Water Monitoring with Passive Sampling using DGT Devices

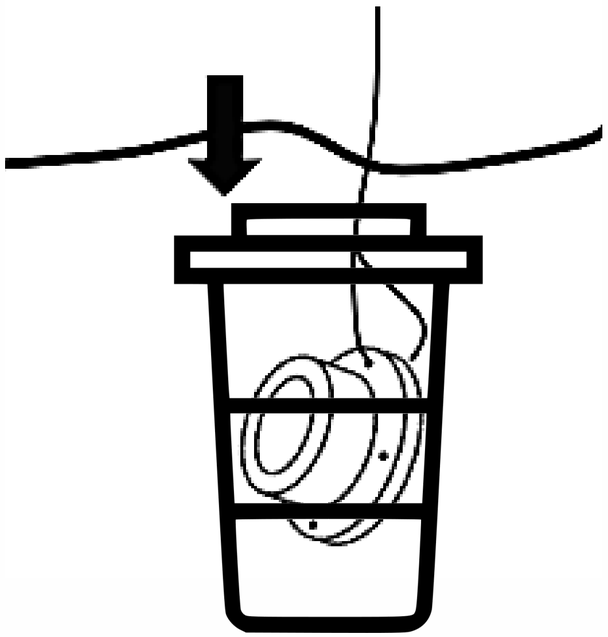
Launch Date: May 2021
Sampling Month Tracker

Heavy metals are naturally found in lake waters but only at trace amounts because most are toxic even at very low concentrations.

High concentrations of these metals pose a risk for human health and the condition of the lake.

Laguna Lake, Philippines

What is setup here?



The **diffusive gradients in thin films (DGT)** is a passive sampler that is used to measure such concentration, specifically of contaminants in water quality monitoring.

This device can detect the heavy metals present in Laguna Lake. Too much amount of these metals can **indicate pollution**.

Image Source: DGT Research via https://www.dgtresearch.com/product/lsnm-loaded-dgt-device-for-metals-a-in-solution/ (Back) and PinClipart.com Inc. via https://www.pinclipart.com/downpngs/iThmJwx_coffee-cup-clipart-togo-png-download (Front)

An infographic on the sampling method of the project titled,
"Tools and Methods in Establishing Lake Resource Vulnerability Index and Assessing Pollution Abatement Technologies towards a water quality improved Laguna Lake."

Jessica D. Villanueva-Peyraube, *Ph. D.*
Project Leader

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Macabling, Sta.Rosa City, Laguna

Launch Date: May 2021
Sampling Month Tracker

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Location on Laguna Lake

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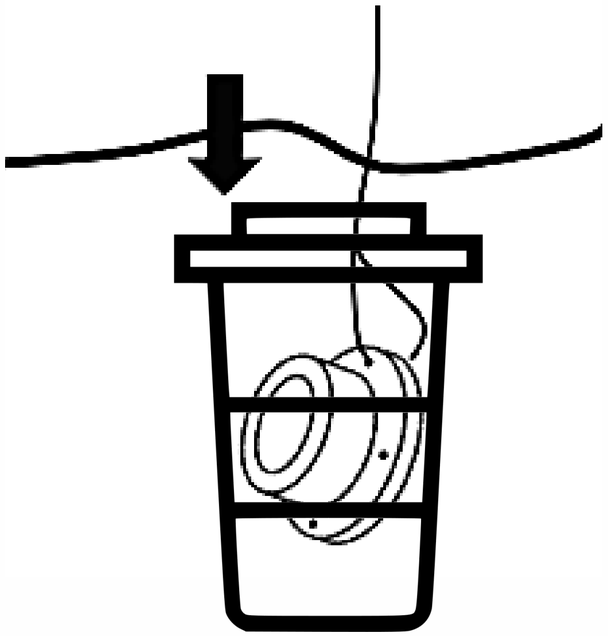

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Marinig, Cabuyao City, Laguna

