Aquifer Susceptibility Map of the Pahasapa Limestone (Madison Aquifer), Rapid City West Quadrangle

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EXPLANATION

Definition of Susceptibility
Aquifer susceptibility is the inherent ability of a formation to accept and transmit fluids (potentially including contaminants).

Susceptibility Ratings for Hydrogeologic Units

Miles
10'
000m.
NORTH
2' 30”
22’ 30”

Geologic Units

Pahasapa Limestone - VERY HIGH SUSCEPTIBILITY
Susceptibility rating between 50 to 54 where aquifer
Pahasapa Limestone Absent

Pahasapa Limestone Present in Subsurface

EXPLANATION

Wells penetrating Madison aquifer

Unimproved Road
Paved Road
Highway
Railroad
Springs
Intermittent Stream
Perennial Stream
Hot Springs

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Summary of criteria associated with the Madison aquifer. Number falling within the range area indicates the susceptibility rating for aquifer susceptibility adapted from Miller, 2005.