Title 5 Data Dashboards
&
Be Well Informed Web Tool

Joe Cerutti
MassDEP | Drinking Water Program
Boston, MA

MassDEP/MHOA Seminar
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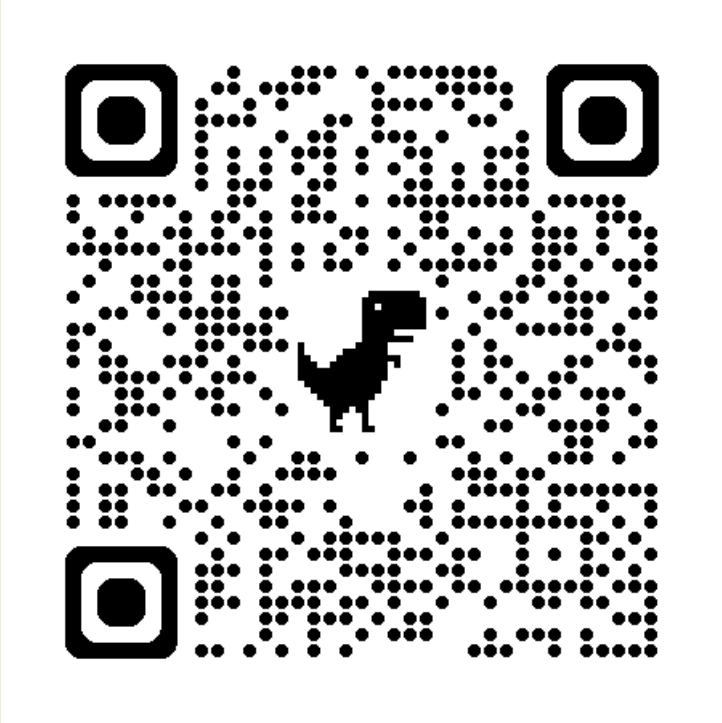
Topics

- MassDEP Title 5 Data Viewer
- MassDEP Well Location Viewer
- MassDEP Content for Be Well Informed Web Tool for Assessing Private Well Water Quality Lab Results

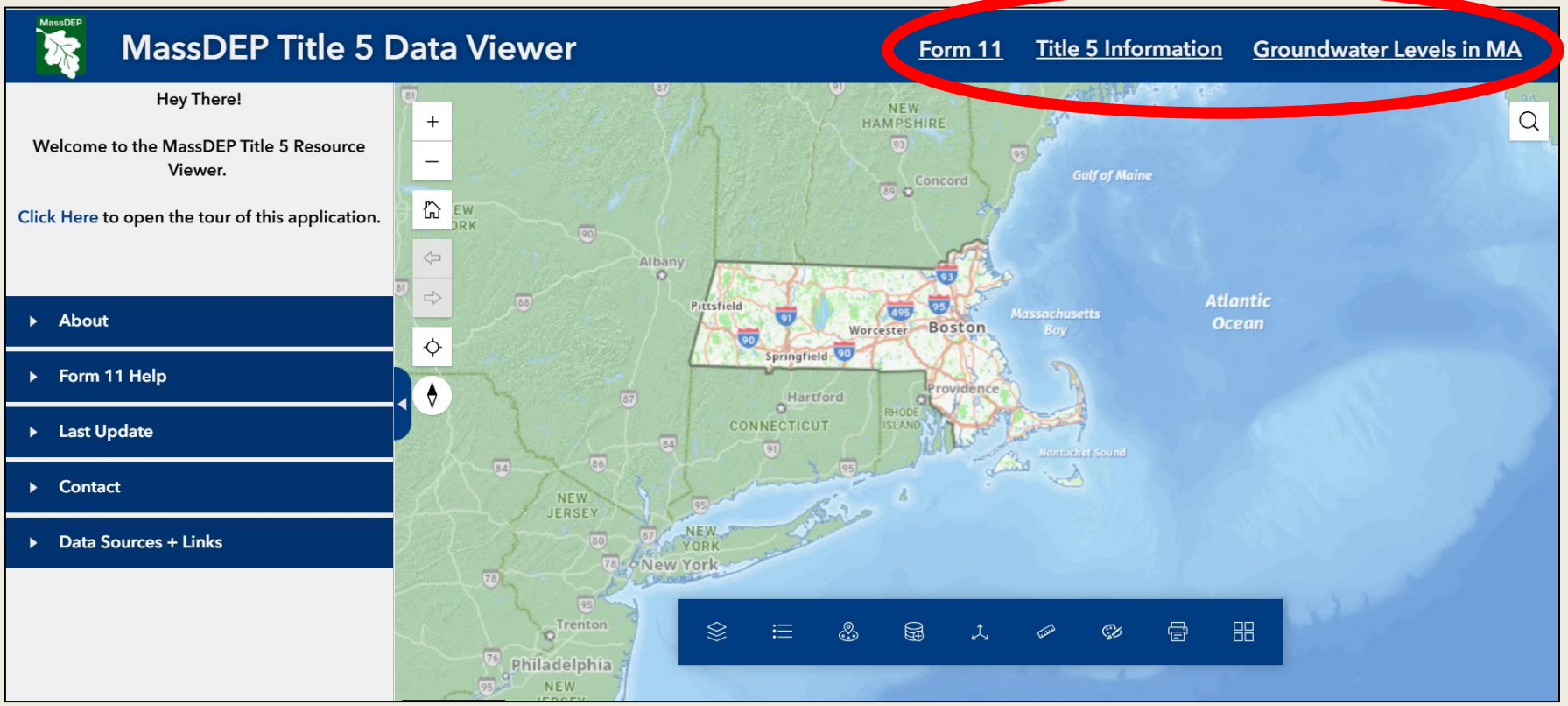
MassDEP Title 5 Data Viewer

- Application allows user to quickly obtain most of the site background reference material for Title 5, Form 11 (test pit log)
- https://experience.arcgis.com/experience/79989f3c752b47f885c425a480725c14

QR Code for Title 5 Data Viewer



Title 5 Data Viewer Home Page



At top right, links to:
Form 11
MassDEP Septic System & Title 5 webpage
USGS Groundwater Levels webpage

After clicking on a test pit location, 2nd page of popup window provides information to complete Section B Item 2, “Soil Survey” information

2. Soil Survey

Source | Soil Map Unit | Soil Series

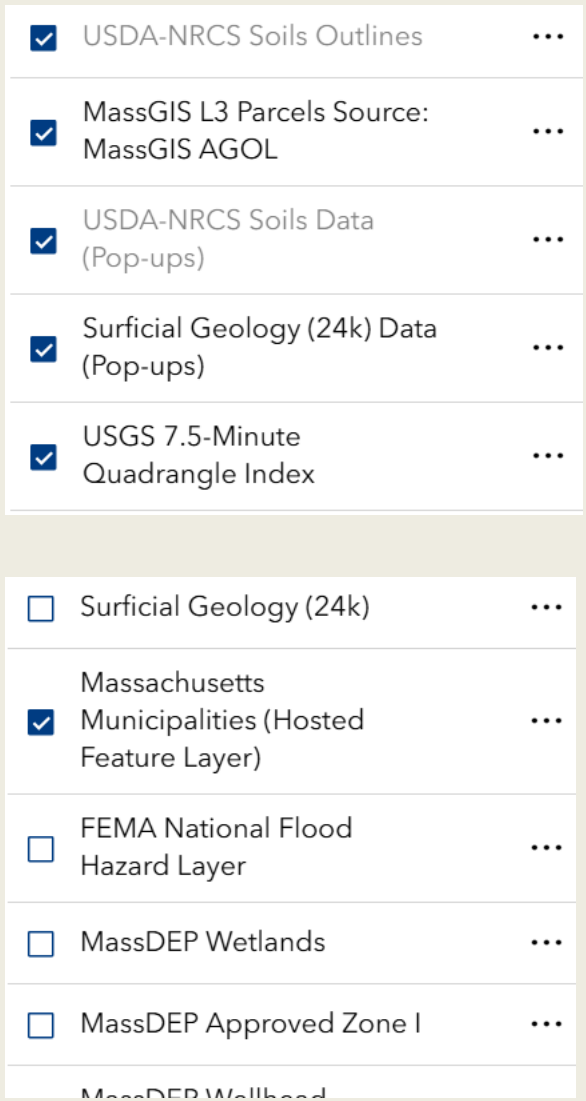
Landform | Soil Limitations

Soil Parent material

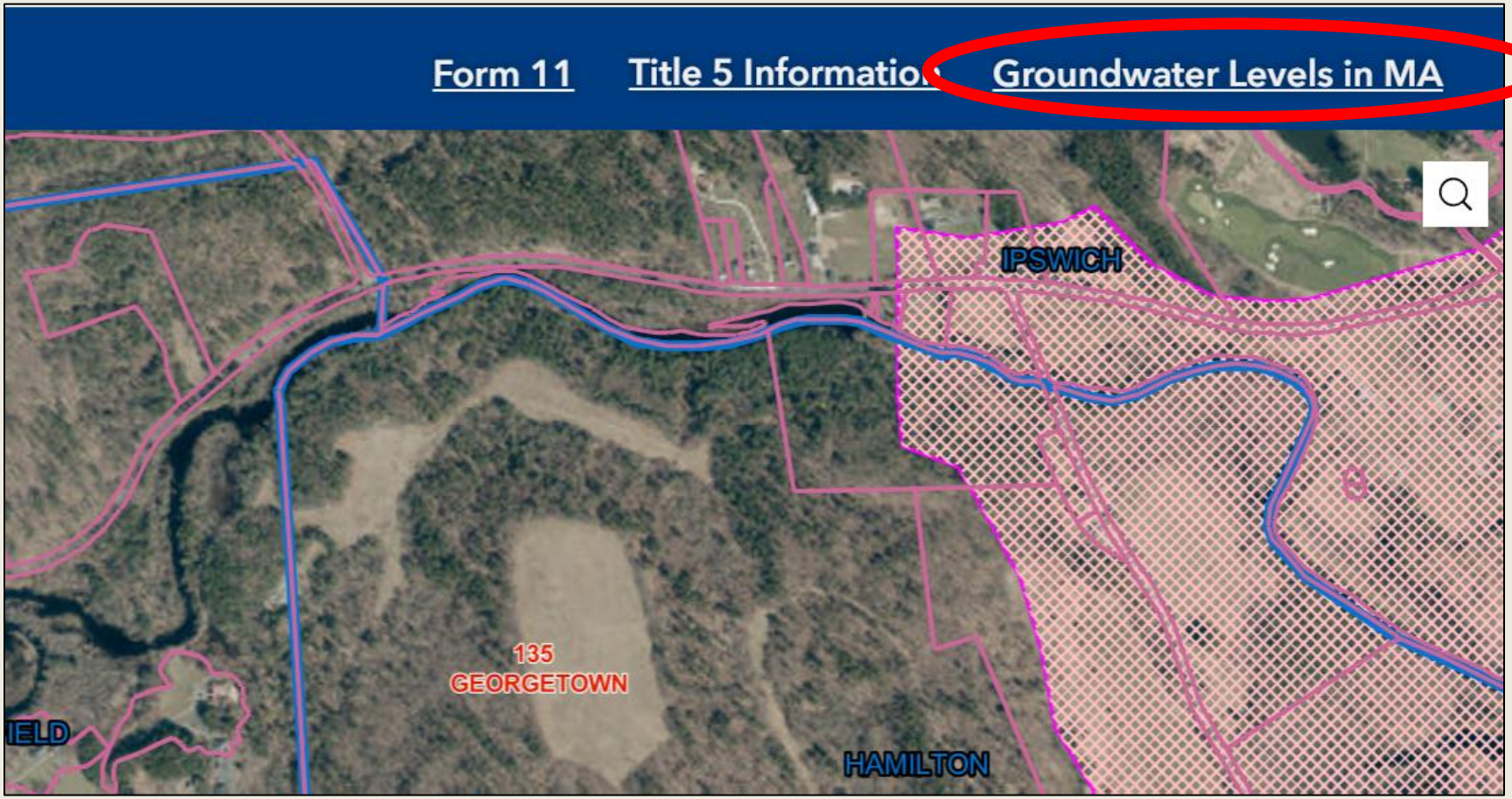
3rd and 4th pages of popup window provide information to complete Section B Item 3, "Surficial Geological Report"

