**Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_**

**Geology: Groundwater Stations**

**Station #1: Investigating Groundwater computer activity**

1. **Go to the following link:** [**http://earthguide.ucsd.edu/earthguide/diagrams/groundwater/**](http://earthguide.ucsd.edu/earthguide/diagrams/groundwater/)
2. **Read through the prompts and complete each page’s activities.**
3. **Once finished answer the following questions:**
   1. **What is groundwater?**
   2. **How does rain eventually become groundwater?**
   3. **Name 3 tasks groundwater helps us complete.**
   4. **What is a well?**
   5. **How does a well work & how is it like a straw?**
   6. **How can a cone of depression grow larger?**
   7. **Can the original shape of the water table ever return? Why or Why not?**

**Station #2: Looking at New Mexico Groundwater Contamination**

1. **How many incidents have been documented by the New Mexico Oil Conservation Divison (NMOCD) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
2. **More than half of the groundwater contamination incidents have occurred from what? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
3. **What percentage of NM incidents are caused by oil and gas pits? \_\_\_\_\_\_\_\_\_\_\_\_\_**
4. **From Tank Batteries?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
5. **From Class V Injection Wells?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**
6. **What is a tank battery?**
7. **What is a Class V Injection Well?**
8. **Why do you think pits are responsible for most of the groundwater contamination events?**
9. **The location of most pits causing groundwater contamination is listed as Unspecified. What does this mean? (Look at the NOTE at the bottom of the graph)**
10. **What are the top 5 companies that are responsible for groundwater contamination from pits?**
11. **What percentage do these 5 companies account for in total groundwater contamination incidents?\_\_\_\_\_\_\_\_\_\_\_\_\_**
12. **Most of the groundwater contamination occurs in what NM county?**
13. **According to OCD data, most groundwater contamination from oil and gas facilities is how far beneath the surface?**

**Station #3**

1. **List at least 3 reasons we should protect groundwater sources**
2. **List at least 4 causes of groundwater contamination**