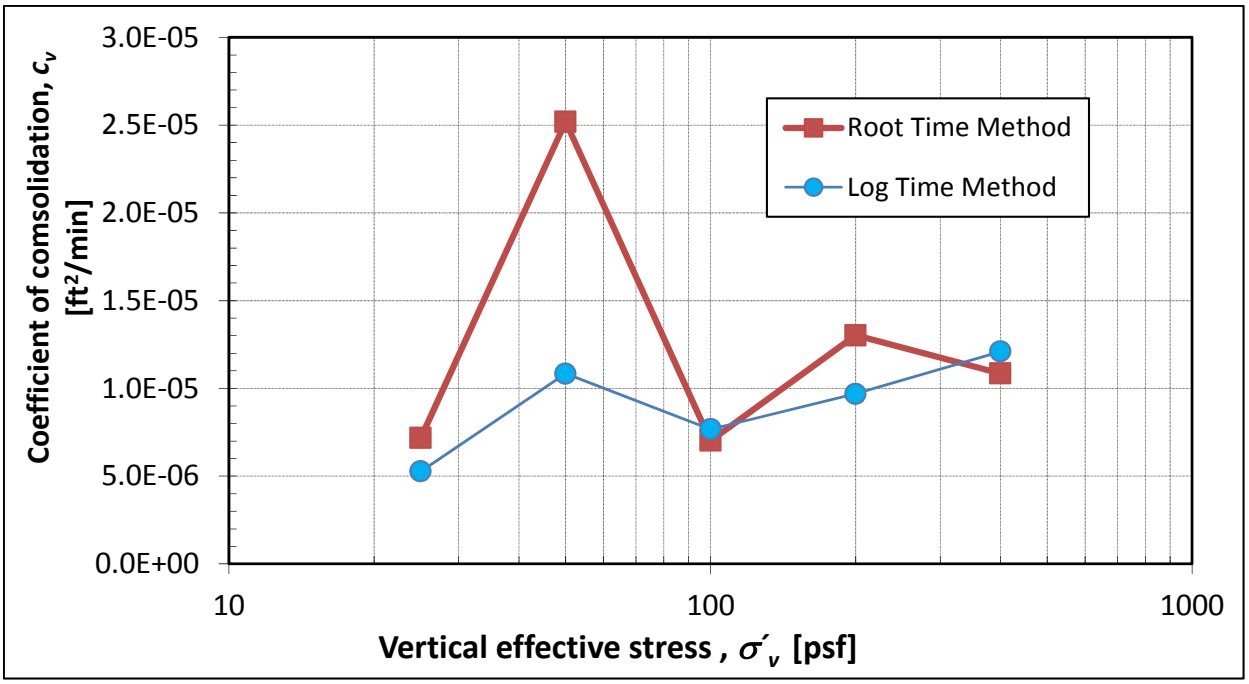


Figure 5. Coefficient of consolidation and coefficient of hydraulic conductivity for Sample CS1.



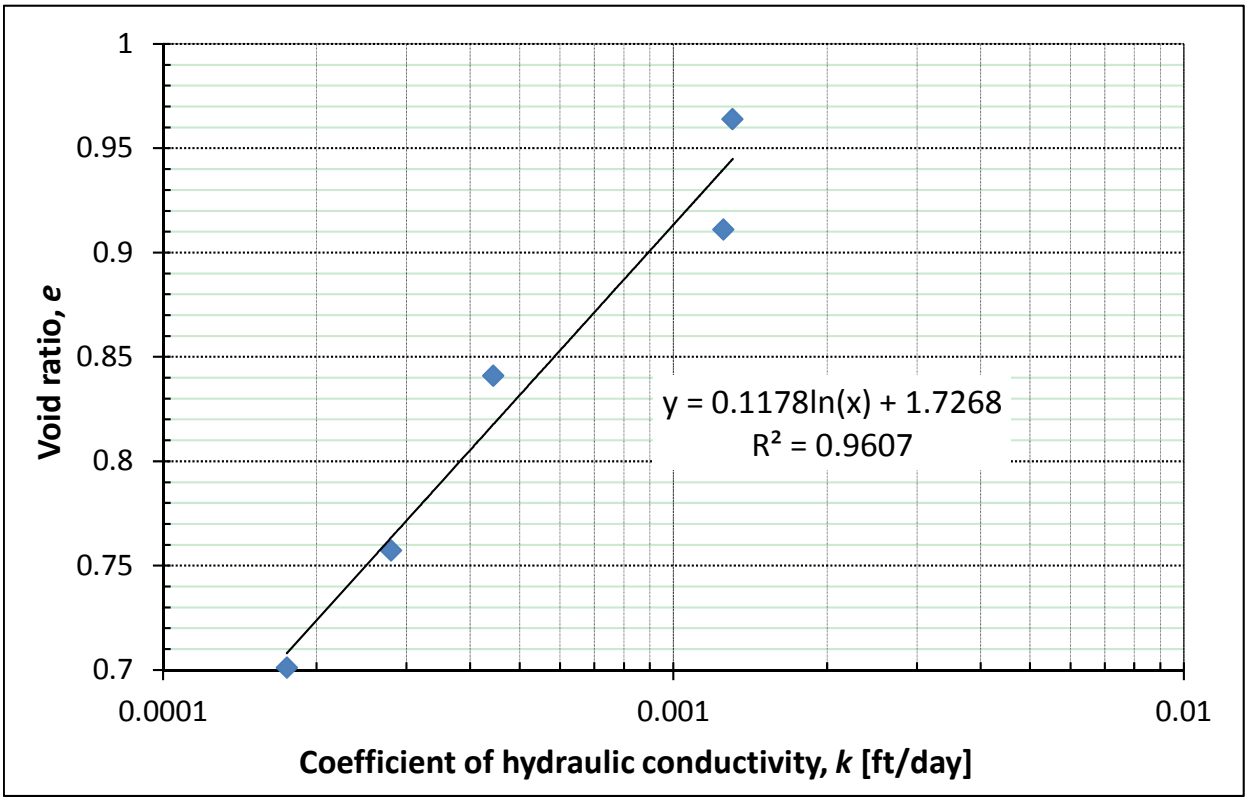
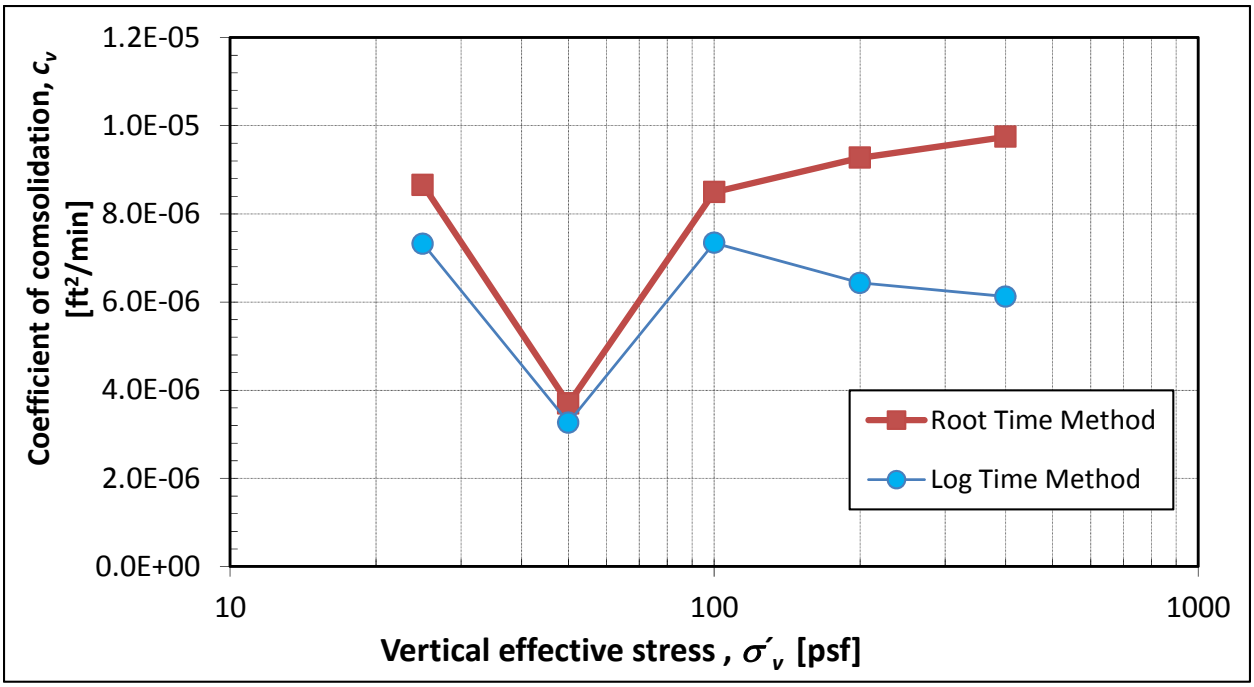


Figure 6. Coefficient of consolidation and coefficient of hydraulic conductivity for Sample CS2.



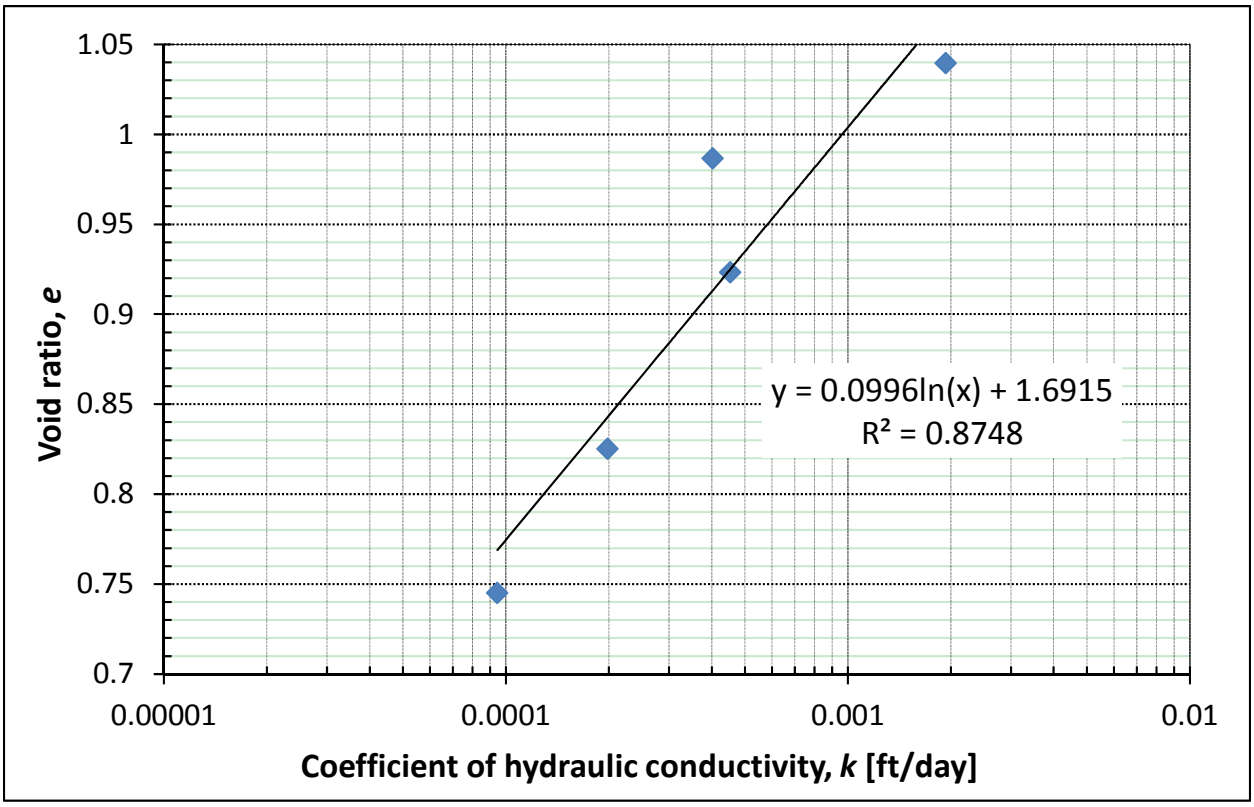


Figure 7. Coefficient of consolidation and coefficient of hydraulic conductivity for Sample CS3.