3. Surficial Geological Report	Year Published/Source	Map Unit
Description of Geologic Map Unit:		

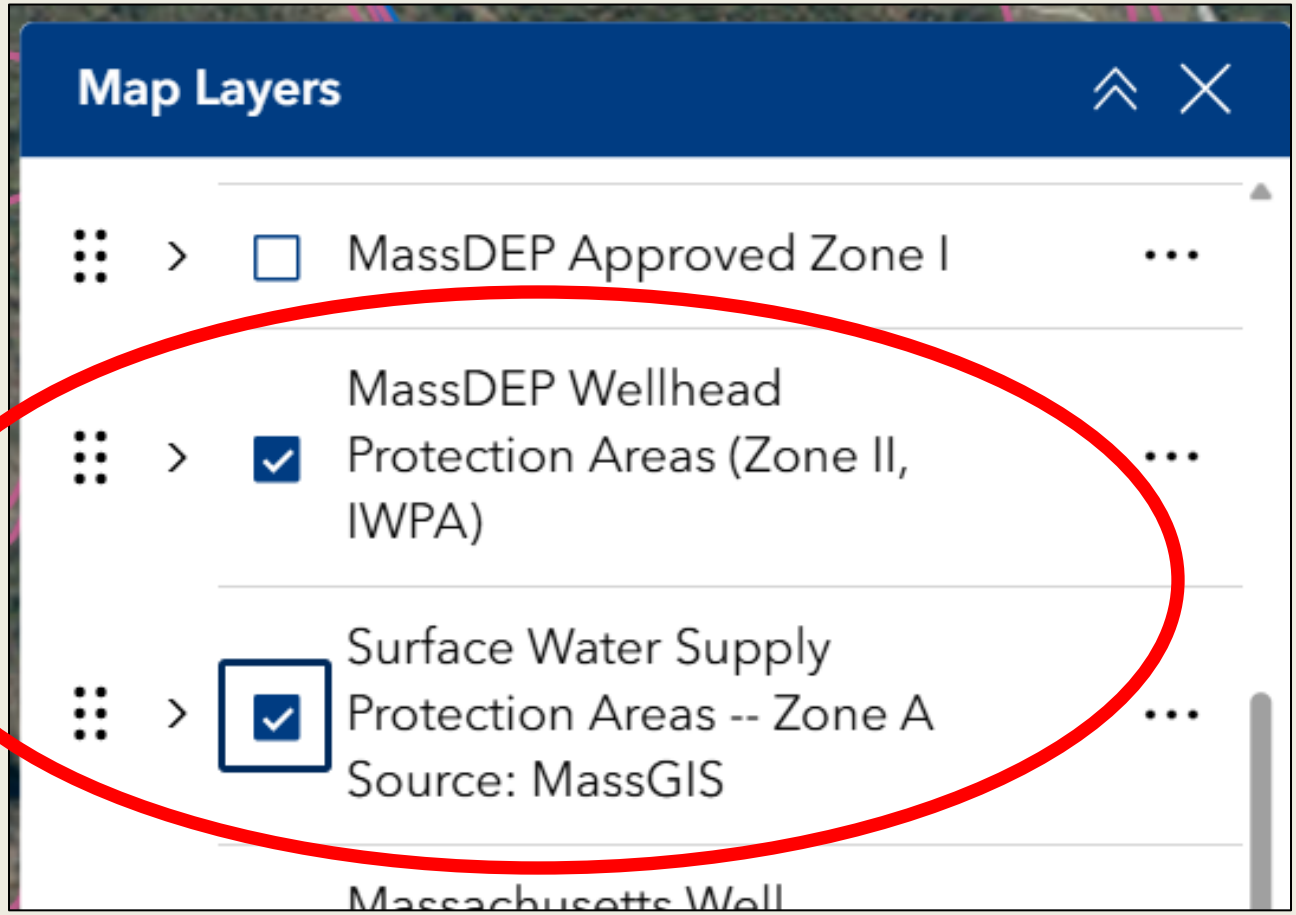
Available mapping layers:



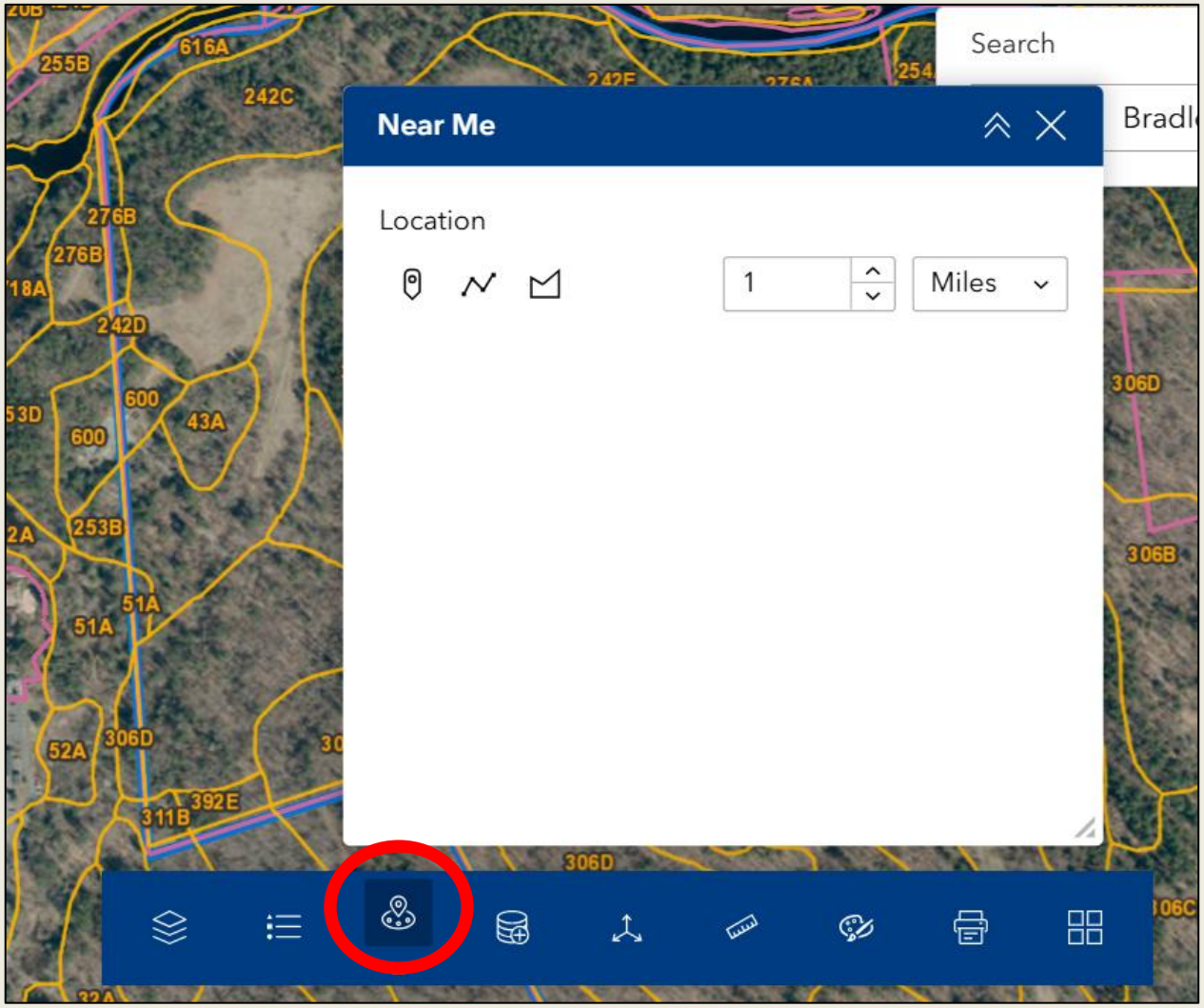
Select “Groundwater Levels in MA” to be sent to the USGS groundwater level well locations to answer Section B, Question 7: “Current Water Resource Conditions”



Select “MassDEP Wellhead Protection Areas” & “Surface Water Supply Protection Areas” map layers to answer Section B, Question 8: “Other references reviewed”



