



KIER & WRIGHT
Civil Engineers & Surveyors, Inc.

February 21, 2018

Mr. John Rogers
County of Alameda
Public Works
399 Elmhurst Street
Hayward, CA 94544

Dear Mr. Rogers,

To address review comments and clarify the intent of the project, following is a revised description of the stormwater discharge from the proposed Arroyo Lago project.

The Arroyo Lago project lies on property which currently has drainage rights from Alameda County Flood Control and Water Conservation District, Zone 7 to discharge stormwater to Cope Lake. Cope Lake serves as a final destination for the runoff, there is no discharge to any further downstream creek or channel. With this in mind, we feel it is appropriate for the Arroyo Lago project to provide Water Quality treatment only, but not a Hydromodification level of treatment.

Our design concept for the subdivision is to collect stormwater in a conventional storm drainage system, but discharge the pipe to a swale along the alignment of an existing ditch. This ditch will need to be lowered in elevation to provide drainage to the subdivision.

The stormwater quality treatment will be achieved through a large bioretention basin. The basin is shown on the initial submittal drawings to a size of approximately one acre. The actual basin will be appropriately sized, and designed as an off-line treatment from the swale, using a diversion structure to direct the stormwater quality design flow into the basin, while allowing for the bypass of large flows to prevent re-suspension of sediments. The inlet side will also be equipped with a means to distribute the water quality design flows evenly across the basin.

The applicant and Zone 7 met on January 31, 2018 to discuss drainage issues. During the meeting, we presented our analysis supporting the conclusion that this property has a right to drain to Cope Lake. Zone 7 indicated that it did not disagree with this conclusion. Zone 7 and the applicant have agreed to work together on the water quality and flood control issues associated with Cope Lake, as well as any water facilities and supply planning with Cal Water.

Sincerely,
KIER & WRIGHT

Steven J. Hunn, PE