



Construction Materials Testing
Sewerline Installation—Backfill Compaction
Jungman Tract Unit 2
San Antonio, Texas

InTEC Project No. S222144-1
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: Construction Materials Testing
Sewerline Installation – Backfill Compaction
Jungman Tract Unit 2
San Antonio, Texas

InTEC Project #: S222144-1

Gentlemen:

Integrated Testing and Engineering Company of San Antonio, L.P. (InTEC) performed compaction evaluation at the above referenced project site between August 18, 2022 and August 30, 2022.

Field density tests were performed on an “on call” basis by the contractor. Full time observation of fill placement was not performed. The Laboratory Compaction and Field Density Tests results at the above referenced project site 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

LABORATORY COMPACTION TEST RESULTS

**TESTED FOR:**

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

PROJECT:

Compaction Evaluation
Jungman Tract Unit 2
San Antonio, Texas

PROJECT NO: S222144

SOIL ID	18953		
SOIL TYPE	Tan clay with gravel		
TEST METHOD	Tex 113E		
SAMPLE DATE	8/12/2022		
MAXIMUM DRY DENSITY	115.6 PCF		
OPTIMUM WATER CONTENT	12.7 %		

DISTRIBUTION:	Above (1)		
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Respectfully submitted

murali

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

Integrated Engineering and Testing Company of San Antonio, L.P.

12028 Radium, San Antonio, Texas 78216

Phone: (210) 525-9033

Fax: (210) 525-9032

LABORATORY COMPACTION TEST RESULTS

**TESTED FOR:**

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

PROJECT:

Compaction Evaluation
Jungman Tract Unit 2
San Antonio, Texas

PROJECT NO: S222144

SOIL ID	18954		
SOIL TYPE	Brown clay with gravel		
TEST METHOD	Tex 113E		
SAMPLE DATE	8/12/2022		
MAXIMUM DRY DENSITY	108.7 PCF		
OPTIMUM WATER CONTENT	17.9 %		

DISTRIBUTION:	Above (1)		
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Respectfully submitted

murali

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

Compaction Evaluation

Report Date: 08/11/2023
Test Method: ASTM D6938, Tex 115E

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

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
312		08/18/22	U18954		CH	17.9	108.7	16.3	109.5	127.3	6	100.7	98	C
313		08/18/22	U18954		CH	17.9	108.7	17.0	108.2	126.6	6	99.5	98	C
314		08/18/22	U18954		CH	17.9	108.7	17.2	107.6	126.1	6	99.0	98	C
315		08/18/22	U18954		CH	17.9	108.7	18.2	110.0	130.0	6	101.2	98	C
316		08/18/22	U18954		CH	17.9	108.7	17.2	106.7	125.1	6	98.2	98	C
317		08/18/22	U18954		CH	17.9	108.7	17.6	107.4	126.3	6	98.8	98	C
318		08/18/22	U18954		CH	17.9	108.7	17.9	108.0	127.3	6	99.4	98	C
319		08/18/22	U18954		CH	17.9	108.7	16.5	109.3	127.3	6	100.6	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
312	Sewer Main: Line J STA 2+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
313	Sewer Main: Line J STA 3+50							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
314	Sewer Main: Line J STA 4+50							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
315	Sewer Main: Line J STA 10+50							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
316	Sewer Main: Line L STA 1+75							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
317	Sewer Main: Line L STA 3+25							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
318	Sewer Main: Line L STA 13+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
319	Sewer Main: Line M STA 3+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
Testing directed by the City Inspector when present.
Test results apply only to the specific locations and materials noted and may not represent any other locations or elevations.