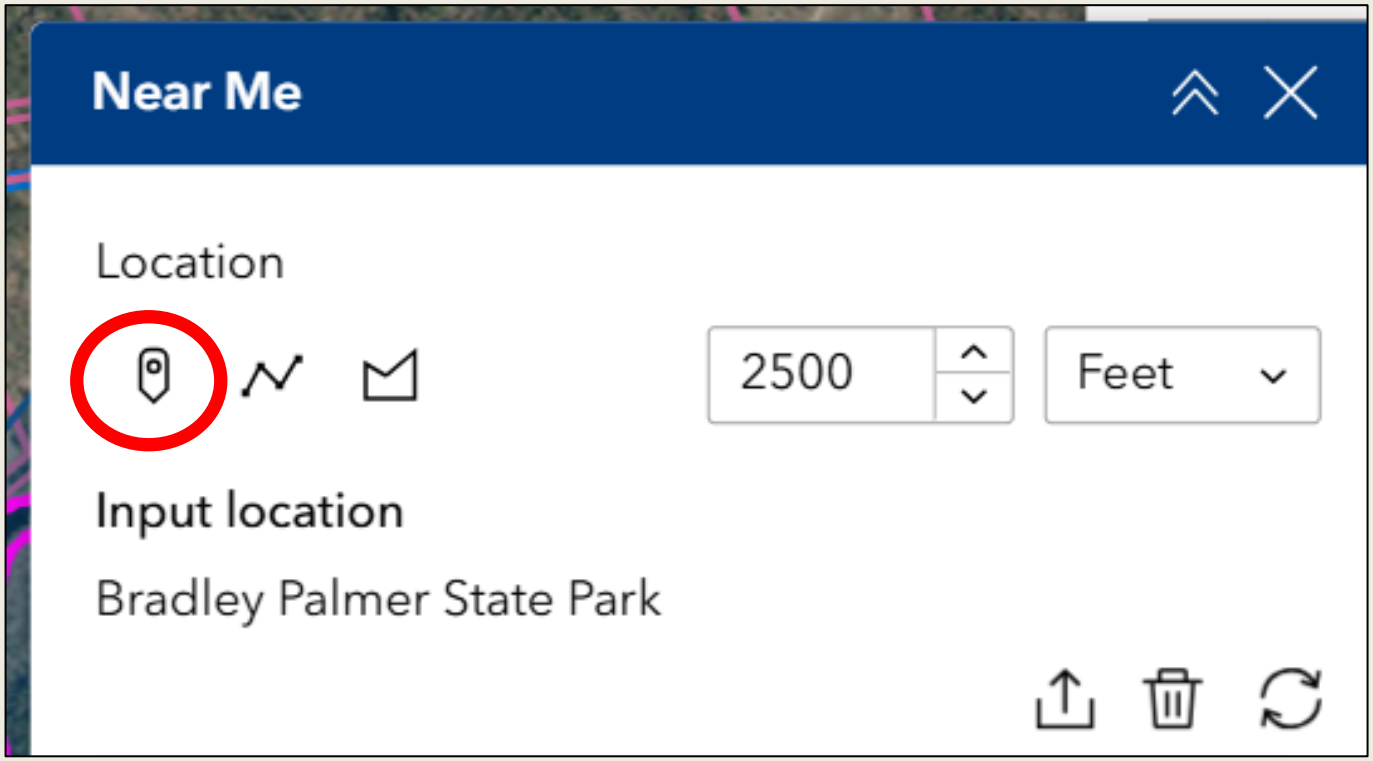
The “Near Me” Tool provides answers to Form 11, Section C, Question 3: “Distances from”



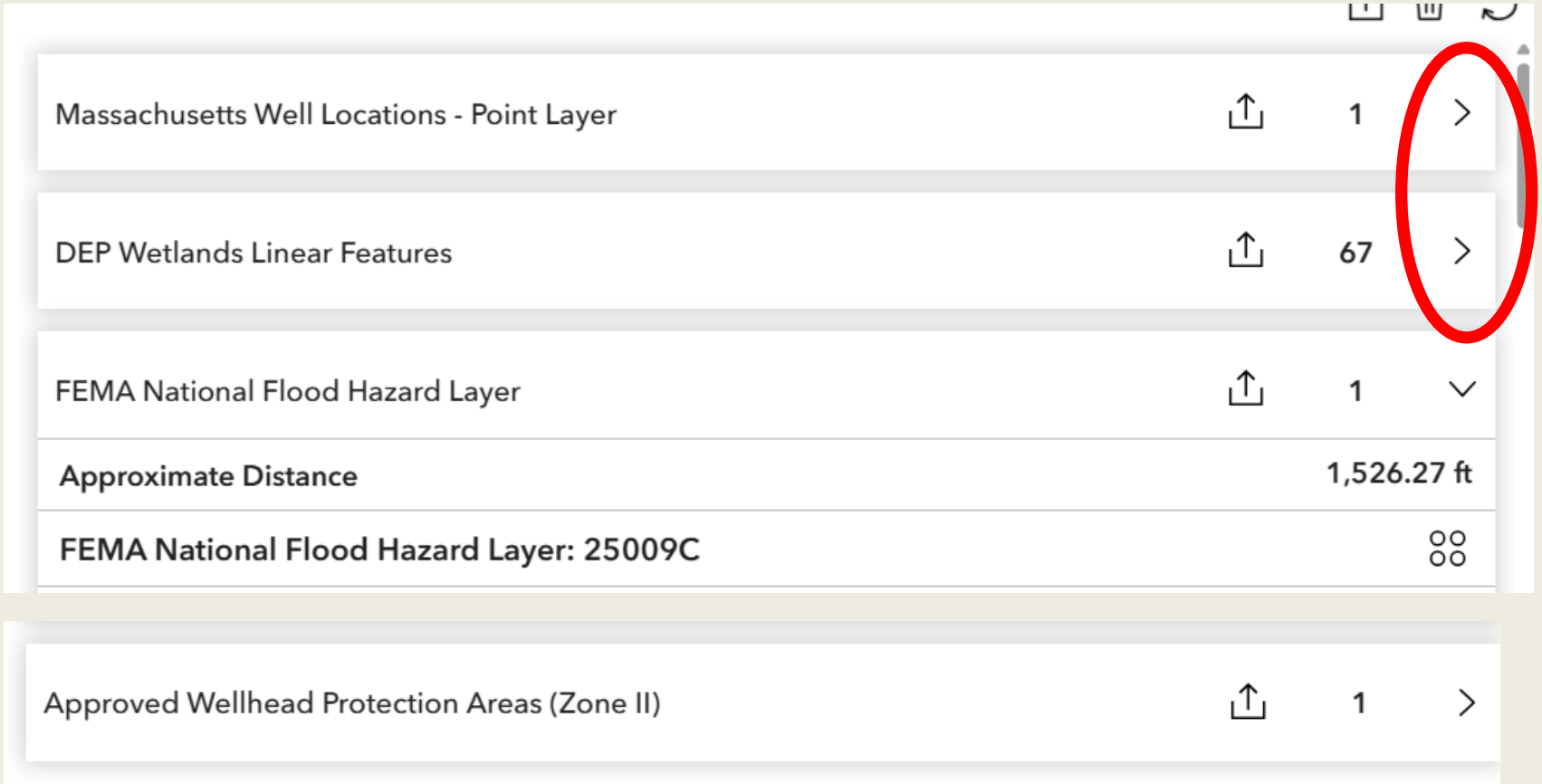
Form 11, Section C, Question 3: “Distances from"

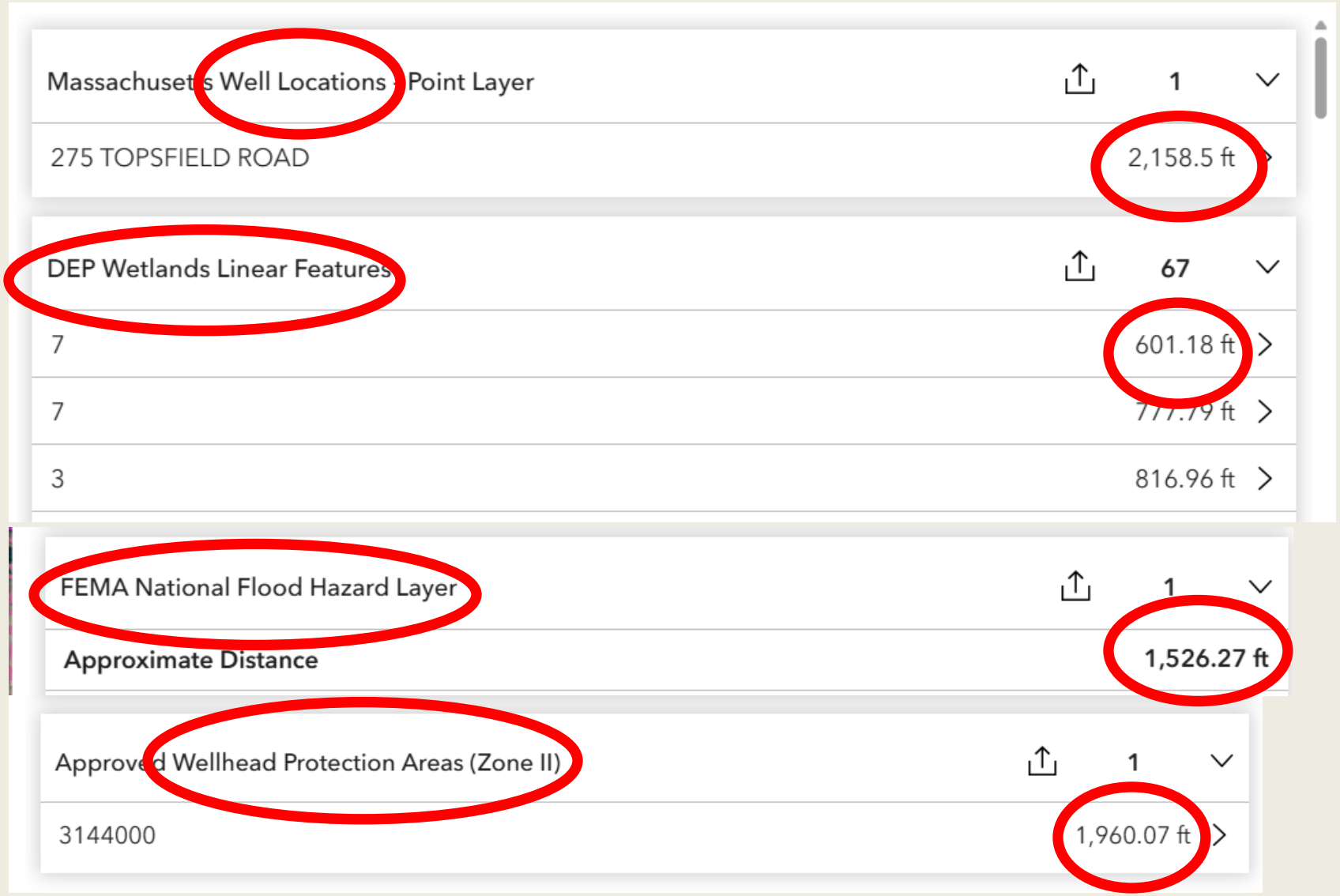
- Open water body
- Drainage way
- Wetlands
- Property line
- Drinking water well
- Other

To obtain distances measured from your test pit location, select the “point” icon



Results – click on right arrows to obtain nearest distances to each type of feature