APPENDIX I-D
CPT Sounding Logs

GeoEngineers

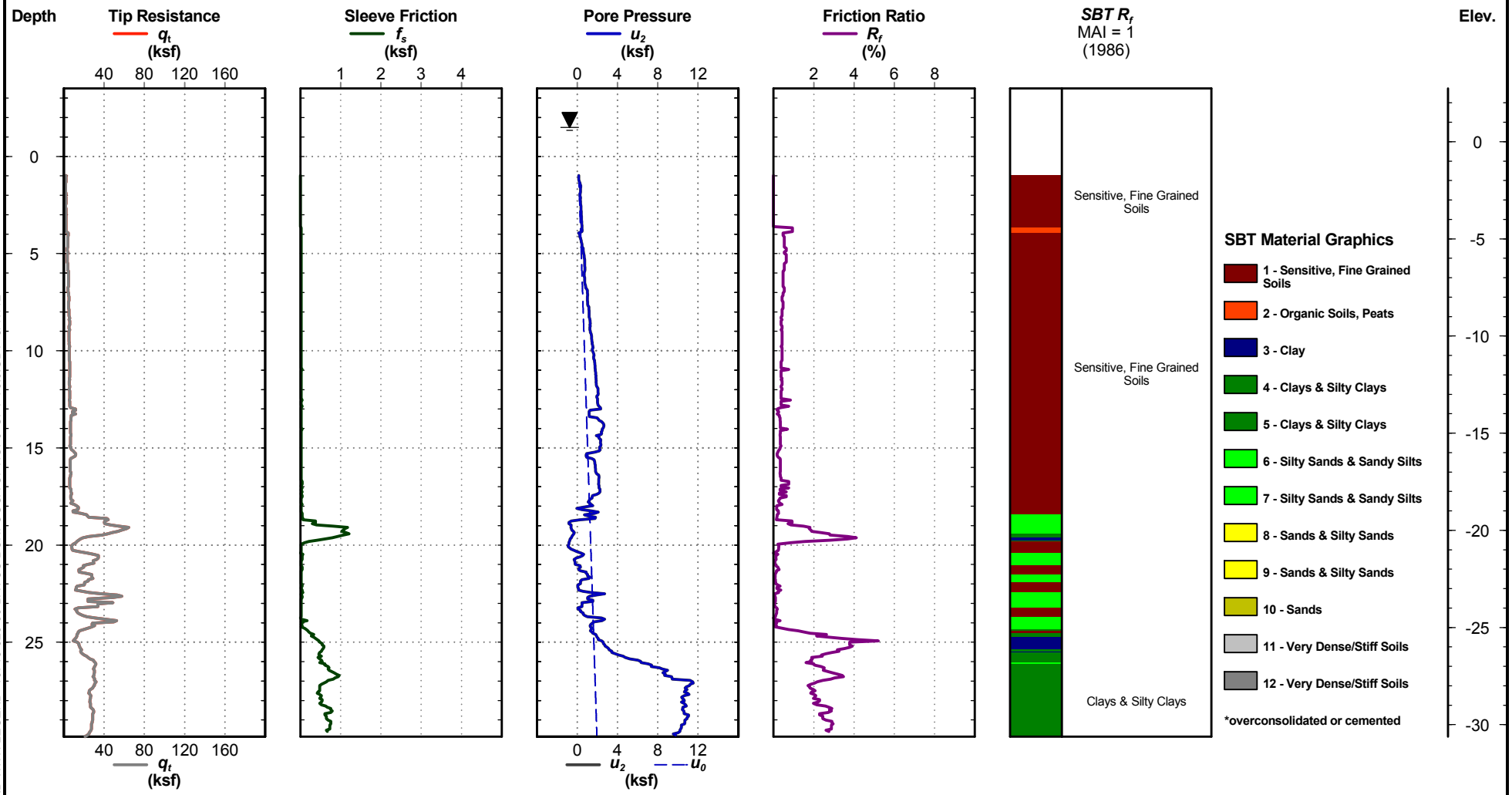
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test BF CPT B-3

Date: Jul. 24, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2590833
Longitude: -89.8593611
Elevation: -0.8NGVD

Total Depth: 29.9
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT B-3

Electronic File Name: BF CPT B-3c.cpt

GeoEngineers

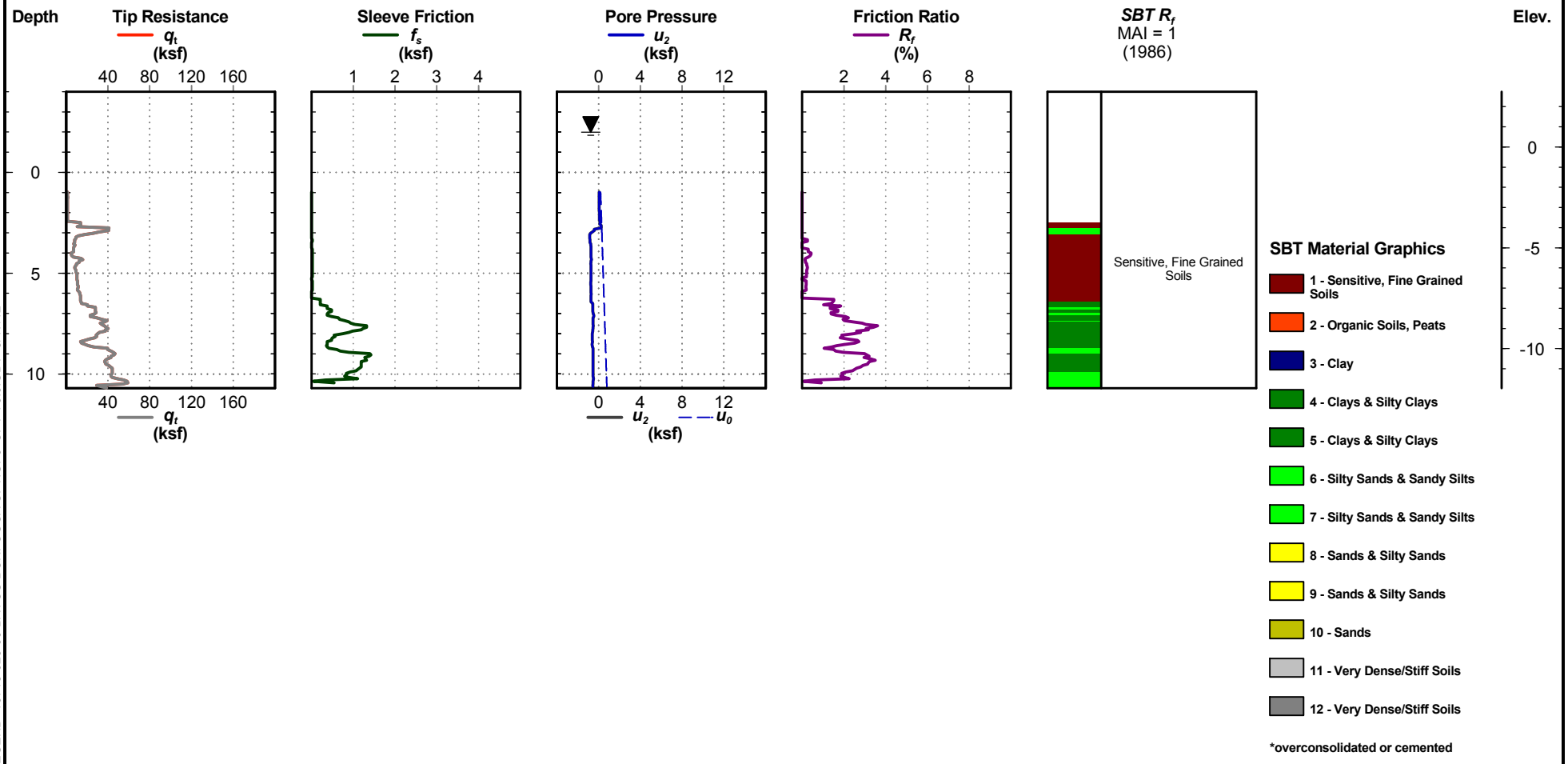
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test BF CPT B-4

Date: Jul. 25, 2012
Estimated Water Depth: -2
Rig/Operator: GeoEngineers

Latitude: 30.2585278
Longitude: -89.8534444
Elevation: -1.3NGVD

Total Depth: 10.7
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT B-4

Electronic File Name: BF CPT B-4.cpt

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

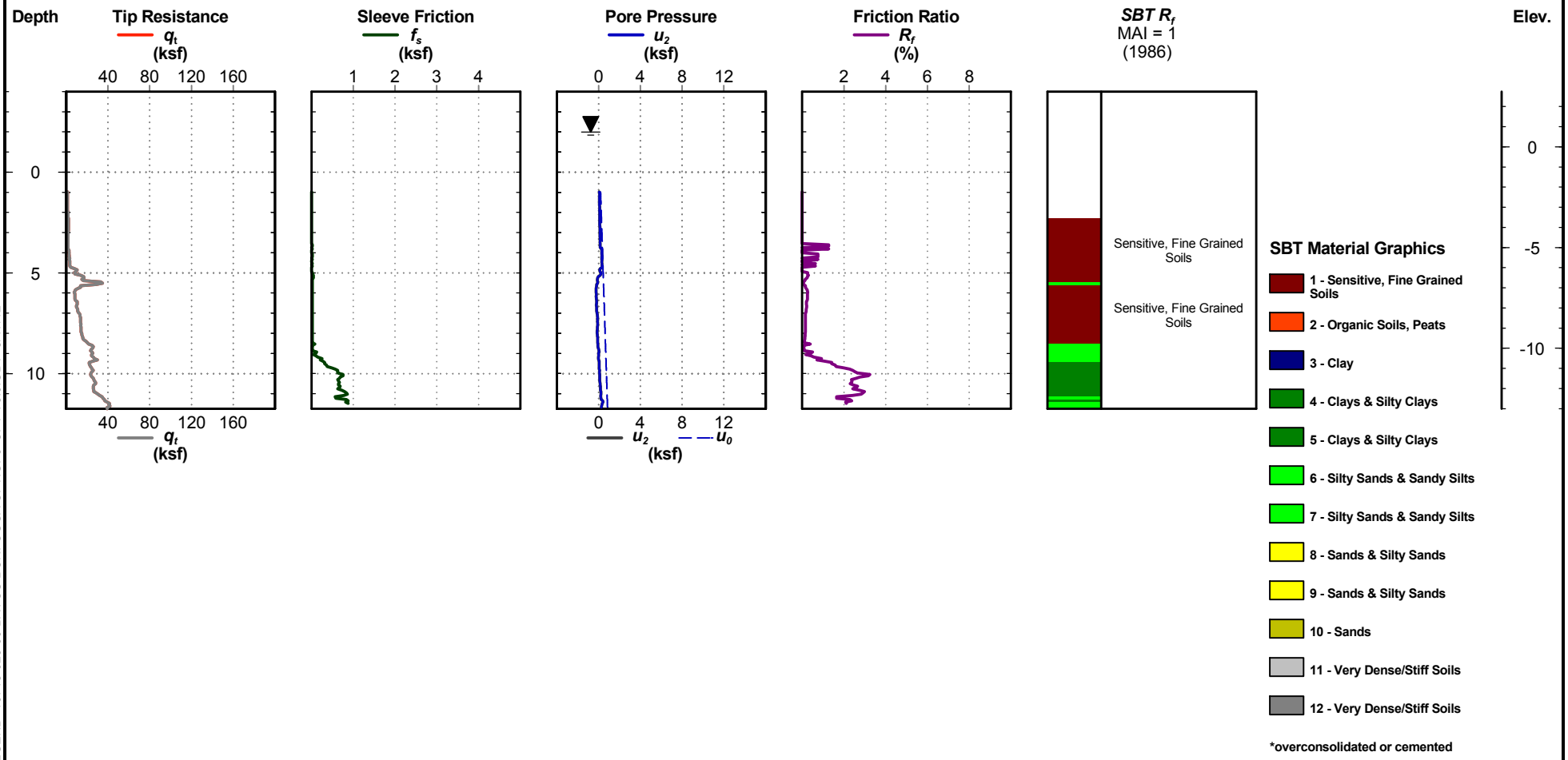
Cone Penetration Test

BF CPT 3

Date: Jul. 25, 2012
Estimated Water Depth: -2
Rig/Operator: GeoEngineers

Latitude: 30.2584722
Longitude: -89.8563056
Elevation: -1.3NGVD

Total Depth: 11.8
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 3

Electronic File Name: BF CPT 3.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

