



**Cole Garner Geotechnical**  
 1070 West 124th Ave  
 Suite 300  
 Westminster, CO 80234  
 Phone: 303.996.2999

# Soil Nuclear Gauge

**Report Date:** 9/9/2020  
**Test Method:** ASTM D 6938

**Client:**  
 KB Home Colorado Inc.  
 7807 East Peakview Avenue, Suite 300  
 Centennial, CO 80111

**Project:**  
 19.23.042  
 Trails at Crowfoot  
 Crowfoot Valley Road and Bayou Gulch Road  
 Parker, CO

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
738		6/24/20	4533	A	A-7	17.1	111.6	17.6	110.0	129.4	8	99	95	DP/MP
739		6/24/20	4533	A	A-7	17.1	111.6	19.0	106.9	127.2	8	96	95	DP/MP
740		6/24/20	4533	A	A-7	17.1	111.6	18.2	108.7	128.5	8	97	95	DP/MP
741		6/24/20	4533	A	A-7	17.1	111.6	17.9	109.2	128.7	8	98	95	DP/MP
742		6/24/20	4533	A	A-7	17.1	111.6	19.0	107.7	128.2	8	97	95	DP/MP
743		6/24/20	4533	A	A-7	17.1	111.6	19.1	107.4	127.9	8	96	95	DP/MP
744		6/24/20	4533	A	A-7	17.1	111.6	18.5	108.4	128.5	8	97	95	DP/MP
745		6/24/20	4533	A	A-7	17.1	111.6	18.8	107.5	127.7	8	96	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
738	21 - Pavement Subgrade: Blue Heart Ct. East of Block 1 Lot 18 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
739	21 - Pavement Subgrade: Rock Daisy St. South of Tract J, 10' West of Alpine Phlox St. Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
740	21 - Pavement Subgrade: Rock Daisy St. East of Block 1 Lot 14 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
741	21 - Pavement Subgrade: Rock Daisy St. East of Block 1 Lot 8 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
742	21 - Pavement Subgrade: Rock Daisy St. East of Block 1 Lot 2 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
743	21 - Pavement Subgrade: Mock Orange Ave. North of Block 2 Lot 2 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
744	21 - Pavement Subgrade: Mock Orange Way West of Block 1 Lot 26 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
745	21 - Pavement Subgrade: Mock Orange Ct. West of Block 1 Lot 29 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff

Remarks	Comments
DP/MP: Density Pass / Moisture Pass	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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746		6/25/20	4559	A	A-7	17.0	110.2	18.4	106.3	125.8	8	96	95	DP/MP
747		6/25/20	4559	A	A-7	17.0	110.2	18.2	106.9	126.3	8	97	95	DP/MP
748		6/25/20	4559	A	A-7	17.0	110.2	18.5	106.3	126.0	8	96	95	DP/MP
749		6/29/20	4506	A	A-2	8.7	128.3	10.2	121.6	134.0	6	95	95	DP/MP
750		6/29/20	4506	A	A-2	8.7	128.3	10.0	122.2	134.4	6	95	95	DP/MP
751		6/29/20	4506	A	A-2	8.7	128.3	9.2	122.4	133.7	6	95	95	DP/MP
752		6/29/20	4506	A	A-2	8.7	128.3	9.7	122.8	134.7	6	96	95	DP/MP
753		6/29/20	4506	A	A-2	8.7	128.3	9.1	123.8	135.1	8	96	95	DP/MP

## Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
746	21 - Pavement Subgrade: West of Block 2 Lot 11 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
747	21 - Pavement Subgrade: West of Block 2 Lot 6 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
748	21 - Pavement Subgrade: South of Block 2 Lot 2 Filing 15	0.0	SG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
749	21 - Base Course: Curb & Gutter: South side of Rock Daisy Ct, 20' West of Alpine Phlox St.	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
750	21 - Base Course: Curb & Gutter: North side of Rock Daisy Ct, 60' West of Alpine Phlox St.	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
751	21 - Base Course: Curb & Gutter: North side of Mock Orange Ave., South of Block 1 Lot 22	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
752	21 - Base Course: Curb & Gutter: South side of Mock Orange Ave., North of Block 2 Lot 3	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
753	21 - Base Course: Pavement: Blue Heart Ct. From Tract D to Rock Daisy St., West of Block 1 Lot 20	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff