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

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320		08/18/22	U18954		CH	17.9	108.7	16.6	108.5	126.5	6	99.8	98	C
321		08/18/22	U18954		CH	17.9	108.7	17.1	107.4	125.8	6	98.8	98	C
322		08/18/22	U18954		CH	17.9	108.7	16.7	108.5	126.6	6	99.8	98	C
323		08/18/22	U18954		CH	17.9	108.7	17.5	108.0	126.9	6	99.4	98	C
324		08/18/22	U18954		CH	17.9	108.7	16.9	107.7	125.9	6	99.1	98	C
357		08/19/22	U18954		CH	17.9	108.7	16.9	112.5	131.5	4	103.5	98	C
358		08/19/22	U18954		CH	17.9	108.7	16.6	109.5	127.7	4	100.7	98	C
359		08/19/22	U18954		CH	17.9	108.7	16.4	108.9	126.8	4	100.2	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
320	Sewer Main: Line M STA 6+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
321	Sewer Main: Line M STA 9+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
322	Sewer Main: Line M STA 11+75							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
323	Sewer Main: Line N STA 2+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
324	Sewer Main: Line K STA 2+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
357	Sewer Main: Line L STA 4+00							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
358	Sewer Main: Line L STA 6+00							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
359	Sewer Main: Line L STA 10+00							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
367		08/19/22	U18954		CH	17.9	108.7	16.5	106.8	124.4	4	98.3	98	C
368		08/19/22	U18954		CH	17.9	108.7	17.8	107.5	126.6	4	98.9	98	C
369		08/20/22	U18954		CH	17.9	108.7	18.2	108.6	128.4	4	99.9	98	C
370		08/20/22	U18954		CH	17.9	108.7	17.8	107.9	127.1	4	99.3	98	C
371		08/20/22	U18954		CH	17.9	108.7	18.3	108.7	128.6	4	100.0	98	C
372		08/20/22	U18954		CH	17.9	108.7	18.8	109.2	129.7	4	100.5	98	C
373		08/22/22	U18953		CH	12.7	115.6	13.8	114.1	129.8	6	98.7	98	C
374		08/22/22	U18953		CH	12.7	115.6	12.6	115.6	130.2	6	100.0	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
367	Sewer Main: Line J STA 6+00							2nd Lift	Troxler / 3430P / 76396 / 07/19/2022			Olson, James		
368	Sewer Main: Line J STA 10+00							2nd Lift	Troxler / 3430P / 76396 / 07/19/2022			Olson, James		
369	Sewer Main: Line L STA 5+00							3rd Lift	Troxler / 3430P / 74319 / 05/13/2022			Johnson, Thomas		
370	Sewer Main: Line L STA 9+00							3rd Lift	Troxler / 3430P / 74319 / 05/13/2022			Johnson, Thomas		
371	Sewer Main: Line J STA 4+50							2nd Lift	Troxler / 3430P / 74319 / 05/13/2022			Johnson, Thomas		
372	Sewer Main: Line J STA 8+50							2nd Lift	Troxler / 3430P / 74319 / 05/13/2022			Johnson, Thomas		
373	Sewer Main: Line M STA 5+00							2nd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
374	Sewer Main: Line M STA 8+00							2nd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
375		08/22/22	U18953		CH	12.7	115.6	13.2	114.8	130.0	6	99.3	98	C
376		08/22/22	U18953		CH	12.7	115.6	13.5	114.0	129.4	6	98.6	98	C
377		08/22/22	U18953		CH	12.7	115.6	13.2	114.3	129.4	6	98.9	98	C
378		08/22/22	U18953		CH	12.7	115.6	12.8	113.9	128.5	6	98.5	98	C
379		08/22/22	U18953		CH	12.7	115.6	12.2	116.2	130.4	6	100.5	98	C
380		08/22/22	U18953		CH	12.7	115.6	12.0	114.5	128.2	6	99.0	98	C
381		08/22/22	U18953		CH	12.7	115.6	13.0	115.5	130.5	6	99.9	98	C
382		08/22/22	U18953		CH	12.7	115.6	12.3	114.5	128.6	6	99.0	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
375	Sewer Main: Line M STA 11+00							2nd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
376	Sewer Main: Line L STA 4+00							4th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
377	Sewer Main: Line L STA 7+00							4th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
378	Sewer Main: Line L STA 10+00							4th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
379	Sewer Main: Line M STA 5+00							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
380	Sewer Main: Line M STA 8+00							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
381	Sewer Main: Line M STA 11+00							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
382	Sewer Main: Line L STA 4+00							5th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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InTEC did not observe the installation of the material.
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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
383		08/22/22	U18953		CH	12.7	115.6	13.2	113.9	128.9	6	98.5	98	C
384		08/22/22	U18953		CH	12.7	115.6	13.5	113.8	129.2	6	98.4	98	C
385		08/23/22	U18953		CH	12.7	115.6	14.0	114.1	130.1	6	98.7	98	C
386		08/23/22	U18953		CH	12.7	115.6	13.6	115.2	130.9	6	99.7	98	C
387		08/23/22	U18953		CH	12.7	115.6	13.5	113.6	128.9	6	98.3	98	C
388		08/23/22	U18953		CH	12.7	115.6	12.6	115.0	129.5	6	99.5	98	C
389		08/23/22	U18953		CH	12.7	115.6	13.3	115.2	130.5	6	99.7	98	C
390		08/23/22	U18953		CH	12.7	115.6	13.5	113.8	129.2	6	98.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
383	Sewer Main: Line L STA 7+00							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
384	Sewer Main: Line L STA 10+00							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
385	Sewer Main: Line M STA 5+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
386	Sewer Main: Line M STA 8+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
387	Sewer Main: Line M STA 11+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
388	Sewer Main: Line J STA 4+00							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
389	Sewer Main: Line J STA 7+00							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
390	Sewer Main: Line J STA 10+50							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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391		08/23/22	U18953		CH	12.7	115.6	13.8	113.9	129.6	6	98.5	98	C
392		08/23/22	U18953		CH	12.7	115.6	13.1	115.2	130.3	6	99.7	98	C
393		08/23/22	U18953		CH	12.7	115.6	14.0	116.0	132.2	6	100.3	98	C
394		08/23/22	U18953		CH	12.7	115.6	13.2	113.6	128.6	6	98.3	98	C
395		08/23/22	U18953		CH	12.7	115.6	13.6	114.4	130.0	6	99.0	98	C
396		08/23/22	U18953		CH	12.7	115.6	12.4	114.4	128.6	6	99.0	98	C
397		08/23/22	U18953		CH	12.7	115.6	12.6	116.0	130.6	6	100.3	98	C
398		08/23/22	U18953		CH	12.7	115.6	13.5	113.7	129.0	6	98.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
391	Sewer Main: Line K STA 2+50							2nd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
392	Sewer Main: Line L STA 13+00							2nd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
393	Sewer Main: Line J STA 4+50							4th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
394	Sewer Main: Line J STA 7+50							4th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
395	Sewer Main: Line J STA 10+50							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
396	Sewer Main: Line M STA 5+50							5th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
397	Sewer Main: Line M STA 8+50							5th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
398	Sewer Main: Line M STA 11+50							5th Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
Remarks				Comments										
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399		08/23/22	U18953		CH	12.7	115.6	12.2	115.1	129.1	6	99.6	98	C
400		08/23/22	U18953		CH	12.7	115.6	13.7	113.5	129.0	6	98.2	98	C
401		08/24/22	U18953		CH	12.7	115.6	13.5	113.9	129.3	6	98.5	98	C
402		08/24/22	U18953		CH	12.7	115.6	13.4	114.5	129.8	6	99.0	98	C
403		08/24/22	U18953		CH	12.7	115.6	12.8	114.8	129.5	6	99.3	98	C
404		08/24/22	U18953		CH	12.7	115.6	13.3	114.5	129.7	6	99.0	98	C
405		08/24/22	U18953		CH	12.7	115.6	13.4	114.5	129.8	6	99.0	98	C
406		08/24/22	U18953		CH	12.7	115.6	13.0	115.0	129.9	6	99.5	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
399	Sewer Main: Line K STA 2+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
400	Sewer Main: Line L STA 13+00							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
401	Sewer Main: Line L STA 1+50							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
402	Sewer Main: Line L STA 3+00							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
403	Sewer Main: Line L STA 13+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
404	Sewer Main: Line J STA 2+00							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
405	Sewer Main: Line J STA 3+50							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
406	Sewer Main: Line J STA 4+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
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InTEC of San Antonio
12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 08/11/2023
Test Method: ASTM D6938, Tex 115E

