

PO# 144404

BH

rec 393817

Reviewed 02/20/2017

HT

2/22/17



**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

February 10, 2017

Fort Bend County Engineering Department  
Attn: Accounts Payable  
301 Jackson St., 4th Floor  
Richmond, TX 77469

RE: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane  
Forth Bend County

Attached is our monthly invoice for the **Construction Material Testing** on the referenced project.

Estimate or Contract Amount:	\$39,900.00 ✓
Change Orders:	\$0.00
Billing to Last Month:	\$35,189.00 ✓
Current Month Total:	<u>\$3,643.95</u>
Project Total:	\$38,832.95 ✓

97%

OK, JH 02/21/17

Please note that the original budget was only an estimate and is not to be considered a "Not To Exceed" amount. The information provided above is to assist with your internal budgeting

We appreciate your business. If you have any questions about the current invoice or the overall budget please contact me at the earliest possible time.

Sincerely,

QC Laboratories, Inc.

2/13/2017

Tel: 713-695-1133  
Fax: 713-695-0808

10810 Northwest Freeway  
Houston, Texas 77092

qclabs@qclabs.com

QC Laboratories, Inc.

10810 Northwest Freeway  
Houston, TX 77092

# Invoice

DATE	INVOICE #
1/31/2017	11-61264

<b>BILL TO</b>
Fort Bend County Engineering Dept. 301 Jackson St., 4th Floor Richmond, TX 77469

Project #	Terms	Project	Purchase Order
16M13347	Net 30 Days	Katy Gaston Road	

DATE	REPORT #	DESCRIPTION	QTY	RATE	AMOUNT
		Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County			
1/20/2017	83	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level II Technician	8	65.00	520.00
		NICET Level II Technician - OT	2	97.50	195.00
		Vehicle Charge	8	10.00	80.00
		Nuclear Density Gauge Charge	8	10.50	84.00
	84	Staff/Project Engineer	0.1	149.00	14.90
		Moisture Density Relationship Test (ASTM D698)	1	205.00	205.00
	85	Staff/Project Engineer	0.1	149.00	14.90
		Cement Stabilized Sand (CSS) Molding and Strength	4	71.00	284.00
1/24/2017	86	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level III Technician	4	75.00	300.00
		Vehicle Charge	4	10.00	40.00
1/26/2017	87	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level II Technician	8	65.00	520.00
		NICET Level II Technician - OT	0.5	97.50	48.75
		Vehicle Charge	8	10.00	80.00
		Percent Solids in Lime Slurry	1	43.00	43.00
1/30/2017	88	Staff/Project Engineer	0.1	149.00	14.90
	89	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level II Technician	8	65.00	520.00
		NICET Level II Technician - OT	1	97.50	97.50
		Vehicle Charge	8	10.00	80.00
1/31/2017	90	Staff/Project Engineer	0.1	149.00	14.90
		NICET Level II Technician	5	65.00	325.00
			<b>Total</b>		
			<b>Balance Due</b>		

<b>Phone #</b>
(713) 695-1133

QC Laboratories, Inc.

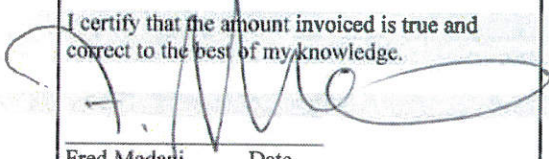
10810 Northwest Freeway  
Houston, TX 77092

# Invoice

DATE	INVOICE #
1/31/2017	11-61264

<b>BILL TO</b>
Fort Bend County Engineering Dept. 301 Jackson St., 4th Floor Richmond, TX 77469

Project #	Terms	Project	Purchase Order
16M13347	Net 30 Days	Katy Gaston Road	

DATE	REPORT #	DESCRIPTION	QTY	RATE	AMOUNT
		Vehicle Charge	5	10.00	50.00
		Nuclear Density Gauge Charge	5	10.50	52.50
		I certify that the amount invoiced is true and correct to the best of my knowledge.			
					
