

Approved



Adam Ariki

December 1, 2022

TO: Adam Ariki

FROM: Ken Zimmer   
Postfire Engineering and Drainage Needs Programs

## **FISH FIRE 2022 BURNED AREA BRIEF**

The Fish Fire 2022 started on June 12, 2022, and was contained on the same day. The fire burned approximately 39 acres of undeveloped Fish and Opal canyons within the Cities of Azusa and Duarte. This report focuses on potential debris flow impacts to Duarte residences below the burned area. There were no residential impacts in the City of Azusa. There are no County Public Works' maintained facilities that might be impacted by storm produced debris flows from the burned watershed.

### Summary of Potential Sediment Impact

The Fish Fire 2022 location was in Debris Production Area 1. During a design debris event (50-year frequency storm), debris flows from the burned Fish Canyon may impact properties below and possibly cause flooding and sediment deposition on streets along Melcanyon Road and Deerlane Drive.

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 – 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_Debris_Flow_Hazards_Map)

Attachment C – Burned Area Map (pdf)

Attachment D – Debris Flow Hazard Map (pdf)

### 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

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storm season and the four subsequent storm seasons. The map and forecast system have been provided to City of Duarte and County first responders.

### Coordination

Stormwater Engineering Division staff conducted a field reconnaissance of the burned area to verify the fire boundary and perform calculations. SWED, in coordination with the City of Duarte, reviewed and surveyed potential impacts to residences below burned canyons and hillsides. SWED and Natural Resources Conservation Service discussed potential flooding issues with the City of Duarte and recommended K-rail installation to protect residential properties. As a result of the recent K-rail installation by the City of Duarte, debris flow impacts have been mitigated to access issues only for 44 residential properties during major storm events.

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

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Attach.

cc: Disaster Services (Ezell)  
Stormwater Engineering (Miranda, Zimmer)