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

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
407		08/24/22	U18953		CH	12.7	115.6	12.4	113.9	128.0	6	98.5	98	C
408		08/24/22	U18953		CH	12.7	115.6	12.4	114.6	128.8	6	99.1	98	C
409		08/24/22	U18953		CH	12.7	115.6	13.6	113.8	129.3	6	98.4	98	C
410		08/24/22	U18953		CH	12.7	115.6	12.6	114.2	128.6	6	98.8	98	C
411		08/24/22	U18953		CH	12.7	115.6	13.3	113.9	129.0	6	98.5	98	C
412		08/24/22	U18953		CH	12.7	115.6	14.2	114.2	130.4	6	98.8	98	C
413		08/24/22	U18953		CH	12.7	115.6	13.8	113.6	129.3	6	98.3	98	C
414		08/24/22	U18953		CH	12.7	115.6	13.3	115.3	130.6	6	99.7	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
407	Sewer Main: Line J STA 7+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
408	Sewer Main: Line J STA 10+50							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
409	Sewer Main: Line M STA 2+50							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
410	Sewer Main: Line N STA 2+00							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
411	Sewer Main: Line K STA 2+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
412	Sewer Main: Line L STA 1+75							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
413	Sewer Main: Line L STA 3+25							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
414	Sewer Main: Line L STA 13+00							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Project:

