



Entech Engineering
505 Elkton Dr.
Colorado Springs, CO 80907
Phone: 719-531-5599

Soil Density Report

Client:

Flying Horse Development, LLC
2138 Flying Horse Club Drive
Colorado Springs, CO 80921

Project:

241421
Flying Horse North F5
Flying Horse North F5
Colorado Springs, CO

Test Results

Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 / 1	Storm Water: Culvert 2, STA 1 + 20.	2	Below Grade	06/24/2025	P1	7.9	122.1	97	95	-2 / 2	DPMP		MS
2 / 2	Storm Water: Culvert 2, STA 1 + 50.	-	At Grade	06/24/2025	P1	8.0	122.7	98	95	-2 / 2	DPMP		MS
3 / 3	Storm Water: Culvert 1, STA 1 + 15.	-	At Grade	06/27/2025	P1	7.6	122.0	97	95	-2 / 2	DPMP		MS
4 / 25	Storm Water: Culvert 4, STA 0 + 75.	-	At Grade	07/17/2025	P1	9.0	120.7	96	95	-2 / 2	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P1	ASTM D1557 - A	SM	9.3	125.6



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Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
1 / 4	Overlot: STA 20 + 00 on Sandbagger Dr.	8	Below Grade	06/30/2025	P1	8.3	122.1	97	95	-2 / 2	DPMP		MS
2 / 5	Overlot: STA 21 + 50 on Sandbagger Dr.	8	Below Grade	06/30/2025	P1	9.0	123.3	98	95	-2 / 2	DPMP		MS
3 / 6	Overlot: STA 23 + 00 on Sandbagger Dr.	8	Below Grade	06/30/2025	P2	7.3	122.8	96	95	-2 / 2	DPMP		MS
4 / 7	Overlot: STA 17 + 50 on Sandbagger Dr.	6	Below Grade	07/01/2025	P2	7.0	122.9	96	95	-2 / 2	DPMP		MS
5 / 8	Overlot: STA 18 + 50 on Sandbagger Dr.	6	Below Grade	07/01/2025	P2	7.2	123.6	96	95	-2 / 2	DPMP		MS
6 / 9	Overlot: STA 19 + 25 on Sandbagger Dr.	6	Below Grade	07/02/2025	P2	6.8	123.3	96	95	-2 / 2	DPMP		MS
7 / 10	Overlot: STA 20 + 00 on Sandbagger Dr.	6	Below Grade	07/02/2025	P1	8.2	121.1	96	95	-2 / 2	DPMP		MS
8 / 11	Overlot: STA 21 + 50 on Sandbagger Dr.	6	Below Grade	07/02/2025	P2	6.9	124.1	97	95	-2 / 2	DPMP		MS
9 / 12	Overlot: STA 23 + 00 on Sandbagger Dr.	6	Below Grade	07/02/2025	P2	7.3	124.6	97	95	-2 / 2	DPMP		MS
10 / 13	Overlot: STA 14 + 00 on Rough Trail, 20' north of the edge of the road.	4	Below Grade	07/08/2025	P1	8.8	122.4	98	95	-2 / 2	DPMP		MS
11 / 14	Overlot: STA 15 + 50 on Rough Trail, northern edge of the cul-de-sac.	7	Below Grade	07/08/2025	P1	10.1	122.1	97	95	-2 / 2	DPMP		MS
12 / 15	Overlot: STA 16 + 50 on Rough Trail, southern edge of the cul-de-sac.	7	Below Grade	07/08/2025	P1	9.6	122.5	98	95	-2 / 2	DPMP		MS
13 / 16	Overlot: STA 15 + 00 on Rough Trail	3	Below Grade	07/09/2025	P1	8.4	122.6	98	95	-2 / 2	DPMP		MS
14 / 17	Overlot: STA 16 + 50 on Rough Trail, southwestern edge of the cul-de-sac.	6	Below Grade	07/09/2025	P1	9.0	123.0	98	95	-2 / 2	DPMP		MS
15 / 18	Overlot: STA 16 + 50 on Rough Trail, northern edge of the cul-de-sac.	6	Below Grade	07/09/2025	P1	8.9	123.1	98	95	-2 / 2	DPMP		MS