		Fred Madani      Date			
		2/13/17			
<b>Total</b>					\$3,643.95
<b>Balance Due</b>					\$3,643.95

Phone #
(713) 695-1133





**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

FDT #83  
Proctor #84  
OSS #85

### PROJECT DAILY ACTIVITY SUMMARY

Project: Katy-Gaston Rd. Project No.: 16m13347  
Client: Fort Bend Co. Report No.: 124128  
Contractor: Allgood Date: 11/20/17  
COH WBS No.: \_\_\_\_\_ Testing Lab: QC Laboratories, Inc  
HC Job No.: \_\_\_\_\_

### TIME RECORD

Time depart office: 8am Time arrive project: 9:15am Time depart project: 5:15pm Time arrive office: 6:30pm  
Lunch begin: 1:15 Lunch End: \_\_\_\_\_  
Billable RT hours: 8.0 Billable OT hours: 2.0 Technician Name: Chris Aicklen

### ACTIVITIES

☒ Proctor Sample P/U ☐ Concrete Sample P/U ☐ Asphalt Sample P/U  
☒ Field Density Testing ☐ Concrete Sampling ☐ Asphalt Testing  
☐ Other (Description) \_\_\_\_\_

### SUMMARY OF FIELD ACTIVITIES

Service techn. arrived on location to perform density test & pick-up proctor.  
Densities continue on 24" RCP storm. sewer laterals across S.B. lanes of new Katy-Gaston Rd. These laterals were stopped last year due to fiber optic lines laying @ flow line. Cable have been relocated and are no hinder to work. From Inlet NE<sup>3</sup> (Sta. 22+00) to tie-in to existing 24" RCP (30'); Inlet NE<sup>4</sup> (Sta. 25+00) to tie-in existing 24" RCP, & Inlet NE<sup>6</sup> (Sta. 37+00), also tie-in to existing 24" RCP.  
Techn. also picked up a sample of 1.5 sk C.S.S and returned to Lab for analysis.  
Test results today are in accordance with Harris County Specs.

Technician Signature: \_\_\_\_\_

Certification Level & Organization: \_\_\_\_\_

Inspector Signature: \_\_\_\_\_

Inspector Name (print): \_\_\_\_\_

ROSCAR 0 1/24/17

Client No: 091316 Proj No: 16M13347 Date Sampled: 01/20/2017  
Report Date: 01/23/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Louis w/Allgood Const  
Location: Inlets NE#3, NE#4, & NE#6, 24" RCP Storm Sewer Laterals and Tie-ins to existing 24" RCP Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Field Density Testing

LAB NO: 124128

Test Method: See Below

### TEST RESULTS

Report No: 1-2703-000083

Page 1 of 2

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
120831-1	09/06/2016	13.4	107.2	Gray / 1.5 sk Cement Stabilized Sand

### Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95		

Material: Inlet NE#3, NE#4, & NE#6, 24" RCP Storm & Tie-ins

Test No.	Gauge Depth	Location	Wet Density (pcf)	Moisture Content %	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass Fail
1	6	NE#3 - 15' Southwest of Station 22+00 (Bedding)	228.8	118.9	104.5	120831-1	1	97.5	Pass
2	6	NE#4 - 20' Southwest of Station 25+00 (Bedding)	118.3	15.1	102.8	120831-1	1	95.9	Pass
3	6	NE#6 - 15' Southwest of Station 37+00 (Bedding)	117.5	13.6	103.4	120831-1	1	96.5	Pass
4	6	20' Southwest of Inlet NE#3 (2' Below Grade)	117.6	15.1	102.2	120831-1	1	95.3	Pass
5	6	25' Southwest of Inlet NE#4 (2' Below Grade)	118.3	14.0	103.8	120831-1	1	96.8	Pass

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig



Client No: 091316 Proj No: 16M13347 Date Sampled: 01/20/2017  
Report Date: 01/23/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Louis w/Allgood Const  
Location: Inlets NE#3, NE#4, & NE#6, 24" RCP Storm Sewer Laterals and Tie-ins to existing 24" RCP Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Field Density Testing