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San Antonio, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
415		08/24/22	U18953		CH	12.7	115.6	13.4	114.8	130.2	6	99.3	98	C
416		08/24/22	U18953		CH	12.7	115.6	13.7	113.8	129.4	6	98.4	98	C
417		08/24/22	U18953		CH	12.7	115.6	14.1	113.5	129.5	6	98.2	98	C
418		08/24/22	U18953		CH	12.7	115.6	13.5	114.6	130.1	6	99.1	98	C
419		08/24/22	U18953		CH	12.7	115.6	13.0	114.5	129.4	6	99.0	98	C
420		08/25/22	U18954		CH	17.9	108.7	16.4	106.8	124.3	6	98.3	98	C
421		08/25/22	U18954		CH	17.9	108.7	16.5	108.6	126.5	6	99.9	98	C
422		08/25/22	U18954		CH	17.9	108.7	17.1	106.9	125.2	6	98.3	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
415	Sewer Main: Line J STA 1+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
416	Sewer Main: Line J STA 3+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
417	Sewer Main: Line M STA 2+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
418	Sewer Main: Line N STA 2+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
419	Sewer Main: Line K STA 2+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
420	Sewer Main: Line L STA 1+50							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
421	Sewer Main: Line L STA 3+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
422	Sewer Main: Line J STA 2+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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29.368472246087176, -98.78962756631567
San Antonio, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
423		08/25/22	U18954		CH	17.9	108.7	16.9	108.0	126.3	6	99.4	98	C
424		08/25/22	U18954		CH	17.9	108.7	17.7	107.9	127.0	6	99.3	98	C
425		08/25/22	U18954		CH	17.9	108.7	17.1	107.8	126.2	6	99.2	98	C
426		08/25/22	U18954		CH	17.9	108.7	16.6	106.9	124.6	6	98.3	98	C
427		08/25/22	U18954		CH	17.9	108.7	16.8	106.6	124.5	6	98.1	98	C
428		08/25/22	U18954		CH	17.9	108.7	17.3	107.3	125.9	6	98.7	98	C
429		08/25/22	U18954		CH	17.9	108.7	17.1	108.0	126.5	6	99.4	98	C
430		08/25/22	U18954		CH	17.9	108.7	17.2	108.1	126.7	6	99.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated		Field Technician		
423	Sewer Main: Line J STA 3+50							4th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
424	Sewer Main: Line M STA 3+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
425	Sewer Main: Line N STA 2+00							4th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
426	Sewer Main: Line L STA 2+00							5th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
427	Sewer Main: Line L STA 3+25							5th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
428	Sewer Main: Line J STA 2+25							5th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
429	Sewer Main: Line J STA 3+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
430	Sewer Main: Line M STA 3+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
431		08/25/22	U18954		CH	17.9	108.7	16.7	108.1	126.2	6	99.4	98	C
449		08/27/22	U18954		CH	17.9	108.7	19.9	107.2	128.5	6	98.6	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
431	Sewer Main: Line N STA 1+50							5th Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
449	Sewer Main: Line M STA 11+00							6th Lift		CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Project:

