



Construction Materials Testing
Sewerline Installation—Backfill Compaction
Gates Subdivision Unit 2
Bexar County, Texas

InTEC Project No. S232134-1
February 5, 2025

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, Texas 78233



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

Geotechnical & Environmental Engineering • Construction Services • Geologic Assessment

February 5, 2025

E.A. Palaniappan, Ph.D., P.E.
Murali Subramaniam, Ph.D., P.E.
Kausi Subramaniam, B.S.

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, Texas 78233

Attention: Ms. Jaime L. Johnson

Re: Construction Materials Testing
Sewerline Installation – Backfill Compaction
Gates Subdivision Unit 2
Bexar County, Texas

InTEC Project #: S232134-1

Ladies and Gentlemen:

Integrated Testing and Engineering Company of San Antonio, L.P. (InTEC) performed compaction evaluation at the above referenced project site between January 31, 2024 and February 24, 2024.

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.

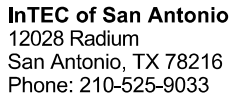
Respectfully Submitted,
InTEC of San Antonio, L.P.

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

Copies Submitted: Above (1)



02/12/2025



Client:

Project:

S232133
Gates Subdivision Unit 1
29.381265682887246, -98.32008373231879
Bexar County, TX

Sample Number: 25738

Sample Date: 01/11/2024

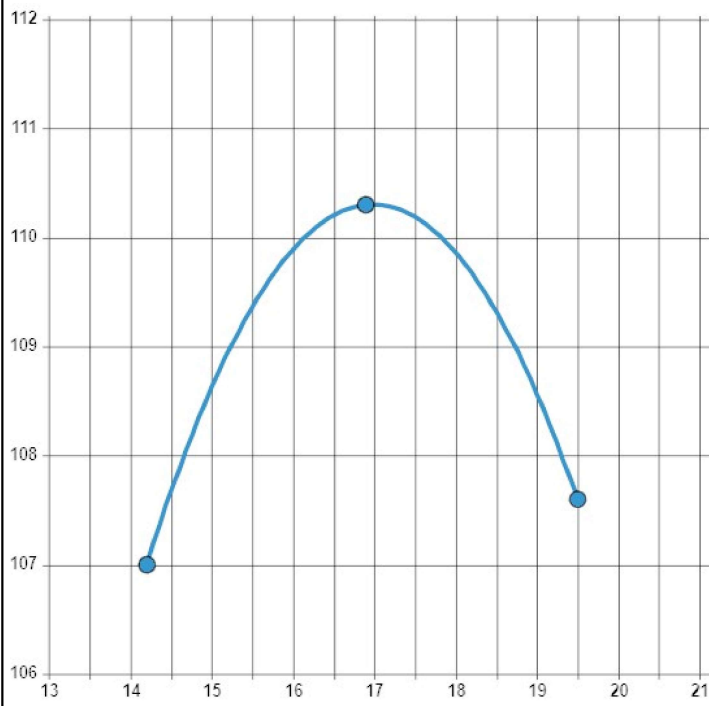
Technician: Villarreal Sr., Robert

Material Use: Utility Backfill

Sample Location: On site

Material Description: Brown Clay with Gravel

Test Method: Tex 113E



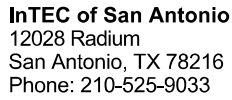
Maximum Dry Density (pcf): 110.3

Optimum Moisture (%): 17.0

Soil Classification: CH Clay with gravel

Test Completed Date: 01/15/2024

Test Completed By: Agare, Ovie



Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

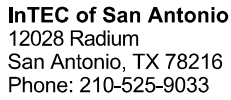
SAMPLE DATA

LAB DATA

A graph of a downward-opening parabola on a coordinate plane. The x-axis ranges from 13 to 21 with major grid lines every 1 unit. The y-axis ranges from 103 to 111 with major grid lines every 1 unit. Three points are plotted on the parabola: (15, 104.4), (17, 108.6), and (20, 107.3). The vertex of the parabola is at (18, 109.0).

x	y
15	104.4
17	108.6
18	109.0
20	107.3

Page 1 of 1



Client:

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, TX

Sample Number: 25977

Sample Date: 02/02/2024

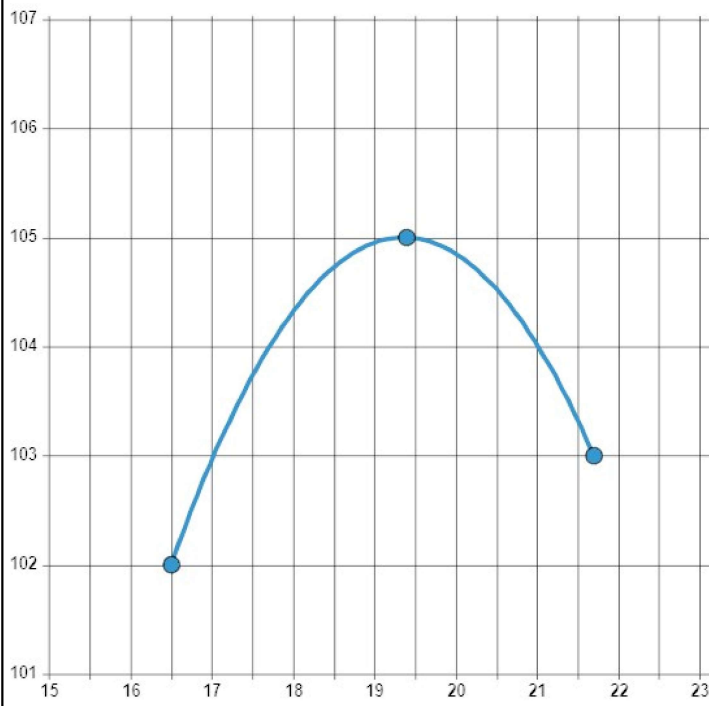
Technician: Johnson, Thomas

Material Use: Utility Backfill

Sample Location: Stockpile

Material Description: Tan to Brown Clay with Gravel

Test Method: Tex 113E



Maximum Dry Density (pcf): 105.0

Optimum Moisture (%): 19.4

Soil Classification: CH Clay with gravel

Test Completed Date: 02/06/2024

Test Completed By: Agare, Ovie



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

Compaction Evaluation

Report Date: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
118		01/31/24	U25738		CH	17.0	110.3	15.8	108.6	125.8	4	98.5	98	-2 / 2	C
119		01/31/24	U25738		CH	17.0	110.3	15.2	113.8	131.1	4	103.2	98	-2 / 2	C
127		02/08/24	U25977		CH	19.4	105.0	17.6	103.6	121.8	6	98.7	98	-2 / 2	C
128		02/08/24	U25977		CH	19.4	105.0	18.2	104.1	123.0	6	99.1	98	-2 / 2	C
135		02/08/24	U25977		CH	19.4	105.0	20.1	103.5	124.3	6	98.6	98	-2 / 2	C
136		02/08/24	U25977		CH	19.4	105.0	20.5	103.6	124.8	6	98.7	98	-2 / 2	C
137		02/09/24	U25977		CH	19.4	105.0	21.1	103.3	125.1	6	98.4	98	-2 / 2	C
138		02/09/24	U25977		CH	19.4	105.0	20.5	103.5	124.7	6	98.6	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
118	Sewer Main: Line B STA 10+50				1st Lift	Troxler / 3430P / 74319 / 05/03/2023			2299 / 653			Johnson, Thomas			
119	Sewer Main: Line B STA 10+50				1st Lift	Troxler / 3430P / 74319 / 05/03/2023			2299 / 653			Johnson, Thomas			
127	Sewer Main: Line C STA 1+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
128	Sewer Main: Line C STA 3+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
135	Sewer Main: Line C STA 1+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
136	Sewer Main: Line C STA 3+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
137	Sewer Main: Line C STA 1+50				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
138	Sewer Main: Line C STA 3+00				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
145		02/09/24	U25977		CH	19.4	105.0	19.9	104.0	124.7	6	99.0	98	-2 / 2	C
146		02/09/24	U25977		CH	19.4	105.0	19.7	103.8	124.2	6	98.9	98	-2 / 2	C
150		02/09/24	U25977		CH	19.4	105.0	17.9	103.1	121.6	6	98.2	98	-2 / 2	C
151		02/10/24	U25977		CH	19.4	105.0	18.3	103.5	122.4	6	98.6	98	-2 / 2	C
155		02/12/24	U25977		CH	19.4	105.0	17.6	103.5	121.7	6	98.6	98	-2 / 2	C
159		02/12/24	U25977		CH	19.4	105.0	18.1	103.9	122.7	6	99.0	98	-2 / 2	C
163		02/12/24	U25977		CH	19.4	105.0	18.8	103.3	122.7	6	98.4	98	-2 / 2	C
167		02/12/24	U25977		CH	19.4	105.0	19.2	103.3	123.1	6	98.4	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
145	Sewer Main: Line C STA 1+50				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
146	Sewer Main: Line C STA 3+00				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
150	Sewer Main: Line E STA 2+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
151	Sewer Main: Line E STA 2+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
155	Sewer Main: Line E STA 2+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
159	Sewer Main: Line F STA 3+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
163	Sewer Main: Line F STA 3+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
167	Sewer Main: Line E STA 2+00				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
171		02/12/24	U25977		CH	19.4	105.0	17.8	103.5	121.9	6	98.6	98	-2 / 2	C
172		02/13/24	U25977		CH	19.4	105.0	17.6	103.3	121.5	6	98.4	98	-2 / 2	C
178		02/13/24	U25977		CH	19.4	105.0	18.2	103.6	122.5	6	98.7	98	-2 / 2	C
184		02/13/24	U25977		CH	19.4	105.0	18.2	103.2	122.0	6	98.3	98	-2 / 2	C
190		02/14/24	U25977		CH	19.4	105.0	20.2	103.6	124.5	6	98.7	98	-2 / 2	C
191		02/14/24	U25977		CH	19.4	105.0	20.5	103.5	124.7	6	98.6	98	-2 / 2	C
192		02/14/24	U25977		CH	19.4	105.0	17.5	105.8	124.3	6	100.8	98	-2 / 2	C
193		02/14/24	U25977		CH	19.4	105.0	17.9	103.9	122.5	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
171	Sewer Main: Line F STA 3+00				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