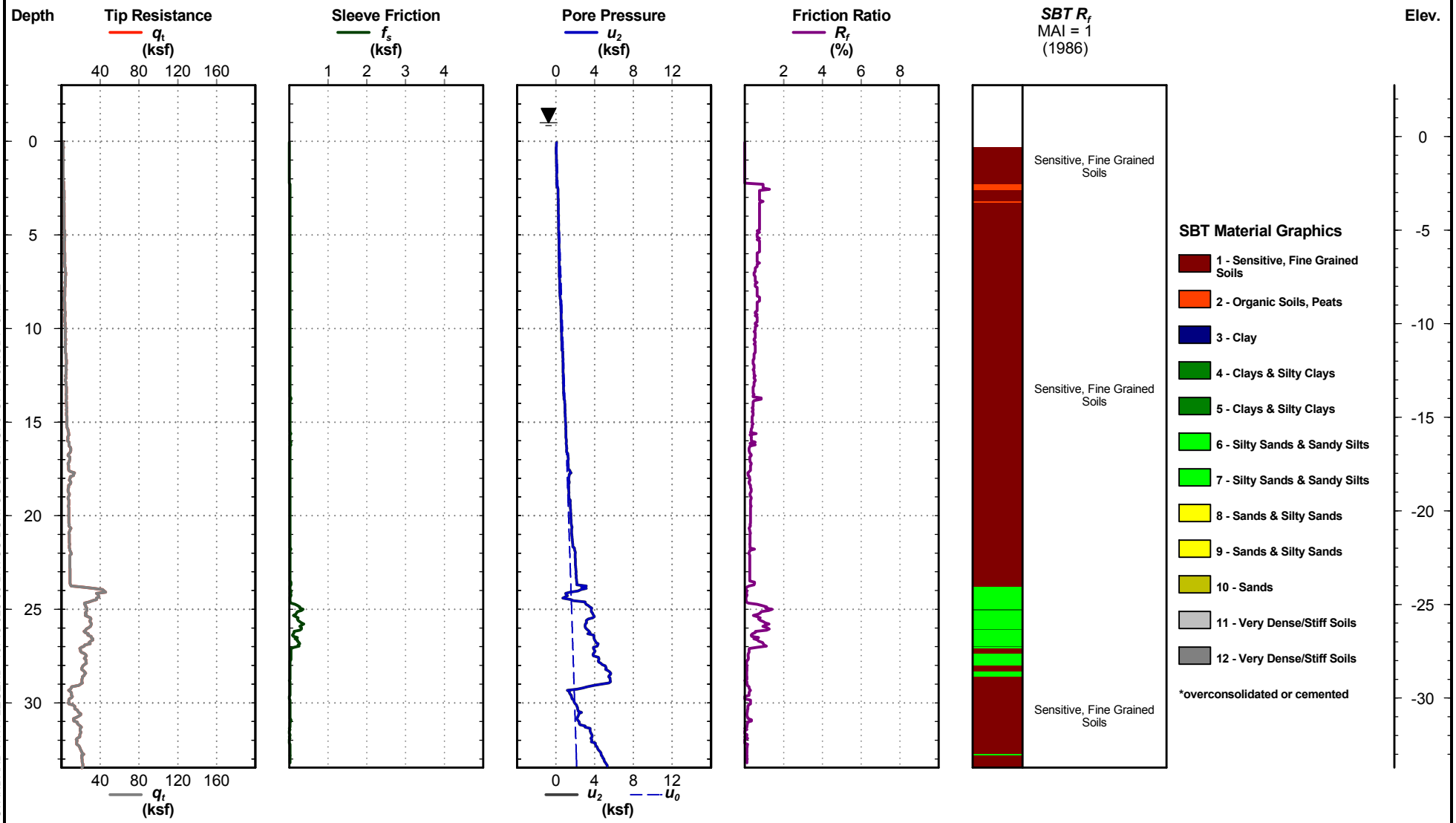
Cone Penetration Test

BF CPT 4

Date: Jul. 25, 2012
Estimated Water Depth: -1
Rig/Operator: GeoEngineers

Latitude: 30.2586944
Longitude: -89.8575833
Elevation: -0.3NGVD

Total Depth: 33.5
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 4b.cpt

BF CPT 4

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

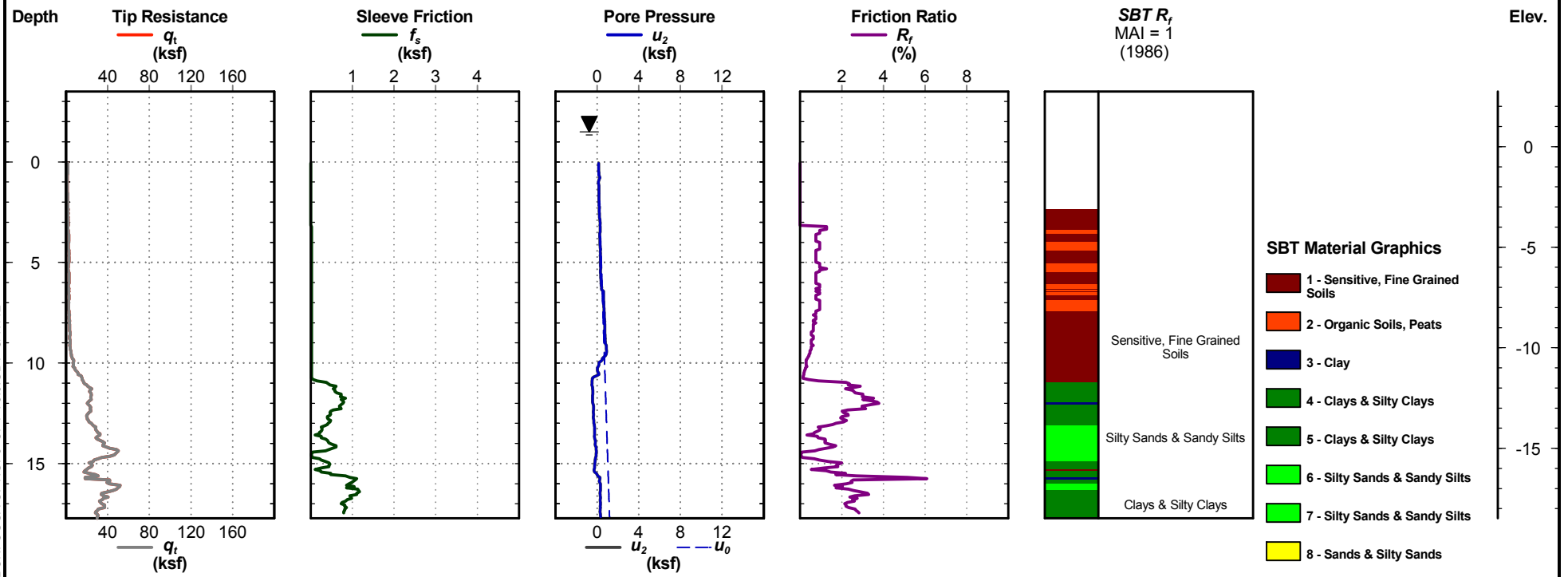
Cone Penetration Test

BF CPT 5

Date: Jul. 25, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2588056
Longitude: -89.8568333
Elevation: -0.8NGVD

Total Depth: 17.7
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 5

Electronic File Name: BF CPT 5.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

