



# INVOICE

NDA  
10/5/10  
OK

11555 Clay Road; Suite 100  
Houston, TX 77043  
713-690-8989

Project Manager: Jason Mills

**Project:** Greenbusch Rd Phase II, FBC Project No 732  
From Mills Manor to Falcon Landing Blvd  
Key Map Page 484M  
Katy, TX

**To:** Fort Bend County Engineering  
Attn: Nathan Hatcher  
1124 Blume Rd  
Rosenberg, TX 77471

## REMIT TO:

**Invoice Number: T151195**

**Terracon Consultants, Inc.**  
**PO Box 843358**  
**Kansas City, MO 64184-3358**

**Federal E.I.N.: 42-1249917**

P.O. Number: 33590

Project Number: 92101254  
Contract Amount: \$184,977.81  
Billed to Date: \$1,062.50  
Invoice Date: 9/10/2010  
Services Through: 9/04/2010

Date	Report	Description of Services	Quantity	Rate	Total
9/2/10	92101254.0001	Technician - Level II, per hour	3.00	\$50.00	\$150.00
9/2/10	92101254.0001	Vehicle Charge, per hour	3.00	\$7.50	\$22.50
9/2/10	92101254.0001	Standard Proctor (ASTM D-698), each	1.00	\$175.00	\$175.00
9/2/10	92101254.0002	Atterberg Limit, per test	1.00	\$53.00	\$53.00
9/2/10	92101254.0002	Standard Proctor (ASTM D-698), Stabilized Soil, each	1.00	\$193.00	\$193.00
9/3/10	92101254.0003	Technician - Level II, per hour	2.00	\$50.00	\$100.00
9/3/10	92101254.0003	Vehicle Charge, per hour	2.00	\$7.50	\$15.00
9/4/10	92101254.0004	Technician, ACI - I, II, per hour - OT	4.00	\$66.00	\$264.00
9/4/10	92101254.0004	Vehicle Charge, per hour	4.00	\$7.50	\$30.00
9/4/10	92101254.0004	Compressive Strength, per cylinder	4.00	\$15.00	\$60.00

**Invoice Total \$1,062.50**

## Statement of Account

Contract Amount	\$184,977.81
Amount Previously Billed	\$0.00
Total Due this Invoice	\$1,062.50
Total Billed	\$1,062.50
Payments to Date	\$0.00
<b>Total Due</b>	<b>\$1,062.50</b>

We accept MasterCard, VISA, and Discover. Please call (800) 593-7777, option 12, with your electronic payment or credit card information.

**TERMS: DUE UPON PRESENTATION OF INVOICE**

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: 92101254.0001

Service Date: 09/02/10

Report Date: 09/03/10

# Terracon

11555 Clay Road

Houston, TX 77043

713-690-8989 Reg No: F-3272

## Client

Fort Bend County Engineering  
Attn: Nathan Hatcher  
1124 Blume Rd  
Rosenberg, TX 77471

## Project

Greenbusch Rd Phase II, FBC Project No 732  
From Mills Manor to Falcon Landing Blvd  
Key Map Page 484M  
Katy, TX  
Project Number 92101254

## Material Information

Source of Material: Gulf Coast Plant 9  
Proposed Use: Embedment

## Sample Information

Sample Date: 09/02/10  
Sampled By: Larry G. Bartos  
Sample Location: Greenbusch Rd, 9x5 RCB, Station 11+20

Sample Description: 100 psi Cement Stabilized Sand

## Laboratory Test Data

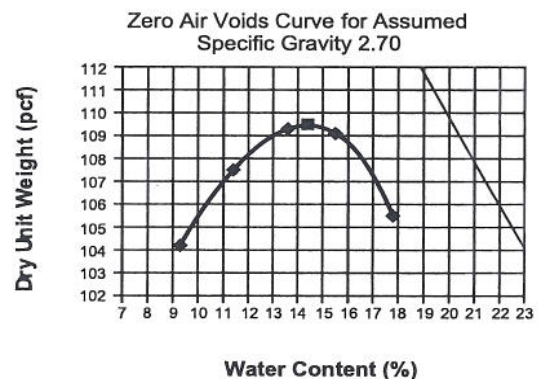
Test Procedure: ASTM D698  
Test Method: Method A  
Sample Preparation: Wet  
Rammer Type: Manual  
Maximum Dry Unit Weight (pcf): 109.5  
Optimum Water Content (%): 14.4

Liquid Limit:  
Plastic Limit:  
Plasticity Index:  
In-Place Moisture (%):

### Result

### Specifications

USCS:



## Comments:

Services: Obtain a sample of sand cement backfill at the project site and return it to the laboratory. Prepare and test the sample for moisture-density relationship.

