



Soil Density Report

Client:

Hodgen Settlers Ranch LLC
 PO Box 1488
 Monument, CO 80132

Project:

230662
 Settlers Ranch F3
 Settlers Ranch F3
 Colorado Springs, CO

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

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
52 / 60	Roadway Subgrade: ABC, STA 21 + 00 on Boundary Basin Ct., southbound lane.	-	At Grade	10/30/2025	P8	3.6	132.4	96	95	-2 / 2	DPMP		JB
53 / 61	Roadway Subgrade: ABC, STA 19 + 00 on Boundary Basin Ct., northbound lane.	-	At Grade	10/30/2025	P8	3.4	133.4	96	95	-2 / 2	DPMP		JB
54 / 62	Roadway Subgrade: ABC, STA 17 + 00 on Boundry Basin Ct., southbound lane.	-	At Grade	10/30/2025	P8	4.5	132.4	96	95	-2 / 2	DPMP		JB
55 / 63	Roadway Subgrade: ABC, STA 15 + 00 on Boundary Basin Ct., northbound lane.	-	At Grade	10/30/2025	P8	3.8	135.2	98	95	-2 / 2	DPMP		JB
56 / 64	Roadway Subgrade: ABC, STA 71 + 00 on Settlers Ranch Rd., westbound lane.	-	At Grade	10/30/2025	P8	3.9	135.0	97	95	-2 / 2	DPMP		JB
57 / 65	Roadway Subgrade: ABC, STA 69 + 00 on Settlers Ranch Rd., eastbound lane.	-	At Grade	10/30/2025	P8	5.1	134.2	97	95	-2 / 2	DPMP		JB
58 / 66	Roadway Subgrade: ABC, STA 67 + 00 on Settlers Ranch Rd., westbound lane.	-	At Grade	10/30/2025	P8	4.4	137.2	99	95	-2 / 2	DPMP		JB
59 / 67	Roadway Subgrade: ABC, STA 65 + 00 on Settlers Ranch Rd., eastbound lane.	-	At Grade	10/30/2025	P8	4.4	134.2	97	95	-2 / 2	DPMP		JB
60 / 68	Roadway Subgrade: ABC, STA 63 + 00 on Settlers Ranch Rd., westbound lane.	-	At Grade	10/30/2025	P8	4.3	133.5	96	95	-2 / 2	DPMP		JB
61 / 69	Roadway Subgrade: ABC, STA 61 + 00 on Settlers Ranch Rd., eastbound lane.	-	At Grade	10/30/2025	P8	5.2	133.8	97	95	-2 / 2	DPMP		JB
62 / 70	Roadway Subgrade: ABC, STA 59 + 00 on Settlers Ranch Rd., westbound lane.	-	At Grade	10/30/2025	P8	4.7	132.8	96	95	-2 / 2	DPMP		JB
63 / 71	Roadway Subgrade: ABC, STA 56 + 50 on Settlers Ranch Rd., eastbound lane.	-	At Grade	10/30/2025	P8	3.9	138.2	100	95	-2 / 2	DPMP		JB
64 / 72	Roadway Subgrade: ABC, STA 54 + 00 on Settlers Ranch Rd., westbound lane.	-	At Grade	10/30/2025	P8	4.1	132.6	96	95	-2 / 2	DPMP		JB
65 / 73	Roadway Subgrade: ABC, STA 51 + 50 on Settlers Ranch Rd., eastbound lane.	-	At Grade	10/30/2025	P8	4.5	134.3	97	95	-2 / 2	DPMP		JB

Remarks

DP/MP : Density Pass / Moisture Pass

Comments

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



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Proctor Data

Proctor ID	Method	Soil Classification	Optimum Moisture (%)	Maximum Dry Density (pcf)
P8		Cl s 6 ABC	5	138.6

