



Construction Materials Testing
Concrete Testing
Jungman Tract Unit 2
San Antonio, Texas

InTEC Project No. S222144-5
September 12, 2023

Starlight Homes of Texas, LLC
17319 San Pedro Avenue, Suite 140
San Antonio, Texas 78232



Integrated Testing and Engineering Company of San Antonio, L.P.
Geotechnical & Environmental Engineering • Construction Services • Geologic Assessment

September 12, 2023

Starlight Homes of Texas, LLC
17319 San Pedro Avenue, Suite 140
San Antonio, Texas 78232

Attention: Mr. Blake Harrington

Re: Concrete Tests
Jungman Tract Unit 2
San Antonio, Texas

InTEC Project #: S222144-5

Gentlemen:

Integrated Testing and Engineering Company of San Antonio, L.P. (InTEC) performed concrete field and compressive strength tests at the above referenced project site between October 3, 2022 and May 16, 2023.

Field concrete tests were performed on an "on call" basis by the contractor. Full time observation of concrete placement was not performed. Concrete field and compressive strength test results for the above referenced project are presented for your review.

We appreciate and wish to thank you for the opportunity to be of service to you on this project. If we can be of additional assistance, or if you have any questions, please call us.

Sincerely,

InTEC of San Antonio

Murali Subramaniam, Ph. D., P.E.
Vice President



09/12/2023



Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/12/2023

Sample: 19836

InTEC of San Antonio

12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Client:

Starlight Homes of Texas, L.L.C.
17319 San Pedro Avenue, Suite 140
San Antonio, TX 78232

Project:

S222144
Jungman Tract Unit 2
29.368472246087176, -98.78962756631567
San Antonio, TX

Sample Details

Set #:	1	Technician:	Castellanos, Arturo	Batched:	09:20 CDT
Specimen Size:	6" X 12"	Cast By:	Castellanos, Arturo	Sampled:	10:45 CDT
Specimens In Set:	4	Date Cast:	10/03/22	Cast:	10:55 CDT
Truck / Ticket #:	617 / 20152814	Sampled From:	Chute	Truck Empty:	11:20 CDT
Contractor:	VK KNOWLTON	Placement Method:	Chute	Placement Time:	120 (min)

Location

Placement Location:	Drain - Footing
Location Details:	DRAIN 6A AND DRAIN 8A
Sample Location / Notes:	Sidewalk Box Footing. STA 2+41.56 STA 2+25.56

Batch Log

Supplier:	Vulcan Materials
On-Site Admixtures:	None

Specifications

Strength:	3000 (psi)
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Field Measurements

Weather:	Morning	Slump (in):	6 (ASTM C143)	Plastic Unit Weight:	
Air Temperature (F):	84	Concrete Temp (F):	80 (ASTM C1064)	Air Content:	
				Load Volume:	10.00 (yd ³)

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
1-1	7	10/10/22	1 / 6	6.00	28.27	85,000	3,010	2		U
1-2	7	10/10/22	1 / 6	6.00	28.27	93,750	3,320	5		U
1-3	28	10/31/22	1 / 27	6.00	28.27	110,000	3,890	2		U
1-4	28	10/31/22	1 / 27	6.00	28.27	133,000	4,710	5		U

Test Age Average Strengths (psi): 7 Day - 3160, 28 Day - 4300

Capping Methods

Tested By: Alex Martinez (1,2,3,4)	U: Unbonded Caps (ASTM C1231)
Checked In : 10/04/2022 (1,2,3,4)	



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

Testing performed when called in by contractor.

Test results apply only to the specific locations and materials noted and may not represent any other locations or elevations.