LAB NO: 124128

Test Method: See Below

**TEST RESULTS**

Report No: 1-2703-000083

Page 2 of 2

Material: Inlet NE#3, NE#4, & NE#6, 24" RCP Storm & Tie-ins

Test No.	Gauge Depth	Location	Wet Density (pcf)	Moisture Content %	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass Fail
6	6	10' Southwest of Inlet NE#6 (2' Below Grade)	121.9	14.9	106.1	120831-1	1	99.0	Pass
7	6	10' Southwest of Inlet NE#3 (1' Below Grade)	122.3	14.8	106.5	120831-1	1	99.3	Pass
8	6	15' Southwest of Inlet NE#4 (1' Below Grade)	120.3	15.0	104.6	120831-1	1	97.6	Pass
9	6	15' Southwest of Inlet NE#6 (1' Below Grade)	118.6	14.3	103.8	120831-1	1	96.8	Pass
10	6	20' Southwest of Inlet NE#3 (Grade)	121.6	14.1	106.6	120831-1	1	99.4	Pass
11	6	10' Southwest of Inlet NE#4 (Grade)	121.6	14.3	106.4	120831-1	1	99.3	Pass
12	6	15' Southwest of Inlet NE#6 (Grade)	118.9	14.1	104.2	120831-1	1	97.2	Pass

Gauge No.: 61994 Daily Standard Counts: 01/20/2017 DS: 1904 MS: 690  
Test Methods: ASTM D6938

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.

*H. N. Dwarakanath*

Hulugundi Dwarakanath, P.E., Senior Project Engineer

THIS REPORT APPLIES ONLY TO THE STANDARDS OR PROCEDURES INDICATED AND TO THE SAMPLE(S) TESTED AND/OR OBSERVED AND ARE NOT NECESSARILY INDICATIVE OF THE QUALITIES OF APPARENTLY IDENTICAL OR SIMILAR PRODUCTS OR PROCEDURES, NOR DO THEY REPRESENT AN ONGOING QUALITY ASSURANCE PROGRAM UNLESS SO NOTED. THESE REPORTS ARE FOR THE EXCLUSIVE USE OF THE ADDRESSED CLIENT AND ARE NOT TO BE REPRODUCED WITHOUT WRITTEN PERMISSION.

Client No: 091316 Proj No: 16M13347 Date Sampled: 01/20/2017  
Report Date: 01/23/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Louis w/Allgood Const  
Location: Storm Sewer Line at Sta 30+96 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Moisture Density Relationship

LAB NO: 124128-1

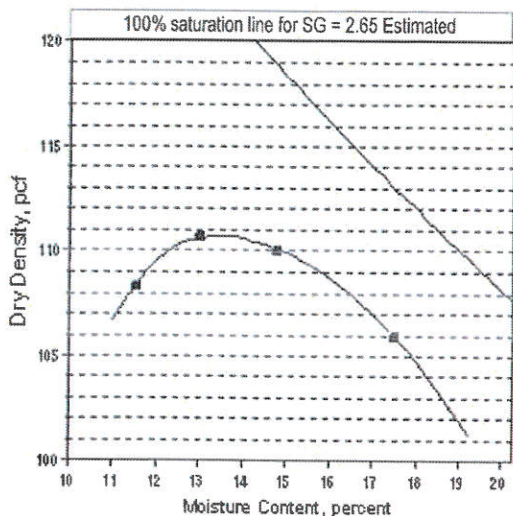
Material: 1.5sk Cement Stabilized Sand - Cherry Plant #2

Test Method: See Below

**TEST RESULTS**

Report No: 1-2703-000084

Page 1 of 1



% Moisture

Dry Density Lbs./Cu.Ft.

11.4

108.0

13.1

110.7

14.8

110.0

17.4

106.1

13.2

Optimum

110.7

Maximum

Color: Brown

Description: 1.5sk Cement Stabilized Sand

Liquid Limit: NP

Plastic Limit: NP

Plasticity Index: NP

Group Symbol:

AASHTO:

Desc of Rammer: Mechanical

Preparation Method: Moist

Remarks:

Test Method (As Applicable): ASTM D-558 Method-A

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.