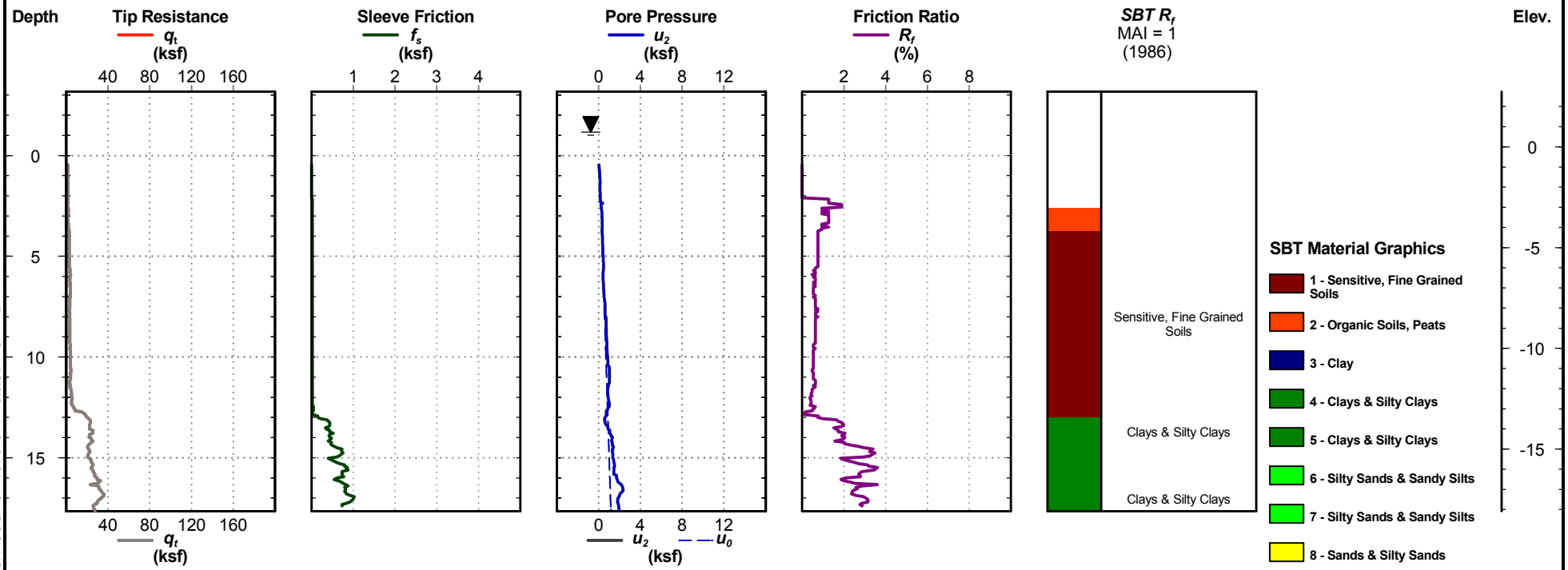
Cone Penetration Test

BF CPT 6

Date: Jul. 25, 2012
Estimated Water Depth: -1.17
Rig/Operator: GeoEngineers

Latitude: 30.2596111
Longitude: -89.8568056
Elevation: -0.4NGVD

Total Depth: 17.7
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 6.cpt

BF CPT 6

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

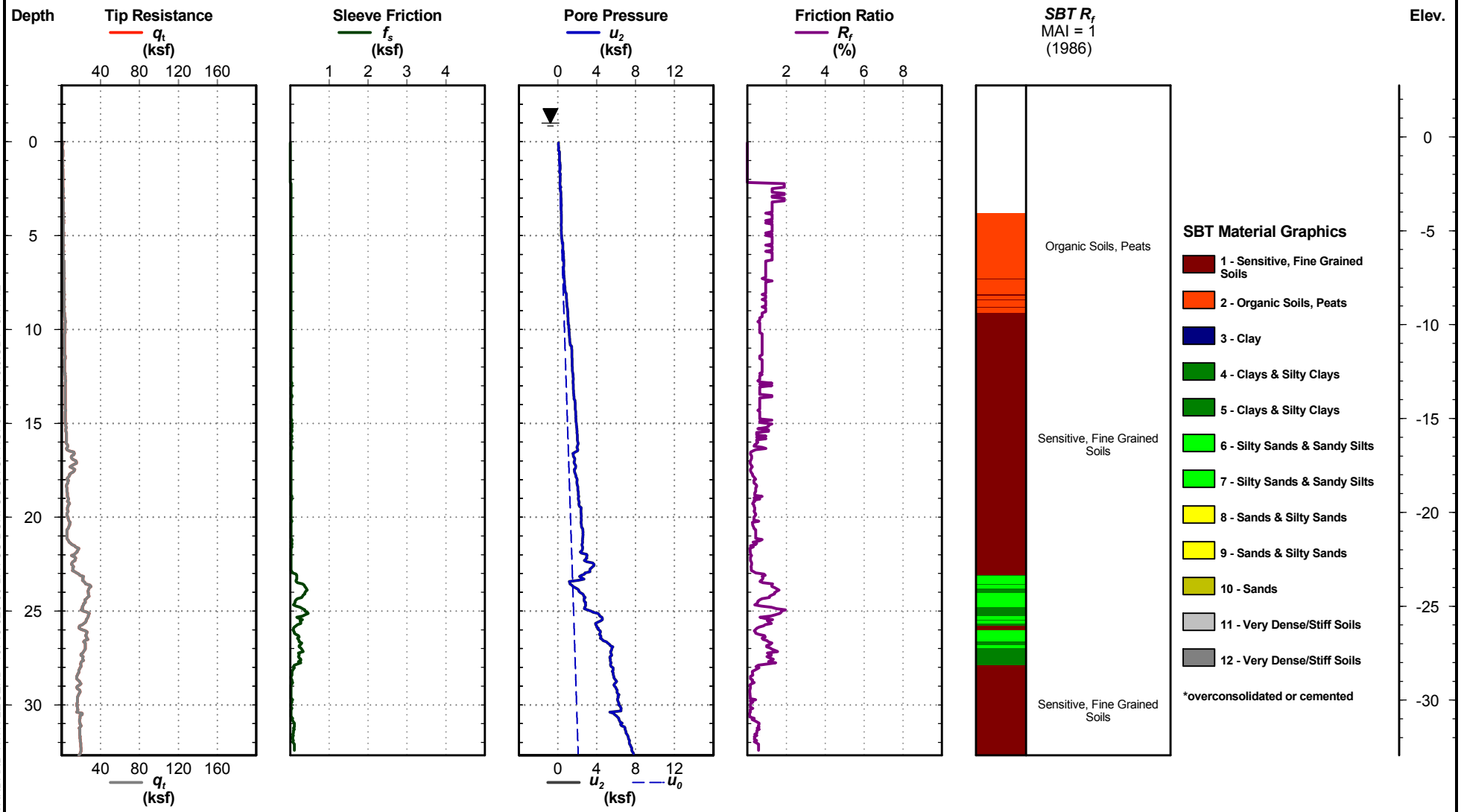
Cone Penetration Test

BF CPT 7

Date: Jul. 25, 2012
Estimated Water Depth: -1
Rig/Operator: GeoEngineers

Latitude: 30.2596389
Longitude: -89.8581667
Elevation: -0.3NGVD

Total Depth: 32.7
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 7.cpt

BF CPT 7

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

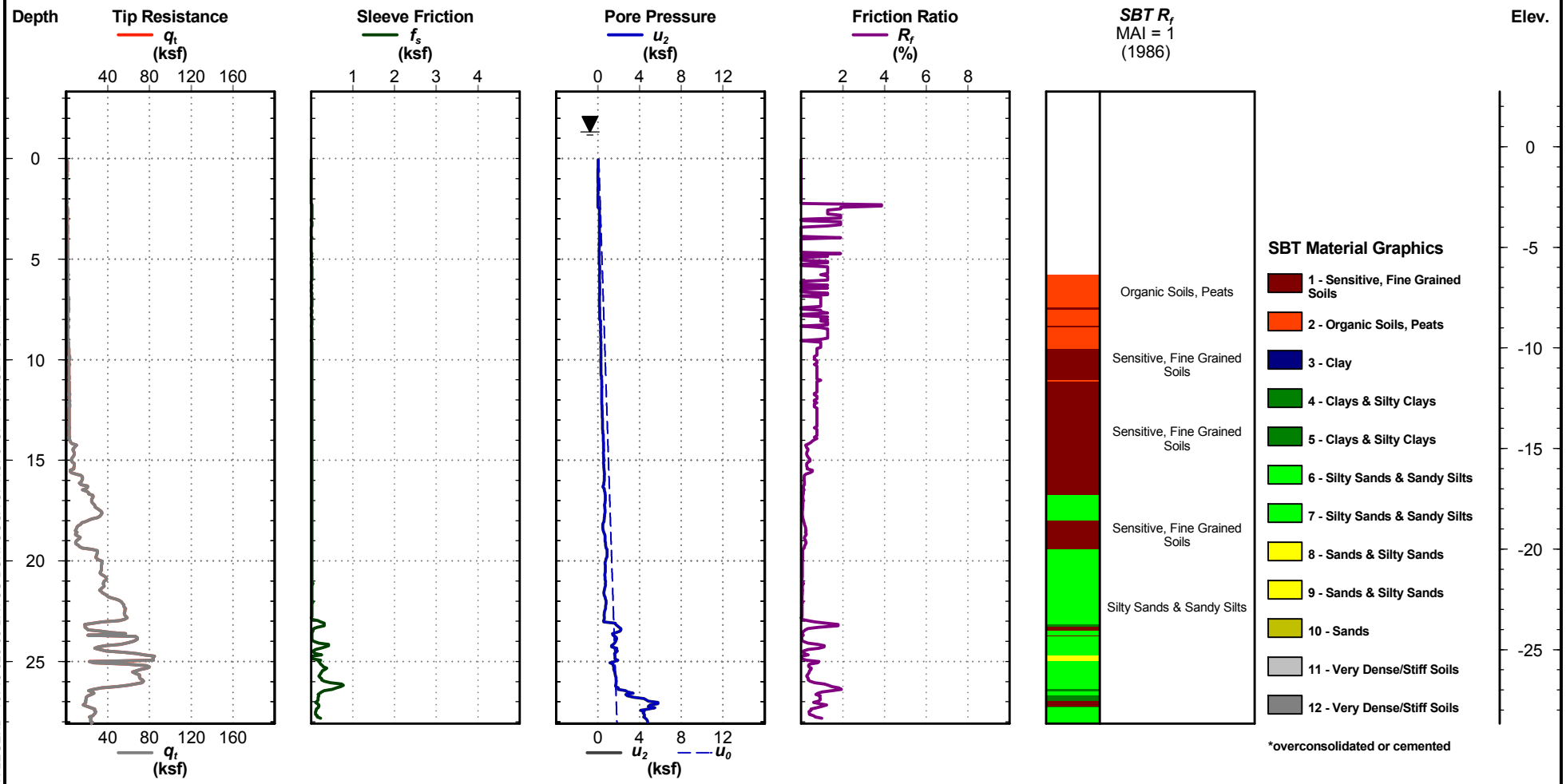
Cone Penetration Test

BF CPT 8

Date: Jul. 25, 2012
Estimated Water Depth: -1.33
Rig/Operator: GeoEngineers

Latitude: 30.2596389
Longitude: -89.8572778
Elevation: -0.6NGVD

Total Depth: 28.1
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 8.cpt

BF CPT 8

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

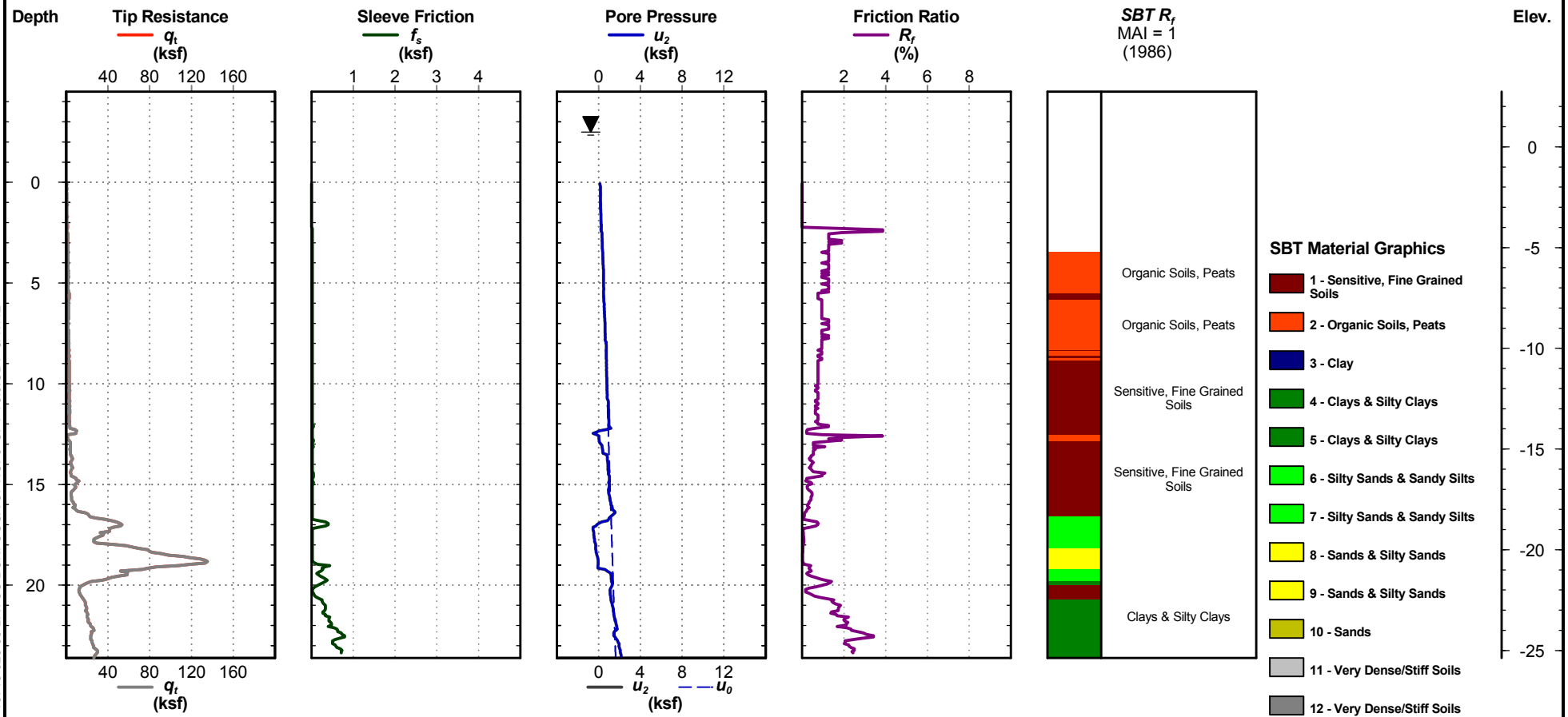
Cone Penetration Test

BF CPT 9

Date: Jul. 25, 2012
Estimated Water Depth: -2.5
Rig/Operator: GeoEngineers

Latitude: 30.2596389
Longitude: -89.8569722
Elevation: -1.8NGVD

Total Depth: 23.6
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 9.cpt

BF CPT 9

GeoEngineers

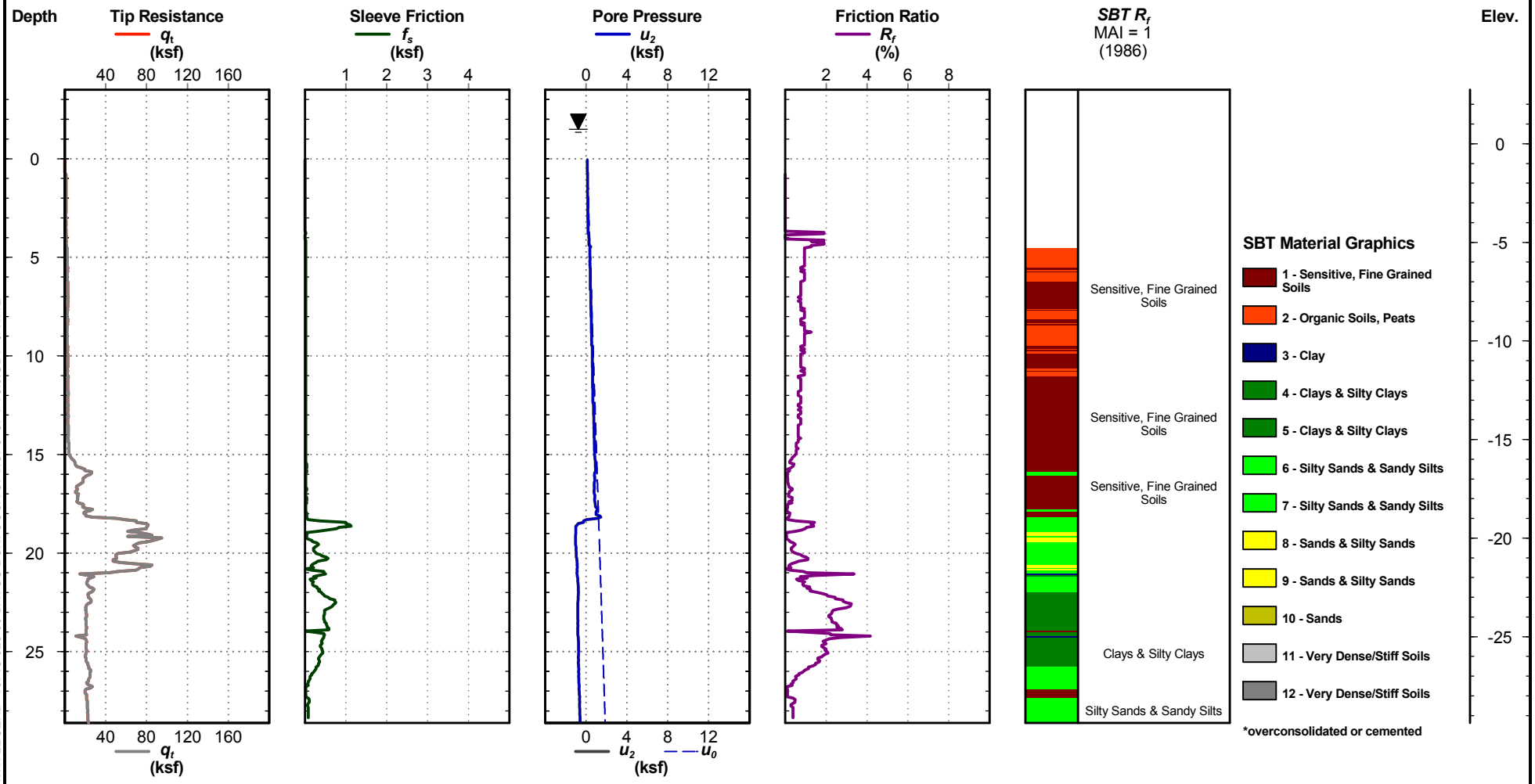
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 10

Date: Jul. 25, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2602222
Longitude: -89.8568056
Elevation: -0.8NGVD

Total Depth: 28.6
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 10

Electronic File Name: BF CPT 10.cpt

GeoEngineers

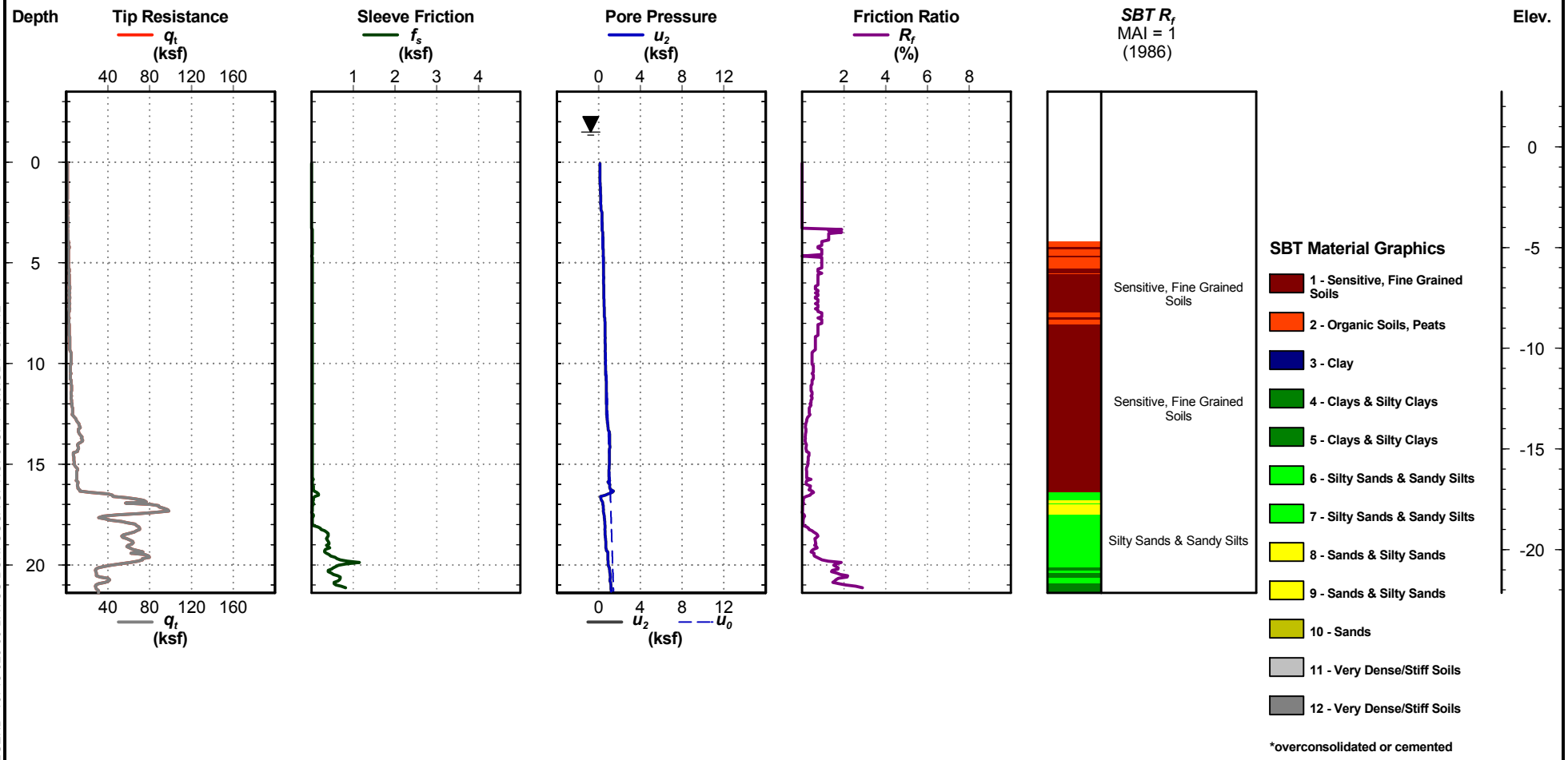
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 11

