



**SOEST LABORATORY**  
FOR ANALYTICAL BIOGEOCHEMISTRY

University of Hawaii at Manoa

## S-LAB price list for non-UH Federally funded researchers

More information regarding sample preparation, analyses and laboratory protocols are provided on the website:

[www.soest.hawaii.edu/S-LAB](http://www.soest.hawaii.edu/S-LAB)

	Instrument	Prices
<b>Water Samples</b>		
Dissolved inorganic nutrients <sup>a</sup>	Seal AA3 Auto Analyzer	\$27/ sample
Dissolved organic nutrients (TN+TP) <sup>b</sup>	Seal AA3 Auto Analyzer	\$21/ sample
Total dissolved phosphorus (TDP) via HTA <sup>c</sup>	Muffle furnance, shaker, centrifuge and AA3	\$11/ sample
High-temp DOC/TDN	Shimadzu TOC-V	\$21/ sample
Dissolved inorganic carbon <sup>d</sup>	VINDTA and Coulometer	\$68/ sample
Titration <sup>e,d</sup>	Metrohm Titrand	\$21/ sample
Conductivity <sup>d</sup>	Metrohm Titrand	\$7/ sample
Alkalinity <sup>d</sup>	Metrohm Titrand	\$34/ sample
<b>Particulate Analysis (sediments or filters)</b>		
Carbon & Nitrogen (CN) <sup>f</sup>	Exeter Elemental analyzer	\$8/ sample
Carbon & Nitrogen & Sulfur (CN+S) <sup>fg</sup>	Exeter Elemental analyzer	\$16/ sample
Total P via Aspila	Muffle furnance, shaker, centrifuge and AA3	\$14/ sample
Inorganic P via Aspila	Muffle furnance, shaker, centrifuge and AA3	\$14/ sample
Inorganic carbon <sup>d</sup>	UIC Acidification module and Coulometer	\$27/ sample
Chl a <sup>d</sup>	Turner Designs Fluorometer	\$10/ sample
Turbidity	Hach turbidity meter	\$5/ sample
<b>User Based Charges<sup>h</sup></b>		
Cost for user to run coulometer per hour: DIC (water) and IC (sediments)	UIC Coulometer	\$14/hr
Cost for user to run titrando per hour: Alkalinity, DO, Salinity	Metrohm Titrand	\$14/hr
Cost for user to run fluorometer per hour: Chl a, filters or sediments	Turner Design Fluorometer	\$14/hr
<b>Additional Facility Charges</b>		
Hourly Tech Charge for training purposes:		\$109/hr
Filter and sediment prep for CNS analysis:	<i>per sample charge</i>	\$7/ sample
Acidification treatment for CNS analysis:	<i>per sample charge</i>	\$4/ sample
pH adjustment of water samples for AA3:	<i>per sample charge</i>	\$10/ sample
Dilution of water samples for AA3:	<i>per sample charge</i>	\$10/ sample

**Notes:**

<sup>a</sup>Includes (NO<sub>3</sub> + NO<sub>2</sub>, PO<sub>4</sub><sup>3-</sup>, NH<sub>4</sub><sup>+</sup>, H<sub>2</sub>SiO<sub>4</sub>)

<sup>b</sup>via UV oxidation in line with autoanalyzer

<sup>c</sup>TDP determined by the high temperature ashing method of Solorzano and Sharp (1980), modified by Monaghan and Ruttenberg (1999), which provides more complete recovery of all types of DOP compounds than more widely used methods; samples to be run on autoanalyzer after oxidation.

<sup>d</sup>Analyses can be conducted by facility users for an hourly rate (see user based charges)

<sup>e</sup>Titration include dissolved oxygen, calcium, magnesium, chloride, fluoride

<sup>f</sup>Samples must be wrapped and ready for analysis

<sup>g</sup>Sulfur can not be measured on filters

<sup>h</sup>Training prior to facility instrument use is mandatory