



June 28, 2017
Job No. 3249.0

Petra ICS
Attention: Ms. Michele Genet
1 Centerpointe Drive
Suite 200
La Palma, Ca 90623

Geotechnical Consultation
Planned Medical Office Building
& Parking Structure
Memorial Hospital
Santa Rosa, California

This letter presents the results of our geotechnical consultation for the subject project. We are currently performing geotechnical investigations for both structures. Our investigation includes subsurface exploration, laboratory testing, and geologic and engineering analysis. As requested by Ms. Jean Kapolchok, we are providing geologic information to aid in the permit process.

Below are our responses in italics to the questions provided by Ms. Kapolchok.

Will the project:

a. Expose people or structures to potential substantial adverse effects, including the risk of loss, injury, or death involving:

i) Rupture of a known earthquake fault, as delineated on the most recent Alquist-Priolo Earthquake Fault Zoning Map issued by the State Geologist for the area or based on other substantial evidence of a known fault? Refer to Division of Mines and Geology Special Publication 42. *The property is located about 200 feet west of the AP Zone boundary and 700 feet west of the mapped trace of the Healdsburg-Rogers Creek Fault. On this basis, the risk of fault rupture at the site is considered to be relatively low. However, as in all seismically active areas, new faults (and associated rupture) can be generated as a result of regional earth stresses.*

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ii) Strong seismic ground shaking? *The site could experience very strong shaking as a result of movement on the Healdsburg-Rogers Creek or San Andreas Faults.*

iii) Seismic related ground failure, including liquefaction? *ABAG and USGS indicate that the site is within an area of “moderate” liquefaction potential. Based on our work completed to date, the two adjacent building sites generally are of low liquefaction potential, with localized areas of potentially liquefiable soils. When our analysis is completed, if liquefaction induced settlement is a concern, we will provide design recommendations to mitigate the settlement.*

iv) Landslides? *The property is relatively level, therefore land sliding is not present or anticipated.*

b. Result in substantial soil erosion or the loss of topsoil? *The property is relatively level, therefore soil erosion or loss of topsoil is not anticipated. The project civil engineer should also comment on this question.*

c. Be located on a geologic unit or soil that is unstable, or that would become unstable as a result of the project, and potentially result in on, or off, site landslide, lateral spreading, subsidence, liquefaction or collapse? *Our work performed to date indicates the potential for lateral spreading or other seismically inducing ground movements (i.e. subsidence, liquefaction or collapse) is generally low. When our analysis is completed, we will provide design recommendations to mitigate these concerns, as appropriate.*

d. Be located on expansive soil, as defined in Table 18-1-B of the Uniform Building Code (1994), creating substantial risks to life or property? *Our work has found that the upper clayey soils are generally moderately to highly expansive and subject to shrink and swell. Mitigation of expansive soils is relatively common throughout this area of Santa Rosa. Mitigation measures will be incorporated in our recommendations.*

BAUER ASSOCIATES, INC.

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We trust this provide the information you require at this time. Please contact us if you have questions.

Very truly yours,

BAUER ASSOCIATES, INC.


Arthur H. Graff
Geotechnical Engineer




Christopher L. Kramer
Engineering Geologist



CLK/AHG (consult/memorial hosp mob & ps)
email
cc: Ms. Jean Kapolchok