Date: Jul. 25, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2604167
Longitude: -89.8574167
Elevation: -0.8NGVD

Total Depth: 21.4
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 11

Electronic File Name: BF CPT 11.cpt

GeoEngineers

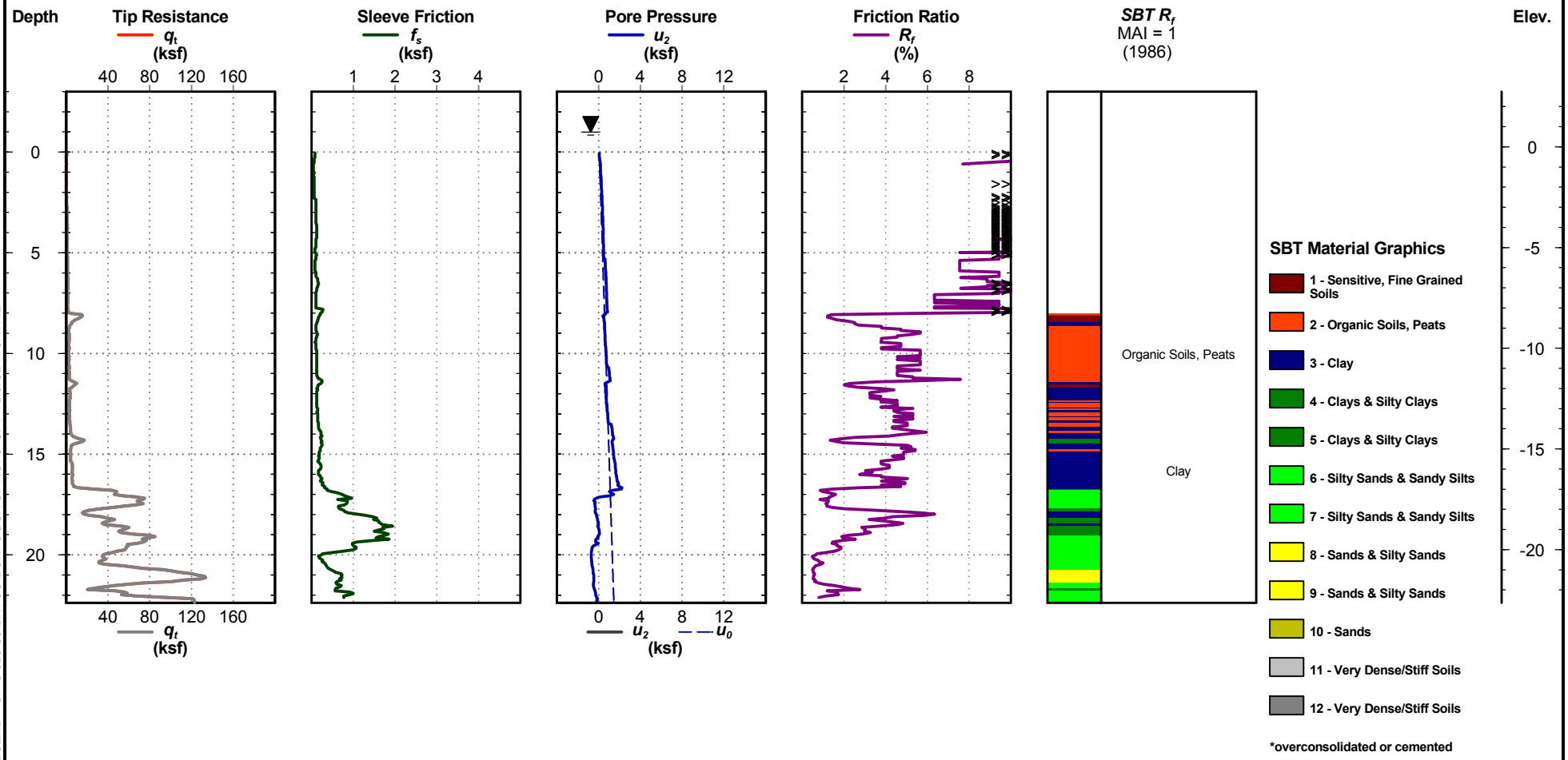
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 12

Date: Jul. 26, 2012
Estimated Water Depth: -1
Rig/Operator: GeoEngineers

Latitude: 30.2604167
Longitude: -89.8584722
Elevation: -0.3NGVD

Total Depth: 22.4
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 12

Electronic File Name: BF CPT 12d.cpt

GeoEngineers

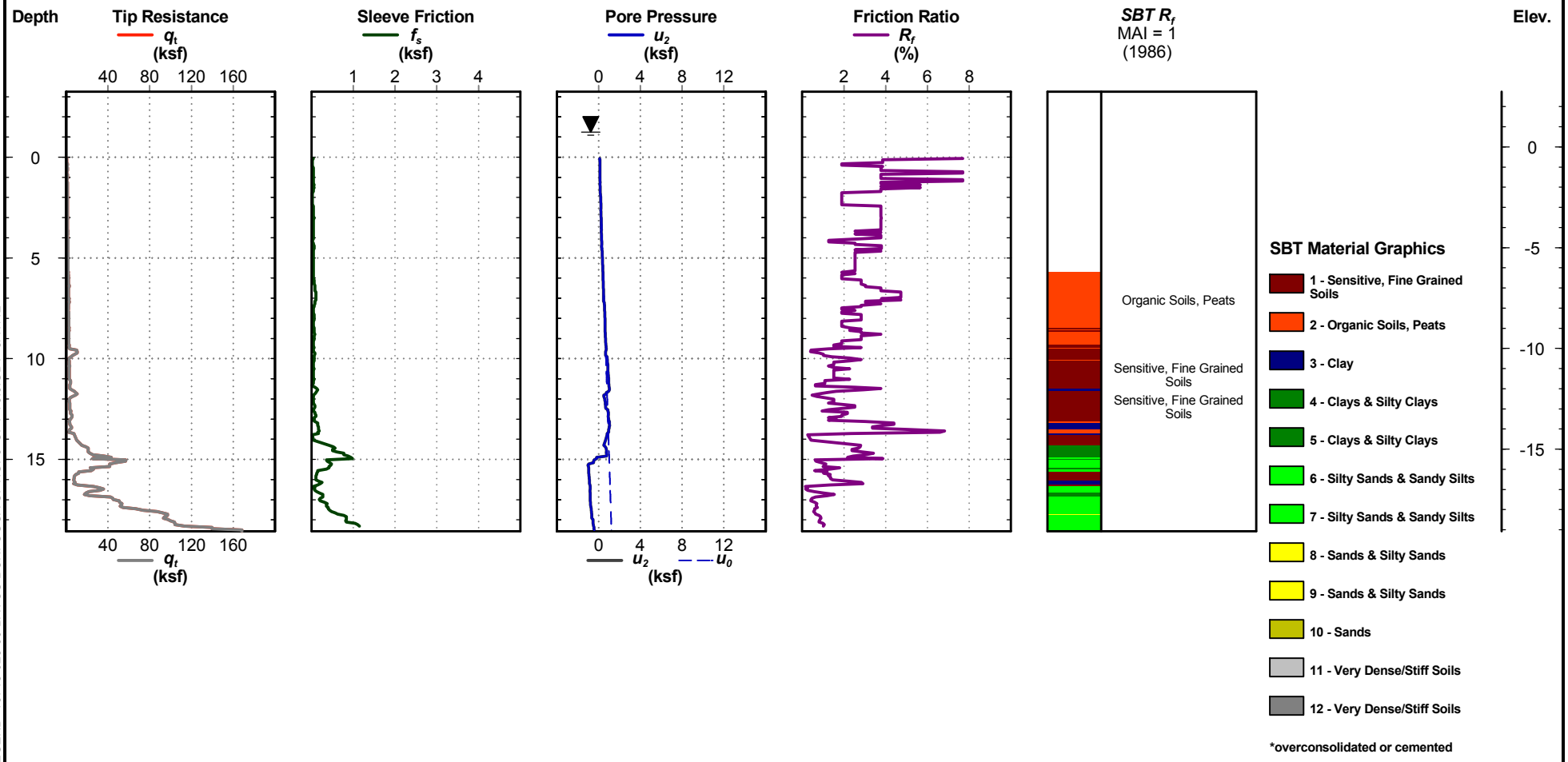
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 13

Date: Jul. 26, 2012
Estimated Water Depth: -1.25
Rig/Operator: GeoEngineers

Latitude: 30.2611667
Longitude: -89.8583889
Elevation: -0.5NGVD

Total Depth: 18.6
Termination Criteria:
Cone Size:



BF CPT 13

Electronic File Name: BF CPT 13b.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

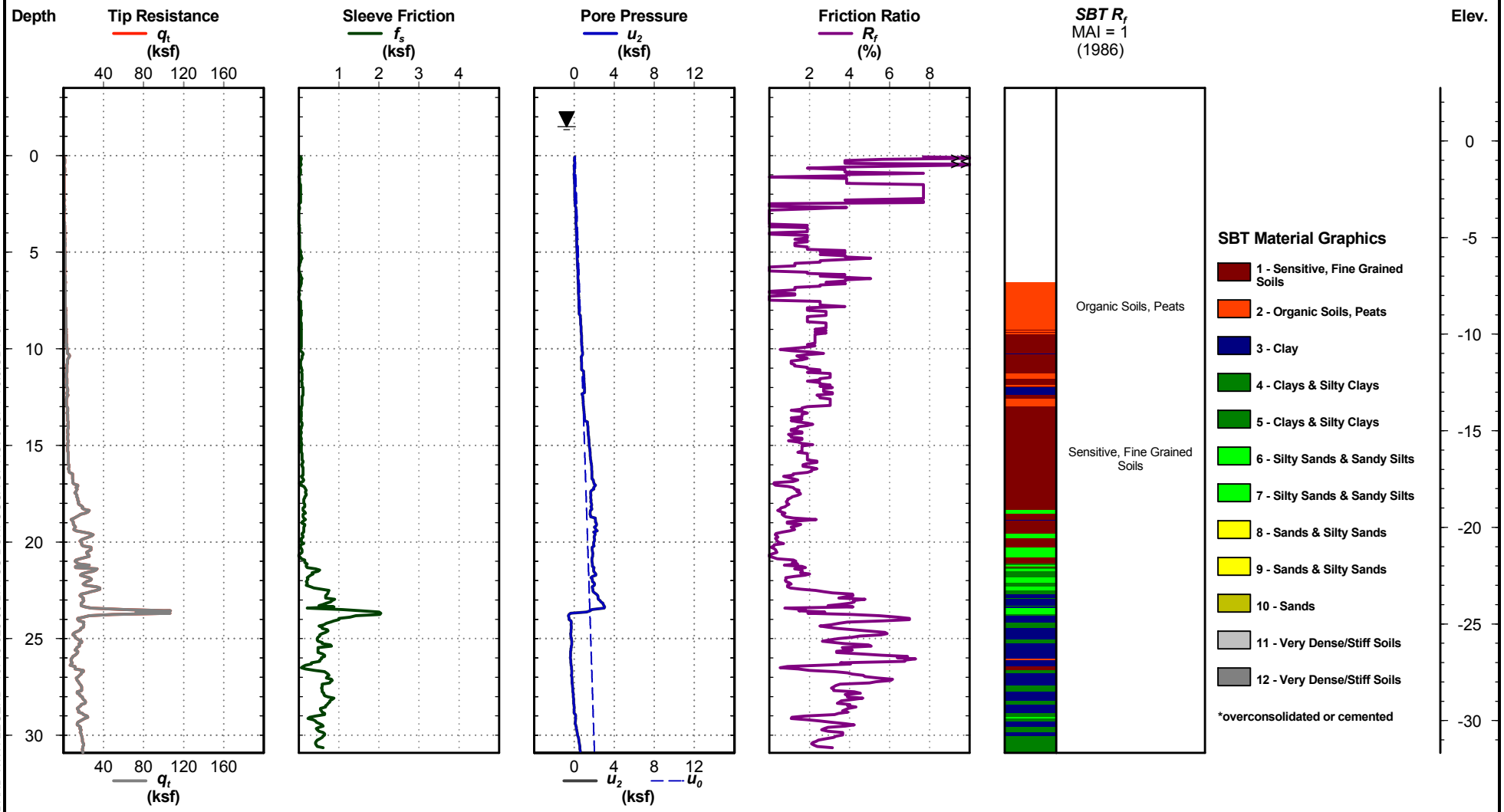
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 14

Date: Jul. 26, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2611944
Longitude: -89.85725
Elevation: -0.8NGVD