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Jungman Tract Unit 2
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San Antonio, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
325		08/18/22	U18954		CH	17.9	108.7	17.3	107.8	126.4	6	99.2	98	C
326		08/18/22	U18954		CH	17.9	108.7	17.2	107.4	125.9	6	98.8	98	C
327		08/18/22	U18954		CH	17.9	108.7	17.8	107.5	126.6	6	98.9	98	C
328		08/18/22	U18954		CH	17.9	108.7	16.9	107.0	125.1	6	98.4	98	C
329		08/18/22	U18954		CH	17.9	108.7	17.6	107.7	126.7	6	99.1	98	C
330		08/18/22	U18954		CH	17.9	108.7	18.0	108.0	127.4	6	99.4	98	C
331		08/18/22	U18954		CH	17.9	108.7	17.4	107.6	126.3	6	99.0	98	C
332		08/18/22	U18954		CH	17.9	108.7	17.4	106.9	125.5	6	98.3	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
325	Sewer Laterals: Line J STA 3+33							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
326	Sewer Laterals: Line J STA 4+38							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
327	Sewer Laterals: Line J STA 4+50							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
328	Sewer Laterals: Line J STA 10+40							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
329	Sewer Laterals: Line J STA 1+11							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
330	Sewer Laterals: Line L STA 2+35							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
331	Sewer Laterals: Line L STA 11+89							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
332	Sewer Laterals: Line L STA 13+66							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
333		08/18/22	U18954		CH	17.9	108.7	17.2	108.0	126.6	6	99.4	98	C
334		08/18/22	U18954		CH	17.9	108.7	18.4	106.9	126.6	6	98.3	98	C
335		08/18/22	U18954		CH	17.9	108.7	17.8	107.5	126.6	6	98.9	98	C
336		08/18/22	U18954		CH	17.9	108.7	17.8	106.9	125.9	6	98.3	98	C
337		08/18/22	U18954		CH	17.9	108.7	17.3	108.2	126.9	6	99.5	98	C
338		08/18/22	U18954		CH	17.9	108.7	17.5	107.2	126.0	6	98.6	98	C
339		08/18/22	U18954		CH	17.9	108.7	18.0	107.5	126.8	6	98.9	98	C
340		08/18/22	U18954		CH	17.9	108.7	17.7	107.8	126.9	6	99.2	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated		Field Technician		
333	Sewer Laterals: Line L STA 15+74							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
334	Sewer Laterals: Line M STA 1+94							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
335	Sewer Laterals: Line M STA 3+50							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
336	Sewer Laterals: Line M STA 4+77							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
337	Sewer Laterals: Line M STA 5+97							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
338	Sewer Laterals: Line M STA 6+77							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
339	Sewer Laterals: Line M STA 7+73							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
340	Sewer Laterals: Line M STA 8+61							1st Lift		Troxler / 3430P / 80148 / 10/01/2021		Hope, Trey		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
341		08/18/22	U18954		CH	17.9	108.7	17.4	108.2	127.0	6	99.5	98	C
342		08/18/22	U18954		CH	17.9	108.7	18.0	107.0	126.3	6	98.4	98	C
343		08/18/22	U18954		CH	17.9	108.7	17.5	106.6	125.3	6	98.1	98	C
344		08/18/22	U18954		CH	17.9	108.7	17.8	106.8	125.8	6	98.3	98	C
345		08/18/22	U18954		CH	17.9	108.7	17.0	106.5	124.6	6	98.0	98	C
346		08/18/22	U18954		CH	17.9	108.7	17.2	108.3	126.9	6	99.6	98	C
347		08/18/22	U18954		CH	17.9	108.7	17.6	108.3	127.4	6	99.6	98	C
348		08/19/22	U18954		CH	17.9	108.7	16.3	111.1	129.2	4	102.2	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
341	Sewer Laterals: Line M STA 9+53							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
342	Sewer Laterals: Line M STA 10+37							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
343	Sewer Laterals: Line M STA 11+37							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
344	Sewer Laterals: Line M STA 12+23							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
345	Sewer Laterals: Line N STA 1+77							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
346	Sewer Laterals: Line K STA 1+00							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
347	Sewer Laterals: Line K STA 2+33							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
348	Sewer Laterals: Line L STA 3+88							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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

Compaction Evaluation

Report Date: 08/11/2023
Test Method: ASTM D6938, Tex 115E

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

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
349		08/19/22	U18954		CH	17.9	108.7	16.3	111.0	129.1	4	102.1	98	C
350		08/19/22	U18954		CH	17.9	108.7	17.3	110.6	129.7	4	101.7	98	C
351		08/19/22	U18954		CH	17.9	108.7	15.9	112.2	130.0	4	103.2	98	C
352		08/19/22	U18954		CH	17.9	108.7	16.9	109.3	127.8	4	100.6	98	C
353		08/19/22	U18954		CH	17.9	108.7	16.6	108.7	126.7	4	100.0	98	C
354		08/19/22	U18954		CH	17.9	108.7	17.5	109.6	128.8	4	100.8	98	C
355		08/19/22	U18954		CH	17.9	108.7	17.5	110.2	129.5	4	101.4	98	C
356		08/19/22	U18954		CH	17.9	108.7	17.2	110.5	129.5	4	101.7	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
349	Sewer Laterals: Line L STA 4+31							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
350	Sewer Laterals: Line L STA 5+61							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
351	Sewer Laterals: Line L STA 6+03							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
352	Sewer Laterals: Line L STA 7+40							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
353	Sewer Laterals: Line L STA 7+86							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
354	Sewer Laterals: Line L STA 9+20							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
355	Sewer Laterals: Line L STA 9+64							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
356	Sewer Laterals: Line L STA 11+01							1st Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Compaction Evaluation

Report Date: 08/11/2023
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San Antonio, TX

