Approved _____
Adam Ariki

February 8, 2021

TO: Adam Ariki

FROM: Ken Zimmer *Kenneth A Zimmer*
Postfire Engineering and Drainage Needs Programs

LAKE FIRE BURNED AREA BRIEF

The Lake Fire was first reported on August 12, 2020, and was fully contained on September 28, 2020. The fire burned 31,089 acres northwest of the Lake Hughes area and north to Lancaster near Kings Canyon Road. This brief focuses on potential mudflow impacts to residents within and below the burned areas. There are dozens of culverts along Pine Canyon Road and Lake Hughes Road that could be impacted by storm produced debris flows maintained by Road Maintenance Division.

Summary of Potential Sediment Impact

The Lake Fire burn area, located in Debris Production Area 3, 5, 8 and 9, and was divided into 25 subarea watersheds. During a design debris event (50-year frequency storm), debris flow from the burned hillsides may impact 39 properties along Pine Canyon Road, Ellstree Drive, and Lake Hughes Road. The flooding and sediment deposition impacts may compromise an existing earthen levee constructed of uncompacted fill that protects the Devere Court and Ellstree Drive properties.

Detailed descriptions of potential sediment impacts are discussed in Attachment A.

Attachments/Links

All the attachments can be found on the internet at http://www.pw.lacounty.gov/wrd/fire.

Attachment A – Description of Burn and Potential Sediment Impact
Attachment B – Lake Fire History Map
Postfire Debris Flow Hazards Map:
https://apps.gis.lacounty.gov/dpw/m/index.html?viewer=Post-Fire_Debris_Flow_Hazards_Map

Postfire Debris Flow Hazards Map

The postfire debris flow hazards map (Phases 1, 2, and 3) identifies the critical locations of potential debris flow impacts below the burned area for various storm magnitudes. This map is prepared when potential debris flows would pose a significant impact to homes, roadways, flood control facilities, or other public infrastructure. Stormwater Engineering Division (SWED) will post debris flow potential forecasts through the County's eNotify

System and on the internet for each forecasted significant storm event throughout this storm season and the four subsequent storm seasons.

Coordination

Stormwater Engineering Division's staff conducted a field reconnaissance of the burned area to verify the fire boundary. SWED reviewed and surveyed potential impacts to County facilities and residences below burned canyons and hillsides. Sixty-three properties were investigated and 26 residents were provided engineering advice.

Building and Safety Division (BSD) consulted with SWED to identify homes, which were needed to evacuate during storm events. BSD went door to door and yellow tagged homes that were advised to evacuate due to debris flows. SWED contacted the Army Corps of Engineers, California Department of Water Resources, and Natural Resources Conservation Service to discuss potential damages resulting from increased debris flows due to the Lake Fire.

If you have any questions regarding this report, please contact Michael Miranda at Extension 6164.

DD:sg
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Attach.

cc: Disaster Services (Eazell)
Stormwater Engineering (Zimmer, Miranda)
Building and Safety (Bagnell, Madrigal)