QC Laboratories, Inc.

10810 Northwest Freeway Houston, TX 77092

Invoice

DATE	INVOICE #
12/31/2016	11-60902

BILL TO

Fort Bend County Engineering Dept. 301 Jackson St., 4th Floor Richmond, TX 77469

		Project #	Terms	Project	F	urch	ase Order
		16M13347	Net 30 Days	Katy Gaston Road	d		
DATE	REPORT#	DESC	RIPTION	QTY	RATE		AMOUNT
***************************************		Katy Gaston Road from Summerset Ridge Lane					***************************************
12/1/2016	79	Technician Vehicle Charge		1.75 1.75		.00	75.25 17.50
12/7/2016	80	Staff/Project Engineer NICET Level II Techni	cian	0.1	149 65	.00.	14.90 455.00
	81	Vehicle Charge Staff/Project Engineer Concrete Cylinder Com C39)	pressive Test (ASTM	7 0.1 4	149	00.00.00.	70.00 14.90 64.00
12/8/2016	82	Technician Vehicle Charge		2.25 2.25		.00	96.75 22.50
		I certify that the amoun correct to the best of my	y knowledge.	/10/19			
				 Total			\$830.80

Phone #

(713) 695-1133

Balance Due

\$830.80

REVIEWED BY HT 01/17/2017



January 6, 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:

\$34,358.20

Current Month Total:

\$830.80

Project Total:

\$35,189.00

88%

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.

10810 Northwest Freeway Houston, Texas 77092

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

qclabs@qclabs.com



Client No:

091316

Proj No: 16M13347

Date Sampled: 11/03/2016

Report Date: 12/29/2016

Previously Reported: 12/01/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane.

By Order Of: Louis w/Allgood Const

Fort Bend County

Location:

Inlets and Manhole Cover / Topping

Order Number:

Number of

Client:

Fort Bend County Engineering Department

Specimens:

122498-1

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO: Test Method:

See Below

86

2.00

3.0

TEST RESULTS

Report No:

1-2703-000057

Page 1 of 2

Sample Location: Inlets and Manhole Cover / Topping

Gal

Specifications:

4000 psi @ 28 days / 4000 psi @ 28 days

MEETS REFERENCE VALUE

Date Sampled:

11/3/16

Source/Sampled At: Allied / On site

Air Temp. (°F):

Measurements Requirements

of Specimens: 6 Time Batched:

Plant: Allied

Concrete Temp. (°F):

Min 40

Time Sampled:

1:20 pm

Description: 6 Sk, 1.5" LS

Slump (in.):

Max 95

2:25 pm

Mix Design: 1421632

Air Content by Vol. (%):

2-4

Water Added: Weather:

Clear

Truck No: 422258 Ticket No: 53457744

Unit Weight (pcf):

3-5

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location: Station 16+50, Inlet NE2

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type o	of	laximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/10/16	7.00	6.00	28.274	5. Type	5	132,040	4,670		
В	11/10/16	7.00	6.00	28.274	5. Type	5	138,910	4,910	4,790	
C	12/1/16	28.00	6.00	28.274	3. Type	3	158,750	5,610		
D	12/1/16	28.00	6.00	28.274	Type	3	162,340	5,740	5,680	
E	12/29/16	56.00	6.00	28.274	2. Type	2	168,990	5,980		
F	12/29/16	56.00	6.00	28.274	5. Type	5	188,760	6,680	6,330	
					国图					
			Type 1	Typ	e 2 Typ	е 3 Туре	4 Type	5 Type 6		

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: 11/03/2016

Report Date: 12/29/2016

Previously Reported: 12/01/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Louis w/Allgood Const

Fort Bend County

Location:

Inlets and Manhole Cover / Topping

Order Number:

Number of

Client:

REPORT:

Fort Bend County Engineering Department

Specimens: LAB NO:

122498-1

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000057

Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bagsfinal

cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80*F, and Min.= 60*F. **Test Method:** Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143.

C231(except 6) or C173, C1064, C1231,

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.

