

EIM Help – Measurement Basis

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Measurement Basis refers to the physical state in which chemistry of the sample is reported – Wet Weight or Dry Weight. There is also a special case called Total Organic Carbon (TOC), where the sample is normalized to the organic carbon content.

When soil, sediment, or fish tissue results are entered into EIM, a Result_Measurement_Basis_Code must be provided. It is especially important for sediment data.

There are three choices in EIM for Result_Measurement_Basis_Code (Column BE):

- **DRY** – Analyte concentration in dry weight.
- **WET** – Analyte concentration in wet weight.
- **TOC** – Analyte concentration in total organic carbon (TOC) – primarily for sediments - calculated by dividing analyte concentration in dry weight by TOC concentration in dry weight.

Measurement basis should be reported by the lab. It is sometimes combined with the unit of measure (UOM), such as ug/Kg dw. In EIM, the Result_Value_UOM (Column AX) and Result_Measurement_Basis_Code (Column BE) are entered into separate columns.

Sediment and Soil Data:

- Result_Measurement_Basis_Code is required for chemistry data.
- Most sediment and soil chemistry is analyzed wet but is **reported in dry weight** after being corrected for percent solids.
- You do not need to enter a Result_Measurement_Basis_Code for parameters such as (percent) solids, grain size, or field-generated data.

Sample_Matrix (W)	Sample_Source (X)	Result_Parameter_Name (AR)	Result_Measurement_Basis (BE)
Solid/Sediment	Freshwater Sediment	Tributyltin	DRY
Solid/Sediment	Freshwater Sediment	Solids	
Solid/Sediment	Freshwater Sediment	Particle/Grain Size, Clay	
Solid/Sediment	Soil	Arsenic	DRY
Solid/Sediment	Soil	Copper	DRY

Fish Tissue Data:

- Enter a Result_Measurement_Basis_Code of “WET” for chemistry data.
- You need not enter a Result_Measurement_Basis_Code for the fish measurements or Lipid results.

Sample_Matrix (W)	Sample_Source (X)	Result_Parameter_Name (AR)	Result_Measurement Basis (BE)
Tissue	Animal Tissue	4,4'-DDE	WET
Tissue	Animal Tissue	Arsenic	WET
Tissue	Animal Tissue	Fish Weight, Mean of Individuals in Composite Sample	
Tissue	Animal Tissue	Lipids	

Water Data:

- You need not enter a Result_Measurement_Basis_Code for water samples because they are assumed to be “WET.”

Sample_Matrix (W)	Sample_Source (X)	Result_Parameter_Name (AR)	Result_Measurement Basis (BE)
Water	Fresh/Surface Water	Acephate	
Water	Groundwater	Arsenic	