

Hydrosphere Investigation

Quality Control Procedure Data Sheet

Not for submission into the GLOBE database

School name: _____ Student group: _____
Date: _____

Dissolved Oxygen Kits:

Temperature of distilled water: _____ °C; Elevation of your site: _____ meters

Dissolved Oxygen for the shaken distilled water:

Observer 1: _____ mg/L Observer 2: _____ mg/L Observer 3: _____ mg/L Average: _____ mg/L

Solubility of oxygen in water for your temperature at sea level from Table HY-DO-1: _____ mg/L
Calibration value for your elevation from Table HY-DO-2: _____
Expected value for DO in your distilled water: _____ mg/L
_____ X _____ = _____

Salinity

Salinity of Standard: Observer 1: _____ ppt Observer 2: _____ ppt Observer 3: _____ ppt

Average Salinity: _____ ppt

Alkalinity

Standard used (check one): Baking soda standard: _____ Purchased standard: _____

Alkalinity of standard: _____ mg/L

For kits that read alkalinity directly:

Observer 1: _____ mg/L CaCO₃ Observer 2: _____ mg/L CaCO₃ Observer 3: _____ mg/L CaCO₃

Average: _____ mg/L CaCO₃

For kits in which drops are counted:

	Observer 1	Observer 2	Observer 3	Average
Number of drops:				
Conversion constant for your kit and protocol				
Total Alkalinity (mg/L as CaCO ₃)				

Nitrate-Nitrogen

Observer 1: _____ mg/L NO₃⁻ - N Observer 2: _____ mg/L NO₃⁻ - N Observer 3: _____ mg/L NO₃⁻ - N

Average: _____ mg/L NO₃⁻ - N