*Handwritten signature*

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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Client No: 091316 Proj No: 16M13347 Date Sampled: 01/20/2017  
Report Date: 01/27/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Louis w/Allgood Const  
Location: Sanitary Sewer Line at Sta 30+96 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Compressive Strength of Cement Stabilized Sand

LAB NO: 124128-2

**TEST RESULTS**

Report No: 1-2703-000085

Page 1 of 1

**Sample Data**

Date Sampled: 1/20/17

Time Sampled: 11:00 AM

Material Description: 1.5 SK Cement Stabilized Sand

Strength Specification: 100 psi @ 48 Hours

Sample Location: Storm Sewer Line at Station 30+96

Moisture Content (%): 15.5

Supplier: Cherry Crushed Concrete

Plant: # 2

Time Batched: 10:30 AM

Time Molded: 12:00 PM

Age When Molded: 1 Hr 30 Min

**Test Results**

Date Tested	Test Age (days)	Specimen Size		Area (in <sup>2</sup> )	Total Load (lbs)	Compressive Strength (psi)
		Diameter (in.)	Height (in.)			
1/22/17	2	4.0	4.54	12.57	1406	110
1/22/17	2	4.0	4.54	12.57	1357	110
1/27/17	7	4.0	4.54	12.57	1991	160
1/27/17	7	4.0	4.54	12.57	1995	160

**Notes:**

1. Deviations from Standard Test Methods: Samples cured at ambient laboratory temperature in plastic bags.

2. The above test results comply with project specification requirements with the exception of those marked with an asterisk (\*).

Test Methods: ASTM D1633

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

Proof # 86  
MISC

### PROJECT DAILY ACTIVITY SUMMARY

Project: KATY GASTON RD - WEST PARK DR TO SUMMERSSET ROAD LN  
Client: FORT BEND CO. ENG'G. DEPARTMENT  
Contractor: \_\_\_\_\_  
COH WBS No.: \_\_\_\_\_

Project No.: 16M13347  
Report No.: 124217  
Date: 1-24-17  
Testing Lab: QC Laboratories, Inc  
HC Job No.: \_\_\_\_\_

### TIME RECORD

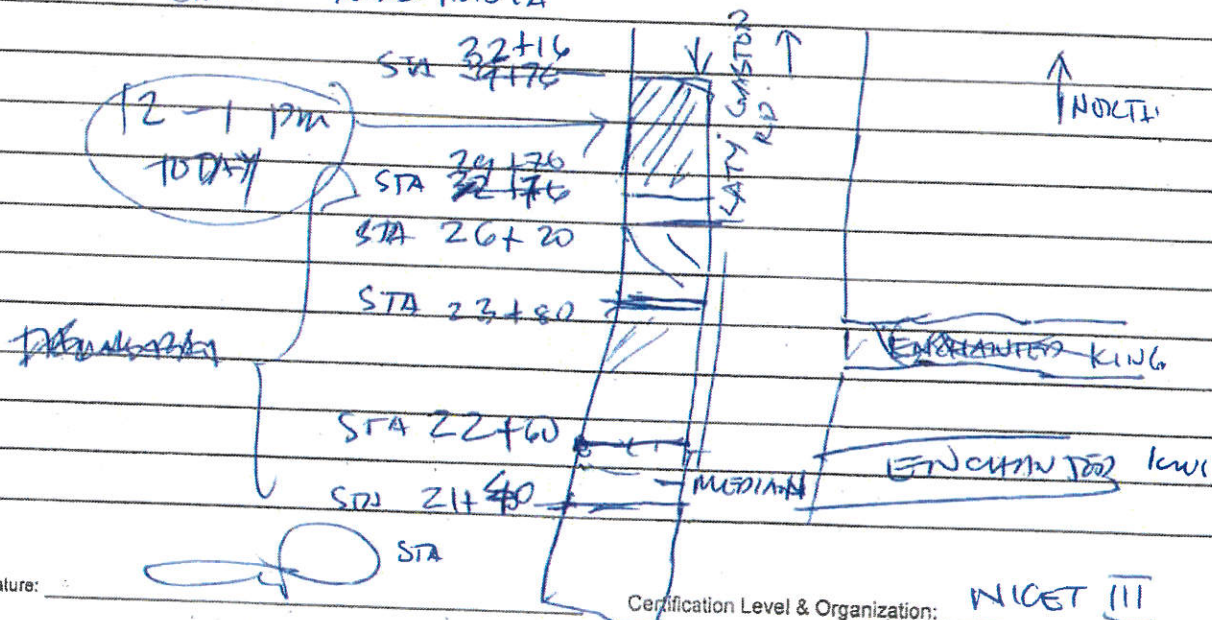
Time depart office: 2:00 PM Time arrive project: 3:00 PM Time depart project: 5:00 PM Time arrive office: 6:00 PM  
Lunch begin: — Lunch End: —  
Billable RT hours: 4.0 Billable OT hours: — Technician Name: MARIO TAGAVILLA