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754		6/29/20	4506	A	A-2	8.7	128.3	10.3	121.8	134.4	8	95	95	DP/MP
755		7/1/20	5717	C	A-1	11.4	118.5	11.1	117.5	130.5	8	99	95	DP/MP
756		7/1/20	5717	C	A-1	11.4	118.5	11.1	117.2	130.2	8	99	95	DP/MP
757		7/1/20	5717	C	A-1	11.4	118.5	10.1	117.6	129.5	6	99	95	DP/MP
758		7/1/20	5717	C	A-1	11.4	118.5	11.8	119.3	133.4	6	101	95	DP/MP
759		7/1/20	5717	C	A-1	11.4	118.5	10.5	117.6	129.9	6	99	95	DP/MP
760		7/9/20	5717	C	A-1	11.4	118.5	10.6	117.8	130.3	6	99	95	DP/MP
761		7/9/20	5717	C	A-1	11.4	118.5	11.1	119.4	132.7	6	101	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
754	21 - Base Course: Pavement: Blue Heart Ct. From Tract D to Rock Daisy St., Northeast of Block 1 Lot 17	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Tommie Kelly Huff
755	21 - Base Course: Pavement: Crossspan at Rock Daisy St and Alpine Phlox St. south side walk area	0.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Gus Sorge
756	21 - Base Course: Pavement: Crossspan at Rock Daisy St and Alpine Phlox St. north side walk area	0.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Gus Sorge
757	21 - Base Course: Pavement: Crossspan at Rock Daisy St and Alpine Phlox St. sidewalk on south side	0.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Gus Sorge
758	21 - Base Course: Pavement: Crossspan at Rock Daisy St and Alpine Phlox St. sidewalk on north side	0.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Gus Sorge
759	21 - Base Course: Pavement: Crossspan at Rock Daisy St and Alpine Phlox St. in middle. Between side walks	0.0	FG	Instrotek / Explorer 3500 / 1986 / 6/6/2018	Gus Sorge
760	21 - Base Course: Pavement: North end of Rock Daisy St	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
761	21 - Base Course: Pavement: North end of Rock Daisy St at Mock Orange St	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge

Remarks	Comments
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762		7/9/20	5717	C	A-1	11.4	118.5	11.9	117.4	131.4	6	99	95	DP/MP
763		7/11/20	5717	C	A-1	11.4	118.5	10.7	118.5	131.2	8	100	95	DP/MP
764		7/11/20	5717	C	A-1	11.4	118.5	9.5	117.8	129.0	8	99	95	DP/MP
765		7/11/20	5717	C	A-1	11.4	118.5	10.4	119.6	132.0	8	101	95	DP/MP
766		7/11/20	5717	C	A-1	11.4	118.5	9.4	119.8	131.1	8	101	95	DP/MP
767		7/11/20	5717	C	A-1	11.4	118.5	9.7	116.8	128.1	8	99	95	DP/MP
768		7/11/20	5717	C	A-1	11.4	118.5	9.7	118.0	129.5	8	100	95	DP/MP
769		7/7/20	5717	C	A-1	11.4	118.5	10.0	118.3	130.1	6	100	95	DP/MP

## Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
762	21 - Base Course: Pavement: Rock Daisy St, 40' south of Mock Orange St.	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
763	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Street 15+70 to 13+00. Test: NB, approx STA: 13+25	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
764	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Street 15+70 to 13+00. Test: SB, approx STA: 14+25	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
765	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Street 15+70 to 13+00. Test: NB, approx STA: 15+50	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
766	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Trail 10+25 to 12+25. Test: NE Bound, approx STA: 10+40	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
767	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Trail 10+25 to 12+25. Test: SW Bound, approx STA: 12+00	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
768	21 - Base Course: Pavement: Drive Lanes: Rock Daisy Trail 10+25 to 12+25. Test: Center of Parking Area, approx STA: 11+30.	0.0	FG	Troxler / 3440 / 63528 / 2/1/2019	Rob Lopez
769	21 - Base Course: Pavement: Crossspan at corner of Rock Daisy St and Mock Orange Ave, North side	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge

