GLOBE Alkalinity Data Sheets

Print the Alkalinity Data Sheet:

- Alkalinity Data Sheet

Or select an alternative option below: :

- Alkalinity: New Site (2 pages)
  - Use this the first time you visit a sampling site to record site definition data.
- Alkalinity: Weekly Measurements (2 pages)
  - This data sheet has space to record weekly alkalinity measurements.
- Alkalinity with field guide
  - This data sheet has the field guide incorporated.

GLOBE Alkalinity Data Sheet

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

Kit Manufacturer: ☐ LaMotte ☐ Hach ☐ Other: _____

Model: _____

Alkalinity Measurements with kit that reads alkalinity directly:

Sample #1: _____ mg/L as CaCO3

Sample #2: _____ mg/L as CaCO3

Sample #3: _____ mg/L as CaCO3

Average Alkalinity:

_____ mg/L as CaCO3

OR

Alkalinity Measurements with kit that counts drops:

Sample	**Number of drops**	**x**	**Kit conversion constant**	**=**	**Alkalinity** (mg/L as CaCO3)
1					
2					
3					

Average Alkalinity:

_____ mg/L as CaCO3

Stop and Check: Are all measurements within the acceptable range of the average?

- LaMotte ±8 mg/L • Hach ±6.8 mg/L (low range) or ±17 mg/L (high range)

If one is not, calculate the average of the other two. If they are in range, report only those two. If two or more measurements are not within range, retake your measurements.

Comments:

GLOBE Alkalinity Data Sheet: New Site (page 1)

Name: _____ Site Name: _____

Date: _____ Time (local): _____

New Site Definition

Latitude: _____ Longitude: _____

Elevation: _____ m Name of Water Body: _____

Water Body Type: ☐ Unknown ☐ Saltwater ☐ Freshwater ☐ Brackish

Kit Manufacturer: ☐ LaMotte ☐ Hach ☐ Other: _____

Model: _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

Alkalinity Measurements with kit that reads alkalinity directly:

Sample #1: _____ mg/L as $CaCO_3$

Sample #2: _____ mg/L as $CaCO_3$

Sample #3: _____ mg/L as $CaCO_3$

Average Alkalinity:

_____ mg/L as $CaCO_3$

OR

Alkalinity Measurements with kit that counts drops:

Sample	**Number of drops**	**x**	**Kit conversion constant**	**=**	**Alkalinity** (mg/L as $CaCO_3$)
1					
2					
3					

Average Alkalinity:

_____ mg/L as $CaCO_3$

Stop and Check: Are all measurements within the acceptable range of the average?

- LaMotte ±8 mg/L • Hach ±6.8 mg/L (low range) or ±17 mg/L (high range)

If one is not, calculate the average of the other two. If they are in range, report only those two. If two or more measurements are not within range, retake your measurements.

GLOBE Alkalinity Data Sheet: New Site (page 2)
Optional Site Definition Information

Water Body Source: _____

Can you see the bottom? ☐ Yes ☐ No

Water Sampling location:

☐ Outlet ☐ Bank ☐ Bridge ☐ Boat ☐ Inlet ☐ Pier

Channel/Bank Material:

☐ Soil ☐ Rock ☐ Concrete ☐ Vegetated Bank

Bedrock:

☐ Granite ☐ Limestone ☐ Volcanics ☐ Mixed Sediments ☐ Unknown

Freshwater Habitats Present:

☐ Rocky Substrate ☐ Vegetated Bank ☐ Mud Substrate ☐ Sand Substrate
☐ Submersed Vegetation ☐ Logs

Saltwater Habitats Present:

☐ Rocky Shore ☐ Sandy Shore ☐ Mud Flats/Estuary

If the water body source is a **river** or **stream**:

Width of moving water: _____ meters

If the water body source is a **pond, lake, reservoir, bay, ditch** or **estuary**:

Area of standing water: _____ km^2

Average depth of standing water _____ meters

Comments:

GLOBE Alkalinity Data Sheet: Weekly (page 1)

Name: _____ Site Name: _____

Kit Manufacturer: ☐ LaMotte ☐ Hach ☐ Other: _____

Model: _____

Alkalinity Measurements

*Water State Options: N = Normal, Fl = Flooded, D = Dry, Fr = Frozen, U = Unreachable.

If anything except Normal is selected, do not collect measurements.

Date	**Time (local)**	**Water State***	**Sample 1** (mg/L as $CaCO_3$)	**Sample 2** (mg/L as $CaCO_3$)	**Sample 3** (mg/L as $CaCO_3$)	**Average** (mg/L as $CaCO_3$)

NOTE: If using a kit that counts drops, record the number of drops and kit conversion constant on the back.

Stop and Check: Are all measurements within the acceptable range of the average?

- LaMotte ±8 mg/L • Hach ±6.8 mg/L (low range) or ±17 mg/L (high range)

If one is not, calculate the average of the other two. If they are in range, report only those two. If two or more measurements are not within range, retake your measurements.

GLOBE Alkalinity Data Sheet: Weekly (page 2)

Measurements for alkalinity kits that count drops

Date	Sample 1 # Drops	Sample 2 # Drops	Sample 3 # Drops	Kit Conversion Constant

To find alkalinity for each sample, multiply the number of drops by the kit conversion constant. Record the alkalinity on page 1.

Comments:

GLOBE Alkalinity Data Sheet and Field Guide

Name: _____ Site Name: _____

Date: _____ Time (local): _____

Kit Manufacturer: ☐ LaMotte ☐ Hach ☐ Other: _____

Model: _____

Water State: ☐ Normal ☐ Flooded ☐ Dry ☐ Frozen ☐ Unreachable

If anything except Normal is selected, stop here!

Alkalinity Measurements

1. Put on protective gloves and goggles.
2. Follow the instructions in your alkalinity kit to measure the alkalinity of your water.
3. Record your measurement below in the appropriate section.
4. Repeat the measurement twice more using new water samples.
5. Calculate the average of the three measurements and check the acceptable range.

Using a kit that reads alkalinity directly:

Sample #1: _____ mg/L as $CaCO_3$

Sample #2: _____ mg/L as $CaCO_3$

Sample #3: _____ mg/L as $CaCO_3$

Average Alkalinity:

_____ mg/L as $CaCO_3$

OR

Using kit that counts drops:

Sample	**Number of drops**	**x**	**Kit conversion constant**	**=**	**Alkalinity** (mg/L as $CaCO_3$)
1					
2					
3					

Average Alkalinity:

_____ mg/L as $CaCO_3$

Stop and Check: Are all measurements within the acceptable range of the average?

- LaMotte ±8 mg/L • Hach ±6.8 mg/L (low range) or ±17 mg/L (high range)

If one is not, calculate the average of the other two. If they are in range, report only those two. If two or more measurements are not within range, retake your measurements.