11/11/2025

Reviewed by: Joey Goode, PE



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26 / 34	Roadway Subgrade: STA 20 + 00 on Boundary Basin Ct., center of the cul-de-sac, 6' east of the curb.	-	At Grade	10/27/2025	P5	6.4	120.9	97	95	-2 / 2	DPMP		BF
27 / 35	Roadway Subgrade: STA 20 + 00 on Boundary Basin Ct., southbound lane, 7' east of the curb.	-	At Grade	10/27/2025	P5	6.4	122.1	97	95	-2 / 2	DPMP		BF
28 / 36	Roadway Subgrade: STA 19 + 50 on Boundary Basin Ct., northbound lane, 6' west of the curb.	-	At Grade	10/27/2025	P5	6.5	120.8	96	95	-2 / 2	DPMP		BF
29 / 37	Roadway Subgrade: STA 17 + 00 on Boundary Basin Ct., southbound lane, 5' east of the curb.	-	At Grade	10/27/2025	P5	6.5	120.0	96	95	-2 / 2	DPMP		BF
30 / 38	Roadway Subgrade: STA 17 + 50 on Boundary Basin Ct., northbound lane, 5' west of the curb.	-	At Grade	10/27/2025	P5	6.4	120.8	96	95	-2 / 2	DPMP		BF
31 / 39	Roadway Subgrade: STA 14 + 50 on Boundary Basin Ct., northbound lane, 5' west of the curb.	-	At Grade	10/27/2025	P5	5.9	121.0	97	95	-2 / 2	DPMP		BF
32 / 40	Roadway Subgrade: STA 15 + 00 on Boundary Basin Ct., southbound lane, 6' east of the curb.	-	At Grade	10/27/2025	P5	5.4	118.9	95	95	-2 / 2	DPMP		BF
33 / 41	Roadway Subgrade: STA 12 + 50 on Boundary Basin Ct., southbound lane, 6' east of the curb.	-	At Grade	10/27/2025	P5	5.6	118.5	95	95	-2 / 2	DPMP		BF
34 / 42	Roadway Subgrade: STA 12 + 00 on Boundary Basin Ct., northbound lane, 5' west of the curb.	-	At Grade	10/27/2025	P5	6.8	118.8	95	95	-2 / 2	DPMP		BF
35 / 43	Roadway Subgrade: STA 52 + 00 on Settlers Ranch Rd., eastbound lane, 5' north of the curb.	-	At Grade	10/27/2025	P4	10.4	110.6	96	95	-2 / 2	DPMP		BF
36 / 44	Roadway Subgrade: STA 53 + 00 on Settlers Ranch Rd., westbound lane, 4' south of the curb.	-	At Grade	10/27/2025	P5	6.6	119.0	95	95	-2 / 2	DPMP		BF
37 / 45	Roadway Subgrade: STA 55 + 50 on Settlers Ranch Rd., eastbound lane, 4' north of the curb.	-	At Grade	10/27/2025	P5	6.0	119.8	96	95	-2 / 2	DPMP		BF
38 / 46	Roadway Subgrade: STA 55 + 00 on Settlers Ranch Rd., westbound lane, 4' south of the curb.	-	At Grade	10/27/2025	P5	6.3	120.2	96	95	-2 / 2	DPMP		BF
39 / 47	Roadway Subgrade: STA 58 + 50 on Settlers Ranch Rd., eastbound lane, 4' south of the curb.	-	At Grade	10/27/2025	P4	10.8	111.9	97	95	-2 / 2	DPMP		BF
40 / 48	Roadway Subgrade: STA 58 + 00 on Settlers Ranch Rd., westbound lane, 5' south of the curb.	-	At Grade	10/27/2025	P4	10.5	113.1	98	95	-2 / 2	DPMP		BF