### ACTIVITIES

Proctor Sample P/U \_\_\_\_\_ Concrete Sample P/U \_\_\_\_\_ Asphalt Sample P/U  
Field Density Testing \_\_\_\_\_ Concrete Sampling \_\_\_\_\_ Asphalt Testing \_\_\_\_\_  
☒ Other (Description) PROOF-ROLL INSPECTION

### SUMMARY OF FIELD ACTIVITIES

- 1.) PROOF ROLL INSPECTION BY OBSERVING A 1520-<sup>ROLLER</sup> TON LOADED DUMP TRUCK ON THE COMPACTED SUBGRADE, SOUTH BOUND LANES (L&R) KATY GASTON ROAD FR STA



Technician Signature: \_\_\_\_\_

Certification Level & Organization: NICET III

Inspector Signature: \_\_\_\_\_

Inspector Name (print): \_\_\_\_\_

CONTRACTOR

ROSA RIOS 1/25/17



10810 Northwest Freeway  
Houston, TX 77092-7304  
Tel: 713-695-1133  
TBPE Firm No. F-3601

Client No: 091316 Proj No: 16M13347 Date Sampled: 01/24/2017  
Report Date: 02/02/2017 Sampled By: Mario Tagavilla  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, By Order Of: Domingo w/Allgood Const  
Fort Bend County  
Location: Order Number:

Client: Fort Bend County Engineering Department

REPORT: Daily Field Activity

LAB NO: 124217

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**TEST RESULTS**

Report No: 1-2703-000086

**Page 1 of 1**

As requested, a representative of QC Laboratories, Inc., went to the project site at the scheduled time, i.e., 3:00 PM to witness the proofrolling operations. However, at the time of our visit, the contractor had no tandem axle dump truck available to perform proofrolling operations. Hence, our engineer talked to the contractor's representative in the field and it was agreed that the contractor would reschedule for proofrolling operations at a later date in the proposed areas.

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

Proof # 88  
STAB # 87

### PROJECT DAILY ACTIVITY SUMMARY

Project: Katy Gaston Road

Project No.: 16m 13347

Client: Fort Bend County

Report No.: 1/26/17

Contractor: Allgood

Date: 124 291

COH WBS No.: \_\_\_\_\_

Testing Lab: QC Laboratories, Inc

HC Job No.: \_\_\_\_\_

### TIME RECORD

Time depart office: 5<sup>30</sup> am Time arrive project: 6<sup>30</sup> am Time depart project: 1<sup>15</sup> pm Time arrive office: 2<sup>30</sup> pm

Lunch begin: 12:00pm Lunch End: 12:30pm

Billable RT hours: 8.0 Billable OT hours: .5 Technician Name: Chris Aicklen

### ACTIVITIES

Proctor Sample P/U

Concrete Sample P/U

Asphalt Sample P/U

Field Density Testing

Concrete Sampling

Asphalt Testing

✓ Other (Description)

Proof Roll & Lime Slurry

### SUMMARY OF FIELD ACTIVITIES

Service techn. arrived on location to perform proofroll observation of lime slurry. South bound Lanes (2) of new Katy - Gaston Rd. from Sta. # 20+70 → Sta. # 25+60 & Sta. # 36+18 → Sta. # 37+88. Three lime trucks delivered slurry, today and techn. secured samples to measure; test results are in accordance with project specs. Techn. found proofroll to be in accordance w/ TxDOT requirements.

