# **Datasheet for Well Water Sample Collection**

# **About this project**

Unlike well water, public water systems must meet standards set by the Environmental Protection Agency (EPA) that limit the levels of contaminants in drinking water, called Maximum Contaminant Levels (MCLs). The federal MCL for arsenic in public drinking water is 10 ug/L. In 2019, the state of New Hampshire lowered their MCL to 5 ug/L. Maine and New Hampshire have among the highest per-capita reliance on private wells for drinking water in the United States, yet approximately 10% of Maine wells and 20% of New Hampshire wells have levels of arsenic above 10 ug/L. Despite these statistics, the testing rate in all study areas in these states remains low.

This project, “Data to Action: A Secondary School-Based Citizen Science Project to Address Arsenic Contamination of Well Water” engages students as citizen scientists in collecting well water for arsenic analysis. The goal is the help students better understand the issue of well water contamination and share their understanding with their communities to help protect public health.

# **Sampler Information**

**Sample school year and number (YYYY-###): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Sample date (when water is collected): \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Sample time: \_\_\_\_\_\_\_\_\_\_\_\_AM / PM**

**School Name:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_­­\_

**Parent/Guardian/Community Member Name (you must sign this datasheet at the bottom):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Are you a (circle one) parent/guardian** **community member** **other** \_\_\_\_\_\_\_\_\_\_\_\_

**Student Name (if applicable):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Email of parent/guardian or person who contributed the well water sample and will receive test results (not student):**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Street Address of Sample:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**City of Sample:** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ **State of Sample:** \_\_\_\_\_\_\_\_\_ **ZIP of Sample :**\_\_\_\_\_\_\_\_\_\_

**Mailing Address of sample contributor (if different):** \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# **Drinking Water Information**

**Drinking Water Source (circle one):**

Dug well (~10-30 ft deep) Driven well (~30-50 ft deep) Drilled well (~ 50+ ft deep) Other

I have a well, but I don’t know what kind. I don’t know public drinking water supply

**Have you ever tested your water for arsenic before**?

Yes No I don’t know

# **Permissions**

Circle yes or no if you agree to the following permissions. Note that you will receive your well water results regardless of your answer.

# Researchers from College of the Atlantic and other partner organizations are interested in the data collected as part of this project. They would like to use your well water data to create scientific maps showing the relationship between arsenic levels and soils or bedrock or other data. These maps will be used for community and scientific discussions and potentially publication in scientific journals. These maps will not display your name or home address, nor will they show any identifying features, like streets, that may expose your identity or location. May we share your data with them? **Yes/No**

# The Maine Center for Disease Control and Prevention (CDC) and the New Hampshire Department of Environmental Services (DES) are interested in the data collected as part of this project so that they can better serve the public health needs of each state. They will keep your data confidential. May we share your data with them? **Yes/No**

# **Water Sample Information**

**Sample Location:** Kitchen Bathroom Outside Other

**Was the sample filtered?** Yes No I don’t know

**Type of filtration system:**

Whole-house filter Water pitcher or refrigerator Sink-mounted filter

No filter Other I don’t know

**If you currently filter your water, please explain how and why** (i.e. under sink or whole-house filter):

# **Results**

Your project leader will let you know when your test results are available; it may take up to 6-8 weeks after samples are turned in. Well water results will be available online. You can go the “For Samplers” page at allaboutarsenic.org and type your sample number in the search bar to find your data. As a reminder, your sample number is located on the magnet you received on sampling day.

# **Disclaimer**

I understand Dartmouth’s Trace Element Analysis (TEA) laboratory tests water samples specifically related to this project and produces reliable data for research purposes. Although TEA is not certified by the National Environmental Laboratory Accreditation Program, it does participate in the USGS proficiency program for water quality measurements which conducts an inter-laboratory comparison study semiannually. I understand that I can always re-test my well water using a certified private or state water quality laboratory if I have concerns.

Parent/Guardian Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Signature\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (required for sample analysis)