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: 11/09/2016

Report Date: 12/07/2016

Previously Reported: 11/15/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Client:

Curbs at North Bound and South Bound Katy Gaston Road (New)

from Station 11+50 to 27+71

Order Number:

Number of

Fort Bend County Engineering Department

Specimens:

122664-1

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST REPORT:

LAB NO: Test Method:

See Below

Report No:

1-2703-000064

78

1.50

4.5

Page 1 of 2

Sample Location: Curbs at North Bound and South Bound Katy Gaston Road MEETS REFERENCE VALUE

Specifications: Date Sampled:

3500 psi @ 28 days / 3500 psi @ 28 days

11/9/16

Source/Sampled At: Allied / On site

TEST RESULTS

Measurements Requirements 67

of Specimens: 4

Plant: Allied

Air Temp. (°F):

Min 40

Time Batched:

8:34 am

Description: 5.5 Sack

Concrete Temp. (°F):

Max 95

3-6

Time Sampled:

9:05 am

Gal

Mix Design: 22135561

Slump (in.): Air Content by Vol. (%): 1-5

Water Added: Weather:

20 Cloudy

Truck No: 518 Ticket No: 7078399

Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 20 cu. yds. placed of a 40 cu. yd. total placement

Placement Location: South Bound Outside Lane Side, Station 13+00

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/16/16	7.00	6.00	28.274	5. Type 5	62,900	2,220		
В	11/16/16	7.00	6.00	28.274	5. Type 5	70,670	2,500	2,360	
С	12/7/16	28.00	6.00	28.274	5. Type 5	102,770	3,630		
D	12/7/16	28.00	6.00	28.274	5. Type 5	99,930	3,530	3,580	
			Type 1	Y III	e 2 Type 3	Type 4 Type	5 Type 6		

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.



Client No:

091316

Proj No: 16M13347

Date Sampled: 11/09/2016

Report Date: 12/07/2016

Previously Reported: 11/15/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Location:

Fort Bend County

Curbs at North Bound and South Bound Katy Gaston Road (New) from Station 11+50 to 27+71

Order Number:

Client:

Number of Specimens:

REPORT:

Fort Bend County Engineering Department

LAB NO:

122664-1

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000064

Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bagsfinal

cure method will be within our approved moisture room. Initial Cure Temperatures, Max = 80*F, and Min. = 60*F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department (Richmond, TX) Attn: Wesley Crawford

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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



Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane.

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method:

See Below

6.00

3.5

TEST RESULTS

Report No:

1-2703-000069

Page 1 of 8

Set: 1 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications:

3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled:

11/11/16 Source/Sampled At: Allied / On site

Measurements Requirements

of Specimens: 6

Plant: Allied

Air Temp. (°F):

61 Min 40 70

Time Batched:

3:17 am

Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F):

Max 95

Time Sampled:

3:45 am

Mix Design: 22135506 Truck No: 377

Slump (in.): Air Content by Vol. (%): 1-6

Water Added: Weather:

Cloudy

Ticket No: 4501949

Unit Weight (pcf):

2.50-4.50

Quantity Represented: 10 cu. yds. at 30 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 29+60, Outside Lane

TEST RESULTS

CYL	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/18/16	7.00	6.00	28.274	5. Type 5	98,040	3,470		
В	11/18/16	7.00	6.00	28.274	5. Type 5	98,680	3,490	3,480	
С	12/9/16	28.00	6.00	28.274	5. Type 5	119,400	4,220		
D	12/9/16	28.00	6.00	28.274	5. Type 5	116,930	4,140	4,180	
E	1/6/17	56.00	6.00	28.274					

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.



Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000069

Page 2 of 8

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximi Load (lbs)	d St	npressive trength (PSI)	Average Strength (PSI)	Comments
F	1/6/17	56.00	6.00	28.274						
			Type 1		e 2 Type 3	Type 4	Type 5	Type 6		

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bags,

final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80*F, and Min.= 60*F. **Test Method:** Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

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Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000069

Page 3 of 8

Set: 2 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications:

3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled:

Source/Sampled At: Allied / On site 11/11/16

Air Temp. (°F):

Measurements Requirements

of Specimens: 6

Plant: Allied

Concrete Temp. (°F):

Min 40

Time Batched: Time Sampled: 3:51 am Description: 5.5 Sk, Paving Mix

Slump (in.):

Max 95

Water Added:

4:20 am Gal 10

Mix Design: 22135506 Truck No: 446

Air Content by Vol. (%):

1-6

2.50-4.50

Weather:

Cloudy

Ticket No: 4501965

Unit Weight (pcf):

3.5

68

69

6.00

Quantity Represented: 10 cu. yds. at 170 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 25+75, Inside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (In)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/18/16	7.00	6.00	28.274	5. Type 5	100,300	3,550		
В	11/18/16	7.00	6.00	28.274	5. Type 5	98,940	3,500	3,520	
С	12/9/16	28.00	6.00	28.274	Type 5	122,280	4,320		
D	12/9/16	28.00	6.00	28.274	2. Type 2	117,800	4,170	4,250	
E	1/6/17	56.00	6.00	28.274	2.0				

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

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Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of:

Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method:

See Below

TEST RESULTS

Maximum

Load

(lbs)

Report No:

1-2703-000069

Comments

Page 4 of 8

(PSI)

TEST RESULTS

Compressive Strength

Average Strength (PSI)

CYL ID F

Test Date (days) 1/6/17 56.00

Test

Age

Diameter Area (in) (in²) 6.00

Type 1

28.274

Type 2

Type of

Break

Type 3 Type 4

Type 5 Type 6

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bags,

final cure method will be within our approved moisture room. Initial Cure Temperatures, Max. = 80*F, and Min. = 60*F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

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.



Client No: 091316 Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016 Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project: Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location: Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO: 122736-1

Test Method: See Below

TEST RESULTS

Report No:

1-2703-000069

Page 5 of 8

Set: 3 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications: 3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled: 11/11/16 Source/Sampled At: Allied / On site Measurements Requirements Air Temp. (°F): # of Specimens: 6 Plant: Allied 65 Min 40 Time Batched: 4:50 am Description: 5.5 Sk, Paving Mix Concrete Temp. (°F): 72 Max 95 Time Sampled: 5:30 am Mix Design: 22135506 5.50 Slump (in.): 1-6 Water Added: Truck No: 446 10 Gal Air Content by Vol. (%): 3.75 2.50-4.50

Weather: Cloudy Ticket No: 4501973 Unit Weight (pcf):

Quantity Represented: 10 cu. yds. at 320 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 20+85, Outside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/18/16	7.00	6.00	28.274	5. Type 5	105,530	3,730		
В	11/18/16	7.00	6.00	28.274	5. Type 5	105,430	3,730	3,730	
C	12/9/16	28.00	6.00	28.274	2. Type 2	132,800	4,700		
D	12/9/16	28.00	6.00	28.274	5. Type 5	129,440	4,580	4,640	
E	1/6/17	56.00	6.00	28.274	•				

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.



Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location: `

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

Diameter

(in)

6.00

REPORT: REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Test

Age

LAB NO:

122736-1

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000069

Page 6 of 8

TEST RESULTS

Maximum

Load

(lbs)

Compressive Strength

(PSI)

Average Strength

(PSI) Comments

Test Date ID (days) F 1/6/17 56.00

28.274 Type 1 Type 2

Area

(in²)

Type of

Break

Type 3 Type 4

Type 5 Type 6

CYL

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80*F, and Min.= 60*F. Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

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

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Client No:

091316

Proj No: 16M13347

Date Sampled: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method:

See Below

65

TEST RESULTS

Report No:

1-2703-000069

Page 7 of 8

Set: 4 of 4

Sample Location: Paving at South Bound and North Bound Lanes

MEETS REFERENCE VALUE

Specifications:

3000 psi @ 28 days / 3000 psi @ 28 days

Date Sampled:

11/11/16

Source/Sampled At: Allied / On site

Air Temp. (°F):

Measurements Requirements

of Specimens: 6 Time Batched:

7:00 am

Plant: Allied Description: 5.5 Sk, Paving Mix

Concrete Temp. (°F):

Min 40

Time Sampled:

7:45 am

Mix Design: 22135506

Slump (in.):

71 Max 95

Water Added:

10 Gal Truck No: 456

Air Content by Vol. (%):

6.00 1-6 4.0

Weather:

Cloudy

Ticket No: 4502001

Unit Weight (pcf):

2.50-4.50

Quantity Represented: 10 cu. yds. at 470 cu. yds. placed of a 523 cu. yd. total placement

