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OCN 418

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One Page Proposal

OCN 418 Project Proposal

I have been working at a dive shop (Waikiki Dive Center) for about 4 months now. We dock one of our boats (Snoopy V) at the Kewalo basin boat harbor. One thing that I have had concerns about is if gas runoff from the boats have a great effect on the marine ecosystems in and around the harbor. Another thing that bothers me as well is that there is a popular surf break straight out from the harbor, can the oil/gas from the boat negatively effect surfers in that area as well?

Objective

To measure and observe the amount of gas/oil from boats have gone into the harbor. See the impacts on the ecosystems in the harbor and come up with an outcome to lessen the amount of oil and gas that will get into the harbor in the future and what to do about this problem.

Impact/Value of this project

If this project gets put in place it can be something we do for every harbor on island. All of these areas should be well protected as there are so many boats and harbors on this island. It’s good to know and understand the negative effects of potential oil and gas exposure in these environments. Cleaning up harbors of the gas and oil (if possible) could have a very positive impact.

Supplies Needed

* Raspberry Pi
* Bread Board
* Conductivity Probe (to measure content of the solution)
* tools to be able to retrieve samples from the harbor (bottles to collect samples, gloves, etc)