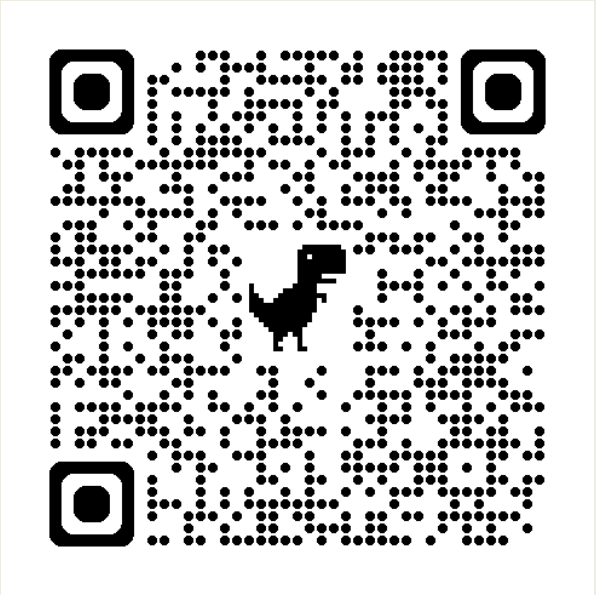



Massachusetts Well Locations - Point Layer
1
275 TOPSFIELD ROAD
2,158.5 ft
DEP Wetlands Linear Features
67
7
601.18 ft
7
777.79 ft
3
816.96 ft
FEMA National Flood Hazard Layer
1
Approximate Distance
1,526.27 ft
Approved Wellhead Protection Areas (Zone II)
1
3144000
1,960.07 ft

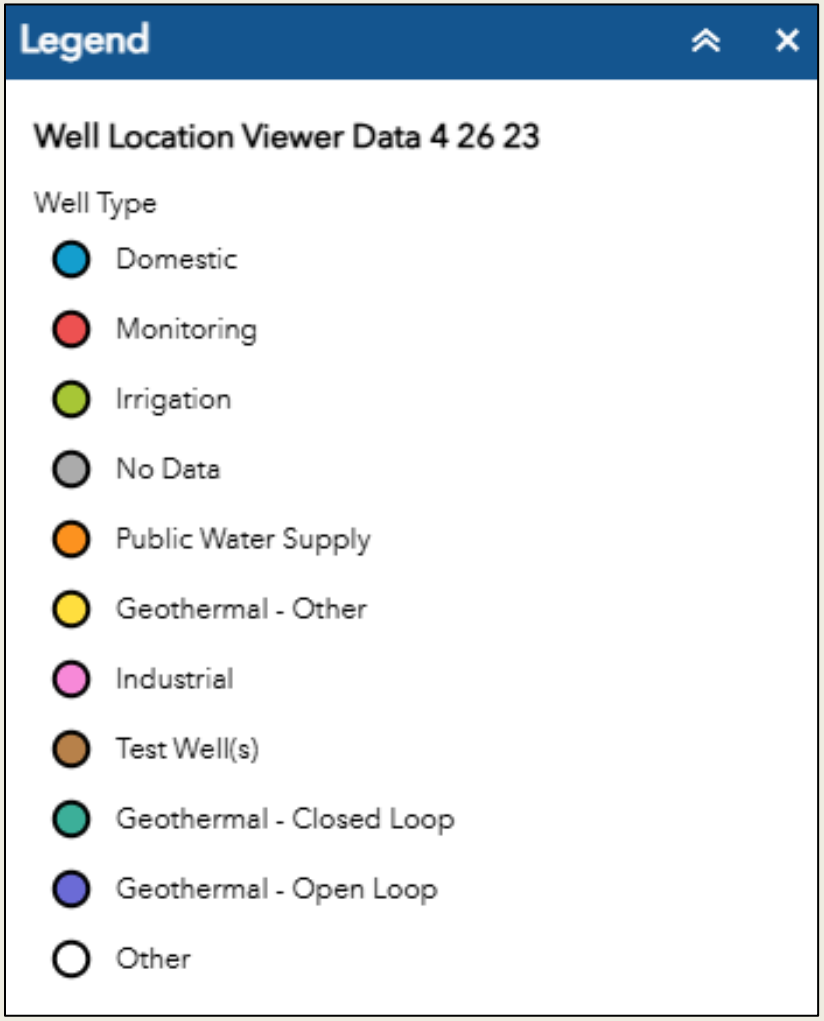
MassDEP Well Location Viewer

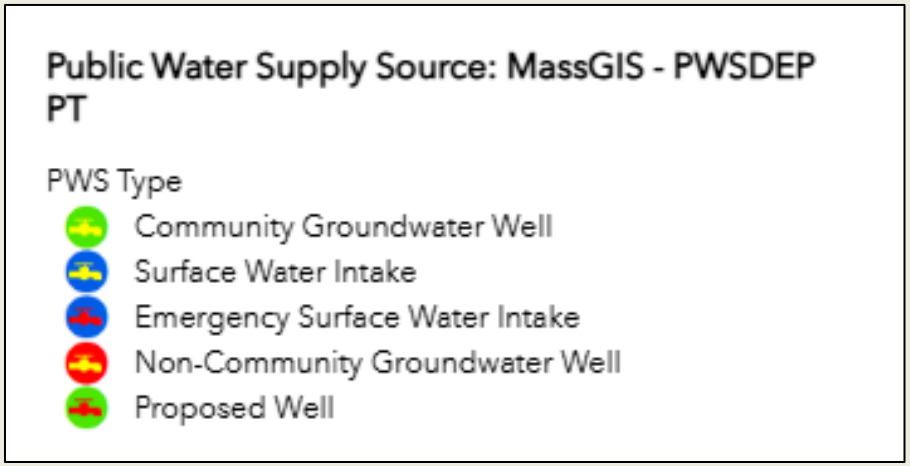
- Application allows user to obtain Well Completion Reports (WCRs) by selecting mapped well location
- https://mass-eoeea.maps.arcgis.com/apps/webappviewer/index.html?id=cdd1184286494217 8b71f2c7bd5a0b95

QR Code for Well Location Viewer

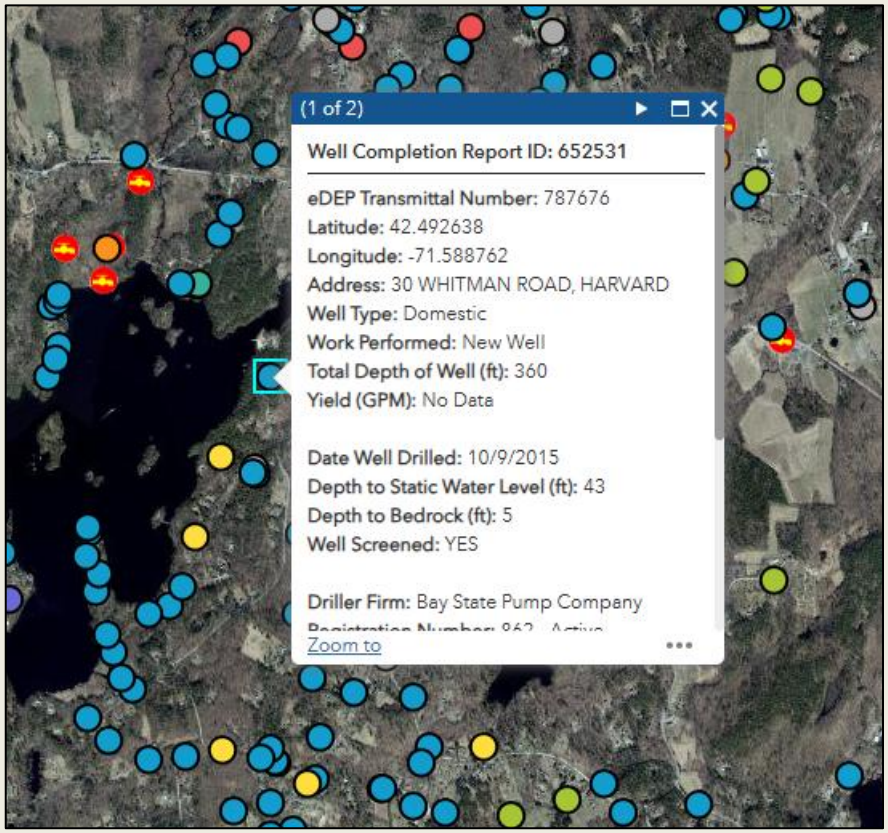


Mapped Well Types





Well Completion Reports



Well Completion Report ID: 652531

eDEP Transmittal Number: 787676
Latitude: 42.492638
Longitude: -71.588762
Address: 30 WHITMAN ROAD, HARVARD
Well Type: Domestic
Work Performed: New Well
Total Depth of Well (ft): 360
Yield (GPM): No Data

Date Well Drilled: 10/9/2015
Depth to Static Water Level (ft): 43
Depth to Bedrock (ft): 5
Well Screened: YES

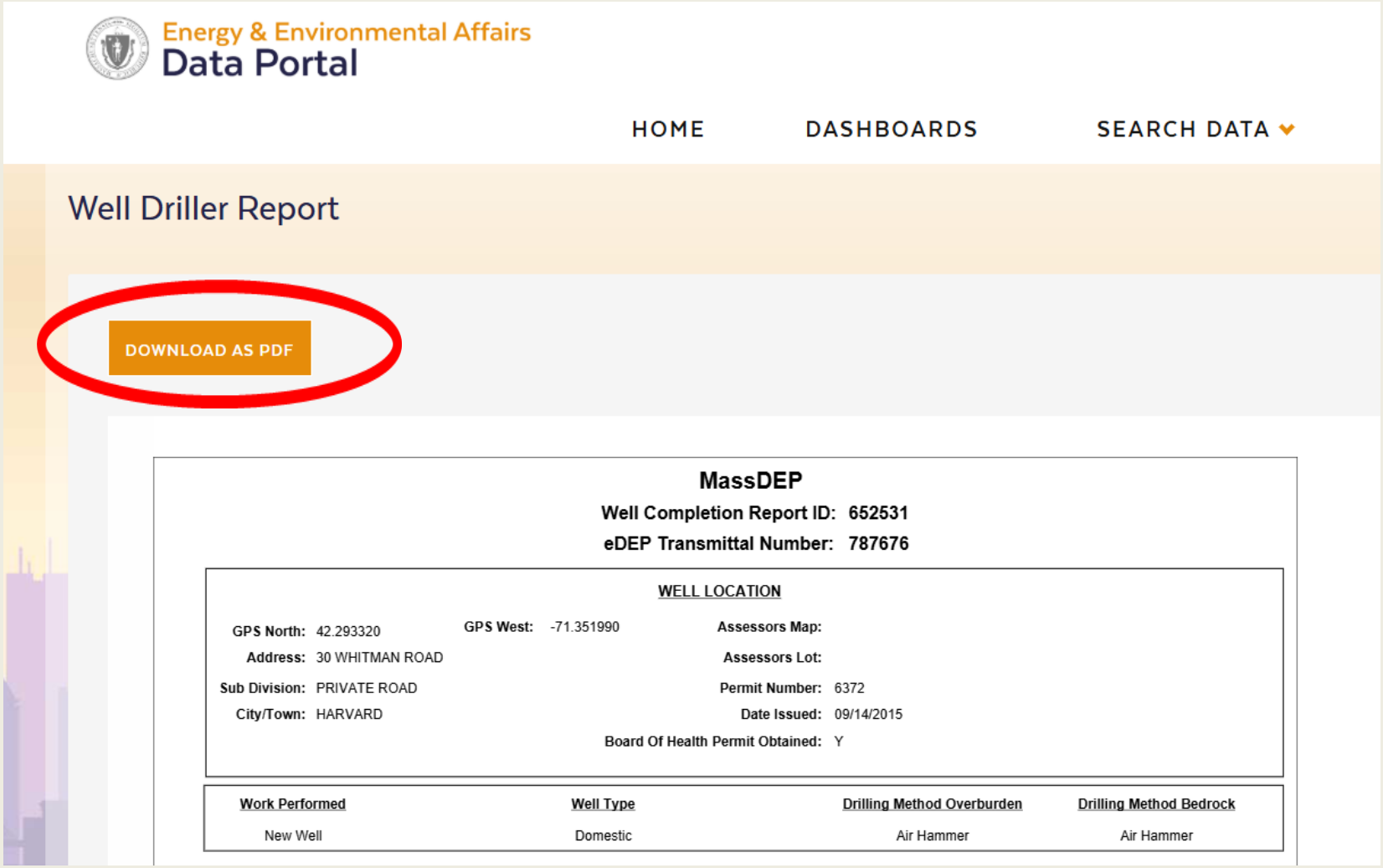
Driller Firm: Bay State Pump Company
Registration Number: 862 - Active

