From:Gard, Mark <mark\_gard@fws.gov>Sent:Monday, April 1, 2019 7:57 AMTo:Sarah Gallagher - NOAA FederalSubject:Re: [EXTERNAL] Interpretation of WUA

With gravel addition, there is more than enough spawning habitat at 200 cfs for both spring-run and steelhead.

Mark Gard Ph.D., PE 40701 Fish and Wildlife Biologist U.S. Fish and Wildlife Service Anadromous Fish Restoration Program 850 South Guild Avenue, Suite 105 Lodi, CA 95240-3170

Phone: Mon, Fri (209) 334-2968 x 410; Tues, Wed, Thur (916) 799-0534

Fax: (209) 334-2171

On Thu, Mar 28, 2019 at 12:19 PM Sarah Gallagher - NOAA Federal < sarah.gallagher@noaa.gov > wrote: Based on your sythesis report for Clear Creek, does it appear the proposed flows for clear creek (same as now 200cfs oct-june; 150 cfs june-Oct) would provide the habitat needs for steelhead nnd spring-run (see attached spreadsheet)? I think it looks llike it is more than recommended in the synthesis report, but would appreciate your interpretion or thoughts if you have a moment.

## Sarah Gallagher | Fish Biologist

NOAA Fisheries | West Coast Region U.S. Department of Commerce 650 Capitol Mall, Suite 5-100, Sacramento, CA 95814 916-930-3712 | Sarah.Gallagher@noaa.gov