

Name: _____

Date: _____

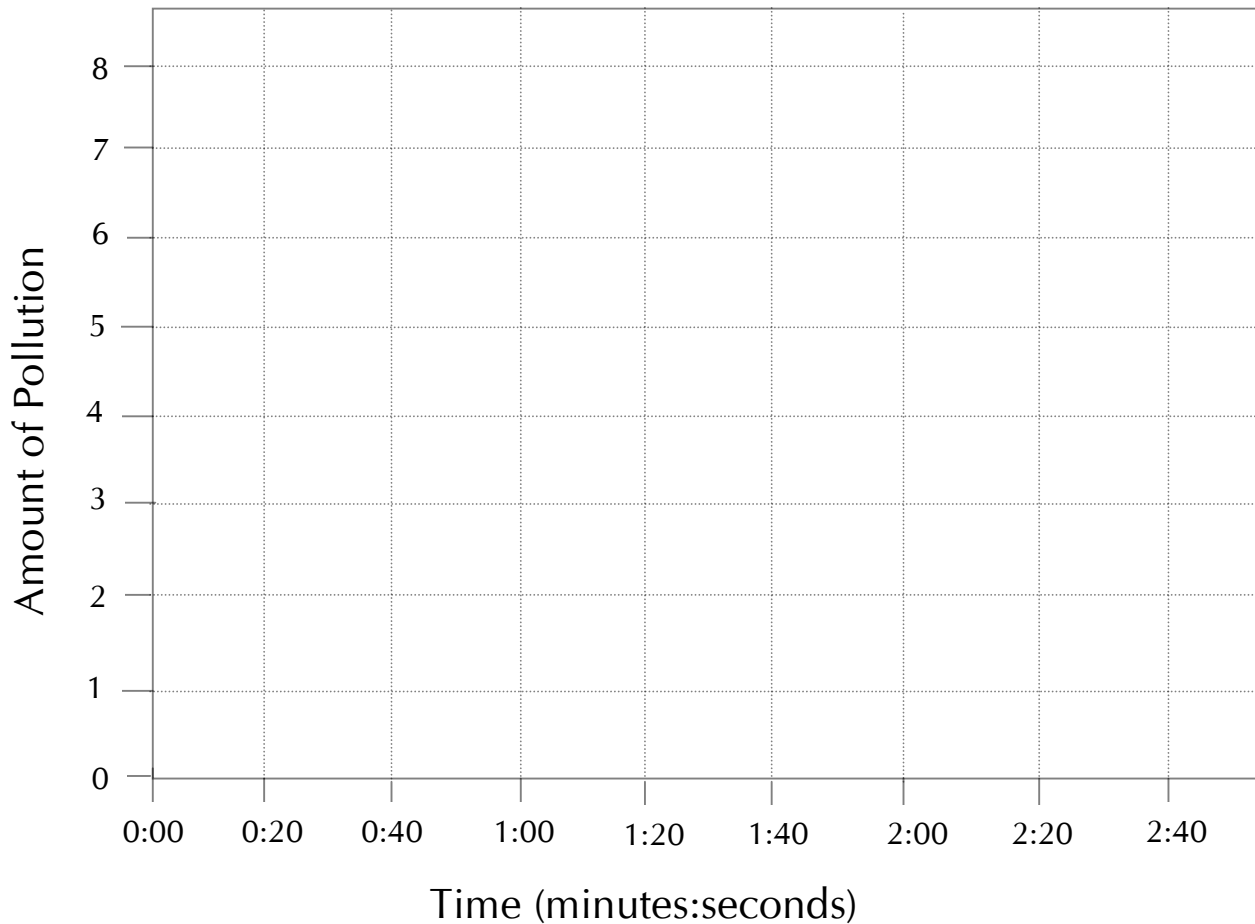
Graph Your Results:

On the template below, chart the intensity of pollution found in water from each soil type at different points in time. Use different colors or symbols to represent each soil sample tube, and make a key to help explain your graph.

Create a title for this graph. Use information from both axis labels.

