



# Sladden Engineering

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October 10, 2024

Project No. 544-24244  
24-10-524

Mr. Noel Owsley  
Town of Yucca Valley  
58928 Business Center Drive  
Yucca Valley, California 92284

Project: Proposed Circle K Convenience Store  
NWC 29 Palms Highway and Avalon Avenue  
APN: 0601-543-01  
Yucca Valley, California

Subject: Fault Hazard Report Review – 2<sup>nd</sup> Review

**Report Entitled:** Report of Limited Fault Hazard Evaluation, Proposed Convenience Store and Fuel Canopies, APN 0601-543-01, Avalon Avenue, Yucca Valley, San Bernardino County, California; Prepared by Hilltop Geotechnical Incorporated, Project No. 1664-01, Report No. 1, dated August 22, 2024.

Addendum Report in Response to Fault Hazard Report Review, Proposed Convenience Store and Fuel Canopies, APN: 0601-543-01, Avalon Avenue, Yucca Valley, San Bernardino County, California; Prepared by Hilltop Geotechnical Incorporated, Project No. 1664-01, Report No. 2, dated September 18, 2024.

**Geologist(s):** Mr. Albert Buffet and Mr. S. Mack Chen

**PG#/CEG#:** 10224/2688

**Report Type:** Fault Hazard Evaluation

**Report Status:** Conditionally Approved

In accordance with your request, we have reviewed the above referenced reports as they relate to the construction of the proposed Circle K Convenience Store. The project site is located on the northwest corner of 29 Palms Highway and Avalon Avenue in the Town of Yucca Valley, California. It is our understanding that the project will consist of constructing a 5,200 square foot (ft<sup>2</sup>) convenience store, 4,608 ft<sup>2</sup> fuel canopy and various associated site improvements.


Comments and Conditions:

- 1) The project site is located within the Alquist Piolo Earthquake Fault Zone for the active Eureka Peak Fault (informally referred to as the Avalon Avenue splay).

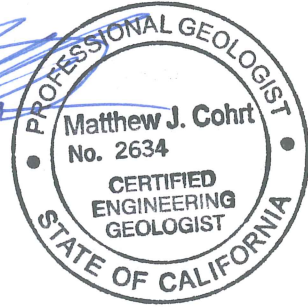
- 2) The consultant performed analysis for the site utilizing aerial photographs within the Google Earth database. No lineaments indicative of active faulting were identified in the immediate site vicinity.
- 3) The consultant's subsurface fault investigation included the excavation of two trenches for a combined total length of 218 Feet. The trenches were excavated to a depth of 12 feet below the existing ground surface.
- 4) Evidence of faulting was not found to exist within the exploratory trenches.
- 5) The consultants concluded that the fault trenches exposed Pleistocene-age earth materials.
- 6) The recommended Restricted Use Zone Map (RUZ) that accompanies the addendum report delineates the buildable zone on the project site.
- 7) Structures intended for habitable use shall not be constructed within the RUZ unless additional subsurface exploration is conducted to demonstrate that active faults do not underlie those portions of the property. The RUZ shall be incorporated into the design and construction of the project.
- 8) The exploratory trenches were backfilled and compacted to at least 90 percent of the maximum dry density.
- 9) The project engineering geologist shall review and approve any foundation and grading plans to confirm that the recommendations made in the referenced reports are adhered to in the design and construction of the project. The project engineering geologist shall sign and stamp any foundation and grading plans indicating that the plans conform to the referenced report recommendations.
- 10) The Restricted Use Zone shall be incorporated onto the grading plans.
- 11) The project foundation plans shall include the following note: "A geologic/fault report and addendum report were prepared for this project by Hilltop Geotechnical Incorporated dated August 22, 2024 and September 18, 2024. The report and addendum are hereby incorporated by reference and are a part of the foundation construction documents. The recommendations outlined in the report and addendum shall be strictly adhered to during the construction of this project."
- 12) The project grading plans shall include the following note: "A geologic/fault report and addendum report were prepared for this project by Hilltop Geotechnical Incorporated dated August 22, 2024 and September 18, 2024. The report and addendum are hereby incorporated by reference and are a part of the grading construction documents. The recommendations outlined in the report and addendum shall be strictly adhered to during the construction of this project."

If you have questions regarding this review letter, please contact the undersigned.

Respectfully submitted,  
**SLADDEN ENGINEERING**



Matthew J. Cohrt  
Principal Geologist



SER/mc  
Copies: pdf / Addressee