

# Memo



To: Jade Krueger, Planning Administrator, Teton County  
Idaho

From: Ted Van Holland, P.E. & Jennifer Zung, P.E.

CC: Sharon Fox, Planner I, Teton County, Idaho

Date: 9/12/2023

Re: Skyline View Ranch Subdivision Level I Nutrient-Pathogen Evaluation Review

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Per request from the Teton County Planning and Zoning Department, Harmony Design & Engineering has reviewed the Level I Nutrient Pathogen Evaluation for the Skyline View Ranch Subdivision dated June 6, 2023, prepared by Nelson Engineering. The report is sealed by an Idaho-licensed professional engineer, and follows the basic steps outlined in DEQ guidance (Howarth, et al., 2002). The report presents and explains the relevant factors in the evaluation, with possible surface water impacts to Mahogany Creek justifiably dismissed based on local groundwater observations cited. Pathogen attenuation is also appropriately addressed, and the conclusions are supported.

Although the use of 80 feet per day for the modeled hydraulic conductivity could use additional justification, we found that recomputing the spreadsheet model with a lower hydraulic conductivity of 25 feet per day as cited by Nicklin Earth & Water (2003) still shows that the impacts of discharged nitrate to the aquifer are less than 1mg/l, and therefore still negligible.

The only item that should be revised is the statement that a 50-foot setback from any leachfield in this subdivision to Mahogany creek would apply. We have assumed that this was corrected in the revised July 7, 2023, report referenced in the DEQ letter to reflect the required setbacks per IDAPA 58.01.03.008.02.d based on soil types. If this is the case, we have no other comments or concerns regarding this evaluation.