Report Contains Well Test Data: YES
Report Contains Overburden Stratigraphic Data: YES
Report Contains Bedrock Stratigraphic Data: YES
View Full Report

USGS 7.5-Minute Quadrangle: 91 - HUDSON

Click on a well. Use the "View Full Report" link in the popup window to obtain the WCR.

Well Completion Reports, cont.

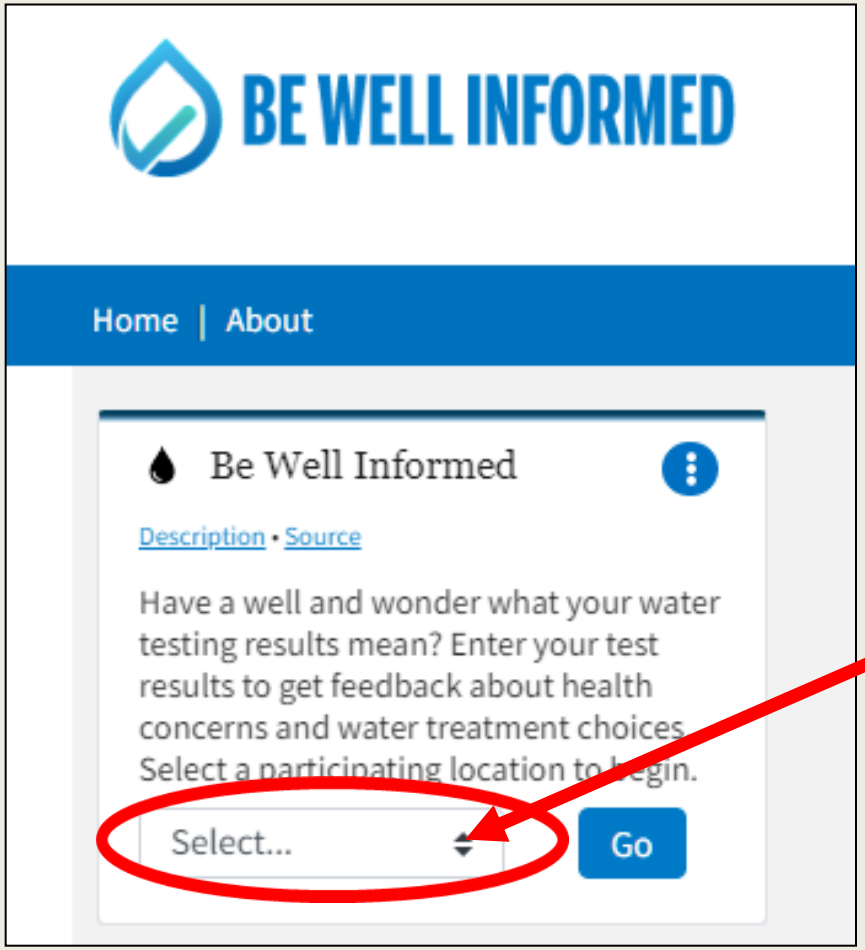


Be Well Informed (BWI)

- Web-based tool for private well owners
- Hosted by the Environmental Council of the States (ECOS) on the behalf of participating agencies
- User enters laboratory analysis results
- Report output includes comparison against drinking water limits, health concerns, and treatment options
- https://bewellinformed.info/about