Total Depth: 30.9
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 14

Electronic File Name: BF CPT 14.cpt

GeoEngineers

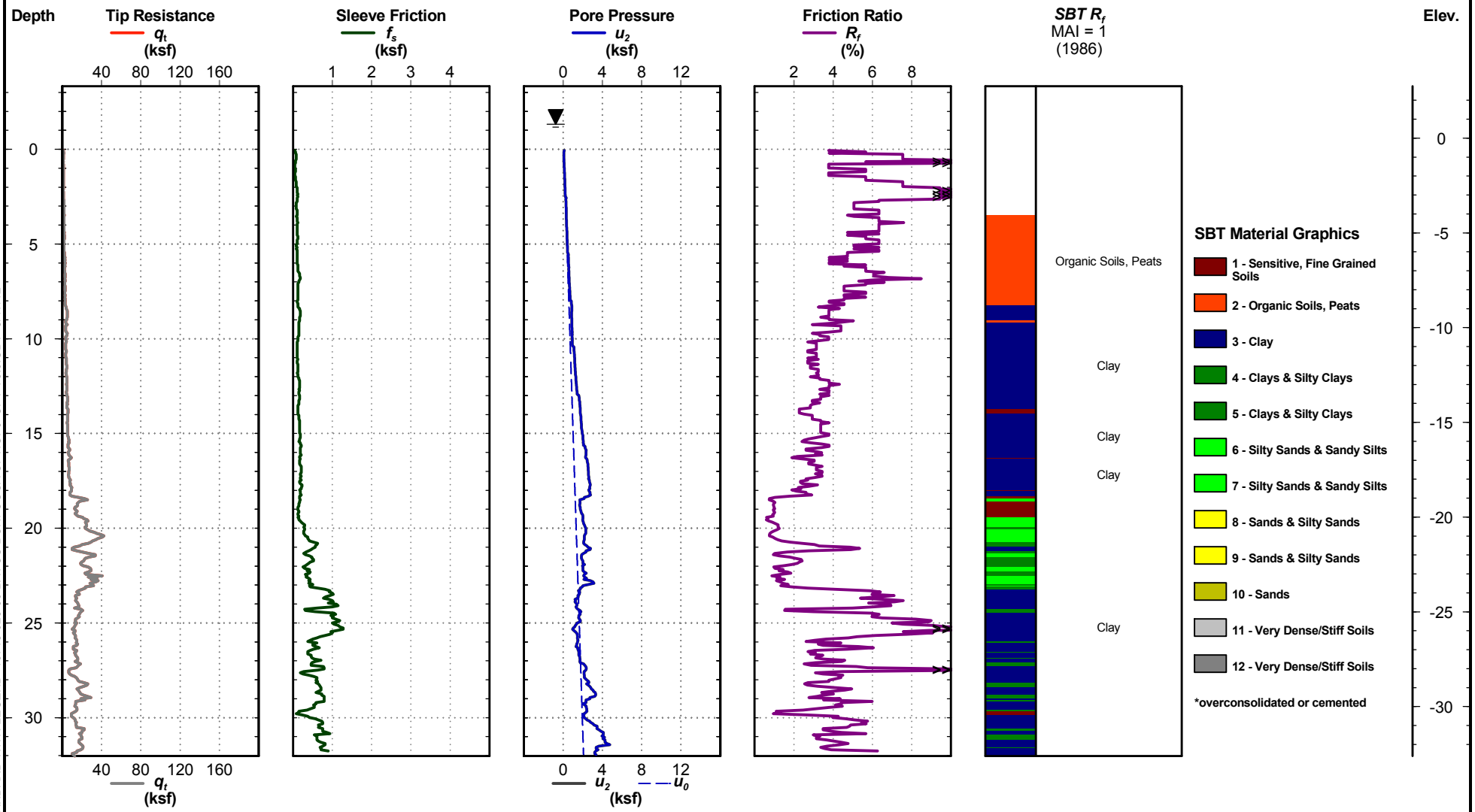
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 15

Date: Jul. 26, 2012
Estimated Water Depth: -1.33
Rig/Operator: GeoEngineers

Latitude: 30.2579167
Longitude: -89.8583611
Elevation: -0.6NGVD

Total Depth: 32.0
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 15

Electronic File Name: BF CPT 15.cpt

GeoEngineers

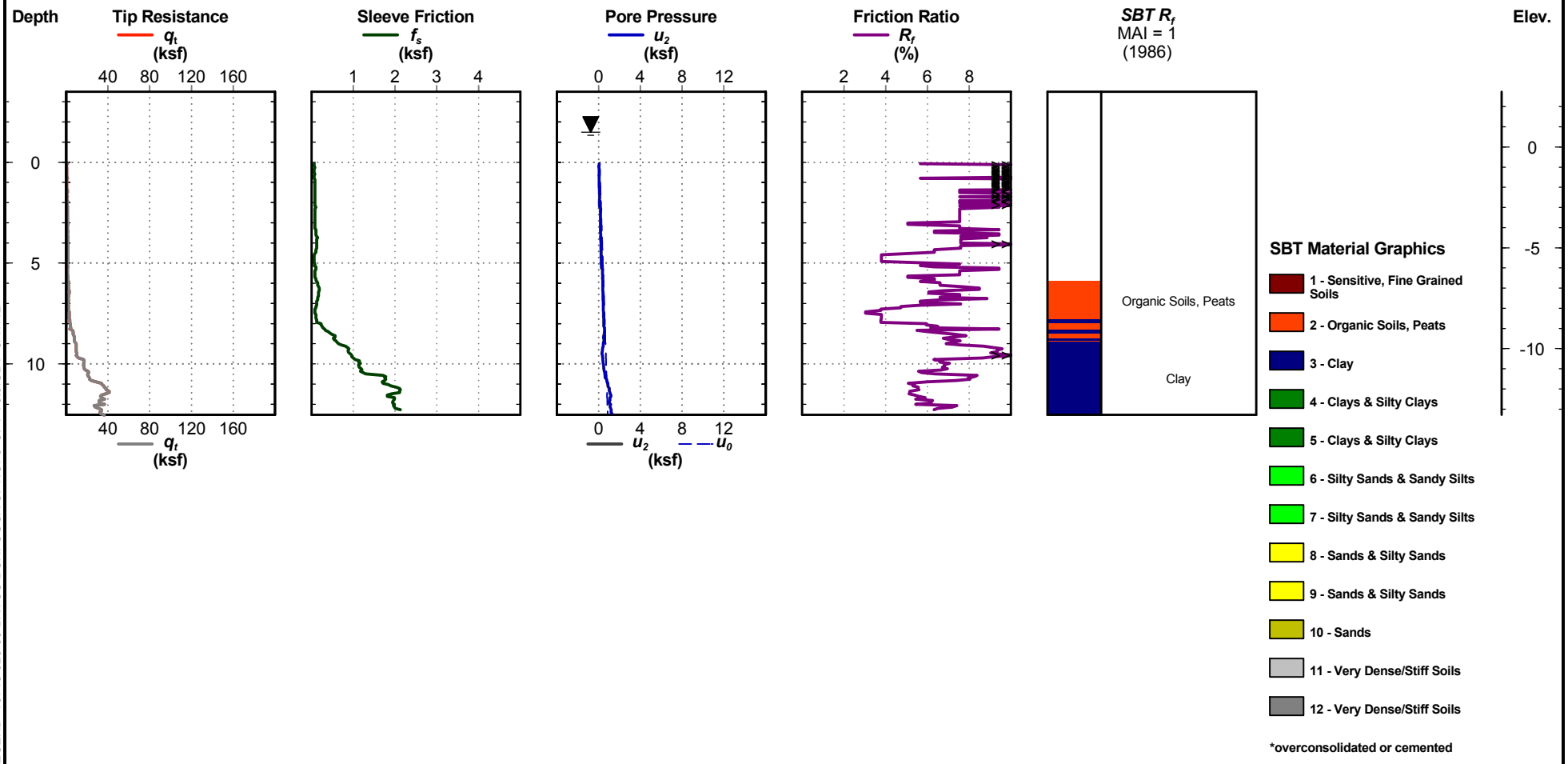
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 16

Date: Jul. 26, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2578611
Longitude: -89.85725
Elevation: -0.8NGVD

Total Depth: 12.5
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 16

Electronic File Name: BF CPT 16.cpt

GeoEngineers

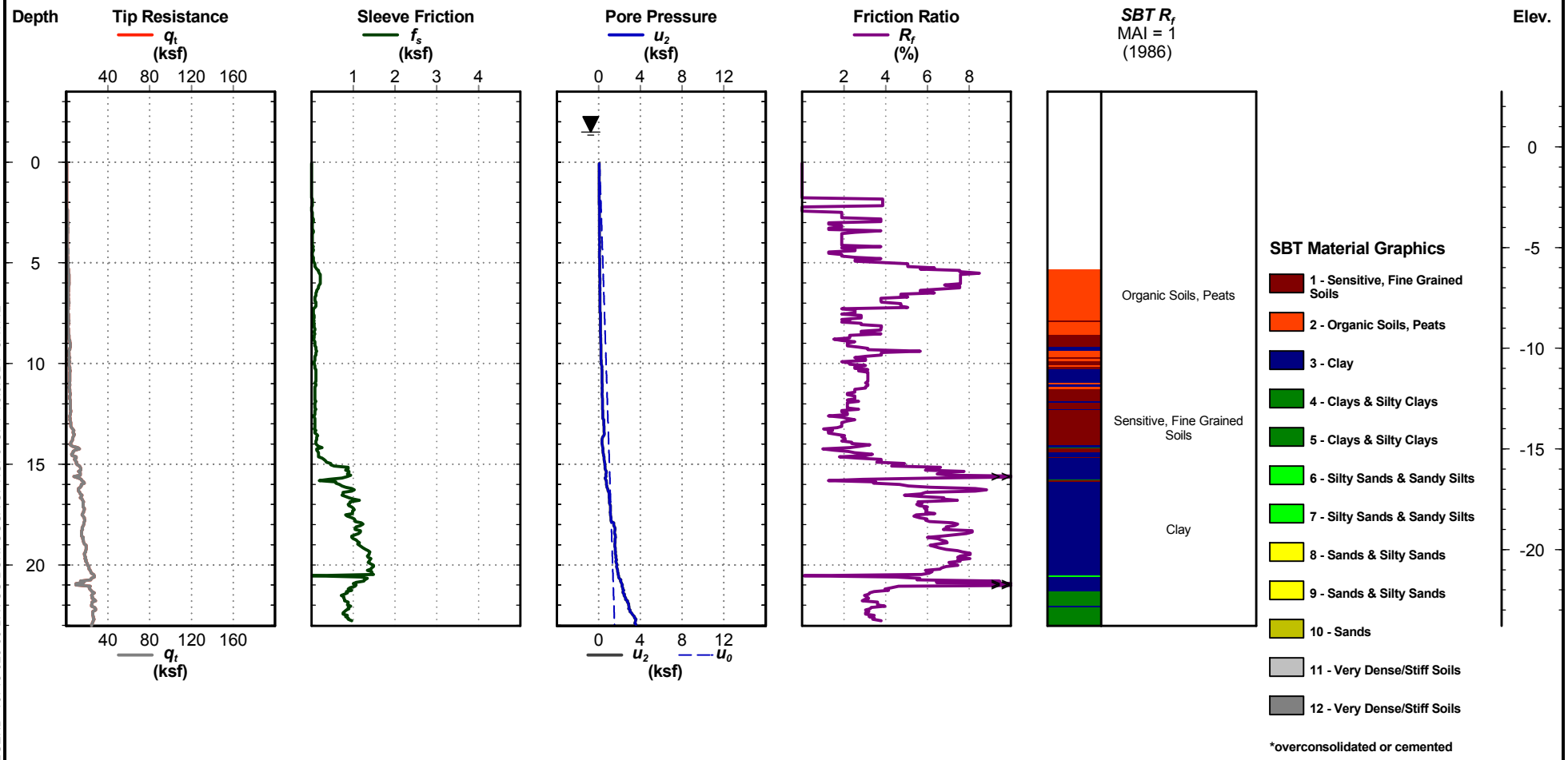
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 17

Date: Jul. 26, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2579444
Longitude: -89.8578333
Elevation: -0.8NGVD

