

## EIM Help – Entering Dissolved Oxygen Data

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Dissolved Oxygen (DO) in water is primarily measured either by using some variation of the Winkler method or by using a meter and probe. If a DO sample is analyzed in a lab, such as by Winkler titration, it is considered a **Sample** in EIM. DO values derived in situ from probes or meters should be entered as **Measurements**. DO measured using a Hydrolab would be an example of a measurement.

### Entering DO samples analyzed at a lab

Fill out these fields as follows:

- **Field Activity Type (Column D)** = Sample
- **Result Method Code (Column BG)**: Enter the appropriate Result Method Code. If DO was determined using a Winkler Titration, use one of the following Result Method Codes:

Result Method Code	Result Method Description
SM4500OC	Dissolved Oxygen (DO) by Winkler (Azide Modification)
EPA360.2	Dissolved Oxygen (DO) by Modified Winkler Full Bottle
DO-WT-GRASSHOFF99	Dissolved oxygen (DO) by Winkler titration modified per Hansen/Grasshoff, Ehrhardt, and Kremling (1999).
DO-WT-STRICKLAND72	Dissolved oxygen (DO) by Winkler titration modified per Strickland and Parsons (1972).
DO-WT-CARPENTER65	Dissolved oxygen (DO) by Winkler titration modified per Carpenter (1965).

- **Result Lab Name (Column BJ)**:
  - If you sent your DO samples to a lab, use the name of the lab. The complete list of Result Lab Names can be found in EIM's online reference tables.
  - If you performed your own Winkler titrations instead of sending you DO samples to a lab, use "Wet lab at data collector's site."
  - If you performed Winkler titrations in one of Ecology's wet labs, use one of the following:

Ecology Wet Lab Name
Dept of Ecology Wet Lab, Olympia WA
Dept of Ecology Marine Waters Lab, Olympia WA
Dept of Ecology Wet Lab, Yakima WA
Dept of Ecology Wet Lab, Spokane WA
Dept of Ecology Wet Lab, Wenatchee WA

## Entering DO measurements taken in the field

Fill out these fields as follows:

- **Field Activity Type (Column D)** = Measurement
- **Result Method Code (Column BG):**
  - If you used a field meter to collect DO, insert the appropriate Result Method Code. See table at bottom of page.
  - If you used a Hydrolab, use one of the following. Other parameters collected by the Hydrolab sonde, such as pH and temperature, can also share this Result Method Code in EIM.

Result Method Code	Result Method Description
HYDROLAB-DO-CLARK	Hydrolab multiparameter sonde with Dissolved Oxygen (DO) by Clark Cell design
HYDROLAB-LDO-HACH	Hydrolab multiparameter sonde with Hach Luminescent Dissolved Oxygen (LDO)

- **Result Lab Name (Column BJ):** For DO entered as measurements leave this field blank. Do not enter a Result Lab Name of “field.”

### Other Measurement Result Methods for DO in EIM:

Result Method Code	Result Method Description
SBE43-DO	Dissolved Oxygen (DO), Sea-Bird Electronics SBE 43 Sensor (Clark polarographic membrane)
SBE13-DO	Dissolved Oxygen (DO), Sea-Bird Electronics SBE 13 sensor
DOFM	Dissolved Oxygen (DO) by field meter probe
SBE19BECK	Dissolved Oxygen (DO), Beckman sensor coupled to Sea-Bird Electronics SBE19 SEACAT Profiler (Conductivity-Temperature-Depth)
CALCDOSAT	Dissolved Oxygen (DO) Saturation calculated from DO, Temperature and Salinity.
ASTMD88887	Dissolved Oxygen (DO) in Water, ASTM D888-87 Test Method A, Colorimetric Indigo Carmine
SM4500OG	Dissolved Oxygen (DO) by Membrane Electrode Method
SBE911P-13	Dissolved Oxygen (DO), Sea-Bird Electronics SBE 13 sensor coupled to SBE911plus CTD (Conductivity-Temperature-Depth) Profiler
ASTM-D5543A	Standard Test Method for Low-Level Dissolved Oxygen in Water, Color Comparator Test Method Using Self-Filling Glass Ampoules (Test Method A)