Names: _____

Post Lab Questions: 7-Solution Problem http://chemconnections.org/general/chem120/solutions-mixes.108.html

1. If the maximum concentration of a saturated sodium chloride solution is 5.9M, how many liters of water would a Peruvian salt farmer need to process in order to produce one 50.0 kilogram bag of salt. (Assume that there are no other salts present. Show your calculation.)

- 2. If the Peruvian water has a TDS of 10.0 grams per liter of water, would it be within the safe limits of drinking water by U.S. standards? (Explain your answer.)
- 3. The following table includes chemicals that may be found in tap water. Complete the table for allowable limits.

	Allowable Limit
Nitrate	
Fluoride	
Mercury	
Lead	

- 4. What were the highest tested levels of lead in Flint Michigan's drinking water during the crisis?
- 5. What was the length of time that Flint residents were exposed to higher than allowable levels of lead?
- 6. What are the neurological effects of lead exposure particularly on children and infants?