Technician Signature: \_\_\_\_\_

Certification Level & Organization: W. II Nret

Inspector Signature: \_\_\_\_\_

Inspector Name (print): \_\_\_\_\_

Rosario  
11/31/17

Client No: 091316 Proj No: 16M13347 Date Sampled: 01/26/2017  
Report Date: 02/03/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const  
Location: South Bound Lanes of Katy Gaston Road: Stations 20+70 to 25+60 and 36+18 to 37+88 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Soil Stabilization Application

LAB NO: 124291

**TEST RESULTS**

Report No: 1-2703-000087

Page 1 of 1

Location: South Bound Lanes of Katy Gaston Road: Stations 20+70 to 25+60 and 36+18 to 37+88

Supplier: Lhoist North America

Description: Lime Slurry

Material Type: ☒ Slurry ☐ Dry Powder ☐ Blended Powder

Truck Number	Ticket Number	Sample Location	% Solids	% Solids on Ticket
10900009	115386415	Station 25+00 (10.290 Ton)	44.0	41.1
10900009	115386426	Station 20+99 (9.240 Tons)	44.0	41.1
10900009	115386431	Station 36+95 (8.761 Tons)	44.0	41.5

Stabilizing material required: 6 % From Project Specifications  
lbs/yd<sup>2</sup> Geotechnical Report

Area Stabilized: 13,767 Sq. Ft. ☒ QC Laboratories Recommendation

Depth of Mixing: 8 in. Average Dry Density of soil: 100 lbs/ft<sup>3</sup>

Tons of stabilizing material required: 27.53 Tons of stabilizing material provided: 28.29

The amount of stabilizing material added did meet the required amount.

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

QC Laboratories, Inc.

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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Client No: 091316 Proj No: 16M13347 Date Sampled: 01/26/2017  
Report Date: 02/03/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const  
Location: South Bound Lanes Stations 20+70 to 25+60 & 36+18 to 37+88 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Proof Roll Inspection

LAB NO: 124291-1

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**TEST RESULTS**

Report No: 1-2703-000088

Page 1 of 1

A representative of QC Laboratories, Inc. was present at the above referenced project to perform a proofroll observation to delineate soft, wet, and/or weak areas of the subgrade.

- The area proof rolled by the contractor and observed by the technician was the subgrade in the area of the South Bound Lanes of Katy Gaston Road, Stations 20+70 to 25+60 and 36+18 to 37+88.

Proof rolling was performed by the contractor utilizing a loaded dump truck.

The proof rolling operation was found to be satisfactory with no weak or soft areas observed.

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen  
1-ec AECOM Attn: Amanda Loethen  
1-ec AECOM Attn: Huy Ton  
1-ec Allgood Construction Co. Inc.  
Attn: Michael Boenig

QC Laboratories, Inc.

*H.N. Dwarakanath*

Hulugundi Dwarakanath, P.E., Senior Project Engineer



**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

### PROJECT DAILY ACTIVITY SUMMARY

Project: Katy - Gaston Rd., Westpark dr.  
to Sunset Ridge Ln.  
Client: Fort Bend Co.  
Contractor: Allgood  
COH WBS No.: \_\_\_\_\_

Project No.: Item 13347  
Report No.: 124.358  
Date: 1/30/17  
Testing Lab: QC Laboratories, Inc  
HC Job No.: \_\_\_\_\_

### TIME RECORD

Time depart office: 8am Time arrive project: 9:15 am Time depart project: 4:30 pm Time arrive office: 5:30 pm  
Lunch begin: 12pm Lunch End: 12:30 pm  
Billable RT hours: 8.0 Billable OT hours: 1.0 Technician Name: Chris Aicklen

### ACTIVITIES

☒ Proctor Sample P/U \_\_\_\_\_ Concrete Sample P/U \_\_\_\_\_ Asphalt Sample P/U  
☐ Field Density Testing \_\_\_\_\_ Concrete Sampling \_\_\_\_\_ Asphalt Testing  
☒ Other (Description) Gradations

### SUMMARY OF FIELD ACTIVITIES

Service techn. arrived on location to perform gradation test for proposed paving sub-grade @ S.B. Lanes(2) of Katy-Gaston Rd. Sta. # 20+70 → Sta. # 25+60 & Sta. # 36+18 → Sta. # 37+88. Techn. found test results of gradation test to be in accordance with Harris County Specs./Requirements. Techn. also picked up two sample of stblzd. material from each proposed paving areas, and returned them to Lab for analysis. Techn. took a few ghost shots, however, moisture is as high as 10%, relative to previous stblzd. sub-grade proctors for project.

