

Last Homework due August 3

1. The following data for concentration of TCE were taken at a single monitoring well. Use the Mann-Kendall test to determine whether the concentration has an upward or downward trend.

Date	TCE (ppb)
9/92	8
12/92	19
3/93	21
6/93	13
9/93	39
12/93	24
3/94	28
6/94	25

2. Problem 11-1.
3. Problem 11-2.
4. Problem 11-4.
5. A fuel mixture includes benzene, toluene, and ethylbenzene at mole fractions of 0.075, 0.065, and 0.035, respectively. The mixture is allowed to come to equilibrium with the atmosphere at 25°C. Find the concentrations of these VOCs in the air in mg/L and $\mu\text{g}/\text{m}^3$. Figure 4.13 and Table 7.1 will be helpful.