

Services Offered

Analysis of Parameters Essential for Agriculture

16 Accredited Soil Chemical Parameters

- Moisture Content
- pH (H₂O 1:1)
- Electrical Conductivity (EC)
- Available Phosphorus (Bray 1 & Olsen)
- Exchangeable Bases (EB)
 - Calcium
 - Potassium
 - Magnesium
 - Sodium
- Cation Exchange Capacity (CEC)
- Trace Elements (TE)
 - Iron
 - Zinc
 - Copper
 - Manganese
- Total Nitrogen (TN)
- Organic Matter (Walkley-Black - Colorimetric)

Other Parameters:

- pH (CaCl₂ 1:2)*
- Dumas Dry Combustion (TC, TOC, TN)
- Organic Matter (Walkley-Black - Titrimetric)
- Extractable Aluminum*
- Exchangeable Acidity (EA)*
- Salinity/Alkalinity*
 - pH (H₂O 1:1)
 - EC
 - Potassium
 - Calcium
 - Sodium
 - Magnesium
 - Chloride (Cl)
 - Carbonate (CO₃)
 - Sulfate (SO₄)
 - Bicarbonate (HCO₃)

*Undergoing Validation



BSWM Customer Center

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*"Lupa't Tubig ay Pag-ingatan at Pangalagaan,
Tungo sa Maunlad na Agrikultura at Kabuhayan"*



Department of Agriculture
Bureau of Soils and Water Management
Laboratory Services Division

SOIL CHEMISTRY



Our Facilities



Chemistry Laboratory I

Analyses requiring leaching setups (e.g. EB, EA) and pH adjustment of reagents are usually conducted in this laboratory.



Chemistry Laboratory II

pH, EC and Salinity analyses are conducted in this laboratory, as well as centrifugation of samples in various analyses such as TE and Organic Matter.



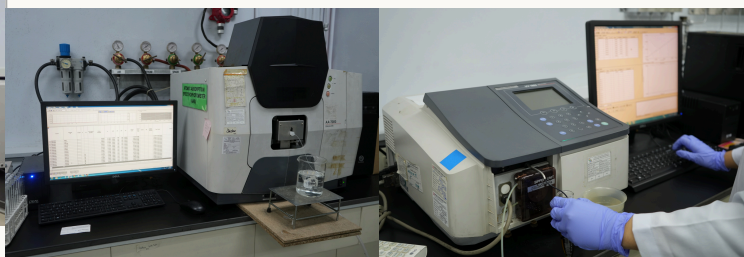
Nitrogen Distillation Room

Analyses involving nitrogen distillation (TN and CEC) are conducted in this room, as well as analyses that require filtration setups (Available P and TE).



Instrument Room

This room contains several equipment units such as AAS (for EB and TE), UV-Vis (for P and Organic Matter), CNS Analyzer with Semi-microbalance (for Dumas Dry Combustion for TC, TOC, TN), and ICP-OES (*for TE and EB).



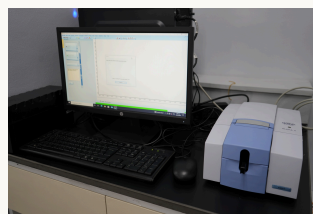
AAS

UV-Vis



ICP-OES

CNS Analyzer



FTIR Spectrometer (MIR)

Staff

Chemists and Chemical Technicians



Florfina P. Sanchez
Chemist IV, Section Chief



Ezra Mae B. Gamboa
Chemist II



Lyra C. Espectacion
Chemist II



John Adrian A. Pascua
Chemist II



Sheila Mae M. Bautista
Chemist III



Chino Manuel B. Antonio
Chemist III



Johanna Lindsay G. Lautchang
Chemist II



Kyle Angelo H. Macaslang
Chemist II



Nicole A. Caragay
Chemist I



Neil Ivan C. Baribe
SRS I



Mauro C. Miano Jr.
SRS I



Romeo B. Vargas Jr.
SRS I

Agriculturist



Evelyn C. Ramos
Agriculturist II

Laboratory and Administrative Aides



Marivic B. Limos
Admin. Asst. III



Melvin B. Arvizo
Admin. Asst. III



Catherine C. Aggasid
Admin. Asst. I