



Analysis of microbiological stability in different water samples



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Water Samples:

- 1) Strawberry creek water at UC-Berkeley
- 2) Tap Water
- 3) Chevron Refinery's Richmond Advanced Recycling Expansion

Water Analyses:

- 1) Microorganism:
 - a) Flow cytometry (FCM)
 - b) Adenosine triphosphate (ATP)
- 2) Nutrients:
 - a) Assimilable organic carbon (AOC)

I. Flow cytometry graph of Strawberry creek water:

-Using the total cell count method with SYBR Green as the dye.

-FL1-A represents the fluorescence intensity of the green light.

-FL3-A represents the fluorescence intensity of red light.

-Black dots inside the red gated area represent the total cells in the water, and dots outside the gated area represent debris and natural organic matter in water.