Placement Location: Station 17+50, Inside Lane

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (lbs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	11/18/16	7.00	6.00	28.274	5. Type 5	105,210	3,720		
В	11/18/16	7.00	6.00	28.274	5. Type 5	101,600	3,590	3,660	
C	12/9/16	28.00	6.00	28.274	2. Type 2	139,990	4,950		
D	12/9/16	28.00	6.00	28.274	3. Type 3	132,450	4,680	4,820	
F	1/6/17	56.00	6.00	28 274	4				

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

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: 11/11/2016

Report Date: 12/09/2016

Previously Reported: 11/16/2016

Sampled By: Aicklen, Christopher

Project: I

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving at South Bound and North Bound Lanes

Order Number:

Client:

Fort Bend County Engineering Department

REPORT: REPORT OF

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO:

122736-1

Test Method: See Below

TEST RESULTS

Report No:

1-2703-000069

Page 8 of 8

TEST RESULTS

CYL ID	Test Date	Test Age (days) 56.00	Diameter (in) 6.00	Area (in²) 28.274	Type of Break	Maximu Load (Ibs)	1 5	mpressive Strength (PSI)	Average Strength (PSI)	Comments
r	1/0/17	30.00	0.00	20.214						
			Type 1	Type	2 Type 3	Type 4	Type 5	Type 6		

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Speciments will be cured utilizing plastic bags, final cure method will be within our approved moisture room. Initial Cure Temperatures, Max.= 80*F, and Min.= 60*F.

Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

Orig: Fort Bend County Engineering Department (Richmond, TX) Attn: Wesley Crawford

(1-cc copy)

(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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10810 Northwest Freeway Houston, TX 77092-7304 Tel: 713-695-1133

TBPE Firm No. F-3601

Client No:

091316

Proj No: 16M13347

Date Sampled: 11/30/2016

Report Date: 12/29/2016

Previously Reported: 12/05/2016

Sampled By: Allensworth, Allen

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Paving, Driveways & Sidewalks

Order Number:

Number of

6

Client:

Fort Bend County Engineering Department

Specimens:

123122-1

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

LAB NO: Test Method:

See Below

70

6.50

TEST RESULTS

Report No:

Page 1 of 2

Sample Location: Paving, Driveways & Sidewalks

3500 psi @ 28 days / 3500 psi @ 28 days

1-2703-000078

Specifications:

Gal

MEETS REFERENCE VALUE

Measurements Requirements

Date Sampled: # of Specimens: 6

11/30/16

Source/Sampled At: Allied / Onsite

Air Temp. (°F):

Min. 40

Time Batched:

12:25 am

Plant: Allied

Concrete Temp. (°F):

Max. 95

Time Sampled:

1:00 pm

Description: 5.5 sacks Mix Design: 22135506

Slump (in.):

1-6

Water Added:

15

Truck No: 400

Air Content by Vol. (%):

2.5-4.5

Weather:

Sunny, Cool Ticket No: 4503135 Unit Weight (pcf):

5.0

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location: Katy Gaston Road Station 16+00, 4' North of Centerline of Driveway

TEST RESULTS

CYL ID	Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Maximum Load (Ibs)	Compressive Strength (PSI)	Average Strength (PSI)	Comments
Α	12/7/16	7.00	6.00	28.274	5. Type 5	80,070	2,830		
В	12/7/16	7.00	6.00	28.274	5. Type 5	82,890	2,930	2,880	
C	12/28/16	28.00	6.00	28.274	2. Type 2	100,440	3,550		
D	12/28/16	28.00	6.00	28.274	5. Type 5	108,720	3,850	3,700	
E	1/25/17	56.00	6.00	28.274					
F	1/25/17	56.00	6.00	28.274					
				71 100		KI PIL			

Type 3 Type 4

Type 5

Type 6

Orig: Fort Bend County Engineering Department

(1-cc copy)

(Richmond, TX) Attn: Wesley Crawford

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

Proi No: 16M13347

Date Sampled: 11/30/2016

Report Date: 12/29/2016

Previously Reported: 12/05/2016

Sampled By: Allensworth, Allen

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of:

Domingo w/Allgood Const

Location:

Fort Bend County Paving, Driveways & Sidewalks

Order Number:

Number of

Client:

Specimens:

REPORT:

Fort Bend County Engineering Department

LAB NO:

123122-1

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000078

Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags; final

curing method will be within our approved moisture room. Initial Cure Temperature, Max. = 64°F and Min. = 33°F. Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143,

C231(except 6) or C173, C1064, C1231.

