

Marine Biogeochemical Parameter Measurement Laboratory (MBL)

Detailed Rules for Full-Service Sample Analysis and Fee Schedule

Establishment & Purpose: To demonstrate Academia Sinica's dedication to serving the oceanographic research community and align with the NSTC 'Taiwan Marine Observation System (Tai-MOS) Core Facility Project', the Marine Biogeochemical Parameter Measurement Laboratory (MBL) was established in 2025. Headquarters are located at the Research Center for Critical Issues, Academia Sinica (South Campus, Tainan). The facility provides fee-based full-service sample analysis.

Priority Order for Service Users

1. Academic research institutions under NSTC projects.
2. Educational institutions (all levels) under NSTC projects.
3. Academic research institutions and educational institutions (all levels) under non-NSTC projects.
4. Non-academic entities / Commercial vendors.

1. Sample Proxy Testing Guidelines

- **Annual Sample Capacity Caps:** The maximum number of full-service measurement samples accepted per core parameter is capped at 500 samples per year, except for Dissolved Organic Carbon (DOC), which is 800 samples per year. The maximum number of samples accepted per parameter is 250 per half-year.
- **Sample Metadata Requirements:** Submitted samples must clearly specify the collection time, sampling location, pre-treatment procedures (e.g., filtration and preservation methods), and other required metadata.
- **Application & Payment Timeline:** Application forms must be submitted at least 15 working days prior to sample delivery. Analyses will be completed within 20 working days. After the analyses are completed, an invoice and notification will be issued. Experiment data will be released after payment has been received. Expedited or priority processing requests are strictly not accepted.
- **Total Processing Duration:** The estimated processing time from application submission to data delivery is approximately 2.5 months. Delayed delivery will not be accepted.
- **Sample Eligibility:** Full-Service analyses are only available for seawater samples. Non-seawater samples will not be accepted.
- **No Online Reservations:** Due to operational requirements, online reservation services are not available.

2. Attachment: Parameter Capacity & Fee Schedule (2026)

Acceptable sample volumes and prices for corresponding measurements:

Parameters		Service Capacity (Samples/Yr)	Tax-Incl. Price (NTD/Sample)	Tax-Incl. Price (USD/Sample)	Non-Academic Price (NTD/Sample)
Nutrients (Weekly Cap: 80)	Nitrate	500	189	6.5	567
	Nitrite	500	189	6.5	567
	Phosphate	500	189	6.5	567
	Silicate	500	189	6.5	567
Biological Abundance (Weekly Cap: 60)	Picoplankton Abundance	300	105	3.6	315
	Bacteria Abundance	300	105	3.6	315
Dissolved Organic Carbon (DOC) (Weekly Cap: 150)		800	189	6.5	567
Particulate Organic Carbon (POC) (Weekly Cap: 80)		500	189	6.5	567
Chlorophyll a (Weekly Cap: 80)		300	169	5.8	504

* Service capacity and priority strictly governed to the Detailed Rules for Full-Services Sample Analysis of the Marine Biogeochemical Parameter Measurement Laboratory.

* The Marine Biogeochemical Parameter Measurement Laboratory reserves the right to adjust sample service capacity based on operational status.

* Service fees are subject to adjustments due to fluctuations in reagent and consumable cost.