

Dave Johnston thought Ponds  
4a, 9, 11, + 17 were potential  
CRLF  
habitat.

## Sedimentation Basin/Pond Description Report

For your review, and to determine which sedimentation basins/ponds may be suitable habitat for California Red Legged Frog ("CRLF"), I have summarized the design and current conditions of each pond along with a photograph and a determination on if a pond could support suitable habitat for CRLF.

For the purpose of this analysis, "suitable habitat" includes conditions which provide the primary constituent elements for CRLF and is defined as habitat that provides conditions that (1) provide pond water of a depth and duration suitable for CRLF survival; (2) could be utilized for foraging, resting or hiding habitat, and provide cover from predation; and (3) CRLF could live a significant portion of their life cycle within a pond and be able to move back-and-forth to nearby suitable habitat areas. These conditions which define "suitable habitat" in the context of this report are derived from the habitat description described in the 1996 Federal Register listing CRLF as threatened, description of CRLF habitat and primary constituent elements for CRLF listed on the Sacramento USFWS web page and personnel communication with CRLF expert Dr. Mark Jennings.

Ponds that do not provide elements that would allow CRLF to survive for a reasonable amount of time are not considered suitable habitat in this report. These include several off-stream Ponds constructed to meet the requirements of a Cleanup and Abatement Order issued by the San Francisco Bay Regional Water Quality Control Board ("RWQCB") in 1999. These Ponds provide sediment controls for stormwater leaving the operational quarrying and cement manufacturing areas and entering Permanente Creek, and to reduce sediment loading into Permanente Creek.

In summary, HBG determined the stretch of Permanente Creek within the Study Boundary and Ponds 4A, 13, 14, 20, 21, and 22 may be considered suitable habitat for CRLF. Of these, the latest 2008 surveys by Rana Resources indicate that only Ponds 14 and 22 are currently inhabited by CRLF. In contrast, HBG determined that Ponds 9, 13A, 13B, 16, 17, and 19 do not provide suitable habitat for CRLF. HBG also determined that Pond 11 is not suitable habitat. Please note that the Long-Term Maintenance Plan will incorporate protective measure for all ponds regardless of their suitability as habitat for CRLF.

### Permanente Creek:

**CRLF Status:** Permanente Creek, from Pond 14 to Pond 13, is considered suitable habitat and provides a movement corridor for CRLF:

- During a 1997 survey by Radian International, CRLFs were consistently observed at a single location approximately 30 yards downstream of Pond 14 in a small pool (10x5 feet) located outside and downstream of the Study Area.

4a could provide water for a  
new CRLF pond

— CRLF NOT  
AGREE

- Rana Resources conducted a site assessment in 2008 and concluded that Permanente Creek likely serves as a movement corridor between known breeding populations.