

**From:** Elena Evans <eevans@missoulacounty.us>  
**Sent:** Thursday, August 11, 2022 12:40 PM  
**To:** Joe M. Dehnert; Cassondra Tripard  
**Cc:** waterquality; Shannon Therriault  
**Subject:** West End Homes 2nd Sufficiency Review

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Hello,

The Water Quality District would like to highlight that there is high groundwater in the area. Variable geologic deposition of alluvium and gravel from movement of Grant Creek across the valley floor in this area results in quickly draining gravel seams in some areas while pockets of finer sediment and clay limit drainage in others. Throughout the portion of this reach of Grant Creek that has not been lined with clay, Grant Creek loses water to groundwater throughout most of the year. Downgradient at the Mullan Trails subdivision, flooding of Grant Creek in the Spring of 1997 during high groundwater resulted in substantial flooding of basements and homes. Water elevation data has only been collected during average or below average years. The planned movement of Grant Creek to closer proximity of this subdivision may also influence groundwater dynamics. In light of the changing climate and alteration of the hydrograph from irrigation to a flashier urban hydrograph, water elevation should be reassessed throughout the development process to incorporate any additional information to ascertain the appropriateness of stormwater sumps and basements in different phases or as individual houses or infrastructure are built.

Thank you for the opportunity to comment,  
Elena

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