Governor's Office of Planning & Research

March 27 2023

STATE CLEARING HOUSE

From: Zachariasen, Judith@DOC
To: OLRA@DOC; OPR State Clearinghouse
Subject: FW: Livermore General Plan 2045 EIR - SCH #2023030225
Date: Saturday, March 25, 2023 7:11:50 PM
Attachments: image001.png

Dear Mr. Ross

The California Geological Survey (CGS) has received the Notice of Preparation of a Draft Environmental Impact Report (DEIR) for the Livermore General Plan 2045 (SCH #2023030225). This email conveys the following recommendations from CGS concerning geologic issues related to the project area:

1. Fault Rupture Hazard

   The Livermore Valley and environs contain earthquake zones of required investigation (ZORI) for surface fault rupture associated with the Greenville, Las Positas, Pleasanton, Verona, and Calaveras faults. The DEIR and supporting documents should address this hazard as it relates to the design of the proposed structures and should consider providing figures displaying the extent of these Earthquake Fault Zones (EFZ). Additional information is available at the links below:
   https://maps.conservation.ca.gov/cgs/EQZApp/app/
   https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps

2. Liquefaction and Landslide Hazards

   CGS has published an Earthquake Zones of Required Investigation Map (EZRIM) for liquefaction and landsliding covering the Livermore, Dublin, and Altamont quadrangles, which include the project area. The EZRIM can be viewed here:
   https://maps.conservation.ca.gov/cgs/EQZApp/app/
   The Seismic Hazard Zone Reports, EZRIM, and associated GIS data are available for download here:
   https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps
   CGS suggests the DEIR should note that zones of required investigation for liquefaction and landsliding are mapped within the project area and should consider providing figures displaying the extent of these hazard zones.

3. Ground Shaking Hazards

   The project area is located in an area that could experience significant ground shaking in the event of an earthquake on a nearby fault. The DEIR and supporting documents should address this hazard as it relates to the design of the proposed structures. Additional information about ground shaking hazard can be obtained at the following sites:
   https://usgs.maps.arcgis.com/apps/webappviewer/index.html?id=14d2f75c7c4f4619936dac0d14e1e468
   https://earthquake.usgs.gov/scenarios/catalog/bssc2014/

If you have any additional comments or questions, please feel free to call or email.

Thank you,
Judy Zachariasen

Judith Zachariasen, PhD, PG, CEG
Senior Engineering Geologist
Fault Zoning Unit Supervisor
Seismic Hazards Program
California Geological Survey

California Department of Conservation
715 P Street, MS 1900, Sacramento, CA 95814
T: (916) 879-2844
E: judith.zachariasen@conservation.ca.gov