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
360		08/19/22	U18954		CH	17.9	108.7	16.5	109.5	127.6	4	100.7	98	C
361		08/19/22	U18954		CH	17.9	108.7	16.3	109.5	127.3	4	100.7	98	C
362		08/19/22	U18954		CH	17.9	108.7	16.6	108.8	126.9	4	100.1	98	C
363		08/19/22	U18954		CH	17.9	108.7	15.9	109.9	127.4	4	101.1	98	C
364		08/19/22	U18954		CH	17.9	108.7	16.5	107.5	125.2	4	98.9	98	C
365		08/19/22	U18954		CH	17.9	108.7	17.9	107.7	127.0	4	99.1	98	C
366		08/19/22	U18954		CH	17.9	108.7	17.3	109.5	128.4	4	100.7	98	C
432		08/26/22	U18953		CH	12.7	115.6	13.8	113.8	129.5	6	98.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
360	Sewer Laterals: Line J STA 4+05							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
361	Sewer Laterals: Line J STA 5+08							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
362	Sewer Laterals: Line J STA 5+36							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
363	Sewer Laterals: Line J STA 7+06							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
364	Sewer Laterals: Line J STA 7+15							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
365	Sewer Laterals: Line J STA 9+02							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
366	Sewer Laterals: Line J STA 9+39							2nd Lift		Troxler / 3430P / 76396 / 07/19/2022			Olson, James	
432	Sewer Laterals: Line L STA 1+61							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
433		08/26/22	U18953		CH	12.7	115.6	13.2	114.2	129.3	6	98.8	98	C
434		08/26/22	U18953		CH	12.7	115.6	13.3	114.0	129.2	6	98.6	98	C
435		08/26/22	U18953		CH	12.7	115.6	13.0	114.4	129.3	6	99.0	98	C
436		08/26/22	U18953		CH	12.7	115.6	13.5	114.0	129.4	6	98.6	98	C
437		08/26/22	U18953		CH	12.7	115.6	13.3	115.1	130.4	6	99.6	98	C
438		08/26/22	U18953		CH	12.7	115.6	13.7	114.7	130.4	6	99.2	98	C
439		08/26/22	U18953		CH	12.7	115.6	12.8	115.8	130.6	6	100.2	98	C
440		08/26/22	U18953		CH	12.7	115.6	12.5	114.9	129.3	6	99.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
433	Sewer Laterals: Line L STA 2+78							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
434	Sewer Laterals: Line L STA 4+72							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
435	Sewer Laterals: Line L STA 5+61							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
436	Sewer Laterals: Line L STA 6+93							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
437	Sewer Laterals: Line L STA 7+40							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
438	Sewer Laterals: Line L STA 8+30							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
439	Sewer Laterals: Line L STA 9+20							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
440	Sewer Laterals: Line L STA 10+55							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
441		08/26/22	U18953		CH	12.7	115.6	13.2	115.8	131.1	6	100.2	98	C
442		08/26/22	U18953		CH	12.7	115.6	13.0	114.2	129.0	6	98.8	98	C
443		08/26/22	U18953		CH	12.7	115.6	13.2	114.8	130.0	6	99.3	98	C
444		08/26/22	U18953		CH	12.7	115.6	12.2	116.6	130.8	6	100.9	98	C
445		08/26/22	U18953		CH	12.7	115.6	12.5	115.2	129.6	6	99.7	98	C
446		08/26/22	U18953		CH	12.7	115.6	12.5	115.2	129.6	6	99.7	98	C
447		08/26/22	U18953		CH	12.7	115.6	12.4	114.2	128.4	6	98.8	98	C
448		08/26/22	U18953		CH	12.7	115.6	13.2	113.5	128.5	6	98.2	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
441	Sewer Laterals: Line L STA 12+31							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
442	Sewer Laterals: Line L STA 13+66							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
443	Sewer Laterals: Line L STA 15+00							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
444	Sewer Laterals: Line K STA 1+49							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
445	Sewer Laterals: Line K STA 2+38							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
446	Sewer Laterals: Line K STA 3+24							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
447	Sewer Laterals: Line N STA 1+35							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
448	Sewer Laterals: Line N STA 2+11							1st Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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450		08/27/22	U18954		CH	17.9	108.7	18.2	107.1	126.6	6	98.5	98	C
451		08/27/22	U18954		CH	17.9	108.7	18.9	106.6	126.7	6	98.1	98	C
452		08/27/22	U18954		CH	17.9	108.7	18.4	107.3	127.0	6	98.7	98	C
453		08/27/22	U18954		CH	17.9	108.7	19.1	106.5	126.8	6	98.0	98	C
454		08/27/22	U18954		CH	17.9	108.7	19.6	106.9	127.9	6	98.3	98	C
455		08/27/22	U18954		CH	17.9	108.7	18.9	107.4	127.7	6	98.8	98	C
456		08/27/22	U18954		CH	17.9	108.7	19.0	107.8	128.3	6	99.2	98	C
457		08/27/22	U18954		CH	17.9	108.7	18.8	106.8	126.9	6	98.3	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
450	Sewer Laterals: Line M STA 11+78, LHS							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
451	Sewer Laterals: Line M STA 11+78, RHS							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
452	Sewer Laterals: Line M STA 10+88							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
453	Sewer Laterals: Line M STA 10+82							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
454	Sewer Laterals: Line M STA 9+92							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
455	Sewer Laterals: Line M STA 9+98							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
456	Sewer Laterals: Line M STA 9+08							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
457	Sewer Laterals: Line M STA 9+02							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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458		08/27/22	U18954		CH	17.9	108.7	19.5	107.0	127.9	6	98.4	98	C
459		08/27/22	U18954		CH	17.9	108.7	19.6	108.2	129.4	6	99.5	98	C
460		08/27/22	U18954		CH	17.9	108.7	18.6	108.9	129.2	6	100.2	98	C
461		08/27/22	U18954		CH	17.9	108.7	18.7	107.9	128.1	6	99.3	98	C
462		08/27/22	U18954		CH	17.9	108.7	19.2	108.1	128.9	6	99.4	98	C
463		08/27/22	U18954		CH	17.9	108.7	18.8	106.8	126.9	6	98.3	98	C
464		08/27/22	U18954		CH	17.9	108.7	19.9	107.2	128.5	6	98.6	98	C
465		08/27/22	U18954		CH	17.9	108.7	19.1	107.6	128.2	6	99.0	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
458	Sewer Laterals: Line M STA 8+12							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
459	Sewer Laterals: Line M STA 8+18							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
460	Sewer Laterals: Line M STA 7+18							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
461	Sewer Laterals: Line M STA 7+23							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
462	Sewer Laterals: Line M STA 6+31							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
463	Sewer Laterals: Line M STA 6+39							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
464	Sewer Laterals: Line M STA 5+30							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
465	Sewer Laterals: Line M STA 5+47							2nd Lift	CPN - Instrotek / MC-1 Elite / 31294 / 08/18/2022			Arellano, Carlos		
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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466		08/30/22	U18953		CH	12.7	115.6	13.1	117.4	132.8	6	101.6	98	C
467		08/30/22	U18953		CH	12.7	115.6	12.2	114.1	128.0	6	98.7	98	C
468		08/30/22	U18953		CH	12.7	115.6	12.3	114.9	129.0	6	99.4	98	C
469		08/30/22	U18953		CH	12.7	115.6	12.5	113.9	128.1	6	98.5	98	C
470		08/30/22	U18953		CH	12.7	115.6	12.3	116.1	130.4	6	100.4	98	C
471		08/30/22	U18953		CH	12.7	115.6	12.6	115.8	130.4	6	100.2	98	C
472		08/30/22	U18953		CH	12.7	115.6	12.0	115.4	129.2	6	99.8	98	C
473		08/30/22	U18953		CH	12.7	115.6	11.7	115.9	129.5	6	100.3	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
466	Sewer Laterals: Line N STA 1+77							2nd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
467	Sewer Laterals: Line K STA 1+00							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
468	Sewer Laterals: Line K STA 1+90							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
469	Sewer Laterals: Line K STA 2+83							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
470	Sewer Laterals: Line M STA 1+94							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
471	Sewer Laterals: Line M STA 3+05							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
472	Sewer Laterals: Line M STA 3+84							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
473	Sewer Laterals: Line M STA 4+77							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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Phone: 210-525-9033

