**Save a Life, Clean Some Water! Activity –
Let’s Clean Some Water!** **Data Worksheet**

**Instructions**

Turbidity - measure in cm if using a Turbidity Tube and NTU (or FTU) if using a turbidimeter

Total Coliforms – count blue and red dots on the Petrifilm

*E. coli* – count only blue dots on the Petrifilm

|  |  |  |  |
| --- | --- | --- | --- |
| **Parameter** | **Influent Water** | **Effluent Water** | **Improvement (%)** |
| **Turbidity (cm or NTU)** |  |  |  |
| **Total Coliform (CFU)** |  |  |  |
| ***E. coli* (CFU)** |  |  |  |

**Calculating Improvement**

(Influent – Effluent)

x 100 = Percent Improvement

Influent

If measuring turbidity in cm, use the following equation(because in this case a higher number indicates lower turbidity)**:**

(Effluent – Influent)

x 100 = Percent Improvement

Effluent

**Questions**

1. Did your water filtration/disinfection system work?
2. Was there a decrease in turbidity and coliforms?
3. Did the treated water meet WHO or US EPA recommendations for turbidity, total coliforms, and E. coli?
4. Describe your results.