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16 / 19	Overlot: STA 16 + 50 on Rough Trail, northwestern edge of the cul-de-sac.	5	Below Grade	07/11/2025	P1	8.4	122.2	97	95	-2 / 2	DPMP		MS
17 / 20	Overlot: STA 16 + 50 on Rough Trail, southern edge of the cul-de-sac.	5	Below Grade	07/11/2025	P1	8.8	121.9	97	95	-2 / 2	DPMP		MS
18 / 21	Overlot: STA 16 + 50 on Rough Trail, center of the cul-de-sac.	5	Below Grade	07/11/2025	P1	8.6	121.9	97	95	-2 / 2	DPMP		MS
19 / 22	Overlot: STA 22 + 00 on Sandbagger Dr.	5	Below Grade	07/17/2025	P2	5.9	124.1	97	95	-2 / 2	DPMP		MS
20 / 23	Overlot: STA 19 + 50 on Sandbagger Dr.	5	Below Grade	07/17/2025	P1	8.6	121.9	97	95	-2 / 2	DPMP		MS
21 / 24	Overlot: STA 18 + 00 on Sandbagger Dr.	5	Below Grade	07/17/2025	P1	8.8	121.3	97	95	-2 / 2	DPMP		MS
22 / 26	Overlot: STA 16 + 50 on Rough Trail, northern edge of the cul-de-sac.	3	Below Grade	07/17/2025	P1	8.6	122.4	98	95	-2 / 2	DPMP		MS
23 / 27	Overlot: STA 16 + 50 on Rough Trail, southern edge of the cul-de-sac.	3	Below Grade	07/17/2025	P1	8.1	120.7	96	95	-2 / 2	DPMP		MS
24 / 28	Overlot: STA 22 + 00 on Sandbagger Dr.	3	Below Grade	07/18/2025	P1	9.0	120.4	96	95	-2 / 2	DPMP		MS
25 / 29	Overlot: STA 20 + 00 on Sandbagger Dr.	3	Below Grade	07/18/2025	P1	8.2	119.8	95	95	-2 / 2	DPMP		MS
26 / 30	Overlot: STA 16 + 50 on Rough Trail, northern edge of the cul-de-sac.	1	Below Grade	07/18/2025	P2	6.8	122.8	96	95	-2 / 2	DPMP		MS
27 / 31	Overlot: STA 15 + 50 on Rough Trail	1	Below Grade	07/18/2025	P2	7.5	123.2	96	95	-2 / 2	DPMP		MS
28 / 32	Overlot: STA 18 + 00 on Sandbagger Dr.	3	Below Grade	07/18/2025	P1	9.0	122.4	98	95	-2 / 2	DPMP		MS
29 / 33	Overlot: STA 16 + 50 on Rough Trail, northern edge of the cul-de-sac.	-	At Grade	07/21/2025	P2	7.2	123.1	96	95	-2 / 2	DPMP		MS
30 / 34	Overlot: STA 16 + 50 on Rough Trail, southern edge of the cul-de-sac.	-	At Grade	07/21/2025	P2	6.8	124.2	97	95	-2 / 2	DPMP		MS
31 / 35	Overlot: STA 18 + 00 on Sandbagger Dr.	1	Below Grade	07/21/2025	P1	8.8	122.1	97	95	-2 / 2	DPMP		MS