QR Code for BWI Tool

BWI Home Page

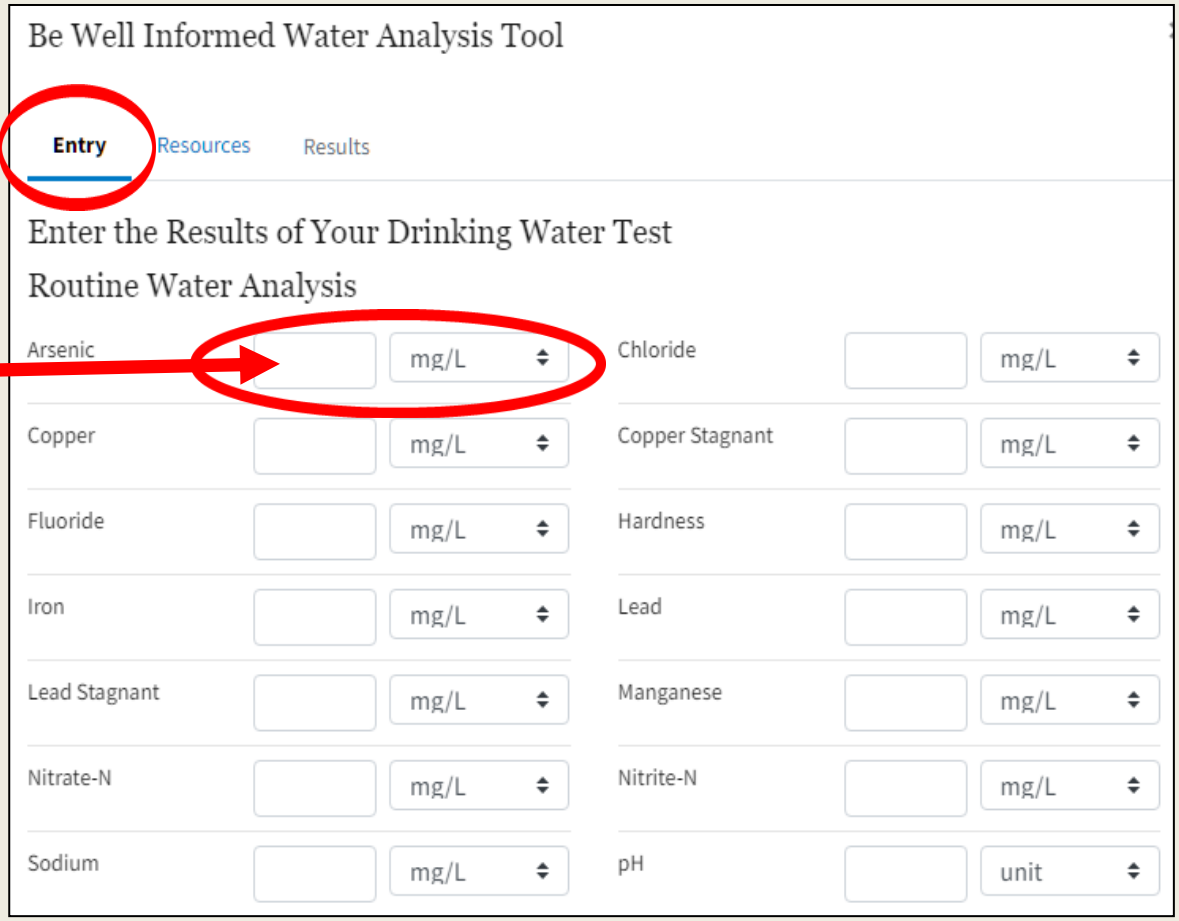


Select “Massachusetts” from dropdown list

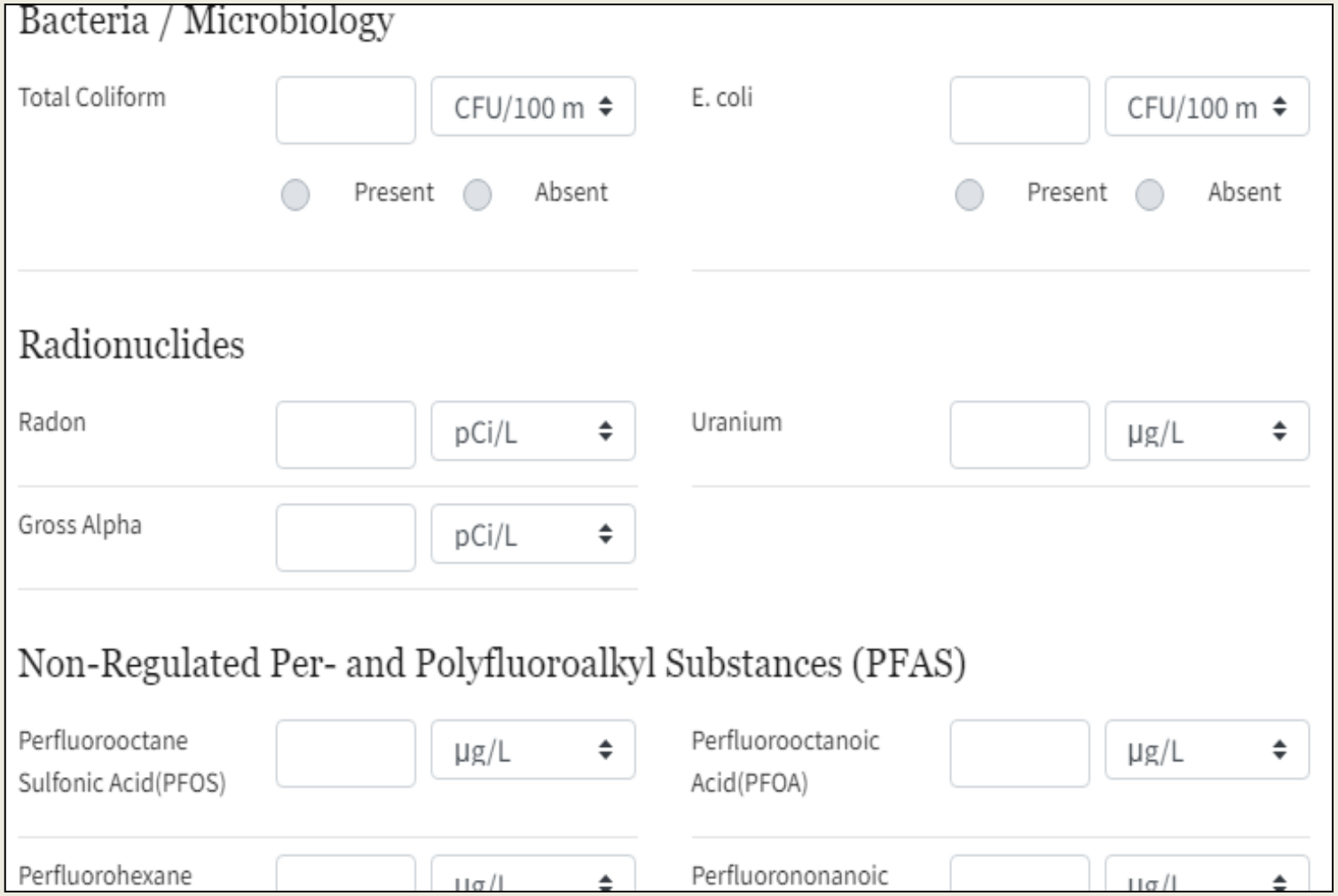
BWI Data Entry Page

Enter data in fields provided for contaminants

Note: It may be necessary to convert units from laboratory report before entering data.



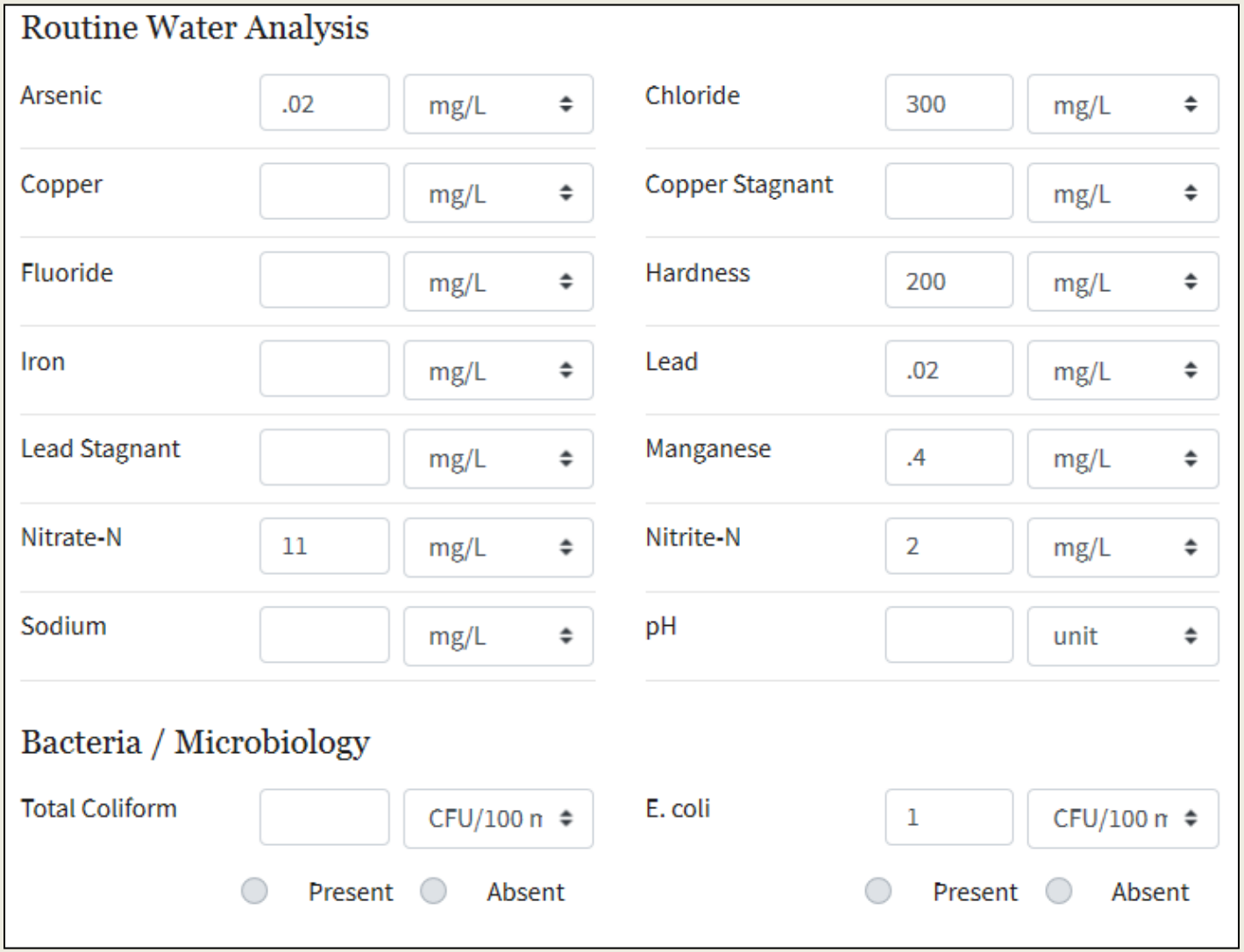
BWI Data Entry Page, cont.



Contaminants included in BWI

- Arsenic
- Chloride
- Copper
- Fluoride
- Hardness
- Iron
- Lead
- Manganese
- Nitrate
- Nitrite
- Sodium
- pH
- Total coliform
- E. coli
- Radon
- Uranium
- Gross Alpha
- Six (6) PFAS chemicals currently regulated in MA (“PFAS6”)

Example Data Entries



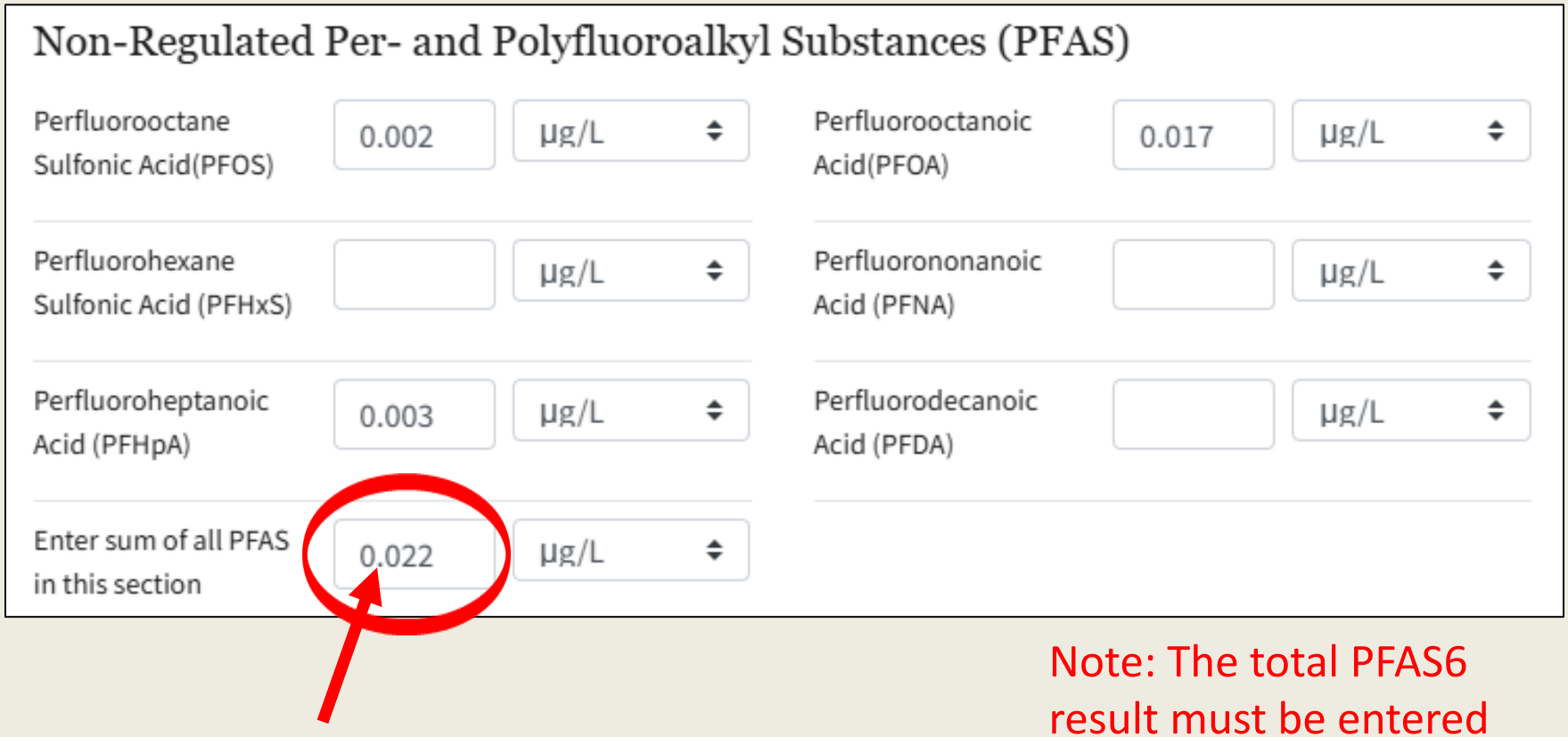
Routine Water Analysis

Arsenic	.02	mg/L	Chloride	300	mg/L
Copper		mg/L	Copper Stagnant		mg/L
Fluoride		mg/L	Hardness	200	mg/L
Iron		mg/L	Lead	.02	mg/L
Lead Stagnant		mg/L	Manganese	.4	mg/L
Nitrate-N	11	mg/L	Nitrite-N	2	mg/L
Sodium		mg/L	pH		unit

Bacteria / Microbiology

Total Coliform		CFU/100 n	E. coli	1	CFU/100 n
	○ Present ○ Absent			○ Present ○ Absent	

Example Data Entries, cont.