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.

PROJECT DAILY ACTIVITY SUMMARY

Project: Katy Galson Rel	from word Park	Project No.:	164 13	847
Dr to summer Ridge	Lare		123 123	
Client: Fort Benel County	Enal Jan Dept	****	12/1	7,
Contractor: All Road Con structor	U h	•		ratories, Inc
COH WBS No.:	The state of the s			
		HC Job No.:		
1	TIME RECORD	-1M-16		
Time depart office: /2/0 Time arrive project: //d	Time depart project:	1251	lme arrive office:	1.45
Lunch End:				
	Technician Name:		n	
	Toomiojan Name, 2	23 7 175	Marth	- 2
				4.7
	ACTIVITIES			
Proctor Sample P/U	Concrete Sample P/U			Asphalt Sample P/U
Field Density Testing	Concrete Sampling			Asphalt Testing
Other (Description)			***************************************	apriair resting
CIIRAR	ADVOCATION		4	
Teel	ARY OF FIELD ACTIVITIES		,	,
Teel arrayest to proj	ed tech pick	eel up cy	Hindres !	sodoph.
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» Л				
chnician Signature: Show Ly		ages.	J	
100 100	Certification Level & 0	Organization:	on-certif	iel.
				7
spector Signature:	Inspector N	lame (print):		
10810 Northwest Freeway - Houston, Texas 7	7092 Tel.: (713) 695-1133 - Fay: (713) 6	05 0000		



Client No:

091316

Proj No: 16M13347

Date Sampled: 12/01/2016

Report Date: 12/05/2016

Sampled By:

Martinez, Thomas

Project: Katy C

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of:

Domingo w/Allgood Const

Location:

Fort Bend County
Paving, Driveways & Sidewalks

Order Number:

Client:

Fort Bend County Engineering Department

LAB NO:

123123

REPORT:

Report of Concrete Sample Pickup

TEST RESULTS

Report No:

1-2703-000079

Page 1 of 1

On 12/01/2016, a representative of QC Laboratories, Inc. was at the above referenced project to pick up 1 set of 6 cylinders which were cast on 11/30/2016. The samples were returned to the laboratory for curing and testing.

Compressive strength test results on the cylinders will be reported separately.

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





PROJECT DAILY ACTIVITY SUMMARY	4
Project: Katy - Conston Rd. Project No.: 13347	7.5°
Report No.: 123 269	
Client: 10.1 074.0 (0)	花
Contractor: 1911,000d Testing Lab: QC Laborator	ies Inc
COH WBS No.: HC Job No.:	
TIME RECORD	7 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Time depart office: 6:30 am Time arrive project: 7:30 am Time depart project: 12 pm Time arrive office: 1	3 6
Lunch begin: Lunch End:	Pin
Billable RT hours: Technician Name: Aris Aidum	
Technician Name: Usris Miclaum	
	110000000000000000000000000000000000000
Proctor Sample P/U	
Field Descity Testler	Sample P/U
Concrete Sampling Asphalt	Testing
Other (Description)	- 10 Ref
SUMMARY OF FIELD ACTIVITIES	
of Curbs and while in Contion to perform Conc. testing / Sing	12
of Curbs and whieldhar range & downways. Technic much on	16000
of four cylinders. Test results are in accordance w/ prodict	csct
of product	SAECS.
	
	.3
	100 200
	70
$A \cdot A \cdot$	4-1
echnician Signature: Certification Level & Organization: III Dice t	
Inspector Name (print): Roberto Do	Driego
10810 Northwest Freeway - Houston, Texas 77092 Tel.: (713) 695-1133 - Fax: (713) 695-0808 www.qclabs.com Form F102 Delity Activity Summary 12/3/16	<u></u>



Client No:

091316

Proj No: 16M13347

Date Sampled: 12/07/2016

Report Date: 12/08/2016

.

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of:

Domingo w/Allgood Const

Location:

Pedestrian Ramps and Curbs

Fort Bend County

Order Number:

Client:

Fort Bend County Engineering Department

REPORT:

Report of Field Inspection of Concrete

LAB NO:

123269

TEST RESULTS

Report No:

1-2703-000080

Page 1 of 1

On 12/07/2016, a representative of QC Laboratories, Inc. was at the above referenced project in order to perform a field inspection of concrete. The area where the concrete was placed can be described as Pedestrian Ramps and Curbs.