Total Depth: 23.0
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 17

Electronic File Name: BF CPT 17.cpt

GeoEngineers

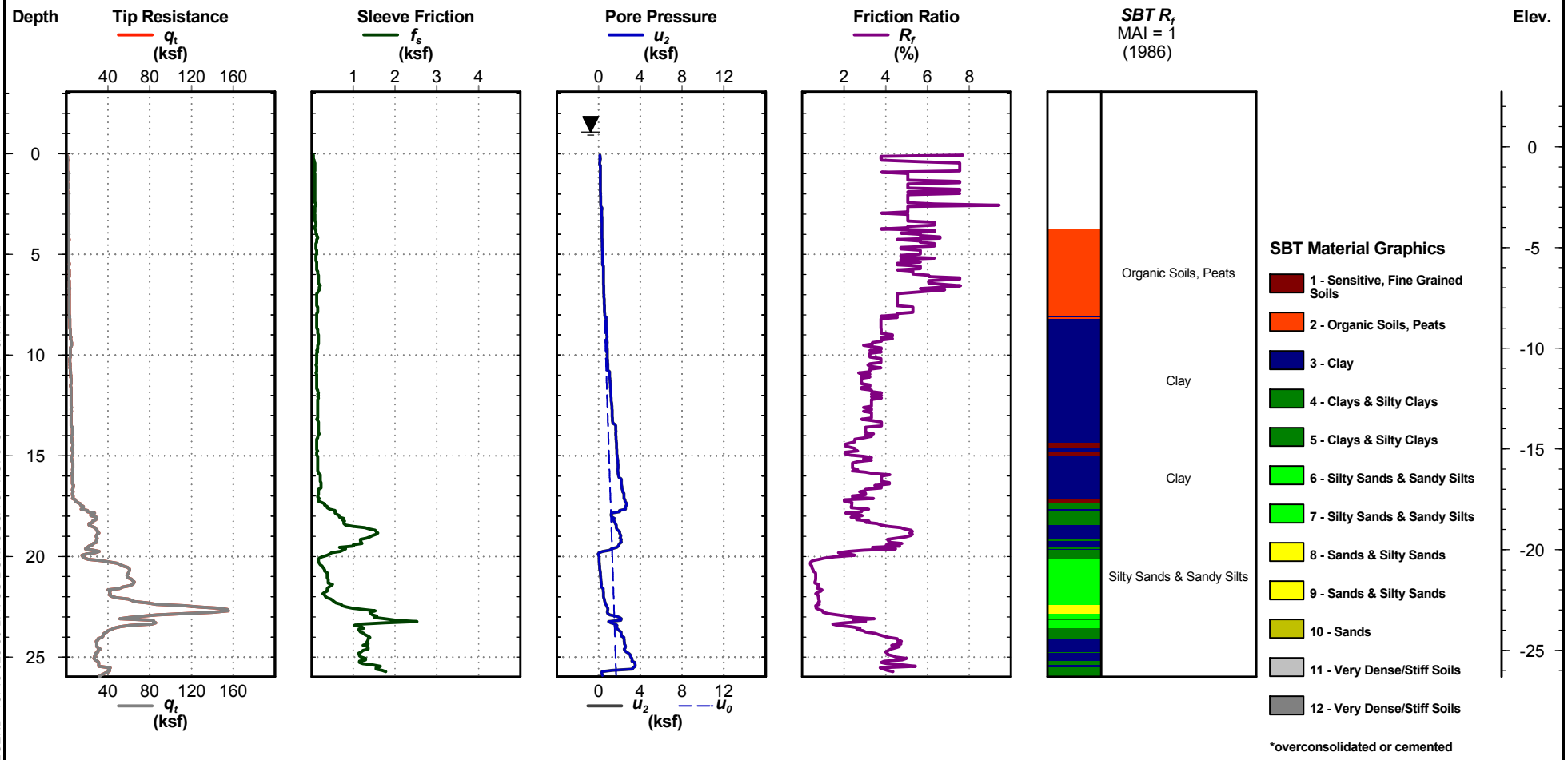
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 18

Date: Jul. 26, 2012
Estimated Water Depth: -1.08
Rig/Operator: GeoEngineers

Latitude: 30.2570278
Longitude: -89.8576389
Elevation: -0.3NGVD

Total Depth: 26.0
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 18

Electronic File Name: BF CPT 18.cpt

GeoEngineers

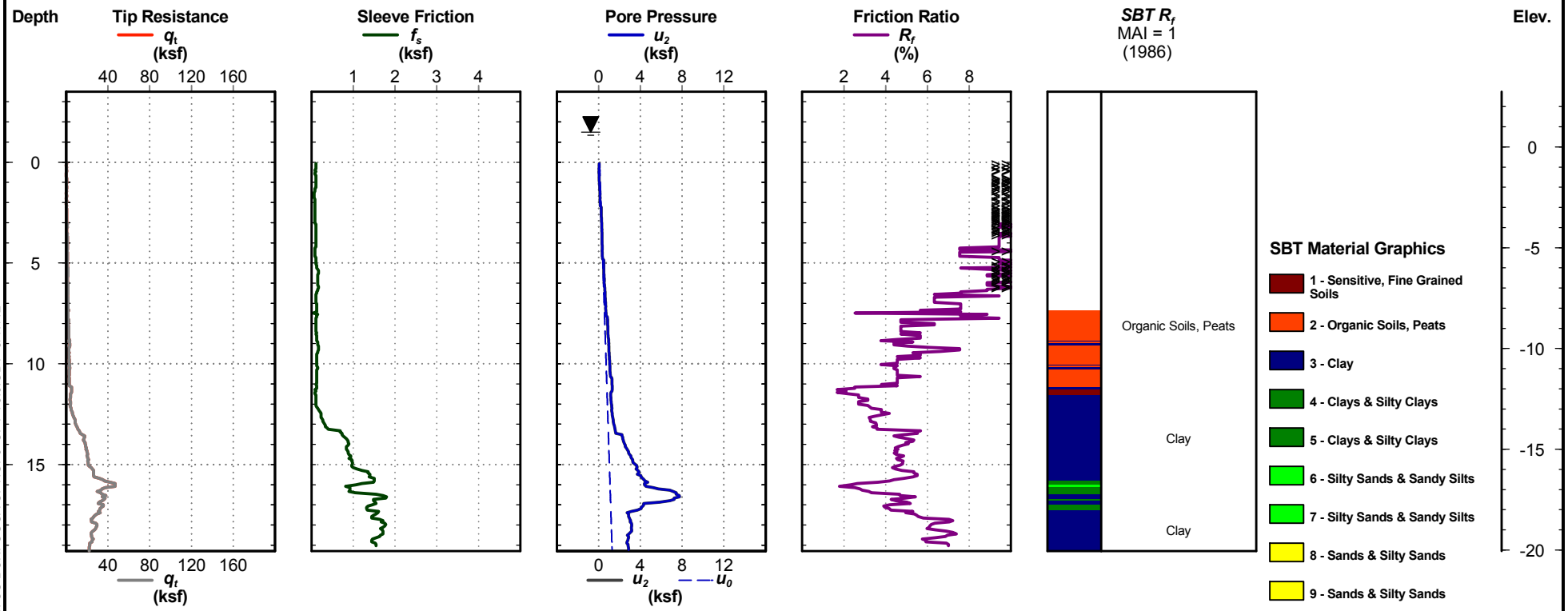
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 19

Date: Jul. 26, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2570556
Longitude: -89.8568333
Elevation: -0.8NGVD

Total Depth: 19.3
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 19

Electronic File Name: BF CPT 19.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

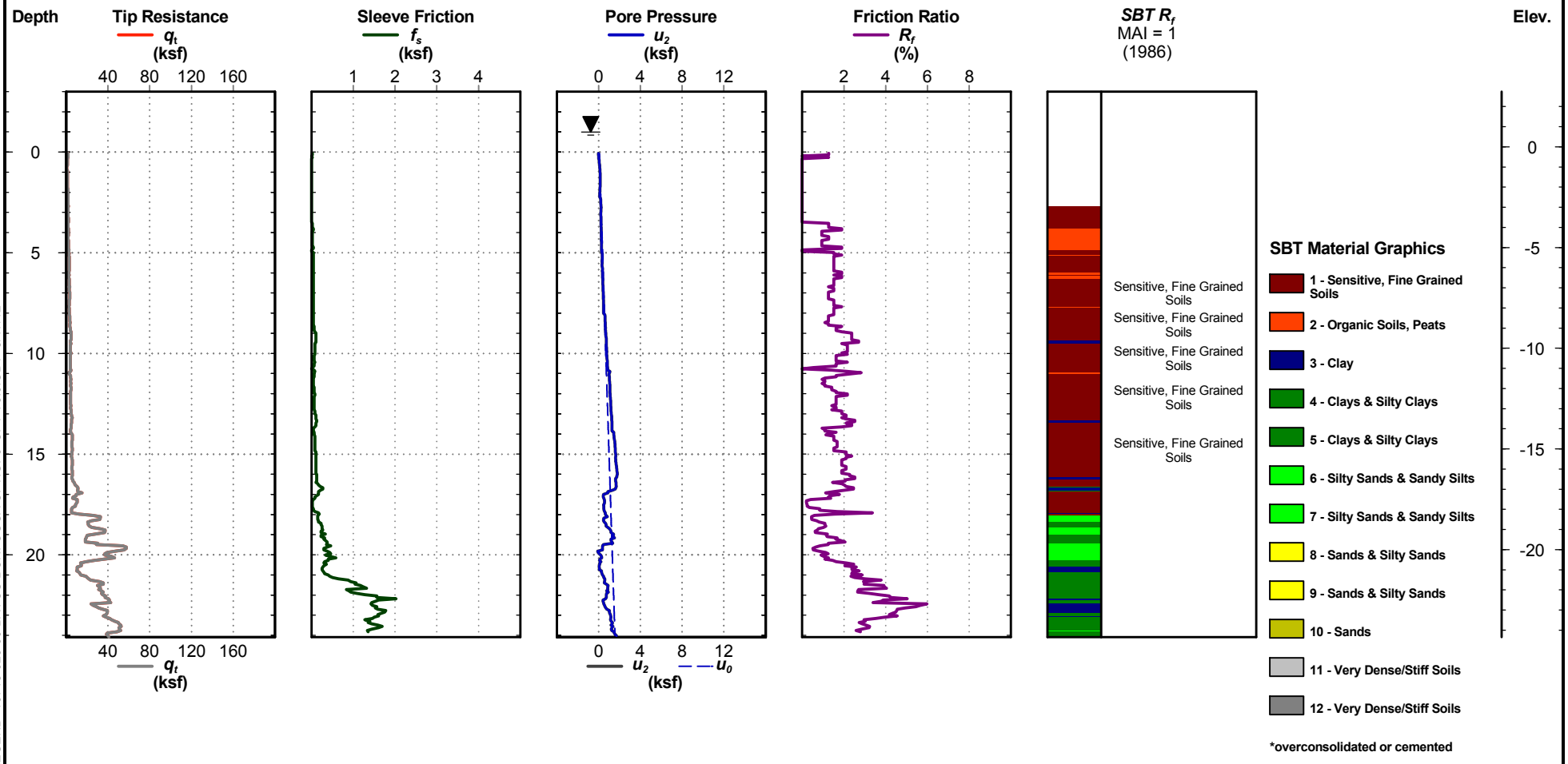
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 20

Date: Jul. 26, 2012
Estimated Water Depth: -1
Rig/Operator: GeoEngineers

Latitude: 30.2565
Longitude: -89.8574167
Elevation: -0.3NGVD

Total Depth: 24.1
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 20

Electronic File Name: BF CPT 20.cpt

GeoEngineers

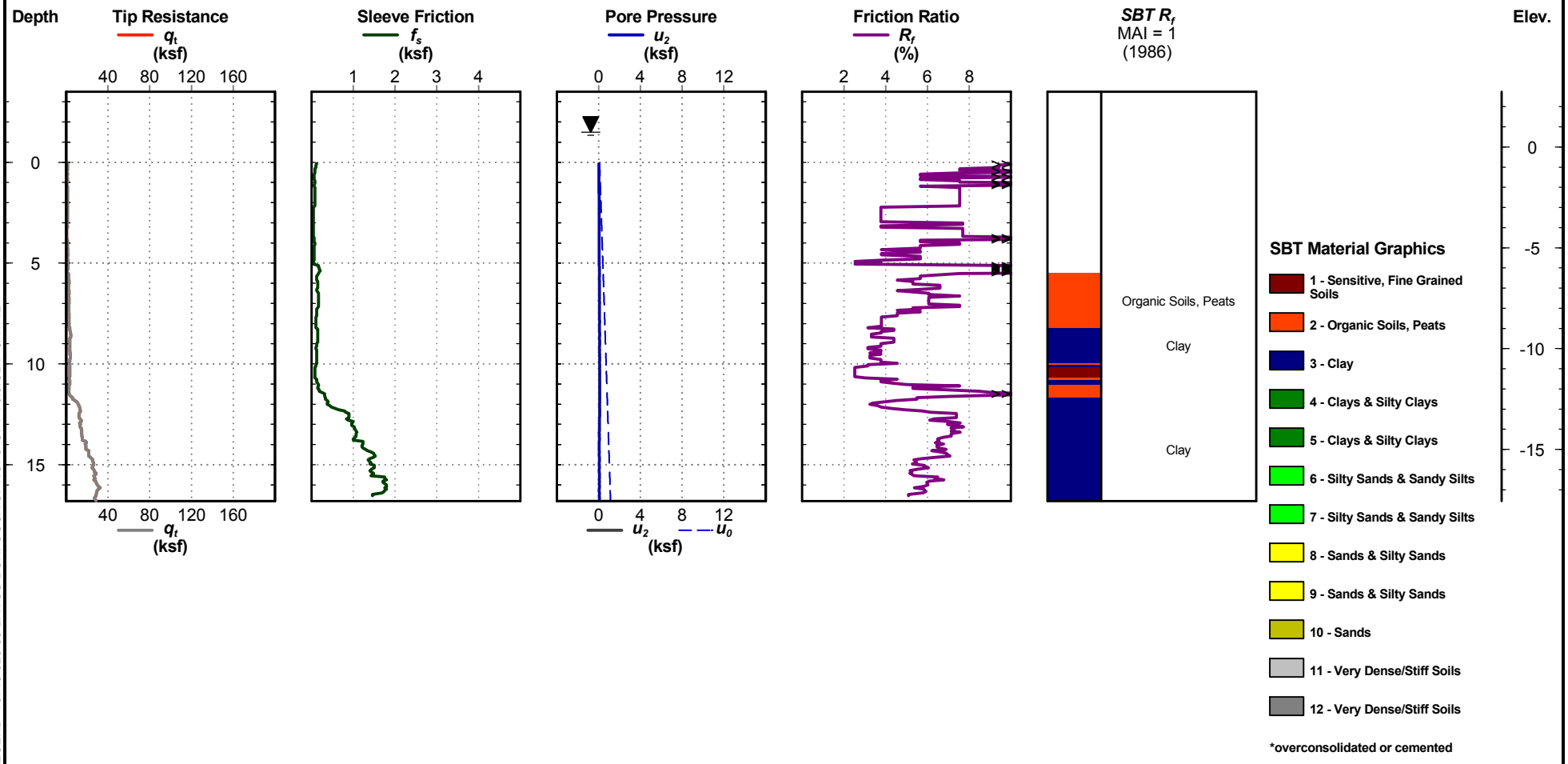
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 21