Launch Date: May 2021
Sampling Month Tracker

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Location on Laguna Lake

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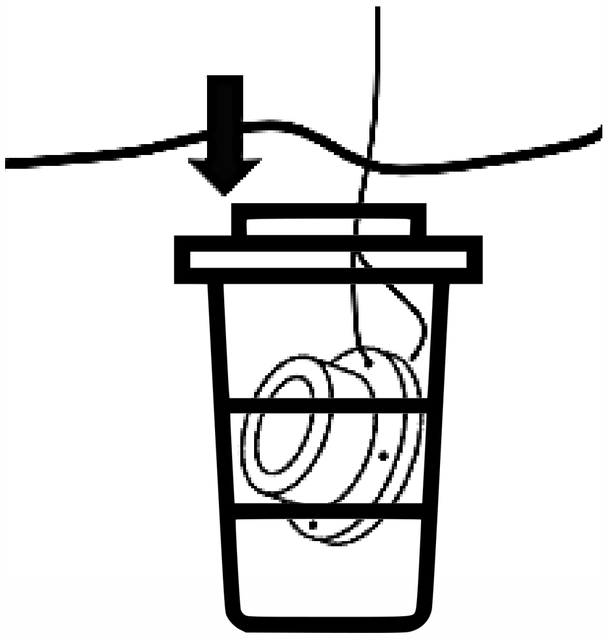

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Looc, Calamba City, Laguna

Launch Date: May 2021
Sampling Month Tracker

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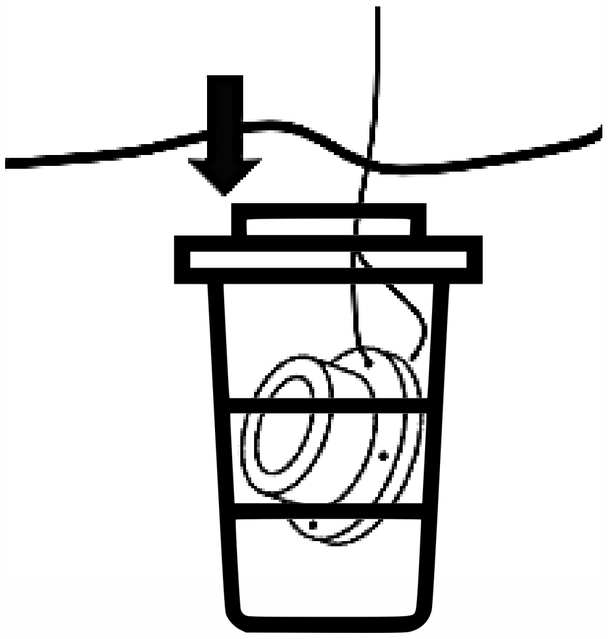

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Bayog, Los Baños, Laguna

Launch Date: May 2021
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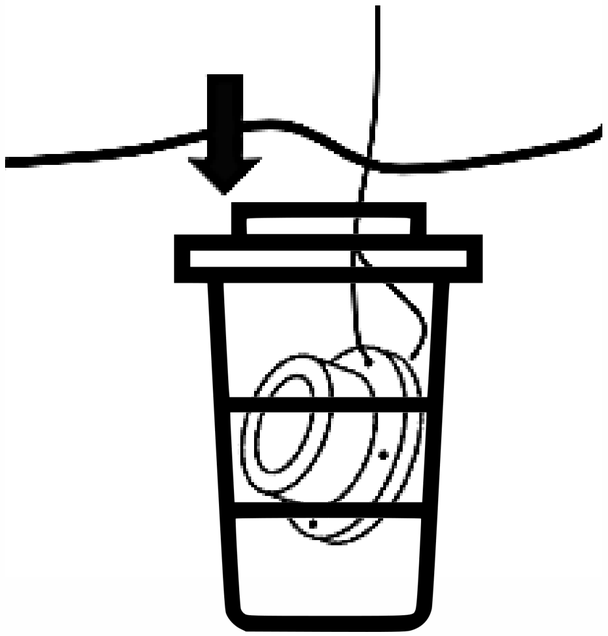