A total of 10 cubic yards of concrete was placed while the technician was on-site. The concrete delivered was a 5.5 sacks mix, design no. 22135561, supplied by Allied. 1 set of 4 cylinders were cast for this placement.

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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10810 Northwest Freeway Houston, TX 77092-7304 Tel: 713-695-1133

TBPE Firm No. F-3601

Client No: 091316

Proj No: 16M13347

Date Sampled: 12/07/2016

Report Date: 01/05/2017

Previously Reported: 12/13/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Curb at South Bound Median, Station 20+50

Order Number:

Number of

Client:

Fort Bend County Engineering Department

REPORT:

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Specimens:

LAB NO: 123269-1

Test Method:

See Below

TEST RESULTS

Report No:

1-2703-000081

Page 1 of 2

Sample Location: Curb at South Bound Median, Station 20+50

FAILS TO MEET REFERENCE VALUE

Specifications:

3500 psi @ 28 days / 3500 psi @ 28 days

Date Sampled:

Measurements Requirements 53

72

3.50

4.5

of Specimens: 4

12/7/16

Source/Sampled At: Allied / Onsite Plant: Allied

Air Temp. (°F):

Min 40

Time Batched:

8:00 am

Description: 5.5 sacks

Concrete Temp. (°F): Slump (in.): Max 95

Time Sampled: Water Added:

8:55 am Gal Mix Design: 22135561 Truck No: 526

Air Content by Vol. (%):

1-6

Weather:

5 Cloudy

Ticket No: n/a

Unit Weight (pcf):

2.5-4.5

Quantity Represented: 10 cu. yds. at 10 cu. yds. placed of a 10 cu. yd. total placement

Placement Location:

Pedestrian Ramps and Curbs at Stations 14+86 & 16+00, North Bound Curbs: on Median Side; Stations 17+95 - 19+50 and Outside Lane; Stations 17+95 to 18+70, and South Bound Curbs: on Median Side:

Stations 19+00 to 20+80

TEST RESULTS

Test Date	Test Age (days)	Diameter (in)	Area (in²)	Type of Break	Loa	ad		Average Strength (PSI)	Comments
12/14/16	7.00	6.00	28.274	5. Type 5	60,6	00	2,140		
12/14/16	7.00	6.00	28.274	5. Type 5	69,1	90	2,450	2,300	
1/4/17	28.00	6.00	28.274	2. Type 2	72,5	50	2,570		
1/4/17	28.00	6.00	28.274	2. Type 2	81,3	40	2,880	2,720	
	12/14/16 12/14/16 1/4/17	Age Test Date (days) 12/14/16 7.00 12/14/16 7.00 1/4/17 28.00	Age Diameter (in) 12/14/16 7.00 6.00 12/14/16 7.00 6.00 1/4/17 28.00 6.00	Age Test Date Age (days) Diameter (in) Area (in²) 12/14/16 7.00 6.00 28.274 12/14/16 7.00 6.00 28.274 1/4/17 28.00 6.00 28.274 1/4/17 28.00 6.00 28.274	Age Test Date Diameter (in) Area (in²) Type of Break 12/14/16 7.00 6.00 28.274 5. Type 5 12/14/16 7.00 6.00 28.274 5. Type 5 1/4/17 28.00 6.00 28.274 2. Type 2 1/4/17 28.00 6.00 28.274 2. Type 2	Age Diameter (in) Area (in²) Type of Break Load (ibstance) 12/14/16 7.00 6.00 28.274 5. Type 5 60,6 12/14/16 7.00 6.00 28.274 5. Type 5 69,1 1/4/17 28.00 6.00 28.274 2. Type 2 72,5 1/4/17 28.00 6.00 28.274 2. Type 2 81,3	Age Test Date (days) Diameter (in) Area (in²) Type of Break (lbs) Load (lbs) 12/14/16 7.00 6.00 28.274 5. Type 5 60,600 12/14/16 7.00 6.00 28.274 5. Type 5 69,190 1/4/17 28.00 6.00 28.274 2. Type 2 72,550 1/4/17 28.00 6.00 28.274 2. Type 2 81,340	Age Test Date (days) Diameter (in) Area (in²) Type of Break Load (lbs) Strength (PSI) 12/14/16 7.00 6.00 28.274 5. Type 5 60,600 2,140 12/14/16 7.00 6.00 28.274 5. Type 5 69,190 2,450 1/4/17 28.00 6.00 28.274 2. Type 2 72,550 2,570 1/4/17 28.00 6.00 28.274 2. Type 2 81,340 2,880	Age Test Date (days) Diameter (in) Area (in²) Type of Break Load (lbs) Strength (PSI) Strength (PSI) 12/14/16 7.00 6.00 28.274 5. Type 5 60,600 2,140 12/14/16 7.00 6.00 28.274 5. Type 5 69,190 2,450 2,300 1/4/17 28.00 6.00 28.274 2. Type 2 72,550 2,570 1/4/17 28.00 6.00 28.274 2. Type 2 81,340 2,880 2,720