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41 / 49	Roadway Subgrade: STA 60 + 00 on Settlers Ranch Rd., eastbound lane, 5' north of the curb.	-	At Grade	10/27/2025	P4	10.6	109.0	94	95	-2 / 2	DFMP		BF
42 / 50	Roadway Subgrade: STA 60 + 50 on Settlers Ranch Rd., westbound lane, 6' south of the curb.	-	At Grade	10/27/2025	P4	6.8	115.8	100	95	-2 / 2	DPMP		BF
43 / 51	Roadway Subgrade: STA 62 + 50 on Settlers Ranch Rd., eastbound lane, 6' north of the curb.	-	At Grade	10/27/2025	P5	6.8	119.2	95	95	-2 / 2	DPMP		BF
44 / 52	Roadway Subgrade: STA 63 + 00 on Settlers Ranch Rd., westbound lane, 6' south of the curb.	-	At Grade	10/27/2025	P5	7.2	118.5	95	95	-2 / 2	DPMP		BF
45 / 53	Roadway Subgrade: STA 65 + 00 on Settlers Ranch Rd., eastbound lane, 6' north of the curb.	-	At Grade	10/27/2025	P5	7.6	118.9	95	95	-2 / 2	DPMP		BF
46 / 54	Roadway Subgrade: STA 65 + 50 on Settlers Ranch Rd., westbound lane, 6' south of the curb.	-	At Grade	10/27/2025	P5	7.6	119.0	95	95	-2 / 2	DPMP		BF
47 / 55	Roadway Subgrade: STA 67 + 50 on Settlers Ranch Rd., eastbound lane, 4' north of the curb.	-	At Grade	10/27/2025	P5	5.2	119.7	96	95	-2 / 2	DPMP		BF
48 / 56	Roadway Subgrade: STA 70 + 00 on Settlers Ranch Rd., eastbound lane, 5' north of the curb.	-	At Grade	10/27/2025	P5	6.0	118.9	95	95	-2 / 2	DPMP		BF
49 / 57	Roadway Subgrade: STA 72 + 00 on Settlers Ranch Rd., eastbound lane, 4' north of the curb.	-	At Grade	10/27/2025	P5	5.6	119.6	96	95	-2 / 2	DPMP		BF
50 / 58	Roadway Subgrade: STA 68 + 00 on Settlers Ranch Rd., westbound lane, 5' south of the curb.	-	At Grade	10/27/2025	P5	5.2	120.5	96	95	-2 / 2	DPMP		BF
51 / 59	Roadway Subgrade: STA 72 + 00 on Settlers Ranch Rd., westbound lane, 6' south of the curb.	-	At Grade	10/27/2025	P5	5.6	120.7	96	95	-2 / 2	DPMP		BF

Remarks

DP/MP : Density Pass / Moisture Pass
 DF/MP : Density Fail / Moisture Pass
 DP/MF : Density Pass / Moisture Fail

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)
P5	ASTM D1557 - A	SM	6.6	125.3
P4	ASTM D698 - A	SC	12.2	115.7



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A handwritten signature in blue ink, appearing to read "Joey Goode".

11/05/2025

Reviewed by: Joey Goode, PE



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23 / 31	Roadway Subgrade: STA 59 + 25 on Settlers Ranch Rd., westbound lane.	4	Below Grade	08/11/2025	P4	10.5	110.9	96	95	-2 / 2	DPMP		BF
24 / 32	Roadway Subgrade: STA 59 + 09 on Settlers Ranch Rd., eastbound lane, 7' north of future curb.	2	Below Grade	08/13/2025	P3	9.5	119.3	98	95	-2 / 2	DPMP		BF
25 / 33	Roadway Subgrade: STA 59 + 19 on Settlers Ranch Rd., eastbound lane, 6' north of proposed edge of pavement.	-	At Grade	08/18/2025	P4	12.7	111.2	96	95	-2 / 2	DPMP		BF

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)
P4	ASTM D698 - A	SC	12.2	115.7
P3	ASTM D1557 - A	SC	8.1	122.1

08/23/2025

Reviewed by: Joey Goode, PE