GRAPH TITLE: _____

Key	
Column A:	(Coarse)
Column B:	(Med/Clay)
Column C:	(Fine)
Column D:	(Medium)

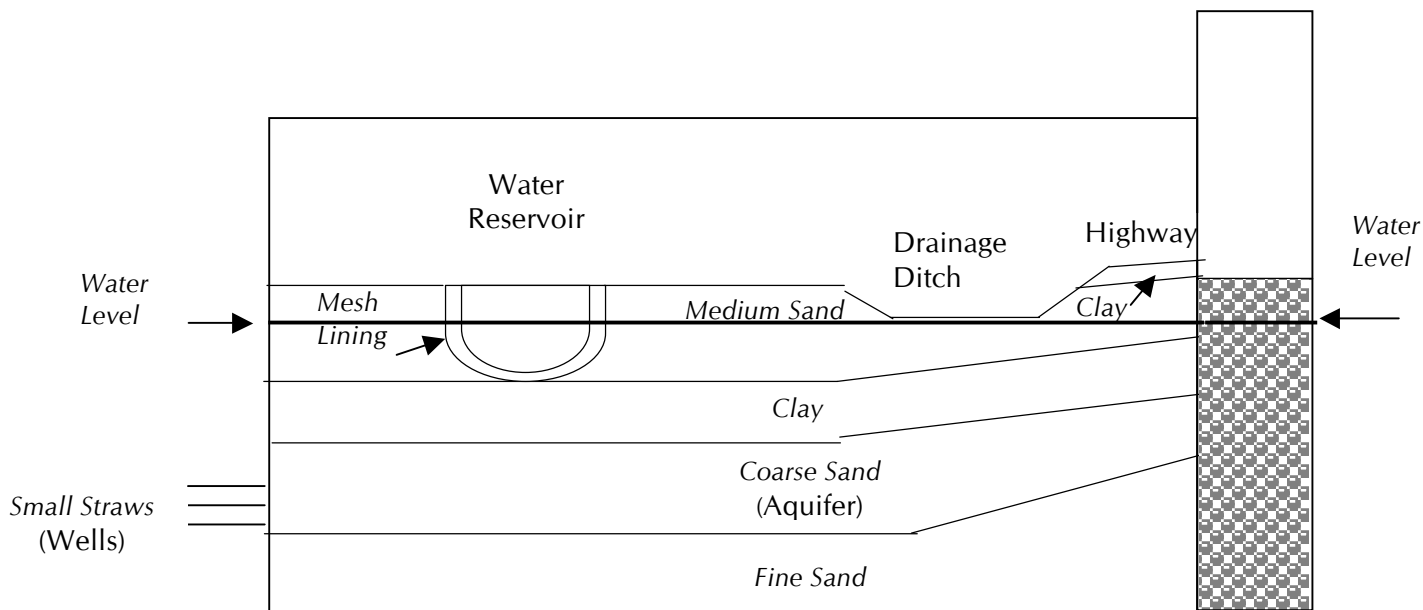


The Groundwater Model: *Road Salt Story*

Background Story

The drawing below shows a section of the ground near a large highway, which goes past a fresh water reservoir (this looks like a pond). Both rain and snow get washed off of the road into the nearby drainage ditch. The ditch is dry unless it is raining.

People in the area get their drinking water by pumping water from the coarse sand layer into the reservoir. People also collect drinking water from wells that tap straight into groundwater collected in the coarse sand **aquifer**.



☆ Challenge ☆

☆ In mid-winter, a DPW crew salts the roads. They have one extra drum of salt that they were supposed to use, but didn't. **They bury it, (in the medium sand layer) near the highway, hoping it won't be found.**

Mark with a "☆" the place in your model that you will bury your pollutant. Make sure that the tablet is near the plexiglass wall.

Summary (true/false)

- | | | |
|--|------|-------|
| 1. Underground water always flows straight down. | True | False |
| 2. Pollution can travel with water. | True | False |
| 3. Water flows fastest through soils with larger grain sizes. | True | False |
| 4. It is impossible to measure the amount of a pollutant in water. | True | False |