

Analysis of Algae Pigments & C, N-ISOTOPES in Sediments SAMPLING INSTRUCTIONS

(detail protocol can be provided upon request)

1. All samples should be shipped by overnight courier. Some characteristics of the sampling protocol as well as the sample weight required for analysis are presented in the table below:

<u>Analysis</u>	<u>Sample Size</u>	<u>Preservative & °C</u>	<u>Hold Time</u>
Pigments	200-500mg	No Light, None, -20 °C	14 days
C, N isotopes	100-200mg	None, 4 °C	14days

2. For Pigments analysis, if it is a sediment core it must be kept frozen, flushed with N₂, sealed and wrapped in tin foil to prevent from light exposure.
3. Small quantities of sediment samples (see the table above) aimed for Pigment analysis is placed in a 40ml plastic conical centrifuge tube.
4. Flush “pigment” samples with N₂, seal, and wrap in tin foil to protect from light. Store samples in a cooler with DRY ICE.
5. Place each sediment sample for isotope analysis into a 40ml plastic conical centrifuge tube.
6. Transfer all “pigment” samples to a freezer (at least – 20°C) and keep them there until the shipment (**No longer than 48 hrs**).
7. Store all samples for Isotope analysis in a cooler or sample container.
8. On the sample cooler clearly identify:
 - i. Client name and address
 - ii. Sample site or project ID
 - iii. Sample date and time
9. Fill out Chain of Custody (COC) provided specifying in it
 - a. Client name, address, telephone number and e-mail address
 - b. Sample matrix and sample IDs
 - c. Type of analysis required
 - d. Sampling date and time, other information required in COC
10. **SHIP samples** overnight in a cooler !! **For Pigment analysis, all samples must be shipped in a cooler with DRY ICE (- 80 °C)!!**
11. All samples should arrive at the lab within 48 hours of sampling.

1