



MEMORANDUM

Date: November 7, 2012
To: Bill Stalzer
From: Michael Klisch
cc:
RE: WALLA WALLA COUNTY CARA

Project No.: 113-93087
Company: Stalzer and associates
Email: bstalzer@seanet.com

This memorandum provides response to your requests for clarification on three items in our technical memorandum dated October 17, 2012.

1. It is my understanding from the memorandum that you are not recommending any changes from the boundaries of the Shallow Gravel Aquifer CARA and Aquifer Vulnerability zones shown on Maps 7, 7A, 8 or 8A (December, 2011); however, you do not specifically state that in your memorandum. Are you recommending any changes to the locations or boundaries from those you previously showed? If so, please email me revised maps.

This is correct, there are no changes recommended to the boundaries of the CARA or vulnerability zones.

2. I think the word "Recharge" on the title block on Maps 8 and 8A (December, 2011) should be deleted to clarify that the vulnerability is to the shallow gravel aquifer and not to the recharge area. Unless you believe this would be inaccurate or not necessary, please email me Maps 8 and 8A with a revised title block.

Maps 8 and 8a with the updated titles are attached to this memorandum.

3. While you include a discussion of factors that determine a shallow gravel aquifer Moderate Vulnerability zone in your memorandum, I think it would be helpful if a definition of it were included in the county code so that the characteristics of the zone are clearly understood. Unless you believe that this is not necessary, could you prepare a proposed definition of the shallow gravel aquifer Moderate Vulnerability zone?

The proposed definition of the Moderate Vulnerability Zone is:

The Moderate Vulnerability Zone for the Shallow Gravel Aquifer (SGA) is defined as those areas of the SGA as delineated by Walla Walla County that are present in the subsurface but are overlain by a variable thickness of Loess and Touchet Beds. The extent of the Loess and Touchet Beds have been delineated on the Geologic Map of the College Place and Walla Walla 7.5 Minute Quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon, Washington State Division of Geology and Earth Resources Geologic Map GM-62 prepared by Derkey and others (2006) and on Maps 8 and 8a (attached).

List of Attachments

Map 8 Walla Walla Shallow Gravel Aquifer Vulnerability Map (December 2011)

Map 8a Walla Walla Shallow Gravel Aquifer Vulnerability Map Walla Walla Valley (December 2011)



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REFERENCE

Derkey, R.E., D.A. Sradling, K.A. Lindsay, and T.L. Tolan, 2006, Geologic map of the College Place and Walla Walla 7.5 Minute Quadrangles, Walla Walla County, Washington, and Umatilla County, Oregon, Washington State Division of Geology and Earth Resources Geologic Map GM-62.