Technician Signature: CA

Certification Level & Organization: IVL II Nicet

Inspector Signature: \_\_\_\_\_

Inspector Name (print): \_\_\_\_\_



Client No: 091316 Proj No: 16M13347 Date Sampled: 01/30/2017  
Report Date: 02/03/2017 Sampled By: Aicklen, Christopher  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const  
Location: South Bound Lanes of Katy Gaston Road: Stations 37+88 to 36+18 and Stations 25+60 to 20+70 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Stabilized Soil Gradation

LAB NO: 124358

### TEST RESULTS

Report No: 1-2703-000089

Page 1 of 1

Location: South Bound Lanes of Katy Gaston Road: Stations 37+88 - 36+18 and 25+60 - 20+70

Location	% Passing 1 3/4"	Specifications (%)	% Passing 3/4"	Specifications (%)	% Passing #4	Specifications (%)
Station 36+35, Outside Lane	100	100	100	85	72.8	60
Station 37+55, Inside Lane	100	100	98.2	85	67.4	60
Station 20+90, Outside Lane	100	100	93.9	85	81.9	60
Station 23+30, Outside Lane	100	100	100	85	73.5	60
Station 24+30, Inside Lane	100	100	95.3	85	68.5	60
Station 25+35, Inside Lane	100	100	98.7	85	68.6	60

The above test results meet project specification requirements with the exception of those marked with an asterisk (\*)

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen  
1-ec AECOM Attn: Amanda Loethen  
1-ec AECOM Attn: Huy Ton  
1-ec Allgood Construction Co. Inc.  
Attn: Michael Boenig

QC Laboratories, Inc.

  
Hulugundi Dwarakanath, P.E., Senior Project Engineer

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**LABORATORIES, INC.**  
Geotechnical & Materials Engineers

#DT #90

### PROJECT DAILY ACTIVITY SUMMARY

Project: KATY GASTON Rd.

Project No.: 16M13347

Client: FORT BEND COUNTY

Report No.: 124,409

Contractor: ALLGOOD CONST.

Date: 1-31-17

COH WBS No.: \_\_\_\_\_

Testing Lab: QC Laboratories, Inc

HC Job No.: \_\_\_\_\_

### TIME RECORD

Time depart office: 12:00

Time arrive project: 1:00PM

Time depart project: 4:00PM

Time arrive office: 5:00PM

Lunch begin: X

Lunch End: X

Billable RT hours: 5.0

Billable OT hours: -

Technician Name: MATT KANZIER

### ACTIVITIES

☒ Proctor Sample P/U

☐ Concrete Sample P/U

☐ Asphalt Sample P/U

☒ Field Density Testing

☐ Concrete Sampling

☐ Asphalt Testing

☐ Other (Description) \_\_\_\_\_

### SUMMARY OF FIELD ACTIVITIES

TECH ARRIVED @ SITE ON SCHEDULE. SPOKE TO DOMINGO W/ ALLGOOD CONST. - WAS INFORMED THERE WERE 2 AREAS TO BE TESTED ON KATY GASTON RD. 1 @ STA 29+76 TO 32+16 AND ANOTHER @ STA 25+63 TO 20+61. MATERIAL WAS LIME STABILIZED SUBGRADE. TECH TOOK DENSITY TESTS IN THESE AREAS W/ A TOTAL OF 9 SHOTS. ALL TESTS PASSED MOISTURE + COMPLETION SPECS.

\* TRAINED TOMAS M. IN ALL NUCLEAR GAUGE PROCEDURES

Technician Signature: \_\_\_\_\_

Certification Level & Organization: NICET II

Inspector Signature: \_\_\_\_\_

Inspector Name (print): \_\_\_\_\_

Rosario  
2/2/17



Client No: 091316 Proj No: 16M13347 Date Sampled: 01/31/2017  
Report Date: 02/03/2017 Sampled By: Kanzler, Matthew  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const  
Location: South Bound Lanes of Katy Gaston Road: Stations 29+76 to 32+16 and 22+63 to 20+61 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Field Density Testing

LAB NO: 124409

Test Method: See Below

### TEST RESULTS

Report No: 1-2703-000090

Page 1 of 2

Proctor No	Proctor Date	Optimum Moisture (%)	Maximum Dry Density (pcf)	Color / Description
122617-1	11/08/2016	17.7	103.8	Gray / Lime Stabilized Subgrade

