

Architectural
Structural
Geotechnical



Materials Testing
Forensic
Civil/Planning

Job No. 179012

May 9, 2022

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 12)
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The puck below was extruded from the mold and moist-cured in the laboratory five (5) days prior to testing for compressive strength. The remaining pucks will be tested at seven (7) days after placement.

The compressive strength for the puck below was determined at five (5) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

Sample Location	Date Prepared	Puck #	5-Day Compressive Strength	
			Tested Strength, psi	Average 5-Day Compressive Strength, psi
Keynes Dr., STA 13+00, Right of CL	5-3-2022	A12	510	510

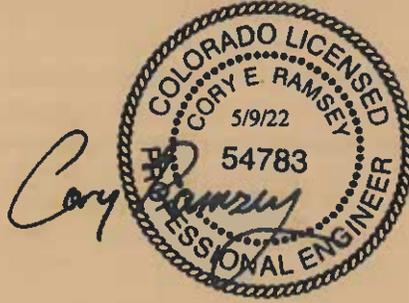
Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on May 3, 2022 met the minimum design strength requirements as recommended in *RMG's Pavement Design Report, Paint Brush Hills Filing No. 14, El Paso County, Colorado, Job No. 179012, last dated October 20, 2021.*

Keynes Dr.
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
Geotechnical Project Manager

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May 9, 2022

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 11)
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The puck below was extruded from the mold and moist-cured in the laboratory five (5) days prior to testing for compressive strength. The remaining pucks will be tested at seven (7) days after placement.

The compressive strength for the puck below was determined at five (5) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

Sample Location	Date Prepared	Puck #	5-Day Compressive Strength	
			Tested Strength, psi	Average 5-Day Compressive Strength, psi
Keynes Dr., STA 5+00, Left of CL	5-3-2022	A11	310	310

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on May 3, 2022 met the minimum design strength requirements as recommended in *RMG's Pavement Design Report, Paint Brush Hills Filing No. 14, El Paso County, Colorado, Job No. 179012, last dated October 20, 2021.*

Southern Office:
Colorado Springs, CO 80918
719.548.0600

Central Office:
Englewood, CO 80112
303.688.9475

Northern Office:
Windsor, CO 80550
970.330.1071

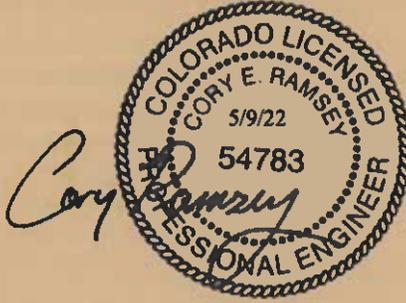
Monument: 719.488.2145
Summit County: 303.688.9475
Woodland Park: 719.687.6077

Keynes Dr.
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
Geotechnical Project Manager

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Job No. 179012

May 9, 2022

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 13)
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The puck below was extruded from the mold and moist-cured in the laboratory five (5) days prior to testing for compressive strength. The remaining pucks will be tested at seven (7) days after placement.

The compressive strength for the puck below was determined at five (5) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

Sample Location	Date Prepared	Puck #	5-Day Compressive Strength	
			Tested Strength, psi	Average 5-Day Compressive Strength, psi
Keynes Dr., STA 17+50, Right of CL	5-4-2022	A13	400	400

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on May 4, 2022 met the minimum design strength requirements as recommended in *RMG's Pavement Design Report, Paint Brush Hills Filing No. 14, El Paso County, Colorado, Job No. 179012, last dated October 20, 2021.*

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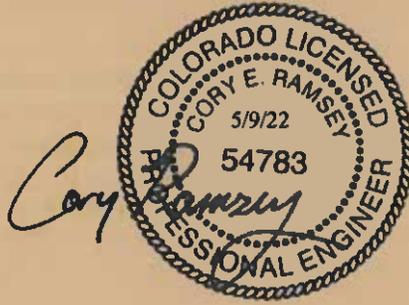
Monument: 719.488.2145
Summit County: 303.688.9475
Woodland Park: 719.687.6077

Keynes Dr.
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

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Cordially,

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Cory Ramsey, P.E.
Geotechnical Project Manager

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May 9, 2022

Landhuis Company
212 N. Wahsatch Ave. Ste 301
Colorado Springs, CO

Re: Cement Treated Subgrade Test Results (Set 14)
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

Dear Landhuis Company:

RMG – Rocky Mountain Group sampled cement treated subgrade (CTS) soils during placement and compaction during construction of the streets in the above referenced subdivision. Our sampling and testing consisted of preparation of four (4) CTS “pucks” for each sample location. Pucks were prepared by compacting sampled CTS materials in the Standard Proctor mold utilizing Standard Proctor compactive effort (ASTM D-698). The puck below was extruded from the mold and moist-cured in the laboratory five (5) days prior to testing for compressive strength. The remaining pucks will be tested at seven (7) days after placement.

The compressive strength for the puck below was determined at five (5) days after placement to verify that the minimum required compressive strength of 125 psi was obtained prior to placement of hot-mix bituminous pavements. The results of our testing are presented in the table below:

Sample Location	Date Prepared	Puck #	5-Day Compressive Strength	
			Tested Strength, psi	Average 5-Day Compressive Strength, psi
Keynes Dr., STA 24+00, Left of CL	5-4-2022	A14	260	260

Based upon our test results, the cement treated subgrade that was placed and compacted at the locations tested on May 4, 2022 met the minimum design strength requirements as recommended in RMG's *Pavement Design Report, Paint Brush Hills Filing No. 14, El Paso County, Colorado, Job No. 179012, last dated October 20, 2021.*

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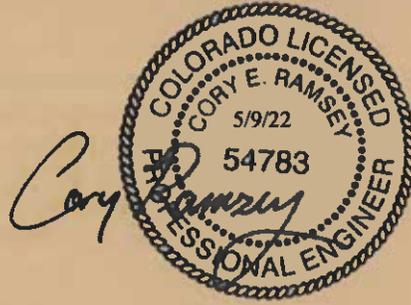
Monument: 719.488.2145
Summit County: 303.688.9475
Woodland Park: 719.687.6077

Keynes Dr.
Paint Brush Hills, Filing No. 14
El Paso County, Colorado

I hope this provides the information you have requested. Should you have questions, please feel free to contact our office.

Cordially,

RMG – Rocky Mountain Group



Cory Ramsey, P.E.
Geotechnical Project Manager