172	Sewer Main: Line B STA 10+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
178	Sewer Main: Line B STA 10+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
184	Sewer Main: Line B STA 10+00				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
190	Sewer Main: Line B STA 3+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
191	Sewer Main: Line B STA 6+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
192	Sewer Main: Line B STA 3+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
193	Sewer Main: Line B STA 6+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
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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Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
200		02/14/24	U25977		CH	19.4	105.0	18.6	102.9	122.0	6	98.0	98	-2 / 2	C
201		02/14/24	U25977		CH	19.4	105.0	18.1	103.2	121.9	6	98.3	98	-2 / 2	C
208		02/15/24	U25977		CH	19.4	105.0	18.1	105.7	124.8	6	100.7	98	-2 / 2	C
209		02/15/24	U25977		CH	19.4	105.0	18.3	104.8	124.0	6	99.8	98	-2 / 2	C
216		02/16/24	U25977		CH	19.4	105.0	21.0	103.9	125.7	6	99.0	98	-2 / 2	C
217		02/16/24	U25977		CH	19.4	105.0	21.1	103.4	125.2	6	98.5	98	-2 / 2	C
222		02/17/24	U25977		CH	19.4	105.0	20.5	103.5	124.7	6	98.6	98	-2 / 2	C
223		02/17/24	U25977		CH	19.4	105.0	20.3	103.1	124.0	6	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard				Field Technician		
200	Sewer Main: Line B STA 3+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
201	Sewer Main: Line B STA 6+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
208	Sewer Main: Line B STA 3+00				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
209	Sewer Main: Line B STA 6+00				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
216	Sewer Main: Line A STA 9+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555				Villarreal Sr., Robert		
217	Sewer Main: Line A STA 11+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555				Villarreal Sr., Robert		
222	Sewer Main: Line A STA 9+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550				Villarreal Sr., Robert		
223	Sewer Main: Line A STA 11+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550				Villarreal Sr., Robert		
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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29.381265682887246, -98.32008373231879
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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. (%)	Optimum Moisture Tolerance (%)	Remark
232		02/19/24	U25738		CH	17.0	110.3	15.8	108.7	125.9	6	98.5	98	-2 / 2	C
233		02/19/24	U25738		CH	17.0	110.3	15.5	108.6	125.4	6	98.5	98	-2 / 2	C
251		02/20/24	U25977		CH	19.4	105.0	17.5	103.5	121.6	6	98.6	98	-2 / 2	C
252		02/20/24	U25977		CH	19.4	105.0	17.9	103.8	122.4	6	98.9	98	-2 / 2	C
253		02/20/24	U25977		CH	19.4	105.0	19.3	104.1	124.2	6	99.1	98	-2 / 2	C
254		02/20/24	U25977		CH	19.4	105.0	19.8	103.8	124.4	6	98.9	98	-2 / 2	C
262		02/21/24	U25977		CH	19.4	105.0	19.4	103.8	123.9	6	98.9	98	-2 / 2	C
263		02/21/24	U25977		CH	19.4	105.0	19.4	103.6	123.7	6	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
232	Sewer Main: Line A STA 9+00				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
233	Sewer Main: Line A STA 11+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
251	Sewer Main: Line A STA 9+00				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
252	Sewer Main: Line A STA 12+00				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
253	Sewer Main: Line G STA 3+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
254	Sewer Main: Line G STA 5+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
262	Sewer Main: Line A STA 12+00				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
263	Sewer Main: Line A STA 9+50				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
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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29.381265682887246, -98.32008373231879
Bexar County, TX