Date: Jul. 26, 2012
Estimated Water Depth: -1.5
Rig/Operator: GeoEngineers

Latitude: 30.2564722
Longitude: -89.8565833
Elevation: -0.8NGVD

Total Depth: 16.8
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

BF CPT 21

Electronic File Name: BF CPT 21.cpt

GeoEngineers

Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

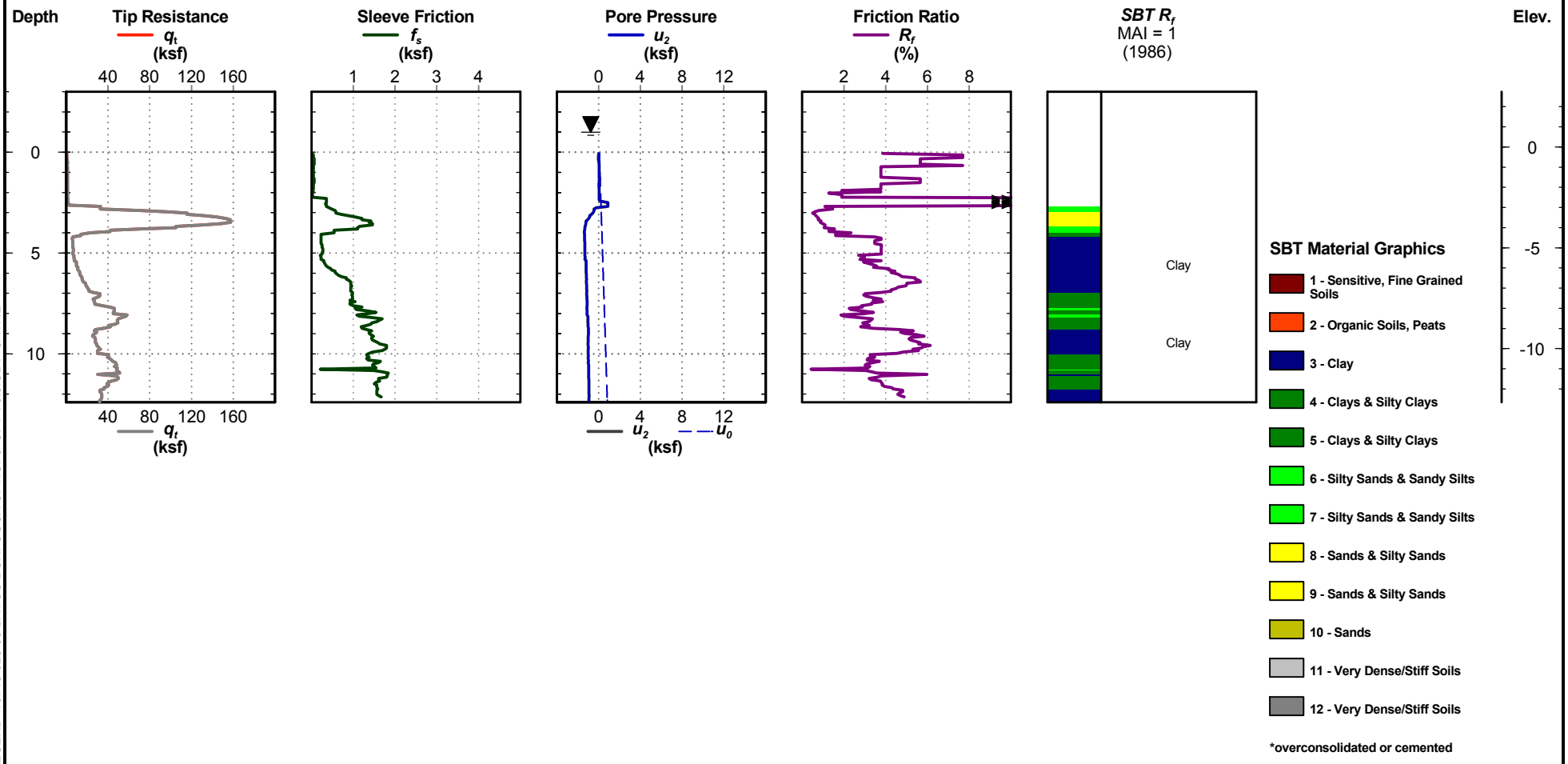
Cone Penetration Test

BF CPT 22

Date: Jul. 26, 2012
Estimated Water Depth: -1
Rig/Operator: GeoEngineers

Latitude: 30.2582778
Longitude: -89.85725
Elevation: -0.3NGVD

Total Depth: 12.4
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 22

Electronic File Name: BF CPT 22.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

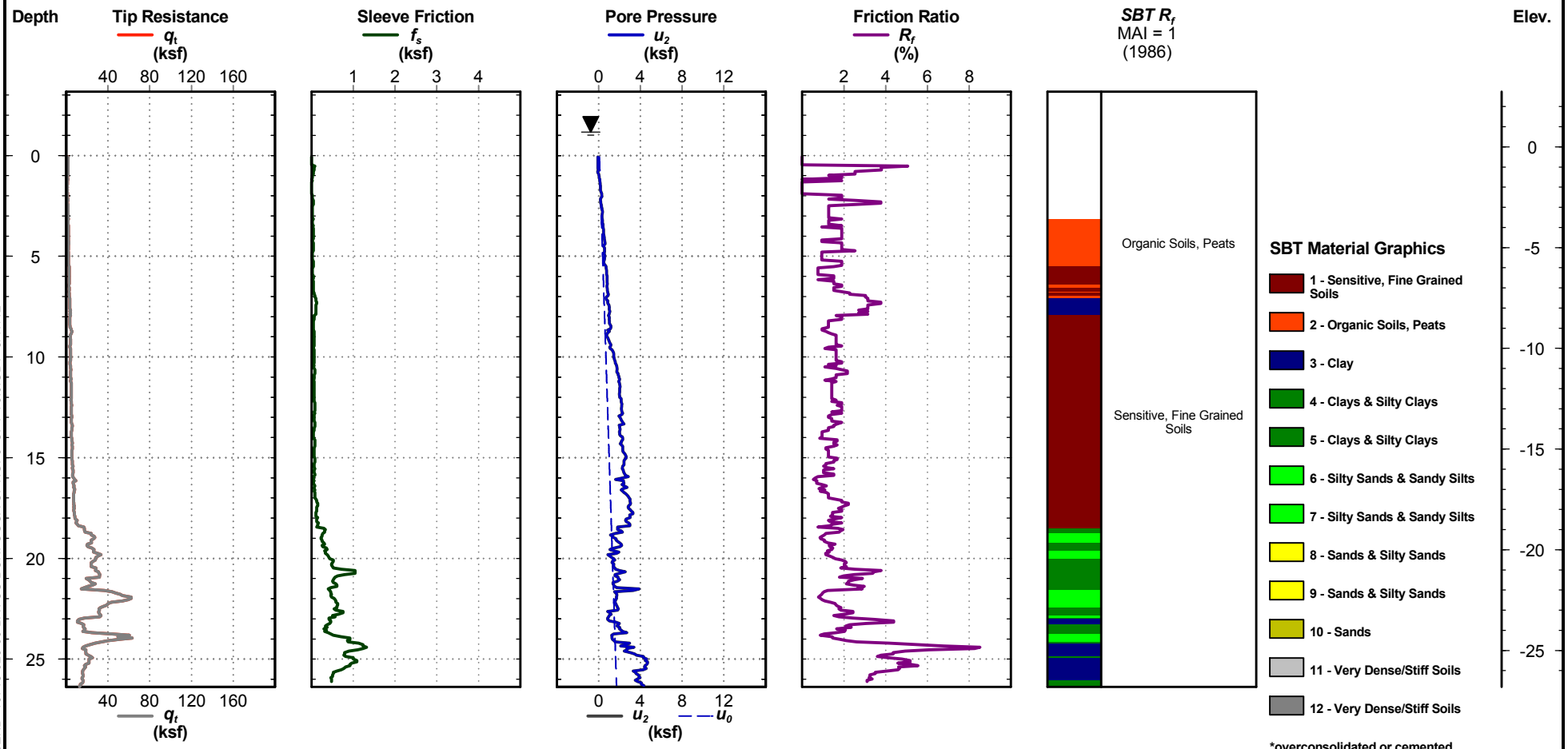
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 23

Date: Jul. 26, 2012
Estimated Water Depth: -1.17
Rig/Operator: GeoEngineers

Latitude: 30.2583889
Longitude: -89.8586944
Elevation: -0.4NGVD

Total Depth: 26.4
Termination Criteria:
Cone Size:



SBT Material Graphics

- 1 - Sensitive, Fine Grained Soils
- 2 - Organic Soils, Peats
- 3 - Clay
- 4 - Clays & Silty Clays
- 5 - Clays & Silty Clays
- 6 - Silty Sands & Sandy Silts
- 7 - Silty Sands & Sandy Silts
- 8 - Sands & Silty Sands
- 9 - Sands & Silty Sands
- 10 - Sands
- 11 - Very Dense/Stiff Soils
- 12 - Very Dense/Stiff Soils

*overconsolidated or cemented

BF CPT 23

Electronic File Name: BF CPT 23b.cpt

CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

GeoEngineers

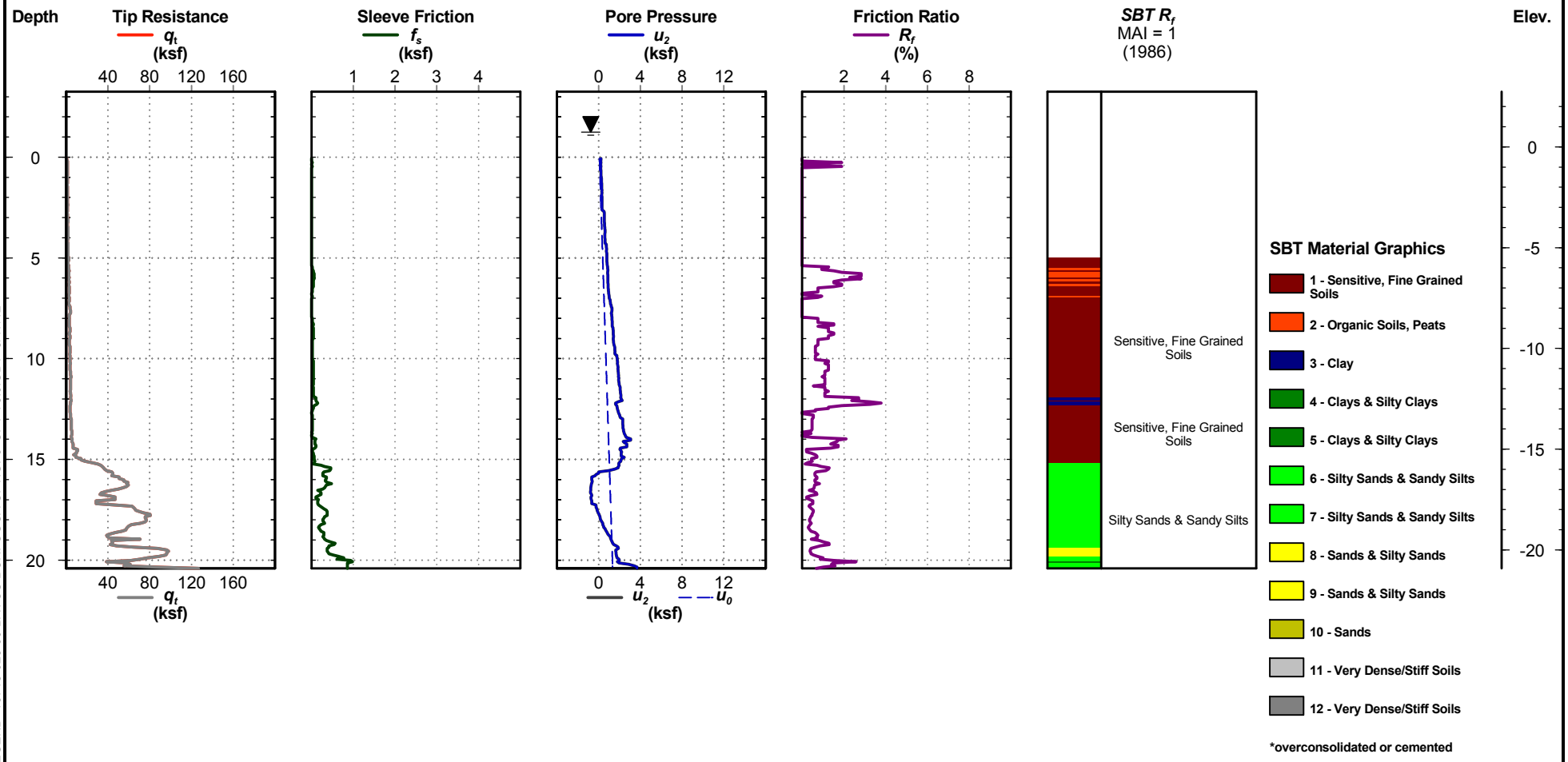
Bayou Bonfouca Marsh Creation (PO-104)
Big Branch Marsh (St. Tammany Parish,Louisiana)
Project No. :16715-023-00

Cone Penetration Test — BF CPT 24

Date: Jul. 26, 2012
Estimated Water Depth: -1.25
Rig/Operator: GeoEngineers

Latitude: 30.2591111
Longitude: -89.8584722
Elevation: -0.5NGVD

Total Depth: 20.4
Termination Criteria:
Cone Size:



CPT REPORT - STANDARD WITH LEGEND 16715-023-00 BAYOU BONFOUCA CPT.GPJ CPT V3.0.GDT 8/17/12

Electronic File Name: BF CPT 24.cpt

BF CPT 24

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