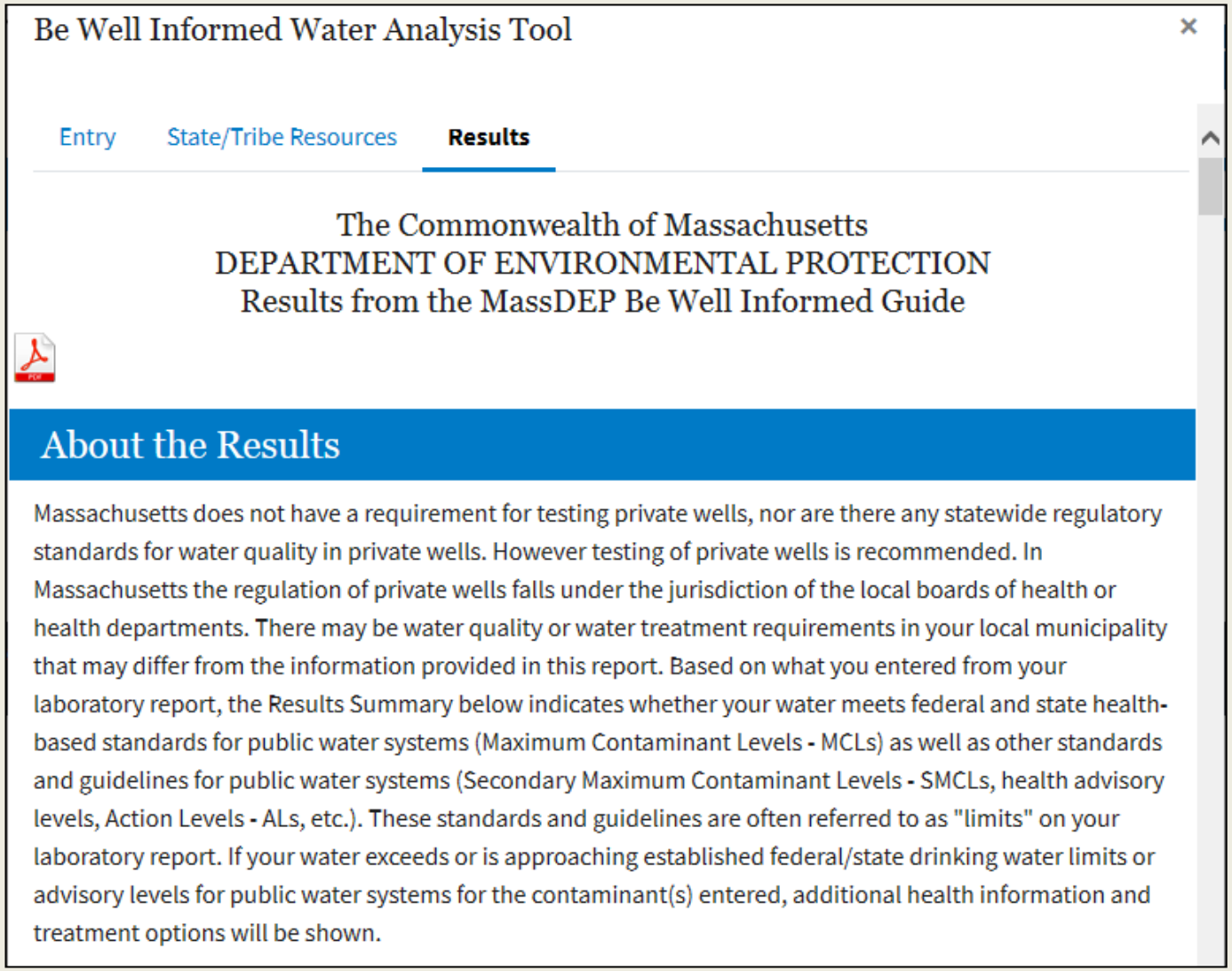
Non-Regulated Per- and Polyfluoroalkyl Substances (PFAS)

Perfluorooctane Sulfonic Acid(PFOS)	0.002	µg/L	Perfluorooctanoic Acid(PFOA)	0.017	µg/L
Perfluorohexane Sulfonic Acid (PFHxS)		µg/L	Perfluorononanoic Acid (PFNA)		µg/L
Perfluoroheptanoic Acid (PFHpA)	0.003	µg/L	Perfluorodecanoic Acid (PFDA)		µg/L
Enter sum of all PFAS in this section	0.022	µg/L			

Sum exceeds the Massachusetts Maximum Contaminant Level (MMCL) of 0.020 µg/L or 20 ng/L, but individual PFAS compounds are below the MMCL

Note: The total PFAS6 result must be entered manually by BWI user.

Example BWI Report



Be Well Informed Water Analysis Tool

Entry State/Tribe Resources **Results**

The Commonwealth of Massachusetts
DEPARTMENT OF ENVIRONMENTAL PROTECTION
Results from the MassDEP Be Well Informed Guide

About the Results

Massachusetts does not have a requirement for testing private wells, nor are there any statewide regulatory standards for water quality in private wells. However testing of private wells is recommended. In Massachusetts the regulation of private wells falls under the jurisdiction of the local boards of health or health departments. There may be water quality or water treatment requirements in your local municipality that may differ from the information provided in this report. Based on what you entered from your laboratory report, the Results Summary below indicates whether your water meets federal and state health-based standards for public water systems (Maximum Contaminant Levels - MCLs) as well as other standards and guidelines for public water systems (Secondary Maximum Contaminant Levels - SMCLs, health advisory levels, Action Levels - ALs, etc.). These standards and guidelines are often referred to as "limits" on your laboratory report. If your water exceeds or is approaching established federal/state drinking water limits or advisory levels for public water systems for the contaminant(s) entered, additional health information and treatment options will be shown.

Example BWI Report, cont.

Result Summary

Key

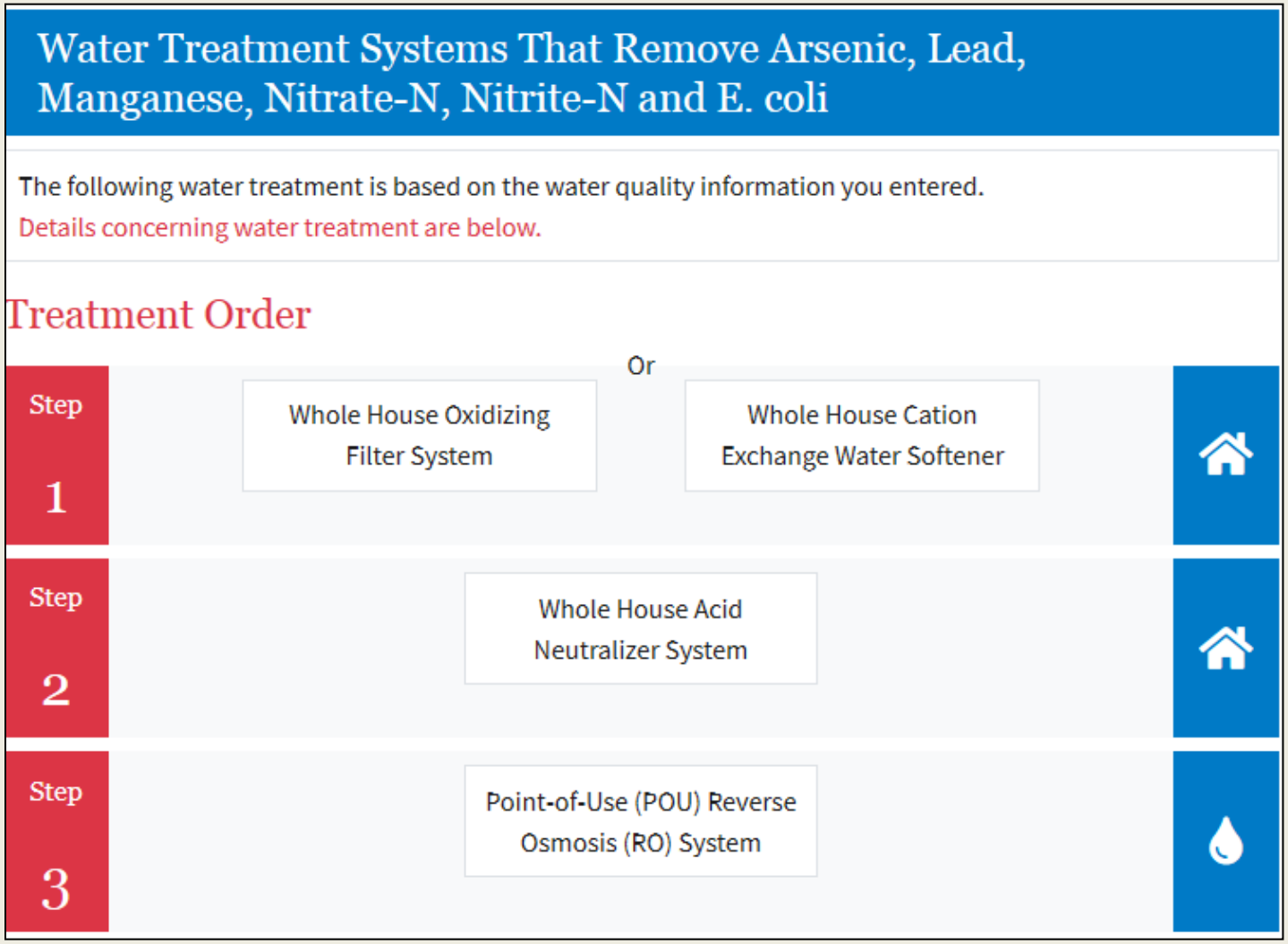
✓	Meets the Drinking Water Limit	!	Close to the Drinking Water Limit
✗	Above the Drinking Water Limit	●	Consult Additional Message in the Results Details

Results	Element	Your Entry	Limit	About Your Well Water
✗	Arsenic	0.02 mg/L	0.010 mg/L	The value entered exceeds the drinking water standard
✗	Lead	0.02 mg/L	0.015 mg/L	The value entered exceeds the drinking water action level
✗	Manganese	0.4 mg/L	0.3 mg/L	The value entered exceeds the health based drinking water guideline

Example BWI Report, cont.

✗	Nitrate-N	11 mg/L	10 mg/L	The value of nitrate or total nitrogen (nitrate + nitrite) entered exceeds the drinking water standard. YOUR WATER IS NOT SAFE FOR BABIES UNDER SIX MONTHS OLD TO CONSUME.
✗	Nitrite-N	2 mg/L	1 mg/L	The value entered exceeds the drinking water standard. YOUR WATER IS NOT SAFE FOR BABIES UNDER SIX MONTHS OLD TO CONSUME.
✗	E. coli	1 CFU/100 mL	0 CFU/100 mL or Absent	The value entered exceeds the drinking water standard. YOUR WATER IS NOT SAFE TO CONSUME .

Example BWI Report, cont.



Example BWI Report, cont.

