**Table # \_\_1\_\_\_\_\_\_\_\_\_\_**

**Names \_Leslie, Michelle,Amanda,Scott \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Water Analysis Data Collection**

**Glucose fermentation tubes**

|  |  |  |  |
| --- | --- | --- | --- |
| Tube ID  (Dilution 1:2) | Media Description  (color, turbidity, sediment, etc) | Presence or absence of gas | On a scale of 1 – 5 describe the transparency of the media |
| 1 (1:1) | Yellow, clear |  | 2 |
| 2 (1:2) | Clear/white, turbid | Presence of gas | 5 |
| 3 (1:4) | Yellow, clear |  | 2 |
| 4 (1:8) | Yellow, clear |  | 2 |
| 5 (1:16) | Yellow, clear |  | 2 |
| 6 (1: 48) | Yellow, clear |  | 2 |
| 7 ( 1: 144) | Yellow, clear |  | 2 |
| 8 (1:432) | Yellow, clear |  | 5 |

Enumeration and Description of Colonies on Nutrient Agar Plates and Membranes

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Plate ID | Total Number of Colonies | Number of Different Colonies | Other Observations/Comments | **Coliforms/100 mL** |
| Nutrient agar Plates | 43 | 7 | Each colony has a different color and elevation | 430 |
| Membrane Filtration  (Dilution 1:2) | 65 | 5 | Each colony is not only different by color but shape and size | 650 |

**How to calculate the number of coli form per 100 mL of sample**

Coliform/100mL = (Number of colonies counted) X 100/(Sample Size, (10) mL)