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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. (%)	Optimum Moisture Tolerance (%)	Remark
264		02/21/24	U25977		CH	19.4	105.0	19.5	103.7	123.9	6	98.8	98	-2 / 2	C
265		02/21/24	U25977		CH	19.4	105.0	19.8	103.3	123.8	6	98.4	98	-2 / 2	C
270		02/21/24	U25977		CH	19.4	105.0	18.5	103.5	122.6	6	98.6	98	-2 / 2	C
271		02/21/24	U25977		CH	19.4	105.0	18.7	103.7	123.1	6	98.8	98	-2 / 2	C
276		02/21/24	U25977		CH	19.4	105.0	19.2	103.8	123.7	6	98.9	98	-2 / 2	C
277		02/22/24	U25977		CH	19.4	105.0	19.6	103.4	123.7	6	98.5	98	-2 / 2	C
278		02/22/24	U25977		CH	19.4	105.0	20.1	103.5	124.3	6	98.6	98	-2 / 2	C
298		02/24/24	U25977		CH	19.4	105.0	19.3	103.8	123.8	6	98.9	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard				Field Technician		
264	Sewer Main: Line B STA 3+00				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555				Villarreal Sr., Robert		
265	Sewer Main: Line B STA 6+00				5th Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555				Villarreal Sr., Robert		
270	Sewer Main: Line G STA 5+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555				Villarreal Sr., Robert		
271	Sewer Main: Line G STA 3+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555				Villarreal Sr., Robert		
276	Sewer Main: Line G STA 5+00				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555				Villarreal Sr., Robert		
277	Sewer Main: Line G STA 5+50				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
278	Sewer Main: Line G STA 3+50				4th Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
298	Sewer Main: Line A STA 6+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550				Villarreal Sr., Robert		
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
299		02/24/24	U25977		CH	19.4	105.0	18.2	103.1	121.9	6	98.2	98	-2 / 2	C
300		02/24/24	U25977		CH	19.4	105.0	18.6	103.6	122.9	6	98.7	98	-2 / 2	C
301		02/24/24	U25738		CH	17.0	110.3	18.2	108.9	128.7	6	98.7	98	-2 / 2	C
302		02/24/24	U25738		CH	17.0	110.3	18.1	108.7	128.4	6	98.5	98	-2 / 2	C
303		02/24/24	U25738		CH	17.0	110.3	18.5	108.8	128.9	6	98.6	98	-2 / 2	C
304		02/24/24	U25738		CH	17.0	110.3	17.8	108.3	127.6	6	98.2	98	-2 / 2	C
305		02/24/24	U25738		CH	17.0	110.3	18.2	108.4	128.1	6	98.3	98	-2 / 2	C
306		02/24/24	U25738		CH	17.0	110.3	18.6	108.7	128.9	6	98.5	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
299	Sewer Main: Line A STA 4+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
300	Sewer Main: Line A STA 2+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
301	Sewer Main: Line A STA 6+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
302	Sewer Main: Line A STA 4+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
303	Sewer Main: Line A STA 2+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
304	Sewer Main: Line A STA 2+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
305	Sewer Main: Line A STA 4+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
306	Sewer Main: Line A STA 6+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
129		02/08/24	U25977		CH	19.4	105.0	18.1	103.4	122.1	6	98.5	98	-2 / 2	C
130		02/08/24	U25977		CH	19.4	105.0	18.4	104.5	123.7	6	99.5	98	-2 / 2	C
131		02/08/24	U25977		CH	19.4	105.0	18.1	103.6	122.4	6	98.7	98	-2 / 2	C
132		02/08/24	U25977		CH	19.4	105.0	17.8	103.9	122.4	6	99.0	98	-2 / 2	C
133		02/08/24	U25977		CH	19.4	105.0	18.6	103.7	123.0	6	98.8	98	-2 / 2	C
134		02/08/24	U25977		CH	19.4	105.0	18.3	103.8	122.8	6	98.9	98	-2 / 2	C
139		02/09/24	U25977		CH	19.4	105.0	20.3	103.1	124.0	6	98.2	98	-2 / 2	C
140		02/09/24	U25977		CH	19.4	105.0	20.5	103.5	124.7	6	98.6	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
129	Sewer Laterals: Line C STA 1+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
130	Sewer Laterals: Line C STA 1+80				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
131	Sewer Laterals: Line C STA 2+45				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
132	Sewer Laterals: Line C STA 2+80				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
133	Sewer Laterals: Line C STA 3+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
134	Sewer Laterals: Line C STA 4+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
139	Sewer Laterals: Line C STA 1+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
140	Sewer Laterals: Line C STA 1+80				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
141		02/09/24	U25977		CH	19.4	105.0	21.1	103.5	125.3	6	98.6	98	-2 / 2	C
142		02/09/24	U25977		CH	19.4	105.0	20.3	103.2	124.1	6	98.3	98	-2 / 2	C
143		02/09/24	U25977		CH	19.4	105.0	20.3	103.6	124.6	6	98.7	98	-2 / 2	C
144		02/09/24	U25977		CH	19.4	105.0	20.8	103.8	125.4	6	98.9	98	-2 / 2	C
152		02/10/24	U25977		CH	19.4	105.0	18.3	103.6	122.6	6	98.7	98	-2 / 2	C
153		02/10/24	U25977		CH	19.4	105.0	20.4	103.5	124.6	6	98.6	98	-2 / 2	C
154		02/10/24	U25977		CH	19.4	105.0	20.1	103.9	124.8	6	99.0	98	-2 / 2	C
156		02/12/24	U25977		CH	19.4	105.0	17.6	104.0	122.3	6	99.0	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
141	Sewer Laterals: Line C STA 2+45				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
142	Sewer Laterals: Line C STA 2+80				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
143	Sewer Laterals: Line C STA 3+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
144	Sewer Laterals: Line C STA 4+50				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 551			Villarreal Sr., Robert			
152	Sewer Laterals: Line E STA 1+91				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
153	Sewer Laterals: Line E STA 2+72				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
154	Sewer Laterals: Line E STA 3+52				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
156	Sewer Laterals: Line E STA 1+91				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
157		02/12/24	U25977		CH	19.4	105.0	17.8	103.4	121.8	6	98.5	98	-2 / 2	C
158		02/12/24	U25977		CH	19.4	105.0	17.4	103.9	122.0	6	99.0	98	-2 / 2	C
160		02/12/24	U25977		CH	19.4	105.0	18.1	103.4	122.1	6	98.5	98	-2 / 2	C
161		02/12/24	U25977		CH	19.4	105.0	18.1	103.7	122.5	6	98.8	98	-2 / 2	C
162		02/12/24	U25977		CH	19.4	105.0	18.2	103.5	122.3	6	98.6	98	-2 / 2	C
164		02/12/24	U25977		CH	19.4	105.0	18.1	103.0	121.6	6	98.1	98	-2 / 2	C
165		02/12/24	U25977		CH	19.4	105.0	18.0	103.5	122.1	6	98.6	98	-2 / 2	C
166		02/12/24	U25977		CH	19.4	105.0	18.3	103.2	122.1	6	98.3	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
157	Sewer Laterals: Line E STA 2+72				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
158	Sewer Laterals: Line E STA 3+52				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
160	Sewer Laterals: Line F STA 4+00				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
161	Sewer Laterals: Line F STA 3+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
162	Sewer Laterals: Line F STA 2+50				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
164	Sewer Laterals: Line F STA 4+00				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
165	Sewer Laterals: Line F STA 3+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
166	Sewer Laterals: Line F STA 2+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
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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12028 Radium
San Antonio, TX 78216
Phone: 210-525-9033

