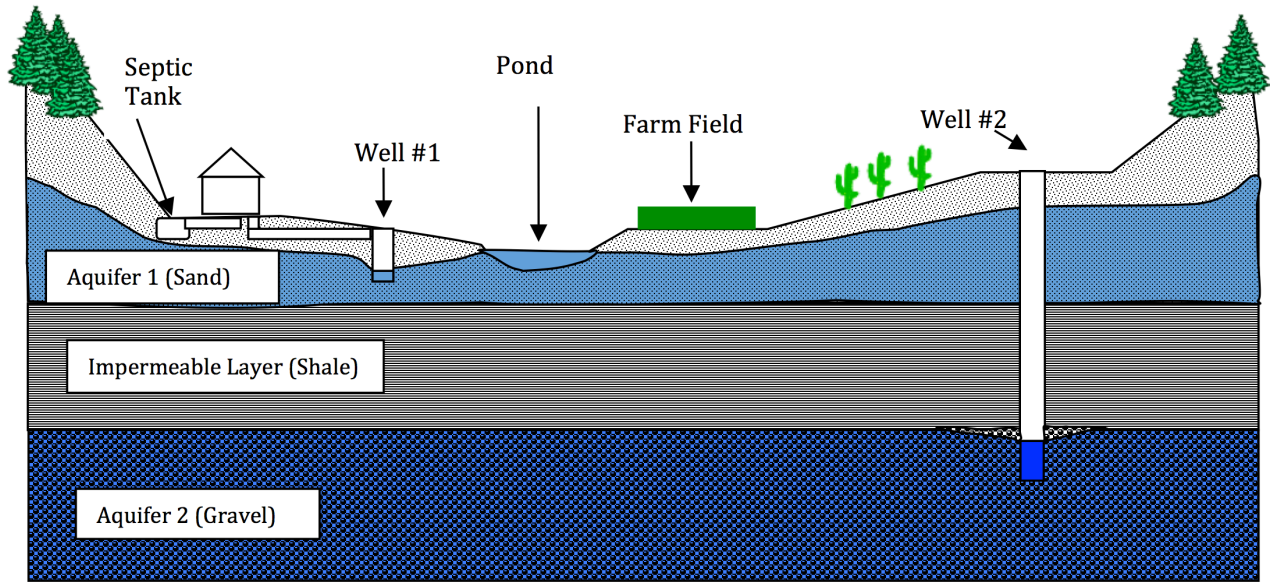


Montana Groundwater Academy Pre/Post Questions

Student Name:	School Name:
Today's Date:	Course Name:
Class Period:	Year (circle one): Freshman Sophomore Junior Senior

Dear Student,

We'll use these pre and post program questions to understand how good of a job we're doing helping students learn about water systems in Montana. Your answers will not be used to grade you and will be kept confidential by the project personnel. To help us continue to improve the Montana Groundwater Academy, please provide responses to the best of your ability, but don't worry about being "right" or "wrong." Thank you very much!



Use the diagram above to help you answer the next two questions. Assume the wells are solid pipes except at the bottom.

1. How does the water get into the pond? Explain as many pathways as you can.

2. Could pumping from well #1 affect the water in the pond? (Circle one) **Yes** **No**

Could pumping from well #2 affect the water in the pond? (Circle one) **Yes** **No**

Explain your answers.

3.

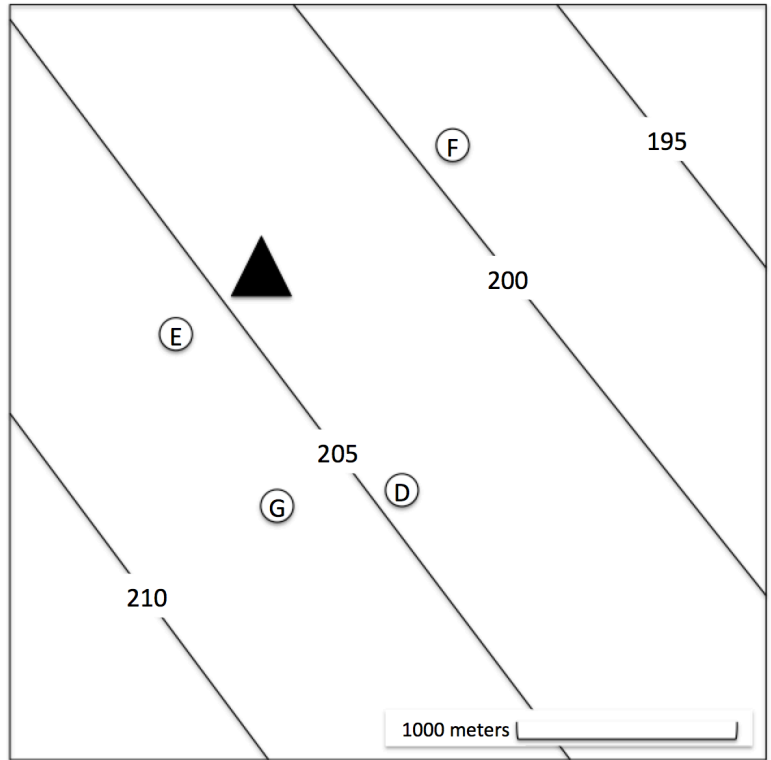
The contour lines on the map to the right show the groundwater elevation above sea level (in meters).

The triangle represents a septic tank and drain field, and the circles show the locations of different wells.

If someone installed the septic tank incorrectly and septic wastes percolated into the groundwater, in which well would contaminated groundwater most likely be detected first?

Select one:

- D
- E
- F
- G



Why would contaminated water be detected first in the well you chose?

For each question below, rate your level of agreement.	Strongly Disagree	Disagree	Neutral	Agree	Strongly Agree
4. I have a good overall sense of where, how, and why water moves underground.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5. I know how to investigate groundwater flow in different locations.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6. I am aware of some ways that climate change could impact water resources in Montana.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7. I know what actions people can take to protect groundwater where they live.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8. Through my own personal actions, I can make a difference in protecting water resources in Montana.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9. It is important to me that water resources in Montana are protected now and in the future.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10. I am personally committed to participating in actions and decisions to protect water resources in Montana.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Thank you!