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770		7/7/20	5717	C	A-1	11.4	118.5	10.4	120.1	132.6	6	101	95	DP/MP
771		7/10/20	5717	C	A-1	11.4	118.5	9.5	116.6	127.7	6	98	95	DP/MP
772		7/10/20	5717	C	A-1	11.4	118.5	9.5	117.4	128.5	6	99	95	DP/MP
773		7/10/20	5717	C	A-1	11.4	118.5	10.8	118.0	130.7	6	100	95	DP/MP
774		7/10/20	5717	C	A-1	11.4	118.5	11.5	117.6	131.1	6	99	95	DP/MP
775		7/10/20	5717	C	A-1	11.4	118.5	11.4	117.9	131.3	6	99	95	DP/MP
776		7/10/20	5717	C	A-1	11.4	118.5	12.0	117.6	131.7	6	99	95	DP/MP
777		7/10/20	5717	C	A-1	11.4	118.5	12.0	117.1	131.1	6	99	95	DP/MP

### Test Information

Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
770	21 - Base Course: Pavement: Crossspan at corner of Rock Daisy St and Mock Orange Ave, South side	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
771	21 - Base Course: Pavement: North end of Rock Daisy St	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
772	21 - Base Course: Pavement: North end of Rock Daisy St entrance in to Mock Orange Ave	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
773	21 - Base Course: Pavement: North end Rock Daisy St	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
774	21 - Base Course: Pavement: North end of Rock Daisy St and start into Mock Orange Ave	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
775	21 - Base Course: Pavement: North end of Rock Daisy St, West of lot 1 blk B	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
776	21 - Base Course: Pavement: North end of Rock Daisy St. and start of Rock Daisy Ln	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
777	21 - Concrete Paving: North end of Rock Daisy St. west of Rock Daisy Ln	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge

Remarks	Comments
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778		7/13/20	5717	C	A-1	11.4	118.5	11.2	118.1	131.3	4	100	95	DP/MP
779		7/13/20	5717	C	A-1	11.4	118.5	9.5	116.5	127.6	4	98	95	DP/MP
780		7/13/20	5717	C	A-1	11.4	118.5	11.7	117.1	130.8	4	99	95	DP/MP
781		7/14/20	5717	C	A-1	11.4	118.5	10.8	112.0	124.1	4	95	95	DP/MP
782		7/14/20	5717	C	A-1	11.4	118.5	11.6	112.5	125.6	4	95	95	DP/MP
783		7/14/20	5717	C	A-1	11.4	118.5	10.2	112.2	123.6	4	95	95	DP/MP
784		7/14/20	5717	C	A-1	11.4	118.5	10.1	112.4	123.8	4	95	95	DP/MP
785		7/15/20	5717	C	A-1	11.4	118.5	10.6	117.1	129.5	4	99	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
778	21 - Concrete Paving: Section on North side of Rock Daisy Trl on Rock Daisy St.	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
779	21 - Concrete Paving: Parking area on Rock Daisy St at Tract F	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
780	21 - Concrete Paving: Parking area on Rock Daisy Trl at Tract F	0.0	FG	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
781	21 - Base Course: Pavement: On Rock Daisy Trail north side at Rock Daisy St.	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
782	21 - Base Course: Pavement: On Rock Daisy Trail south side at Rock Daisy St.	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
783	21 - Base Course: Pavement: On Rock Daisy Trail approximately 60' from Rock Daisy St.	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
784	21 - Base Course: Pavement: On Rock Daisy Trail approximately 120' from Rock Daisy St.	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
785	21 - Base Course: Pavement: Rock Daisy St and beginning of Rock Daisy Lane	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge

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786		7/15/20	5717	C	A-1	11.4	118.5	12.0	112.5	126.0	4	95	95	DP/MP
787		7/15/20	5717	C	A-1	11.4	118.5	10.7	113.4	125.5	4	96	95	DP/MP
788		7/15/20	5717	C	A-1	11.4	118.5	11.8	113.5	126.9	4	96	95	DP/MP
789		7/15/20	5717	C	A-1	11.4	118.5	11.8	113.5	126.9	4	96	95	DP/MP
790		7/2/20	5717	C	A-1	11.4	118.5	11.6	113.2	126.3	4	96	95	DP/MP
791		7/2/20	5717	C	A-1	11.4	118.5	11.7	112.9	126.1	4	95	95	DP/MP
792		7/2/20	5717	C	A-1	11.4	118.5	11.6	113.1	126.2	4	95	95	DP/MP
793		7/2/20	5717	C	A-1	11.4	118.5	11.8	112.5	125.8	4	95	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
786	21 - Base Course: Pavement: Rock Daisy Lane parking area	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
787	21 - Base Course: Pavement: Rock Daisy Lane in drive lane West side of parking area	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
788	21 - Base Course: Pavement: Rock Daisy Lane and where Rock Daisy Trail meets, North side	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
789	21 - Base Course: Pavement: Rock Daisy Lane and where Rock Daisy Trail meet, south side	0.0	Final grade	Instrotek / Explorer 3500 / 2133 / 6/18/2018	Gus Sorge
790	21 - Base Course: Curb & Gutter: Cross pan at Rock Daisy St and Rock Daisy Trl South side	0.0	Final grade	Troxler / 3440 / 65677 / 6/21/2018	Gus Sorge
791	21 - Base Course: Curb & Gutter: Cross pan at Rock Daisy St and Rock Daisy Trl North side	0.0	Final grade	Troxler / 3440 / 65677 / 6/21/2018	Gus Sorge
792	21 - Base Course: Curb & Gutter: On Mock Orange Ave at bend in curb across from Mock Orange Ct.	0.0	Final grade	Troxler / 3440 / 65677 / 6/21/2018	Gus Sorge
793	21 - Base Course: Curb & Gutter: On Mock Orange Ave west of Rock Daisy Trail, south side of curb	0.0	Final grade	Troxler / 3440 / 65677 / 6/21/2018	Gus Sorge

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 Suite 300  
 Westminster, CO 80234  
 Phone: 303.996.2999

# Soil Nuclear Gauge

**Report Date:** 9/9/2020  
**Test Method:** ASTM D 6938

**Client:**

KB Home Colorado Inc.  
 7807 East Peakview Avenue, Suite 300  
 Centennial, CO 80111

**Project:**

19.23.042  
 Trails at Crowfoot  
 Crowfoot Valley Road and Bayou Gulch Road  
 Parker, CO

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
794		7/2/20	5717	C	A-1	11.4	118.5	11.4	113.6	126.5	4	96	95	DP/MP
795		7/6/20	5693	C	A-1	10.0	123.9	11.6	117.3	130.9	4	95	95	DP/MP
796		7/6/20	5693	C	A-1	10.0	123.9	11.6	117.6	131.2	4	95	95	DP/MP
797		7/6/20	5693	C	A-1	10.0	123.9	11.7	118.2	132.0	4	95	95	DP/MP
798		7/6/20	5693	C	A-1	10.0	123.9	11.9	117.6	131.6	4	95	95	DP/MP
799		7/6/20	5693	C	A-1	10.0	123.9	11.4	118.3	131.8	4	95	95	DP/MP
800		7/6/20	5717	C	A-1	11.4	118.5	11.4	117.5	130.9	4	99	95	DP/MP
801		7/6/20	5717	C	A-1	11.4	118.5	11.6	117.6	131.2	4	99	95	DP/MP

Test Information					
Test #	Test Location	Elevation	Reference	Gauge Make / Model / SN / Calibrated	Field Technician
794	21 - Base Course: Curb & Gutter: On Mock Orange Ave north side, small parking area close to Mock Orange Ct.	0.0	Final grade	Troxler / 3440 / 65677 / 6/21/2018	Gus Sorge
795	21 - Base Course: Curb & Gutter: Cross pan at Rock Daisy St. and Mock Orange Ave	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
796	21 - Base Course: Curb & Gutter: Curb next to lot 22 Tract B southwest side of lot	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
797	21 - Base Course: Curb & Gutter: Curb next to lot 24 Tract B southwest side of lot	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
798	21 - Base Course: Curb & Gutter: Curb next to lot 26 Tract B southwest side of lot	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
799	21 - Base Course: Curb & Gutter: Curb at north side of Mock Orange Ct. and Mock Orange Ave	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
800	21 - Base Course: Curb & Gutter: Mock Orange Ave and Alpine Phlox St. north side	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge
801	21 - Base Course: Curb & Gutter: Mock Orange Ave and Alpine Phlox St. south side	0.0	Final grade	Instrotek / Explorer 3500 / 2016 / 6/20/2018	Gus Sorge

Remarks	Comments
DP/MP: Density Pass / Moisture Pass	Tests are "Direct Transmission" (Method A) unless probe depth is noted as "Backscatter". Gauge calibration data on file with the testing agency.