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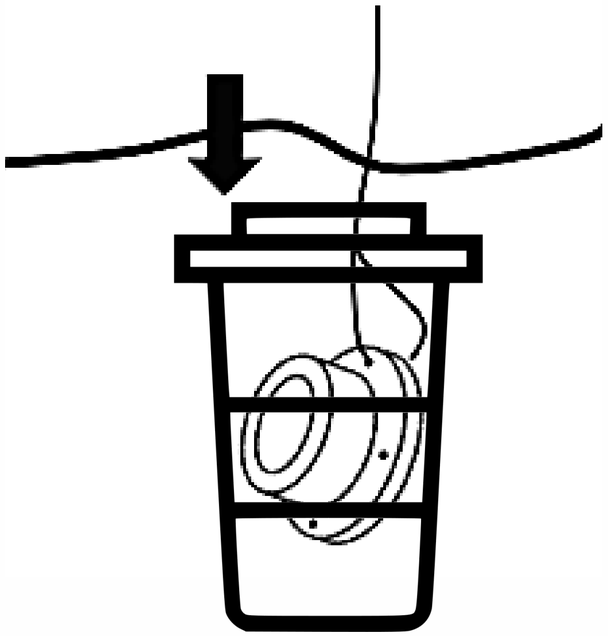

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Aplaya, Pila, Laguna

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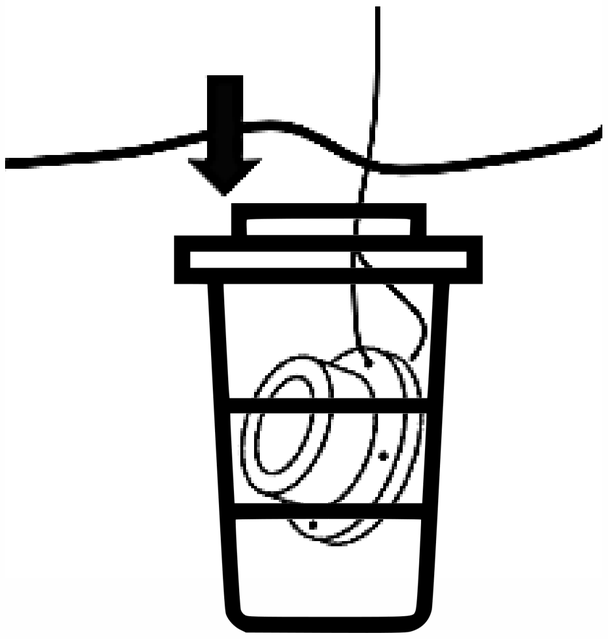

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Water Monitoring with Passive Sampling using DGT Devices

Barangay Wawa, Lumban, Laguna

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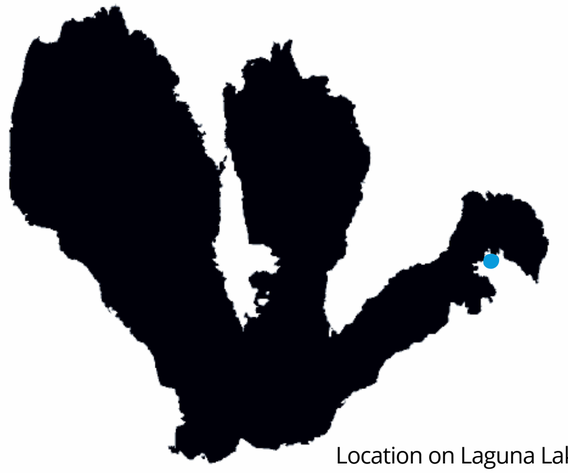

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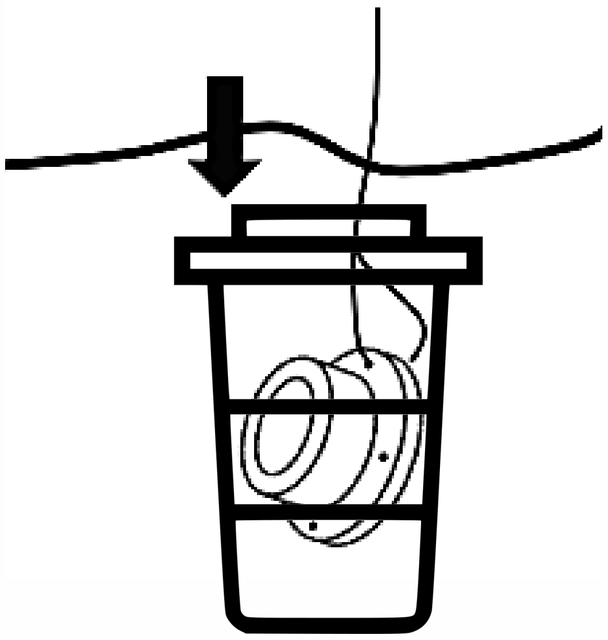

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