Compaction Evaluation

Report Date: 08/11/2023
Test Method: ASTM D6938, Tex 115E

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

Test Results														
Test #	Retest Of	Test Date	Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)	In Place Moisture (%)	In Place Dry Density (pcf)	In Place Wet Density (pcf)	Probe Depth (in)	Percent Compaction	Min Comp. (%)	Remark
474		08/30/22	U18953		CH	12.7	115.6	12.3	116.8	131.2	6	101.0	98	C
475		08/30/22	U18953		CH	12.7	115.6	12.5	115.2	129.6	6	99.7	98	C
476		08/30/22	U18953		CH	12.7	115.6	11.9	114.4	128.0	6	99.0	98	C
477		08/30/22	U18953		CH	12.7	115.6	11.9	114.6	128.2	6	99.1	98	C
478		08/30/22	U18953		CH	12.7	115.6	12.4	114.9	129.1	6	99.4	98	C
479		08/30/22	U18953		CH	12.7	115.6	12.0	115.5	129.4	6	99.9	98	C
480		08/30/22	U18953		CH	12.7	115.6	11.9	113.8	127.3	6	98.4	98	C
481		08/30/22	U18953		CH	12.7	115.6	12.6	114.4	128.8	6	99.0	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
474	Sewer Laterals: Line M STA 5+47							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
475	Sewer Laterals: Line M STA 6+31							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
476	Sewer Laterals: Line M STA 6+39							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
477	Sewer Laterals: Line M STA 7+67							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
478	Sewer Laterals: Line M STA 7+73							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
479	Sewer Laterals: Line M STA 9+02							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
480	Sewer Laterals: Line M STA 9+08							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
481	Sewer Laterals: Line M STA 10+37							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

Testing performed when called in.
InTEC did not observe the installation of the material.
Testing directed by the City Inspector when present.
Test results apply only to the specific locations and materials noted and may not represent any other locations or elevations.



