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To Whom it May Concern,

Thank you for providing the District's Draft Subsequent Program Environmental Impact Report (SPEIR) for our review. This email conveys the following recommendations from CGS concerning the geologic and seismic hazard issues within the program area:

1. Liquefaction and Landside Hazards

- The SPEIR discusses liquefaction as a potential seismic hazard and provides a map of CGS Zones of Required Investigation for liquefaction within the District boundaries (Figure 5.7-2).
- Section 5.7.1.1.2.3 (page 5-183) states soil investigation requirements for seismic hazard assessments, including liquefaction, are defined in Chapter 18 of the California Building Code. CGS notes that soil investigation requirements for public school projects are specifically defined in Chapter 18A, not 18.

2. Earthquake Ground Motion Hazards

- The EIR might consider providing a discussion of the probability of large earthquakes in the region. This discussion may include earthquake probabilities from the third Uniform California Earthquake Rupture Forecast (UCERF3). A non-technical discussion of this model is available here:

<https://pubs.usgs.gov/fs/2015/3009/pdf/fs2015-3009.pdf>

3. Fault Hazards

- The SPEIR provides a discussion of earthquake surface fault rupture and CGS' Alquist-Priolo Earthquake Fault Zones (APEFZ) in the region, including a map

depicting the locations of current APEFZ within the District limits. On page 5-195, the SPEIR notes APEFZs are established for the following five active faults within the District: Newport-Inglewood Fault Zone, Raymond Fault, Sierra Madre Fault, San Fernando Fault, and Santa Susana Fault. The SPEIR should add that there are also APEFZs established for the Santa Monica and Hollywood Fault Zones.

- The SPEIR should also note that, while the Palos Verdes Fault has not yet been reviewed by the CGS APEFZ program, the City of Los Angeles considers this an active fault and has established a “preliminary fault rupture study area” surrounding it. Figure 5.7-1 (Fault Map) should be updated with the City of LA study area limits. GIS data for this LA City zone found here: <https://geohub.lacity.org/datasets/lahub::preliminary-fault-rupture-study-areas-city-of-los-angeles/about>
- CGS APEFZ maps and data are available here: <https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-fault-traces/about>  
<https://maps-cnra-cadoc.opendata.arcgis.com/datasets/cadoc::cgs-seismic-hazards-program-alquist-priolo-fault-hazard-zones-1/about>  
<https://maps.conservation.ca.gov/cgs/informationwarehouse/index.html?map=regulatorymaps>

#### 4. Tsunami Hazards

- The SPEIR discusses tsunami hazards and CGS Tsunami Hazard Areas; however, the definition of a tsunami on page 5-180 is not accurate. For a more accurate definition, the District should review a trusted source, such as the National Tsunami Hazard Mitigation Program Tsunami Information Guide available here: <https://nws.weather.gov/nthmp/guide/nthmptsunamiinfoguide.pdf>. Section 2 of that document, entitled “Tsunami Basics”, defines a tsunami as “a series (more than one) of extremely long waves caused by a large and sudden displacement of the ocean.”
- The District should also determine if any existing or proposed campuses are included in a Tsunami Design Zone per the 2022 California Building Code (CBC). The CBC requires certain design standards for essential/critical or larger structures. The following website provides additional information regarding Tsunami Design Zones: <https://asce7tsunami.online/>.
- The District might also consider providing a figure depicting the current CGS Tsunami Hazard Area for Los Angeles County along with locations of existing LAUSD school campuses

Please let me know if you have any questions.



@CAgeosurvey

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*"A team is not a group of people who work together.*

*A team is a group of people who trust each other." – Simon Sinek*

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