Terracon Rep.: Larry G. Bartos

Reported To:

Contractor: Allgood Construction

## Report Distribution:

(1) Fort Bend County Engineering, ndh@co.fort-bend.tx.us

(1) Allgood Construction, roy@allgoodconst.com

(1) Schaumburg & Polk, ekneseck@spi-eng.com

Started: 0900

Finished: 1200

Reviewed By:

Jason L. Mills  
Project Manager

## Test Methods: ASTM D698

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

# LABORATORY COMPACTION CHARACTERISTICS OF SOIL REPORT

Report Number: 92101254.0002

Service Date: 09/02/10

Report Date: 09/05/10

# Terracon

11555 Clay Road

Houston, TX 77043

713-690-8989 Reg No: F-3272

## Client

Fort Bend County Engineering

Attn: Nathan Hatcher

1124 Blume Rd

Rosenberg, TX 77471

## Project

Greenbusch Rd Phase II, FBC Project No 732

From Mills Manor to Falcon Landing Blvd

Key Map Page 484M

Katy, TX

Project Number 92101254

## Material Information

Source of Material: Insitu

Proposed Use: Backfill

## Sample Information

Sample Date: 09/02/10

Sampled By: Larry G. Bartos

Sample Location: Greenbusch Road Sta. 11+20, 0' to -18' Composite

Sample Description: Reddish Brown and Gray Silty Clay

## Laboratory Test Data

Test Procedure: ASTM D698

Test Method: Method A

Sample Preparation: Wet

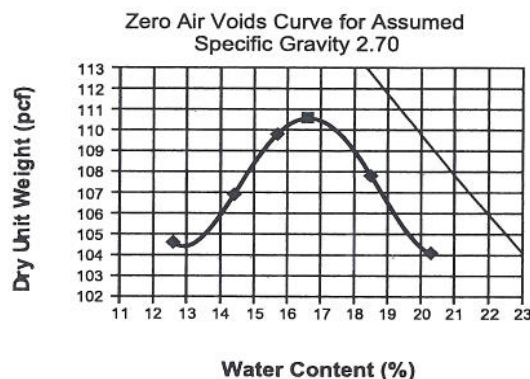
Rammer Type: Manual

Maximum Dry Unit Weight (pcf): 110.6

Optimum Water Content (%): 16.6

	Result	Specifications
Liquid Limit:	42	
Plastic Limit:	17	
Plasticity Index:	25	
In-Place Moisture (%):		

USCS:



Comments: \*\*Refer to Report No. 92101254.0001

Services: Obtain a sample of backfill from the project site and return it to the laboratory. Prepare and test the sample for Moisture Density Relation (ASTM D698) and Atterberg limits (ASTM D4318).

Terracon Rep.: Larry G. Bartos

Reported To:

Contractor: Allgood Construction

Report Distribution:

(1) Fort Bend County Engineering, ndh@co.fort-bend.tx.us

(1) Allgood Construction, roy@allgoodconst.com

(1) Schaumburg & Polk, eknesek@spi-eng.com

Started: \*\*

Finished: \*\*

Reviewed By:

Jason L. Mills  
Project Manager

Test Methods: ASTM D698, ASTM D4318

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.



## **CANCELLATION REPORT**

**Report Number:** 92101254.0003  
**Service Date:** 09/03/10  
**Report Date:** 09/03/10

# **Terracon**

11555 Clay Road  
Houston, TX 77043  
713-690-8989 Reg No: F-3272

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### **Client**

Fort Bend County Engineering  
Attn: Nathan Hatcher  
1124 Blume Rd  
Rosenberg, TX 77471

### **Project**

Greenbusch Rd Phase II, FBC Project No 732  
From Mills Manor to Falcon Landing Blvd  
Key Map Page 484M  
Katy, TX  
Project Number: 92101254

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On September 3, 2010, a Terracon representative arrived at the above referenced project at 3:25 p.m. to perform concrete sampling as scheduled. The technician was notified at 3:25 p.m. by Rick Rodriguez with Allgood Construction that the work had been cancelled due to the contractor not being ready.

