

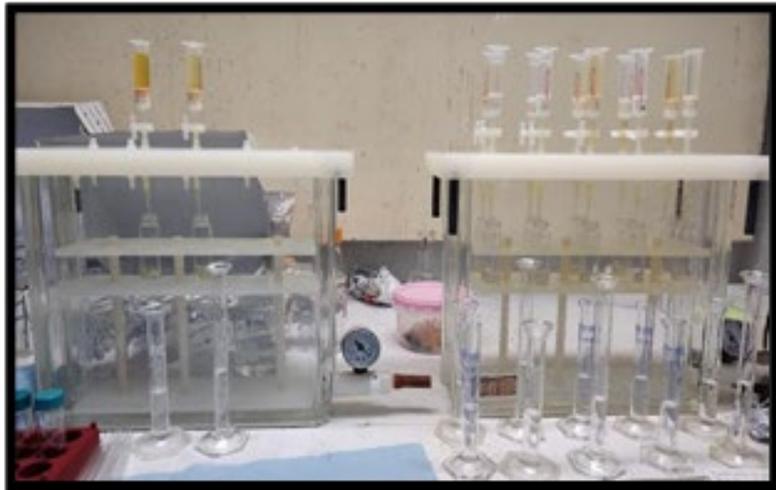
Project Update: August 2022

Sample analysis was carried out in the Coastal Environmental Sciences Laboratory, Chemistry Unit in Sisal, Chemistry faculty-UNAM. Samples were lyophilized previous to analysis. An ultrasound assisted extraction (UAE) was realised by employing an ultrasonic processor and solid phase extraction. Lastly, samples were injected into a gas chromatograph coupled to a gas spectrometer with an automatic injector. The compounds of interest were identified and quantified by reviewing the obtained chromatograms. Until now, polycyclic aromatic hydrocarbons and organochlorine pesticides are present in the dermic tissue of the whale shark, in zooplankton, and in phytoplankton.

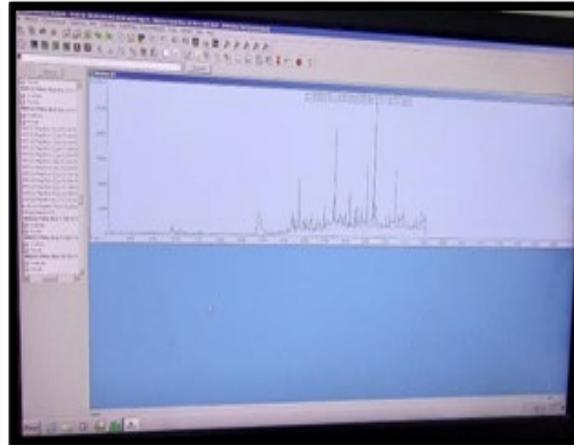
Microplastic analysis results will we obtained in September 2022.



Left: Sample lyophilization. Right & below: Lyophilized samples of zooplankton, phytoplankton, and whale shark.



Left: Ultrasonic probe. Right: Solid phase extraction.



Gas chromatograph coupled to a mass spectrometer, and a chromatogram.