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

Compaction Evaluation

Report Date: 08/11/2023
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482		08/30/22	U18953		CH	12.7	115.6	12.1	114.8	128.7	6	99.3	98	C
483		08/30/22	U18953		CH	12.7	115.6	12.5	114.2	128.5	6	98.8	98	C
484		08/30/22	U18953		CH	12.7	115.6	11.5	114.9	128.1	6	99.4	98	C
485		08/30/22	U18953		CH	12.7	115.6	11.5	116.1	129.5	6	100.4	98	C
486		08/30/22	U18953		CH	12.7	115.6	12.8	114.5	129.2	6	99.0	98	C
487		08/30/22	U18953		CH	12.7	115.6	12.2	114.6	128.6	6	99.1	98	C
488		08/30/22	U18953		CH	12.7	115.6	12.5	114.1	128.4	6	98.7	98	C
489		08/30/22	U18953		CH	12.7	115.6	12.2	113.3	127.1	6	98.0	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
482	Sewer Laterals: Line M STA 10+43							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
483	Sewer Laterals: Line M STA 11+78							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
484	Sewer Laterals: Line L STA 1+61							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
485	Sewer Laterals: Line L STA 2+78							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
486	Sewer Laterals: Line L STA 4+31							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
487	Sewer Laterals: Line L STA 5+13							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
488	Sewer Laterals: Line L STA 5+61							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
489	Sewer Laterals: Line L STA 6+51							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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490		08/30/22	U18953		CH	12.7	115.6	12.2	114.2	128.1	6	98.8	98	C
491		08/30/22	U18953		CH	12.7	115.6	12.6	113.7	128.0	6	98.4	98	C
492		08/30/22	U18953		CH	12.7	115.6	11.8	114.1	127.6	6	98.7	98	C
493		08/30/22	U18953		CH	12.7	115.6	12.5	116.6	131.2	6	100.9	98	C
Test Information														
Test #	Test Location						Elevation	Reference	Gauge Make / Model / SN / Calibrated			Field Technician		
490	Sewer Laterals: Line L STA 7+40							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
491	Sewer Laterals: Line L STA 8+30							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
492	Sewer Laterals: Line L STA 9+64							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
493	Sewer Laterals: Line L STA 11+01							3rd Lift	Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey		
Remarks				Comments										
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494		08/30/22	U18953		CH	12.7	115.6	12.2	116.3	130.5	6	100.6	98	C
495		08/30/22	U18953		CH	12.7	115.6	12.4	115.7	130.0	6	100.1	98	C
496		08/30/22	U18953		CH	12.7	115.6	12.0	116.4	130.4	6	100.7	98	C
497		08/30/22	U18953		CH	12.7	115.6	12.3	114.3	128.4	6	98.9	98	C
498		08/30/22	U18953		CH	12.7	115.6	11.7	113.4	126.7	6	98.1	98	C
499		08/30/22	U18953		CH	12.7	115.6	12.6	114.1	128.5	6	98.7	98	C
500		08/30/22	U18953		CH	12.7	115.6	12.6	113.9	128.3	6	98.5	98	C
501		08/30/22	U18953		CH	12.7	115.6	13.0	113.8	128.6	6	98.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
494	Sewer Laterals: Line L STA 12+31							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
495	Sewer Laterals: Line L STA 13+66							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
496	Sewer Laterals: Line L STA 15+00							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
497	Sewer Laterals: Line L STA 3+23							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
498	Sewer Laterals: Line L STA 4+50							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
499	Sewer Laterals: Line L STA 4+86							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
500	Sewer Laterals: Line L STA 5+36							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
501	Sewer Laterals: Line L STA 6+71							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										

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502		08/30/22	U18953		CH	12.7	115.6	13.0	114.3	129.2	6	98.9	98	C
503		08/30/22	U18953		CH	12.7	115.6	12.3	115.3	129.5	6	99.7	98	C
504		08/30/22	U18953		CH	12.7	115.6	12.2	113.8	127.7	6	98.4	98	C
Test Information														
Test #	Test Location						Elevation	Reference		Gauge Make / Model / SN / Calibrated			Field Technician	
502	Sewer Laterals: Line L STA 7+60							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
503	Sewer Laterals: Line L STA 9+02							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
504	Sewer Laterals: Line L STA 10+40							3rd Lift		Troxler / 3430P / 80148 / 10/01/2021			Hope, Trey	
Remarks				Comments										
C: Compliant				Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.										