### Specification

Specification No.	Compaction, %	Moisture Band	
		Minimum	Maximum
1	95	0.0	3.0

Material: South Bound of Katy Gaston Road

Test No.	Gauge Depth	Location	Wet Density (pcf)	Moisture Content %	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass/Fail
1	6	Station 29+95 - Inside Lane (Grade)	122.2	19.9	101.9	122617-1	1	98.2	Pass
2	6	Station 31+50 - Outside Lane (Grade)	121.5	20.1	101.2	122617-1	1	97.5	Pass
3	6	Station 32+05 - Inside Lane (Grade)	121.5	20.5	100.8	122617-1	1	97.1	Pass
4	6	Station 25+50 - Outside Lane (Grade)	122.0	20.1	101.6	122617-1	1	97.9	Pass
5	6	Station 24+55 - Inside Lane (Grade)	123.8	19.7	103.4	122617-1	1	99.6	Pass
6	6	Station 23+75 - Outside Lane (Grade)	120.6	20.6	100.0	122617-1	1	96.3	Pass
7	6	Station 22+65 - Inside Lane (Grade)	124.0	18.7	104.5	122617-1	1	100.7	Pass
8	6	Station 21+70 - Outside Lane (Grade)	123.8	20.3	102.9	122617-1	1	99.1	Pass

Orig: Fort Bend County Engineering Department  
(Richmond, TX) Attn: Wesley Crawford  
(1-cc copy)

1-ec AECOM Attn: Clifford Halvorsen

1-ec AECOM Attn: Amanda Loethen

1-ec AECOM Attn: Huy Ton

1-ec Allgood Construction Co. Inc.

Attn: Michael Boenig

Client No: 091316 Proj No: 16M13347 Date Sampled: 01/31/2017  
Report Date: 02/03/2017 Sampled By: Kanzler, Matthew  
Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane, Fort Bend County By Order Of: Domingo w/Allgood Const  
Location: South Bound Lanes of Katy Gaston Road: Stations 29+76 to 32+16 and 22+63 to 20+61 Order Number:

Client: Fort Bend County Engineering Department

REPORT: Report of Field Density Testing

LAB NO: 124409

Test Method: See Below

**TEST RESULTS**

Report No: 1-2703-000090

Page 2 of 2

Material: South Bound of Katy Gaston Road

Test No.	Gauge Depth	Location	Wet Density (pcf)	Moisture Content %	Dry Density (pcf)	Proctor Number	Spec. No.	Percent Proctor Density	Pass Fail
9	6	Station 20+90 - Inside Lane (Grade)	123.4	19.2	103.5	122617-1	1	99.7	Pass

Gauge No.: 38109 Daily Standard Counts: 01/31/2017 DS: 2186 MS: 760  
Test Methods: ASTM D6938

Orig: Fort Bend County Engineering Department  
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(1-cc copy)

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QC Laboratories, Inc.

*H. N. Dwarakanath*

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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## Harris, Britten

---

**From:** Slawinski, Stacy  
**Sent:** Tuesday, February 21, 2017 8:23 AM  
**To:** Harris, Britten  
**Cc:** Peterson, Jillian  
**Subject:** FW: Katy Gaston - QC Lab Invoice #5  
**Attachments:** 16M13347 Jan '17 Invoice - Reviewed.pdf

Please process attached invoice.

Thanks,

**Stacy Slawinski**

[stacy.slawinski@fortbendcountytexas.gov](mailto:stacy.slawinski@fortbendcountytexas.gov)

281-633-7508 office

---

**From:** Ton, Huy [<mailto:Huy.Ton@aecom.com>]  
**Sent:** Monday, February 20, 2017 10:19 PM  
**To:** Slawinski, Stacy  
**Cc:** Accounts Receivables; Halvorsen, Clifford; Loethen, Amanda  
**Subject:** Katy Gaston - QC Lab Invoice #5

Stacy,

Attached file is QC Lab Invoice #5. It has been reviewed, there is no issues.

Thank You!

**Huy Ton, PE**

*Cell: 617-818-8557*

**AECOM**

*19219 Katy Freeway*

*Suite 100*

*Houston, TX 77094, USA*



**Built to deliver a better world**