## Soil Contamination Worksheet

## Record your calibration data in the table below.

|  |  |  |
| --- | --- | --- |
| **Table 1: Soil Contamination Calibration** | | |
| **Material** | **Number of Dye Drops** | **Percentage of Reflection** |
| **clean sand** |  |  |
| **contaminated sand** |  |  |
| **contaminated sand** |  |  |
| **contaminated sand** |  |  |
| **contaminated sand** |  |  |
| **contaminated sand** |  |  |

## Below, sketch the location of the simulation river and wells. Label the wells by number.

## Record your experimental data in the table below.

|  |  |  |  |
| --- | --- | --- | --- |
| **Table 2: Soil Contamination Experiment** | | | |
| **Well #** | **Percentage of Reflection** | **Visual Observation** | **Number of Drops** |
| Well 1 |  |  |  |
| Well 2 |  |  |  |
| Well 3 |  |  |  |
| Well 4 |  |  |  |
| Well 5 |  |  |  |
| Well 6 |  |  |  |

## Do your visual observations match the number of drops you calculated? Explain.

## What are possible sources of error?

## How might you improve this experiment for next time?