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32 / 36	Overlot: STA 20 + 00 on Sandbagger Dr.	1	Below Grade	07/21/2025	P1	9.2	121.9	97	95	-2 / 2	DPMP		MS
33 / 37	Overlot: STA 22 + 00 on Sandbagger Dr.	1	Below Grade	07/21/2025	P1	8.6	121.8	97	95	-2 / 2	DPMP		MS
34 / 38	Overlot: STA 17 + 00 on Sandbagger Dr.	-	At Grade	07/22/2025	P1	8.7	121.1	96	95	-2 / 2	DPMP		MS
35 / 39	Overlot: STA 19 + 50 on Sandbagger Dr.	-	At Grade	07/22/2025	P1	9.0	120.9	96	95	-2 / 2	DPMP		MS
36 / 40	Overlot: STA 22 + 00 on Sandbagger Dr.	-	At Grade	07/22/2025	P1	8.8	122.4	98	95	-2 / 2	DPMP		MS
37 / 41	Overlot: STA 29 + 00 on Sandbagger Dr.	-	At Grade	07/24/2025	P1	8.6	121.4	97	95	-2 / 2	DPMP		MS
38 / 42	Overlot: STA 27 + 00 on Sandbagger Dr.	-	At Grade	07/24/2025	P1	8.1	120.9	96	95	-2 / 2	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P1	ASTM D1557 - A	SM	9.3	125.6
P2	ASTM D1557 - A	SM	7.1	128.4



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1 / 43	Roadway Subgrade: STA 16 + 50 on Rough Trail, center of the cul-de-sac.	-	At Grade	08/04/2025	P2	5.9	123.9	97	95	-2 / 2	DPMP		MS
2 / 44	Roadway Subgrade: STA 14 + 00 on Rough Trail, eastbound lane.	-	At Grade	08/04/2025	P2	6.6	125.6	98	95	-2 / 2	DPMP		MS
3 / 45	Roadway Subgrade: STA 11 + 50 on Rough Trail, westbound lane.	-	At Grade	08/04/2025	P2	8.2	124.5	97	95	-2 / 2	DPMP		MS
4 / 46	Roadway Subgrade: STA 33 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/04/2025	P2	6.3	123.9	97	95	-2 / 2	DPMP		MS
5 / 47	Roadway Subgrade: STA 31 + 00 on Sandbagger Dr., southbound lane.	-	At Grade	08/04/2025	P2	5.9	123.6	96	95	-2 / 2	DPMP		MS
6 / 48	Roadway Subgrade: STA 28 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/04/2025	P2	6.1	124.2	97	95	-2 / 2	DPMP		MS
7 / 49	Roadway Subgrade: STA 26 + 00 on Sandbagger Dr., southbound lane.	-	At Grade	08/04/2025	P2	6.0	124.4	97	95	-2 / 2	DPMP		MS
8 / 50	Roadway Subgrade: STA 23 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/04/2025	P2	6.8	123.9	97	95	-2 / 2	DPMP		MS
9 / 51	Roadway Subgrade: STA 21 + 00 on Sandbagger Dr., southbound lane.	-	At Grade	08/04/2025	P2	8.0	124.4	97	95	-2 / 2	DPMP		MS
10 / 52	Roadway Subgrade: STA 18 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/04/2025	P2	7.6	125.1	97	95	-2 / 2	DPMP		MS
11 / 53	Roadway Subgrade: STA 16 + 00 on Sandbagger Dr., southbound lane.	-	At Grade	08/04/2025	P2	8.0	125.6	98	95	-2 / 2	DPMP		MS
12 / 54	Roadway Subgrade: STA 13 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/04/2025	P2	7.3	125.5	98	95	-2 / 2	DPMP		MS
13 / 55	Roadway Subgrade: CTS, STA 34 + 00 on Sandbagger Dr., northbound lane.	-	At Grade	08/05/2025	P1	10.8	121.1	96	95	-2 / 2	DPMP		MS
14 / 56	Roadway Subgrade: CTS, STA 31 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/05/2025	P2	8.8	122.6	96	95	-2 / 2	DPMP		MS
15 / 57	Roadway Subgrade: CTS, STA 29 + 00 on Sandbagger Dr., northbound lane.	-	At Grade	08/05/2025	P2	9.0	123.1	96	95	-2 / 2	DPMP		MS