Compaction Evaluation

Report Date: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
168		02/12/24	U25977		CH	19.4	105.0	19.1	102.9	122.6	6	98.0	98	-2 / 2	C
169		02/12/24	U25977		CH	19.4	105.0	18.8	103.2	122.6	6	98.3	98	-2 / 2	C
170		02/12/24	U25977		CH	19.4	105.0	18.2	103.1	121.9	6	98.2	98	-2 / 2	C
173		02/13/24	U25977		CH	19.4	105.0	17.9	103.5	122.0	6	98.6	98	-2 / 2	C
174		02/13/24	U25977		CH	19.4	105.0	17.5	103.4	121.5	6	98.5	98	-2 / 2	C
175		02/13/24	U25977		CH	19.4	105.0	17.4	103.4	121.4	6	98.5	98	-2 / 2	C
176		02/13/24	U25977		CH	19.4	105.0	17.5	103.6	121.7	6	98.7	98	-2 / 2	C
177		02/13/24	U25977		CH	19.4	105.0	17.4	103.2	121.2	6	98.3	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
168	Sewer Laterals: Line E STA 1+91				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
169	Sewer Laterals: Line E STA 2+72				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
170	Sewer Laterals: Line E STA 3+52				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 550			Villarreal Sr., Robert			
173	Sewer Laterals: Line B STA 8+19				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
174	Sewer Laterals: Line B STA 8+98				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
175	Sewer Laterals: Line B STA 9+77				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
176	Sewer Laterals: Line B STA 11+16				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
177	Sewer Laterals: Line B STA 11+89				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

