



January 30, 2019

To: Rich Marovich

Regarding: Quick visit to Miller Creek (Martell Ranch) on 1/28/2019

**Report:**

1. The weirs appear to be functioning as planned.
2. Cal Fire used the Weir Area as a crossing (October 2018). Some damage is evident.
3. The benthic cobble is already embedded. See image on page 4.
4. I did not see any trout in the weir area. Barbara Comfort expects they will show up in the near future. She was adamant about keeping the location of the trout in-house. She's had more issues with trespassers. I will be visiting the site every couple weeks to check the invertebrate population.
5. The water has just recently started flowing. Note the lack of algae on the subsurface image on page 4.
6. The benthic invertebrate population is lower than I expected, but considering the recent water flow, it is at a reasonable level. I took a complete collection of the BMI community.
7. The invertebrate population consists of species that are mostly ranked low on the California Tolerance Value Chart.



Looking upstream from the large oak. 1/28/2019



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Looking downstream. 1/28/2019



Looking downstream. 1/28/2019



Ameletus Nymph. File # 6600-220-77

Early Instar Ameletus sp. Nymph 5/8 inch total length. The Martell Weir area has a decent population of these sensitive mayflies.



Calinuria californica nymph. File # 6600-220-62

Calinuria californica nymph. 1/28/2019



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Subsurface image in Martell Ranch weir area. The vast majority (85%) of the cobble are embedded which prevents benthic macroinvertebrates from feeding and seeking refuge in the interstitial spaces. 1/28/2019.

Transmitted via e-mail on 1/30/2019

Sincerely,

**Ken W. Davis**

Aquatic Biologist / Wildlife Photojournalist

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