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Subject / Overall Test #	Test Location	Elevation (feet)	Reference	Test Date	Proctor ID	In Place Moist. (%)	In Place Dry Density (pcf)	Percent Comp.	Min Comp. (%)	Opt. Moisture Tolerance (%)	Rem. Code	Retest Of	Field Tech
16 / 58	Roadway Subgrade: CTS, STA 26 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/05/2025	P2	8.8	123.5	96	95	-2 / 2	DPMP		MS
17 / 59	Roadway Subgrade: CTS, STA 24 + 00 on Sandbagger Dr., northbound lane.	-	At Grade	08/05/2025	P2	8.7	124.1	97	95	-2 / 2	DPMP		MS
18 / 60	Roadway Subgrade: CTS, STA 21 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/05/2025	P2	8.8	123.9	97	95	-2 / 2	DPMP		MS
19 / 61	Roadway Subgrade: CTS, STA 19 + 00 on Sandbagger Dr., northbound lane.	-	At Grade	08/05/2025	P2	8.9	123.2	96	95	-2 / 2	DPMP		MS
20 / 62	Roadway Subgrade: CTS, STA 16 + 50 on Sandbagger Dr., southbound lane.	-	At Grade	08/05/2025	P2	8.6	123.6	96	95	-2 / 2	DPMP		MS
21 / 63	Roadway Subgrade: CTS, STA 16 + 50 on Rough Trail, center of the cul-de-sac.	-	At Grade	08/05/2025	P2	8.9	124.2	97	95	-2 / 2	DPMP		MS
22 / 64	Roadway Subgrade: CTS, STA 14 + 00 on Rough Trail, westbound lane.	-	At Grade	08/05/2025	P2	9.0	124.8	97	95	-2 / 2	DPMP		MS
23 / 65	Roadway Subgrade: CTS, STA 11 + 50 on Rough Trail, eastbound lane.	-	At Grade	08/05/2025	P2	8.7	124.0	97	95	-2 / 2	DPMP		MS
24 / 66	Roadway Subgrade: CTS, STA 14 + 00 on Sandbagger Dr., northbound lane.	-	At Grade	08/06/2025	P2	6.9	123.4	96	95	-2 / 2	DPMP		MS
25 / 67	Roadway Subgrade: CTS, STA 12 + 00 on Sandbagger Dr., southbound lane.	-	At Grade	08/06/2025	P2	7.6	124.2	97	95	-2 / 2	DPMP		MS
26 / 68	Roadway Subgrade: CTS, STA 11 + 50 on Sandbagger Dr., northbound lane.	-	At Grade	08/06/2025	P2	8.0	124.0	97	95	-2 / 2	DPMP		MS

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

Tests are "Direct Transmission" (Method A). Gauge calibration data on file with the testing Agency.

Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P2	ASTM D1557 - A	SM	7.1	128.4
P1	ASTM D1557 - A	SM	9.3	125.6

TABLE 1
SUMMARY OF CTS TEST RESULTS

FIELD SAMPLE ID	SOIL ADDITIVE	ADDITIVE PERCENTAGE (%)	WATER CONTENT (%)	DENSITY (dry)	AGE (days)	STRENGTH (psi)
SANDBAGGER DRIVE, STA 27+00	TYPE IL CEMENT	2	9.0	127.9	6	430
				129.0		430
				129.7		430
AVERAGE:						430
SANDBAGGER DRIVE, STA 13+00	TYPE IL CEMENT	2	6.9	130.2	5	430
				130.7		430
				130.1		430
AVERAGE:						430

Notes:

1. CURING METHOD: 100° HUMIDIFIED OVEN



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Density of Asphalt

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Test Results

Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
1	08/13/2025	Bottom Lift, Drive Lane: STA 16 + 50 on Rough Trail, center of the cul-de-sac.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.0	92	92 / 96	SP	MS	
2	08/13/2025	Bottom Lift, Drive Lane: STA 14 + 00 on Rough Trail, eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.2	93	92 / 96	SP	MS	
3	08/13/2025	Bottom Lift, Drive Lane: STA 11 + 50 on Rough Trail, westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.6	93	92 / 96	SP	MS	
4	08/14/2025	Bottom Lift, Drive Lane: STA 34 + 00 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	142.1	93	92 / 96	SP	MS	
5	08/14/2025	Bottom Lift, Drive Lane: STA 31 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.0	92	92 / 96	SP	MS	
6	08/14/2025	Bottom Lift, Drive Lane: STA 29 + 00 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	140.9	92	92 / 96	SP	MS	
7	08/14/2025	Bottom Lift, Drive Lane: STA 26 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.4	93	92 / 96	SP	MS	
8	08/14/2025	Bottom Lift, Drive Lane: STA 24 + 00 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	142.2	93	92 / 96	SP	MS	
9	08/14/2025	Bottom Lift, Drive Lane: STA 33 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	140.8	92	92 / 96	SP	MS	
10	08/14/2025	Bottom Lift, Drive Lane: STA 30 + 50 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.0	92	92 / 96	SP	MS	
11	08/14/2025	Bottom Lift, Drive Lane: STA 28 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.3	93	92 / 96	SP	MS	
12	08/14/2025	Bottom Lift, Drive Lane: STA 25 + 50 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.9	93	92 / 96	SP	MS	



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13	08/14/2025	Bottom Lift, Drive Lane: STA 21 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.4	93	92 / 96	SP	MS	
14	08/14/2025	Bottom Lift, Drive Lane: STA 19 + 00 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.7	93	92 / 96	SP	MS	
15	08/14/2025	Bottom Lift, Drive Lane: STA 16 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.2	93	92 / 96	SP	MS	
16	08/14/2025	Bottom Lift, Drive Lane: STA 23 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.2	93	92 / 96	SP	MS	
17	08/14/2025	Bottom Lift, Drive Lane: STA 20 + 50 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	141.3	93	92 / 96	SP	MS	
18	08/14/2025	Bottom Lift, Joint: STA 18 + 00 on Sandbagger Dr., northbound lane (longitudinal joint).	2.0	(1/2") GR SX(75) PG 64-22	152.5	139.8	92	92 / 96	SP	MS	
19	08/14/2025	Bottom Lift, Drive Lane: STA 15 + 50 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	152.5	142.1	93	92 / 96	SP	MS	
20	08/20/2025	Top Lift, Drive Lane: STA 34 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	141.7	93	92 / 96	SP	MS	
21	08/20/2025	Top Lift, Drive Lane: STA 31 + 50 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	144.4	94	92 / 96	SP	MS	
22	08/20/2025	Top Lift, Drive Lane: STA 29 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.8	94	92 / 96	SP	MS	
23	08/20/2025	Top Lift, Drive Lane: STA 26 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	144.9	95	92 / 96	SP	MS	
24	08/20/2025	Top Lift, Drive Lane: STA 24 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	140.9	92	92 / 96	SP	MS	
25	08/20/2025	Top Lift, Drive Lane: STA 21 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.7	94	92 / 96	SP	MS	



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Colorado Springs, CO

Test #	Test Date	Test Location	Lift Thickness (inches)	Mix Design	Max Density (pcf)	In Place Density (pcf)	Percent Comp.	Min/Max Comp. (%)	Rem. Code	Field Tech	Retest Of
26	08/20/2025	Top Lift, Drive Lane: STA 19 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	141.9	93	92 / 96	SP	MS	
27	08/20/2025	Top Lift, Drive Lane: STA 16 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	142.3	93	92 / 96	SP	MS	
28	08/20/2025	Top Lift, Drive Lane: STA 14 + 00 on Sandbagger Dr., northbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.3	94	92 / 96	SP	MS	
29	08/20/2025	Top Lift, Drive Lane: STA 11 + 50 on Sandbagger Dr., southbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.9	94	92 / 96	SP	MS	
30	08/20/2025	Top Lift, Drive Lane: STA 16 + 50 on Rough Trail, center of the cul-de-sac.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.8	94	92 / 96	SP	MS	
31	08/20/2025	Top Lift, Drive Lane: STA 14 + 00 on Rough Trail, eastbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	143.8	94	92 / 96	SP	MS	
32	08/20/2025	Top Lift, Drive Lane: STA 11 + 50 on Rough Trail, westbound lane.	2.0	(1/2") GR SX(75) PG 64-22	153.1	140.7	92	92 / 96	SP	MS	

Remarks

SP : Supplied Density Pass

Comments

Tests are determined using backscatter method.