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MEH Holding Company LTD
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Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
179		02/13/24	U25977		CH	19.4	105.0	17.5	103.4	121.5	6	98.5	98	-2 / 2	C
180		02/13/24	U25977		CH	19.4	105.0	17.8	103.8	122.3	6	98.9	98	-2 / 2	C
181		02/13/24	U25977		CH	19.4	105.0	17.9	103.5	122.0	6	98.6	98	-2 / 2	C
182		02/13/24	U25977		CH	19.4	105.0	17.5	103.6	121.7	6	98.7	98	-2 / 2	C
183		02/13/24	U25977		CH	19.4	105.0	17.6	103.0	121.1	6	98.1	98	-2 / 2	C
185		02/13/24	U25977		CH	19.4	105.0	17.8	103.3	121.7	6	98.4	98	-2 / 2	C
186		02/13/24	U25977		CH	19.4	105.0	18.1	103.6	122.4	6	98.7	98	-2 / 2	C
187		02/13/24	U25977		CH	19.4	105.0	17.9	103.4	121.9	6	98.5	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
179	Sewer Laterals: Line B STA 8+19				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
180	Sewer Laterals: Line B STA 8+98				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
181	Sewer Laterals: Line B STA 9+77				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
182	Sewer Laterals: Line B STA 11+16				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
183	Sewer Laterals: Line B STA 11+89				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
185	Sewer Laterals: Line B STA 8+19				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
186	Sewer Laterals: Line B STA 8+98				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
187	Sewer Laterals: Line B STA 9+77				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
188		02/13/24	U25977		CH	19.4	105.0	18.2	103.9	122.8	6	99.0	98	-2 / 2	C
189		02/13/24	U25977		CH	19.4	105.0	18.2	103.5	122.3	6	98.6	98	-2 / 2	C
194		02/14/24	U25977		CH	19.4	105.0	18.1	103.2	121.9	6	98.3	98	-2 / 2	C
195		02/14/24	U25977		CH	19.4	105.0	18.1	103.3	122.0	6	98.4	98	-2 / 2	C
196		02/14/24	U25977		CH	19.4	105.0	18.2	103.3	122.1	6	98.4	98	-2 / 2	C
197		02/14/24	U25977		CH	19.4	105.0	18.0	103.5	122.1	6	98.6	98	-2 / 2	C
198		02/14/24	U25977		CH	19.4	105.0	18.2	103.4	122.2	6	98.5	98	-2 / 2	C
199		02/14/24	U25977		CH	19.4	105.0	18.1	103.6	122.4	6	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
188	Sewer Laterals: Line B STA 11+16				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
189	Sewer Laterals: Line B STA 11+89				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 556			Villarreal Sr., Robert			
194	Sewer Laterals: Line B STA 1+52				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
195	Sewer Laterals: Line B STA 2+70				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
196	Sewer Laterals: Line B STA 4+95				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
197	Sewer Laterals: Line B STA 5+76				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
198	Sewer Laterals: Line B STA 6+56				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
199	Sewer Laterals: Line B STA 7+36				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
202		02/14/24	U25977		CH	19.4	105.0	18.2	103.5	122.3	6	98.6	98	-2 / 2	C
203		02/14/24	U25977		CH	19.4	105.0	18.5	103.6	122.8	6	98.7	98	-2 / 2	C
204		02/14/24	U25977		CH	19.4	105.0	18.8	103.6	123.1	6	98.7	98	-2 / 2	C
205		02/14/24	U25977		CH	19.4	105.0	18.2	103.8	122.7	6	98.9	98	-2 / 2	C
206		02/14/24	U25977		CH	19.4	105.0	18.5	103.5	122.6	6	98.6	98	-2 / 2	C
207		02/14/24	U25977		CH	19.4	105.0	17.9	103.6	122.1	6	98.7	98	-2 / 2	C
210		02/15/24	U25977		CH	19.4	105.0	19.3	103.8	123.8	6	98.9	98	-2 / 2	C
211		02/15/24	U25977		CH	19.4	105.0	18.4	103.5	122.5	6	98.6	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard				Field Technician		
202	Sewer Laterals: Line B STA 1+52				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
203	Sewer Laterals: Line B STA 2+70				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
204	Sewer Laterals: Line B STA 4+95				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
