

COMFORT SORINOLU

STUDENT, BIOLOGICAL AND ENVIRONMENTAL SCIENCES

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POLYCYCLIC AROMATIC HYDROCARBONS (PAHS) CONCENTRATION, IN WESTSLOPE CUTTHROAT TROUT (*ONCORHYNCHUS CLARKII LEWISI*) MUSCLE TISSUES ENSC 493

Various studies on bioaccumulation of PAHs in organisms, have been done broadly. Only a few studies were done with the utilization of westslope cutthroat trout (*Oncorhynchus clarkii*). This experimental research sampled 150 O. c. lewisi trouts, from six different populations with different elevations, from the Alberta Rocky Mountain streams. The QuEChERS extraction method was used to perform the extraction of PAHs compounds in O. c. lewisi muscle tissues. In this study, three PAHs were examined: Naphthalene, Anthracene and Pyrene. These PAHs compounds can be found in pyrogenic and petrogenic sources. The overall objective of this study is to distinguish the levels of PAHs concentration in O. c. lewisi muscle tissues, in relation to the influence of varying populations and geography elevations.

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