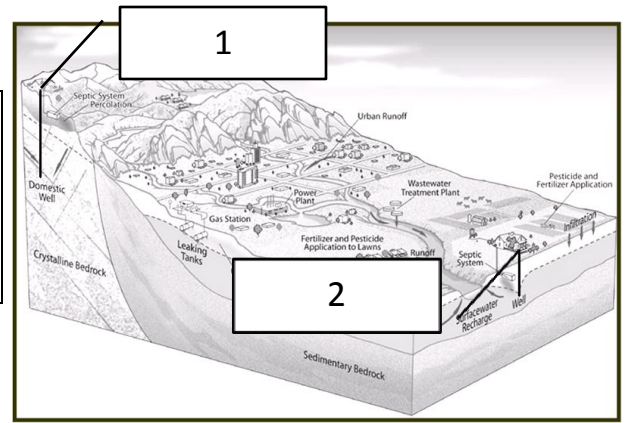


Round: 7B

Refer to Figure 1 to answer the following questions.

Figure 1: Map of Community Freshwater Supply



1. Two residences, each with their own water well, are marked with the numbers 1 and 2. Which one of the two wells is in more danger of having their water polluted? (2 pts)
2. What is the main source of the pollutant in the endangered well? (2 pts)
3. (a) Heavy pumping at the endangered well has caused what ground water table feature to develop? (2 pts)
(b) Why can this feature cause further contamination of the well? (2 pts)
4. Why is the other well safe from any type of pollutants? (4 pts)
5. List two (2) point sources of pollutants visible in the figure. (2 pts)
6. List two (2) non-point sources of pollutants visible in the figure. (2 pts)
7. Downstream, the river in the diagram flows into one of the Great Lakes, where severe algal blooms have recently developed. Given what you know of the upstream environment, name two (2) elements which may be responsible, and list the most likely pollution source. (4 pts)