County of San Bernardino  
Planning Division  
15900 Smoke Tree St. Suite 131  
Hesperia, CA 92345  

Subject: APN 0351-141-17 Preliminary Drainage Report  

APN 0351-191-17 is located in the County of San Bernardino, California, South of 7th Street, in between Middleton Road and Barbet Road. APN 0351-191-17 is a 10 acre vacant land site, and is proposed to subdivided into four parcels. The natural terrain of the parcel flows in Northerly direction at a slope of approximately 2.5%.  

Offsite tributary area from the South was quantified (see attached exhibit) and found to be approximately 33 Acres. Typical studies of undeveloped land in the High Desert region show runoff of approximately 1 cfs per acre can be expected, this results in approximately 33 cfs of expected tributary flows. Currently Del Rosa Road serves and an interceptor of offsite drainage, and it is anticipated that as future development occurs to the South, the runoff will be conveyed to Middleton Road and Barbet Road. The current development plan consists of large lot single family dwellings. Any future pads must be graded and set at an elevation that will protect them from offsite water. Offsite flows can be safely transmitted through this type of development. Care needs to be taken not to block or concentrate flows.  

Ultimately, the runoff produced from the site, and the runoff tributary to the site flows to the Mojave River. A Hydrology Exhibit accompanies this discussion to further illustrate the tributary area and direction of flow.  

If you have any questions, please feel free to contact me.  

Sincerely,  

Raymond J. Allard, P.E.  
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Allard Engineering  
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