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

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Influent Water</th>
<th>Effluent Water</th>
<th>Improvement (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Turbidity (cm or NTU)</td>
<td></td>
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<tr>
<td>Total Coliform (CFU)</td>
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<tr>
<td>$E.\ coli$ (CFU)</td>
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</tbody>
</table>

Calculating Improvement

$$\frac{(\text{Influent} - \text{Effluent})}{\text{Influent}} \times 100 = \text{Percent Improvement}$$

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

$$\frac{(\text{Effluent} - \text{Influent})}{\text{Effluent}} \times 100 = \text{Percent Improvement}$$

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. _________________________________________________________
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Water Quality: Save a Life, Clean Some Water Activity – Let’s Clean Some Water! Data Worksheet