



# BACTERIA SAMPLING



Jamul Indian Village of CA

# Parameters Tested

- Surface Water Chemistry
  - pH
  - Temperature
  - Dissolved Oxygen
  - Turbidity

# Parameters Tested

## □ Issues:

### □ Stream water was brown and bubbly

- Limited info attained from 4 mandatory parameters
- Still didn't know what was causing H<sub>2</sub>O issues

### □ Tribal members want more info

- Outreach on water testing insufficient

## □ Solution:

### □ Purchase equipment to test for bacteria

# Expanded Testing Capabilities

- Tribe Purchased:
  - WaterCheck test kits
    - Screens to detect sewage using presence/absence test
    - Uses Reagent
    - Reagent . Compound used to see if reaction occurs



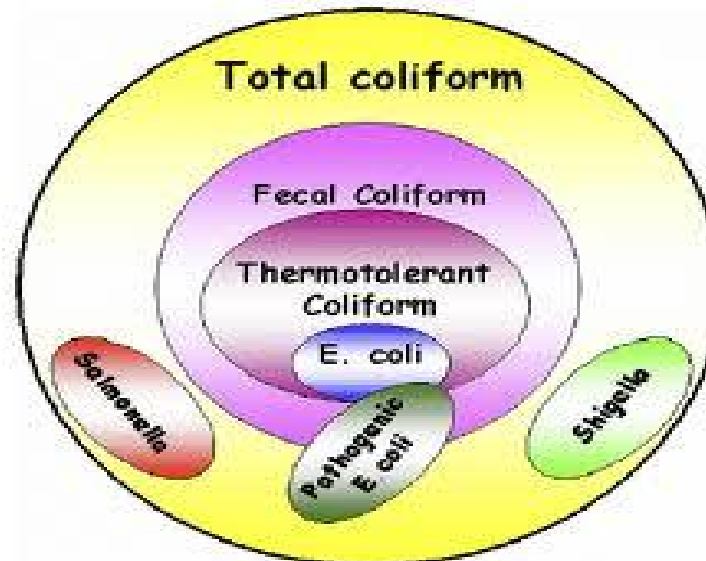
# Expanded Testing Capabilities

- Tribe Purchased:
  - Coliplates . Measures total coliform and e coli
  - Incubator . Heats sample



# Bacteria Types

- Total Coliform
  - Collection of different types of bacteria's.
    - Fecal Coliform, E. Coli
  - Common in soil and vegetation
    - Generally harmless



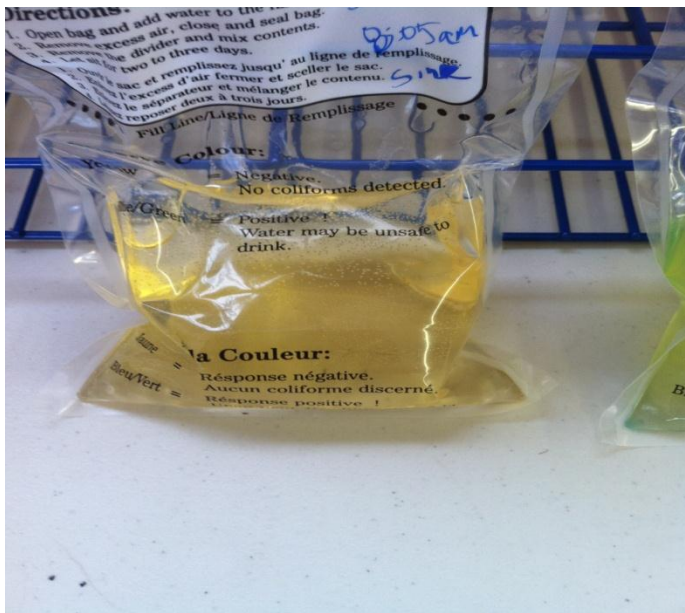
# Bacteria Types (Contd)