Result Details

Key

✔	Meets the Drinking Water Limit	!	Close to the Drinking Water Limit
✖	Above the Drinking Water Limit	●	Consult Additional Message in the Results Details

Results	Element	Your Entry	Limit	About Your Well Water
✖	Arsenic	0.02 mg/L	0.010 mg/L	The value entered exceeds the drinking water standard

Interpretation of Results:

Does my well water meet the drinking water standard for arsenic ? No, your water does not meet federal and state drinking water standards for public water systems as it contains more than 0.010 mg/L of arsenic.

Health Concerns:

Can consuming water containing arsenic affect my health? Consuming water containing more than 0.010 mg/L of arsenic is associated with an increased risk of cancer of the skin, bladder, lungs, kidneys, nasal passages, liver, or prostate as well as diseases of the nerves, lungs, heart, and immune and endocrine (hormonal) systems. Your individual health risk depends on the amount of arsenic in your water, how much of the water you drink each day, and the number of years you drink the water. To reduce your exposure to arsenic in your well water, treat the water that you use for drinking and cooking to a level less than 0.010 mg/L. You can continue to use your water for washing food and dishes, brushing your teeth, bathing, showering, and for other uses.

MassDEP

Example BWI Report, cont.

Treatment Options:

How can I reduce the level of arsenic in my water? Install one of the following water treatment systems to reduce the level of arsenic in your water. Your choice of treatment system could change, or the long-term performance of the system could be negatively affected, depending on the level of iron in your water; however, you did not provide test results for iron.

1. An NSF/ANSI Standard 53 certified arsenic adsorption media filter system. This system may be a point-of-use (POU) system at your kitchen sink designed to treat only the water that you consume, or it may be a whole house system.

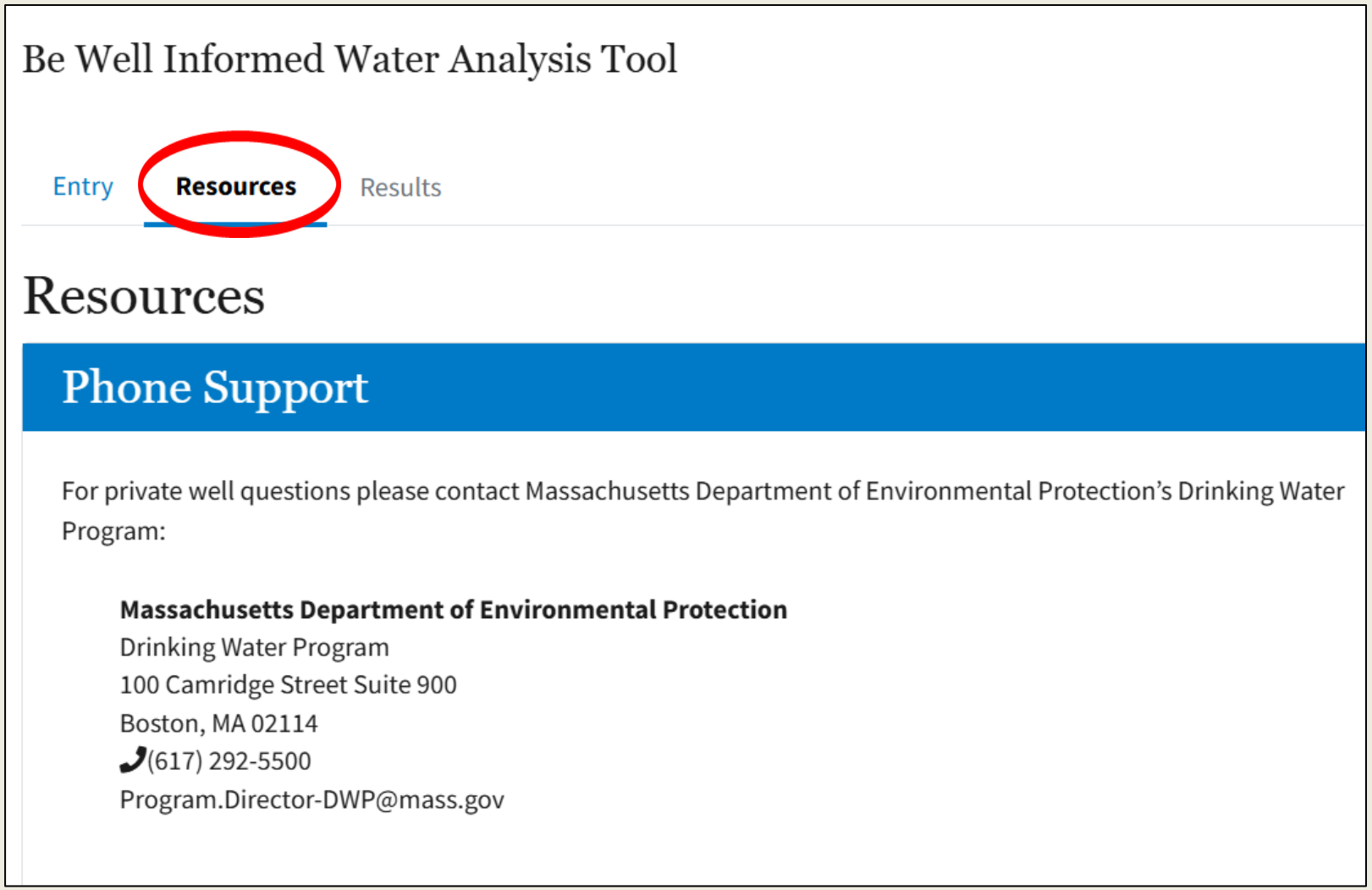
   OR

2. An NSF/ANSI Standard 58 certified point-of-use (POU) reverse osmosis (RO) system at your kitchen sink designed to treat only the water that you consume.

If your arsenic level is 0.025 mg/L or more, request an “arsenic speciation test” from your laboratory to ensure that the treatment method being considered results in the best possible reduction of arsenic. More information about treatment for arsenic can be found by selecting "arsenic" in MassDEP's Contaminants information web page .

Massachusetts regulations prohibit the on-site discharge of regeneration brine solutions from anion exchange systems that are designed to remove arsenic from water. If you decide to use an anion exchange system you may only do so if the anion exchange filter media vessel is either exchanged with a vessel containing fresh filter media, with the spent filter media being sent off-site for proper off-site regeneration/disposal, or the regeneration brine solution is temporarily held in

Resources


Be Well Informed Water Analysis Tool
Entry
Resources
Results
Resources
Phone Support
For private well questions please contact Massachusetts Department of Environmental Protection's Drinking Water Program:
Massachusetts Department of Environmental Protection
Drinking Water Program
100 Camridge Street Suite 900
Boston, MA 02114
(617) 292-5500
Program.Director-DWP@mass.gov

Resources, cont.

Additional Resources

Centers for Disease Control and Prevention
https://www.cdc.gov
1600 Clifton Rd
Atlanta, GA 30329
800-CDC-INFO (800-232-4636)
TTY: (888) 232-6348
Contact CDC–INFO:
https://wwwn.cdc.gov/dcs/ContactUs/Form

EPA (Environmental Protection Agency):
Inquiries specific to groundwater and drinking water can be submitted to an information specialist through the EPA Safe Drinking Water Hotline at 1-800-426-4791
https://www.epa.gov/ground-water-and-drinking-water/forms/online-form-epas-office-ground-water-and-drinking-water

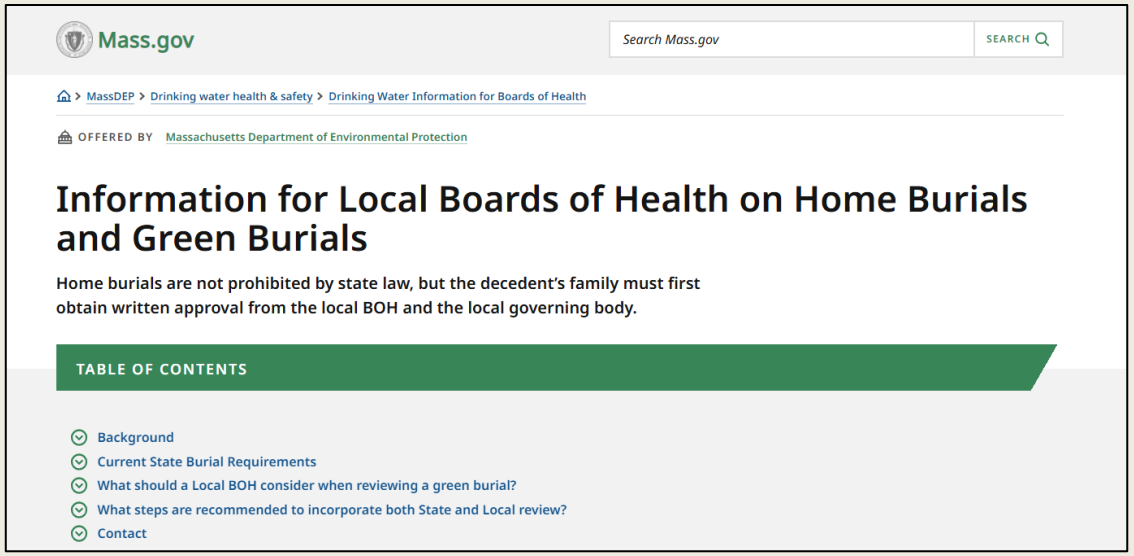
MassDEP's Home and Green Burial Fact Sheet

- References applicable laws and regulations
- MassDEP's role in approving proposed burial plots
- Lists recommended setback distances from private wells
- https://www.mass.gov/info-details/information-for-local-boards-of-health-on-home-burials-and-green-burials

QR Code for Home and Green Burial Fact Sheet

Pending Changes to Fact Sheet

- Fact sheet will be revised to apply to all types of burial plots, including home, green, and conventional cemeteries



- Removal of text implying home burial plots might be regulated differently from conventional cemeteries

MassDEP Plan Approval

- Massachusetts General Law Chapter 114, Section 35: unless the property was approved for burial prior to 1908, that land that is situated so that surface water or ground drainage enters a pond, stream, well, filter gallery, public water supply, or tributary source cannot be used for burial purposes unless MassDEP has given written approval to the plan.

- Public water system source setbacks requirements pursuant to the Massachusetts Drinking Water Regulations apply to conventional burials and green burials.

Joe Cerutti: 781-465-4123 or joseph.cerutti@mass.gov

Title 5 Viewer

Be Well Informed

Well Location Viewer

Home/Green Burials

Title 5 Data Viewer:
https://experience.arcgis.com/experience/79989f3c752b47f885c425a480725c14

Well Location Viewer:
https://mass-eoeea.maps.arcgis.com/apps/webappviewer/index.html?id=cdd11842864942178b71f2c7bd5a0b95

Be Well Informed:
https://bewellinformed.info/workbench

Home/Green Burials:
https://www.mass.gov/info-details/information-for-local-boards-of-health-on-home-burials-and-green-burials