205	Sewer Laterals: Line B STA 5+76				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
206	Sewer Laterals: Line B STA 6+56				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
207	Sewer Laterals: Line B STA 7+36				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 550				Villarreal Sr., Robert		
210	Sewer Laterals: Line B STA 1+52				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
211	Sewer Laterals: Line B STA 2+70				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555				Villarreal Sr., Robert		
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
212		02/15/24	U25977		CH	19.4	105.0	19.2	104.0	124.0	6	99.0	98	-2 / 2	C
213		02/15/24	U25977		CH	19.4	105.0	18.8	103.6	123.1	6	98.7	98	-2 / 2	C
214		02/15/24	U25977		CH	19.4	105.0	18.1	103.6	122.4	6	98.7	98	-2 / 2	C
215		02/15/24	U25977		CH	19.4	105.0	17.9	103.5	122.0	6	98.6	98	-2 / 2	C
218		02/16/24	U25977		CH	19.4	105.0	21.2	103.6	125.6	6	98.7	98	-2 / 2	C
219		02/16/24	U25977		CH	19.4	105.0	20.2	103.3	124.2	6	98.4	98	-2 / 2	C
220		02/16/24	U25977		CH	19.4	105.0	21.1	103.8	125.7	6	98.9	98	-2 / 2	C
221		02/16/24	U25977		CH	19.4	105.0	21.3	103.7	125.8	6	98.8	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
212	Sewer Laterals: Line B STA 4+95				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555			Villarreal Sr., Robert			
213	Sewer Laterals: Line B STA 5+76				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555			Villarreal Sr., Robert			
214	Sewer Laterals: Line B STA 6+56				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555			Villarreal Sr., Robert			
215	Sewer Laterals: Line B STA 7+36				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1615 / 555			Villarreal Sr., Robert			
218	Sewer Laterals: Line A STA 8+46				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555			Villarreal Sr., Robert			
219	Sewer Laterals: Line A STA 9+24				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555			Villarreal Sr., Robert			
220	Sewer Laterals: Line A STA 11+24				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555			Villarreal Sr., Robert			
221	Sewer Laterals: Line A STA 12+05				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1610 / 555			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
224		02/17/24	U25977		CH	19.4	105.0	20.4	103.2	124.3	6	98.3	98	-2 / 2	C
225		02/17/24	U25977		CH	19.4	105.0	21.3	103.8	125.9	6	98.9	98	-2 / 2	C
226		02/17/24	U25977		CH	19.4	105.0	20.9	103.3	124.9	6	98.4	98	-2 / 2	C
227		02/17/24	U25977		CH	19.4	105.0	20.7	103.7	125.2	6	98.8	98	-2 / 2	C
234		02/19/24	U25738		CH	17.0	110.3	15.4	108.1	124.7	6	98.0	98	-2 / 2	C
235		02/19/24	U25738		CH	17.0	110.3	15.6	108.9	125.9	6	98.7	98	-2 / 2	C
236		02/19/24	U25738		CH	17.0	110.3	15.7	108.8	125.9	6	98.6	98	-2 / 2	C
237		02/19/24	U25738		CH	17.0	110.3	15.1	108.3	124.7	6	98.2	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
224	Sewer Laterals: Line A STA 8+46				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550			Villarreal Sr., Robert			
225	Sewer Laterals: Line A STA 9+24				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550			Villarreal Sr., Robert			
226	Sewer Laterals: Line A STA 11+24				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550			Villarreal Sr., Robert			
227	Sewer Laterals: Line A STA 12+05				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 550			Villarreal Sr., Robert			
234	Sewer Laterals: Line A STA 8+03				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
235	Sewer Laterals: Line A STA 8+85				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
236	Sewer Laterals: Line A STA 10+24				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
237	Sewer Laterals: Line A STA 11+64				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
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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12028 Radium
San Antonio, TX 78216
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Compaction Evaluation