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### **Services:**

**Terracon Rep.:** Angel N. Santibanez

**Reported To:**

**Contractor:** Allgood Construction

**Report Distribution:**

(1) Fort Bend County Engineering,  
ndh@co.fort-bend.tx.us  
(1) Schaumburg & Polk, eknesek@spi-  
eng.com

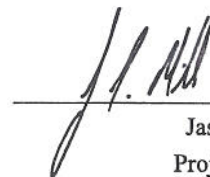
(1) Allgood Construction,  
roy@allgoodconst.com

**Started:** 1400

**Finished:** 1600

**Lunch/NC:**

**Reviewed By:**



Jason L. Mills  
Project Manager

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.

# CONCRETE COMPRESSIVE STRENGTH TEST REPORT

Report Number: 92101254.0004

Service Date: 09/04/10

Report Date: 09/11/10 Revision 1 - 7-day results

## Terracon

11555 Clay Road

Houston, TX 77043

713-690-8989 Reg No: F-3272

### Client

Fort Bend County Engineering  
Attn: Nathan Hatcher  
1124 Blume Rd  
Rosenberg, TX 77471

### Project

Greenbusch Rd Phase II, FBC Project No 732  
From Mills Manor to Falcon Landing Blvd  
Key Map Page 484M  
Katy, TX  
Project Number: 92101254

### Material Information

#### Specified Strength:

Mix ID: 3151600

Supplier: Campbell

Batch Time: 0805

Truck No.: 768

Plant: 11

Ticket No.: 1125344

### Sample Information

Sample Date: 09/04/10 Sample Time: 0900

Sampled By: F. Zacarias-Oliva

Weather Conditions: CLOUDY

Accumulative Yards: 9 Batch Size (cy): 9

Placement Method: Direct Discharge

Water Added Before (gal): 0

Water Added After (gal): 0

Sample Location: S. Wall, S. 1/3 of Box

Placement Location: Junction Box, Station 11+04

### Field Test Data

Test	Result	Specification
Slump (in):	4 1/2	***
Air Content (%):	2.25	***
Concrete Temp. (F):	94	
Ambient Temp. (F):	86	
Plastic Unit Wt. (pcf):		

### Laboratory Test Data

Set No.	Specimen ID	Diameter (in)	Area (sq in)	Date Received	Date Tested	Age at Test (days)	Maximum Load (lbs)	Compressive Strength (psi)	Fracture Type
1	A	6.00	28.27	09/08/10	09/11/10	7	131,010	4,630	2
1	B	6.00	28.27	09/08/10	09/11/10	7	134,100	4,740	2
Average (7 days)								4,690	
1	C			09/08/10	10/02/10	28			
1	D			09/08/10	10/02/10	28			

Comments: Not tested for plastic unit weight.

\*\*\*Information not provided to Terracon.

### Samples Made By: Terracon

Services: Obtain samples of fresh concrete at the placement locations (ASTM C-172), perform required field tests and cast, cure, and test compressive strength samples (ASTM C-31 (with the exception of Section 10.1.2), C-39, C-617).

Terracon Rep.: F. Zacarias-Oliva

Reported To:

Contractor: Allgood Construction

Report Distribution:

(1) Fort Bend County Engineering,  
ndh@co.fort-bend.tx.us

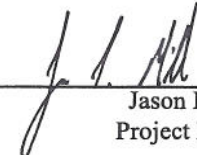
(1) Allgood Construction, roy@allgoodconst.com

(1) Schaumburg & Polk, eknesek@spi-eng.com

Started: 0700

Finished: 1100

Reviewed By:



Jason L. Mills  
Project Manager

Test Methods: ASTM C138, ASTM C143, ASTM C173, ASTM C1064

The tests were performed in general accordance with applicable ASTM, AASHTO, or DOT test methods. This report is exclusively for the use of the client indicated above and shall not be reproduced except in full without the written consent of our company. Test results transmitted herein are only applicable to the actual samples tested at the location(s) referenced and are not necessarily indicative of the properties of other apparently similar or identical materials.