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Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/12/2023

Sample: 21439

InTEC of San Antonio

12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Client:

Starlight Homes of Texas, L.L.C.
17319 San Pedro Avenue, Suite 140
San Antonio, TX 78232

Project:

S222144
Jungman Tract Unit 2
29.368472246087176, -98.78962756631567
San Antonio, TX

Sample Details

Set #:	2	Technician:	Olson, James	Batched:	11:20 CST
Specimen Size:	6" X 12"	Cast By:	Olson, James	Sampled:	11:45 CST
Specimens In Set:	4	Date Cast:	01/27/23	Cast:	11:50 CST
Truck / Ticket #:	653 / 20173665	Sampled From:	Chute	Truck Empty:	12:10 CST
Contractor:	V.K.Knowlton	Placement Method:	Chute	Placement Time:	50 (min)

Location

Placement Location:	Drain - Footing
Location Details:	Drain C3
Sample Location / Notes:	STA 1+07.00 to 1+48.54

Batch Log

Supplier:	Vulcan Materials	Strength:	3000 (psi)
On-Site Admixtures:	None		

Specifications

Field Measurements

Weather:	Cloudy	Slump (in):	4-1/2 (ASTM C143)	Plastic Unit Weight:	
Air Temperature (F):	46	Concrete Temp (F):	75 (ASTM C1064)	Air Content:	
				Load Volume:	8.50 (yd ³)

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
2-1	7	02/03/23	3 / 4	6.00	28.27	95,000	3,360	5		U
2-2	7	02/03/23	3 / 4	6.00	28.27	80,000	2,830	5		U
2-3	28	02/24/23	3 / 25	6.00	28.27	123,000	4,350	5		U
2-4	28	02/24/23	3 / 25	6.00	28.27	110,000	3,890	5		U

Test Age Average Strengths (psi): 7 Day - 3100, 28 Day - 4120

Capping Methods

Tested By: Alex Martinez (1,2,3,4)	U: Unbonded Caps (ASTM C1231)
Checked In : 01/30/2023 (1,2,3,4)	



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

Testing performed when called in by contractor.

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Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/12/2023

Sample: 22123

InTEC of San Antonio

12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Client:

Starlight Homes of Texas, L.L.C.
17319 San Pedro Avenue, Suite 140
San Antonio, TX 78232

Project:

S222144
Jungman Tract Unit 2
29.368472246087176, -98.78962756631567
San Antonio, TX

Sample Details

Set #:	3	Technician:	Foley, Ryan	Batched:	10:30 CDT
Specimen Size:	6" X 12"	Cast By:	Foley, Ryan	Sampled:	10:50 CDT
Specimens In Set:	4	Date Cast:	03/28/23	Cast:	10:55 CDT
Truck / Ticket #:	667 / 20185281	Sampled From:	Chute	Truck Empty:	11:40 CDT
Contractor:		Placement Method:	Chute	Placement Time:	70 (min)

Location

Placement Location: Drain - Rip Rap
 Location Details: Drain C3 Rip Rap STA 1+00 to 1+48
 Drain C8 Rip Rap STA 0+79 to 1+24
 Sample Location / Notes: Rip rap

Batch Log

Supplier: Vulcan Materials
 On-Site Admixtures: None

Specifications

Strength: 3000 (psi)

Field Measurements

Weather: Slump (in): 2-1/2 (ASTM C143) Plastic Unit Weight:
 Air Temperature (F): Concrete Temp (F): 79 (ASTM C1064) Air Content:
 Load Volume: 10.00 (yd³)

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
3-1	7	04/04/23	1 / 6	6.00	28.27	73,500	2,600	5		U
3-2	7	04/04/23	1 / 6	6.00	28.27	70,000	2,480	5		U
3-3	28	04/25/23	1 / 27	6.00	28.27	105,000	3,710	2		U
3-4	28	04/25/23	1 / 27	6.00	28.27	113,500	4,020	5		U

Test Age Average Strengths (psi): 7 Day - 2540, 28 Day - 3870

Capping Methods

Tested By: Alex Martinez (1,2,3,4)

Checked In : 03/29/2023 (1,2,3,4)

U: Unbonded Caps (ASTM C1231)



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6



Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/12/2023

Sample: 22245

InTEC of San Antonio

12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Client:

Starlight Homes of Texas, L.L.C.
17319 San Pedro Avenue, Suite 140
San Antonio, TX 78232

Project:

S222144
Jungman Tract Unit 2
29.368472246087176, -98.78962756631567
San Antonio, TX