- E. Coli
  - Subgroup of fecal coliform
  - Exist in intestines of warm-blooded animals
  - Presence in h<sub>2</sub>o indicates recent fecal contamination



# WaterCheck Results

## Control Sample

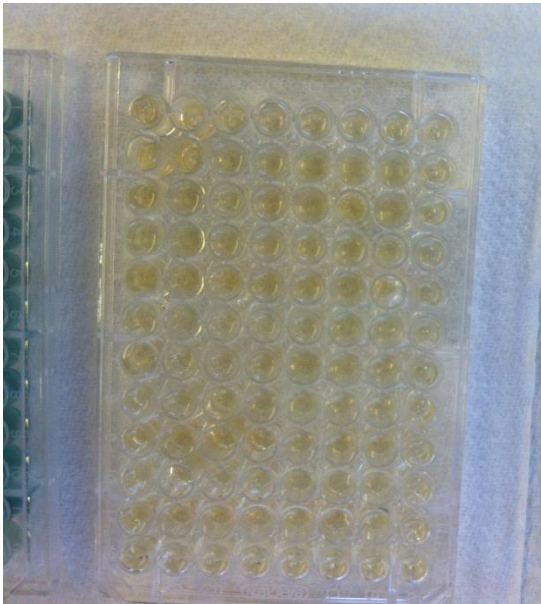


## Positive Sample

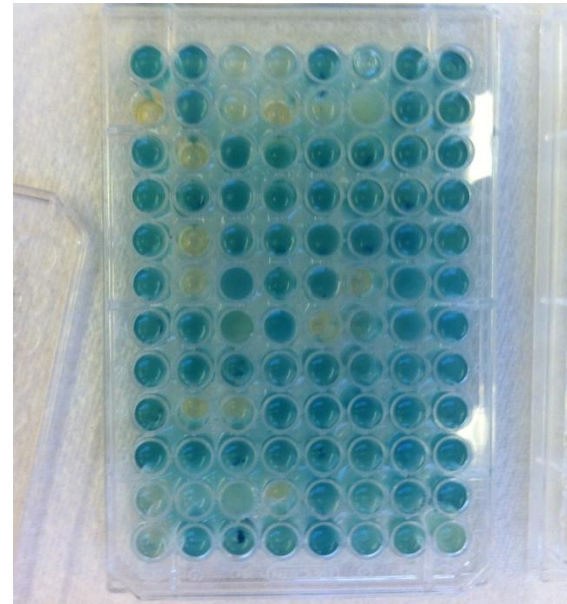


# Results (Total Coliform)

Control Sample



Positive Sample

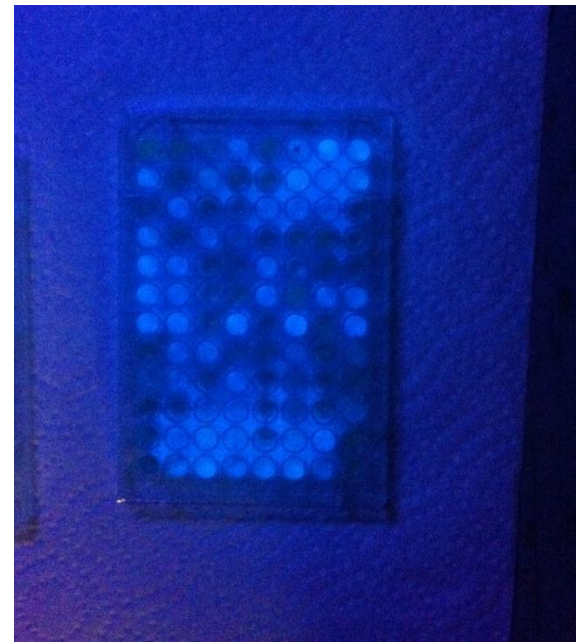


# Complete Results (E Coli)

Control Sample



Positive Sample





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