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Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
238		02/19/24	U25738		CH	17.0	110.3	15.2	109.1	125.7	6	98.9	98	-2 / 2	C
255		02/20/24	U25977		CH	19.4	105.0	18.5	103.3	122.4	6	98.4	98	-2 / 2	C
256		02/20/24	U25977		CH	19.4	105.0	18.1	103.1	121.8	6	98.2	98	-2 / 2	C
257		02/20/24	U25977		CH	19.4	105.0	18.8	103.2	122.6	6	98.3	98	-2 / 2	C
258		02/20/24	U25977		CH	19.4	105.0	18.1	103.1	121.8	6	98.2	98	-2 / 2	C
259		02/20/24	U25977		CH	19.4	105.0	18.2	103.7	122.6	6	98.8	98	-2 / 2	C
260		02/20/24	U25977		CH	19.4	105.0	18.8	103.5	123.0	6	98.6	98	-2 / 2	C
261		02/20/24	U25977		CH	19.4	105.0	18.6	103.6	122.9	6	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
238	Sewer Laterals: Line A STA 12+45				3rd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 550			Villarreal Sr., Robert			
255	Sewer Laterals: Line G STA 2+93				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
256	Sewer Laterals: Line G STA 3+72				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
257	Sewer Laterals: Line G STA 4+53				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
258	Sewer Laterals: Line G STA 5+53				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
259	Sewer Laterals: Line G STA 5+58				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
260	Sewer Laterals: Line G STA 4+78				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
261	Sewer Laterals: Line G STA 3+27				1st Lift	Troxler / 3430 / 30173 / 07/26/2023			1605 / 555			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
5210 Thousand Oaks, Suite 1318
San Antonio, TX 78233

Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
272		02/21/24	U25977		CH	19.4	105.0	19.2	103.8	123.7	6	98.9	98	-2 / 2	C
273		02/21/24	U25977		CH	19.4	105.0	18.5	103.3	122.4	6	98.4	98	-2 / 2	C
274		02/21/24	U25977		CH	19.4	105.0	18.1	103.4	122.1	6	98.5	98	-2 / 2	C
275		02/21/24	U25977		CH	19.4	105.0	18.5	103.5	122.6	6	98.6	98	-2 / 2	C
307		02/08/24	U25977		CH	19.4	105.0	18.1	104.2	123.1	6	99.2	98	-2 / 2	C
308		02/08/24	U25977		CH	19.4	105.0	17.6	103.4	121.6	6	98.5	98	-2 / 2	C
309		02/08/24	U25977		CH	19.4	105.0	17.5	103.6	121.7	6	98.7	98	-2 / 2	C
310		02/08/24	U25977		CH	19.4	105.0	17.5	103.7	121.8	6	98.8	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference	Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician			
272	Sewer Laterals: Line G STA 3+32				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
273	Sewer Laterals: Line G STA 4+13				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
274	Sewer Laterals: Line G STA 5+33				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
275	Sewer Laterals: Line G STA 6+12				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1600 / 555			Villarreal Sr., Robert			
307	Sewer Laterals: Line C STA 1+50				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
308	Sewer Laterals: Line C STA 1+80				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
309	Sewer Laterals: Line C STA 2+45				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
310	Sewer Laterals: Line C STA 2+80				2nd Lift	Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert			
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: 02/14/2025
Test Method: ASTM D6938, Tex 115E

Client:

MEH Holding Company LTD
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Project:

S232134
Gates Subdivision Unit 2
29.381265682887246, -98.32008373231879
Bexar County, 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. (%)	Optimum Moisture Tolerance (%)	Remark
311		02/08/24	U25977		CH	19.4	105.0	18.2	103.9	122.8	6	99.0	98	-2 / 2	C
312		02/08/24	U25977		CH	19.4	105.0	18.1	103.6	122.4	6	98.7	98	-2 / 2	C
Test Information															
Test #	Test Location			Elevation	Reference		Gauge Specs Make / Model / SN / Calibrated			Gauge Standardization Density Standard/Moisture Standard			Field Technician		
311	Sewer Laterals: Line C STA 3+50				2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert		
312	Sewer Laterals: Line C STA 4+50				2nd Lift		Troxler / 3430 / 30173 / 07/26/2023			1595 / 555			Villarreal Sr., Robert		
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.