



Approved _____

Adam Ariki

February 11, 2021

TO: Adam Ariki

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

BOBCAT FIRE BURNED AREA BRIEF

The Bobcat Fire started on September 6, 2020, and was contained on December 18, 2020. The fire burned 115,746 acres in the Angeles National Forest, including the north face within unincorporated Los Angeles County (County) from west to east starting with Juniper Hills, Devil's Punchbowl, Valyermo, Big Rock Creek, and Llano. The south face starting from west to east from the Cities of Sierra Madre, Arcadia, Monrovia, Bradbury, and Duarte. This brief focuses on potential mudflow impacts to residences within and below the burned areas.

Summary of Potential Sediment Impact

The Bobcat Fire burn area, located in Debris Production Areas 1, 3, 5, 8, and 9, was divided into 26 subarea watersheds. During a design debris event (50-year frequency storm), debris from the burned hillsides may impact about 60 properties, several roads, and three County maintained debris basins.

Detailed descriptions of potential sediment impacts are 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 Impacts

Attachment B – History Map

Postfire Debris Flow Hazards Map:

[https://apps.gis.lacounty.gov/dpw/m/index.html?viewer=Post-Fire Debris Flow Hazards Map](https://apps.gis.lacounty.gov/dpw/m/index.html?viewer=Post-Fire%20Debris%20Flow%20Hazards%20Map)

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. The map and forecast system have been provided to the County's first responders and the City of Monrovia.

Adam Ariki
February 11, 2021
Page 2

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 the County's facilities and residences below burned canyons and hillsides. SWED investigated 173 properties and provided engineering advice to 65 residents: 11 written advice, and 54 verbal advice. SWED staff identified potential debris hazard of an unnamed canyon that burned almost 100 percent. This unnamed canyon is adjacent to the County's Oakglade Debris Basin. The County, in coordination with Natural Resources Conservation Service and the City of Monrovia, mutually agreed that the installation of k-rail placement to mitigate potential debris flows is strongly advised.

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

 JC:sg

\\pw01\pwpublic\wrd\POSTFIRE DRAINAGE\FIRE\2020 Fires\Bobcat Fire\BAR\Bobcat Fire - Burn Area Brief MM.docx

 AN Attach.

cc: Disaster Services (Ezell)
Road Maintenance (MacGregor)
Stormwater Maintenance (Bunker)
Stormwater Engineering (Zimmer)