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: 12/07/2016

Report Date: 01/05/2017

Previously Reported: 12/13/2016

Sampled By: Aicklen, Christopher

Project:

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of: Domingo w/Allgood Const

Fort Bend County

Location:

Curb at South Bound Median, Station 20+50

Order Number:

Number of

Client:

Fort Bend County Engineering Department

Specimens:

REPORT:

LAB NO:

123269-1

REPORT OF CONCRETE COMPRESSIVE STRENGTH TEST

Test Method: See Below

TEST RESULTS

Report No:

1-2703-000081

Page 2 of 2

Remarks: As per ASTM C31, initial curing will be by the Standard Curing Method. Specimens will be cured utilizing plastic bags,

final cure method will be within our approved moisture room. Initial Cure Temperatures, Max. = 57° F, and Min. = 46° F. Test Method: Unless noted, concrete was sampled and tested in accordance with ASTM C31, C39, C172, C143, C231 or

C173, C1064, C1231.

QC Laboratories, Inc.

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

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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PROJECT DAILY ACTIVITY SUMMARY

Project: Lasty Gaston Rd. From Wattark Dr. Project No .: 16 M	13347
to summerset Ridge La. Fort Bend County Report No.: 123,	270
Client: Fort Bend County Eng. Deat. Date: 12-8-	
Testing Lab: QC Labo	
COH WBS No.: HC Job No.:	
TIME RECORD	7
Time depart office: 12:45 m. Time arrive project: 1:45 m. Time depart project: 2:00 pm. Time arrive office	2:00.
LUCCO Frod	Sugar
Billable RT hours: 2.25 Billable OT hours: Technician Name: Sean Slacke	
Tournolan realis. Sean Stace	7.
ACTIVITIES	74.
Process Council City	
Field Density Testing Concrete Sample P/U Field Density Testing	Asphalt Sample P/U
Other (Description) Concrete Sampling	Asphalt Testing
	<u>*</u>
CUBARADY OF WITH	
SUMMARY OF FIELD ACTIVITIES	
	- 1
	3.1
0.10	
Picked up 1 set of 4 cylinder	5
	Ž.
	1.
	-
	1.5
	7
achnician Signature:	7
Certification Level & Organization:	生中
spector Signature:	
Inspector Name (print):	



Client No:

091316

Proj No: 16M13347

Date Sampled: 12/08/2016

Report Date: 12/12/2016

Sampled By: Slade, Sean

Katy Gaston Road from Westpark Dr. to Summerset Ridge Lane,

By Order Of:

Domingo w/Allgood Const

Project:

Fort Bend County

Location:

Pedestrian Ramps and Curbs

Report of Concrete Sample Pickup

Order Number:

Client: REPORT: Fort Bend County Engineering Department

LAB NO:

123270

TEST RESULTS

Report No:

1-2703-000082

Page 1 of 1

On 12/08/2016, a representative of QC Laboratories, Inc. was at the above referenced project to pick up 1 set of 4 cylinders which were cast on 12/07/2016. The samples were returned to the laboratory for curing and testing.

Compressive strength test results on the cylinders will be reported separately.

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

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Attn: Michael Boenig

QC Laboratories, Inc.

Hulugundi Dwarakanath, P.E., Senior Project Engineer

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