Sample Details

Set #:	4	Technician:	Castellanos, Arturo	Batched:	11:05 CDT
Specimen Size:	6" X 12"	Cast By:	Castellanos, Arturo	Sampled:	11:55 CDT
Specimens In Set:	4	Date Cast:	04/05/23	Cast:	12:05 CDT
Truck / Ticket #:	642 / 1966	Sampled From:	Chute	Truck Empty:	12:15 CDT
Contractor:	VK KNOWLTON	Placement Method:	Conveyor	Placement Time:	70 (min)

Location

Placement Location:	Drain - Walls
Location Details:	DRAIN "E" HEADWALLS. STA8+34.50 STA8+47.00
Sample Location / Notes:	Drain"E"

Batch Log

Supplier:	Vulcan Materials
On-Site Admixtures:	None

Specifications

Strength:	3600 (psi)
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Field Measurements

Weather:	Cloudy	Slump (in):	3-1/2 (ASTM C143)	Plastic Unit Weight:	
Air Temperature (F):	62	Concrete Temp (F):	67 (ASTM C1064)	Air Content:	
				Load Volume:	10.00 (yd ³)

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
4-1	7	04/12/23	5 / 2	6.00	28.27	158,000	5,590	5		U
4-2	7	04/12/23	5 / 2	6.00	28.27	160,000	5,660	5		U
4-3	28	05/03/23	5 / 23	6.00	28.27	180,000	6,370	2		U
4-4	28	05/03/23	5 / 23	6.00	28.27	190,000	6,720	2		U

Test Age Average Strengths (psi): 7 Day - 5630, 28 Day - 6540

Capping Methods

Tested By: Alex Martinez (1,2,3,4)	U: Unbonded Caps (ASTM C1231)
Checked In : 04/10/2023 (1,2,3,4)	



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6

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Compressive Strength of Concrete

Test Method: ASTM C 39

Report Date: 09/12/2023

Sample: 22339

InTEC of San Antonio

12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Client:

Starlight Homes of Texas, L.L.C.
17319 San Pedro Avenue, Suite 140
San Antonio, TX 78232

Project:

S222144
Jungman Tract Unit 2
29.368472246087176, -98.78962756631567
San Antonio, TX

Sample Details

Set #:	5	Technician:	Martinez, Juan	Batched:	09:56 CDT
Specimen Size:	6" X 12"	Cast By:	Martinez, Juan	Sampled:	10:35 CDT
Specimens In Set:	4	Date Cast:	04/17/23	Cast:	10:40 CDT
Truck / Ticket #:	676 / 3830	Sampled From:	Chute	Truck Empty:	
Contractor:	V.K.Knowlton	Placement Method:		Placement Time:	

Location

Placement Location:	Drain - Top Deck
Location Details:	Drain C Top Deck STA 4+29
Sample Location / Notes:	DrIn C Top Deck STA 4+29

Batch Log

Supplier:	Vulcan Materials
On-Site Admixtures:	None

Specifications

Strength:	3000 (psi)
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Field Measurements

Weather:	Clear	Slump (in):	5-1/2 (ASTM C143)	Plastic Unit Weight:	
Air Temperature (F):	69	Concrete Temp (F):	70 (ASTM C1064)	Air Content:	
				Load Volume:	10.00 (yd ³)

Lab Test Results

Specimen Number	Test Age Days	Test Date	Field / Lab Cure Days	Average Cylinder Diameter (in)	Cylinder Area (in ²)	Max Load (lbs)	Strength (psi)	Fracture Type	Break Remark	Capping Method
5-1	7	04/24/23	1 / 6	6.00	28.27	70,000	2,480	2		U
5-2	7	04/24/23	1 / 6	6.00	28.27	74,000	2,620	5		U
5-3	29	05/16/23	1 / 28	6.00	28.27	94,000	3,330	5		U
5-4	29	05/16/23	1 / 28	6.00	28.27	98,000	3,470	2		U

Test Age Average Strengths (psi): 7 Day - 2550, 29 Day - 3400

Capping Methods

Tested By: Alex Martinez (1,2,3,4)	U: Unbonded Caps (ASTM C1231)
Checked In : 04/18/2023 (1,2,3,4)	



TYPE 1 TYPE 2 TYPE 3 TYPE 4 TYPE 5 TYPE 6