

Title: Implementation of Cellulose Acetate –Block copolymer Membranes in the Adsorption of Antibiotics from Water

Summary:

Throughout this project, we have been developing membranes composed of cellulose and the block-copolymer P4VP-PEO to be used in the absorption of select organic contaminants from bodies of water. The membranes are currently being tested under strict parameters to quantify their effectiveness. Some of the tests that are or will be underway in the following months are: isotherm, kinetic, and reusability capability. The next step of the project will be focused on implementing the use of these membranes in samples of water collected from local sources available to the public. The problems to be attended in the next step are the identification and quantification of contaminants in the samples of local water and the quantification of the specific contaminant absorbed by the membranes.