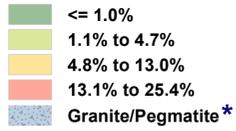


# Projected Bedrock Water Quality

## ESSEX

### Uranium Probability

% Probability of Exceeding the Public Drinking Water Standard of 30 micrograms per liter (30 PPB)



City/Town Statistics	Acres	Percent
<= 1.0%	0	0
1.1% to 4.7%	0	0
4.8% to 13.0%	0	0
13.1% to 25.4%	0	0
Granite/Pegmatite*	7665.9	85
No Data	1349.4	15
<b>Total</b>	<b>9015.3</b>	

\* Areas mapped as granite and pegmatite are located outside of the USGS SIR 2011-5013 study area. Although no precise uranium probability values exist for these bedrock units, these types of bedrock generally have an increased probability of containing naturally occurring radionuclides such as radium, uranium, or radon in well water at concentrations exceeding public drinking water limits.



Massachusetts Department of Environmental Protection



Deval Patrick  
Governor  
Richard K. Sullivan Jr.  
Secretary of Energy and Environmental Affairs

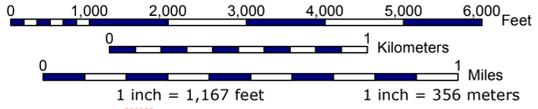
#### MAP LEGEND

- Reservoir
- Pond, Lake or Ocean
- Fresh Water Wetlands
- Cranberry Bog
- Salt Water Wetlands
- Perennial Stream, Shoreline
- Intermittent Stream
- Intermittent Shoreline
- Ditch/Canal
- Aqueduct
- Dam
- Active Rail Lines
- Pipeline
- Powerline
- Limited Access Highway
- Multi-lane Hwy, Not Limited Access
- Other Numbered Highway
- Major Road, Collector
- Minor Road, Ramp
- MA Town Boundary
- MA Interstate Boundary
- County Boundaries
- DEP Region Boundary
- Local Police Station
- State Police Station
- County Sheriff Station
- Fire Stations
- Town Halls
- Libraries
- Public School
- Private School
- Charter School
- Collaborative Program School
- Special Education School
- Private College
- Public College
- Hospital with ER
- Hospital
- Rest Home
- Prisons
- Airports
- MBTA Station
- Seaports
- Camp
- Campground
- Cemetery
- Convention Center
- Court House
- Field - Playground
- Fish Hatchery
- Golf Course
- Industrial Park
- Lighthouse
- Marina
- Monument
- Museum
- Park
- Pier - Wharf
- Places of Worship
- Post Office
- Public Pool
- Shopping Center
- Ski Area
- Sports Facility
- Theater
- Tower



Mass StatePlane NAD83 Coordinates shown in RED

Map Scale 1:14000



#### Map Location



ESSEX FALLS WITHIN THE MassDEP NORTHEAST REGION

This map is for illustrative purposes only. It represents the best statewide data available at the date of printing. There are other important natural resources that are not shown on this map because the digital spatial data do not exist.

#### DATA SOURCES

**HYDROGRAPHY:** USGS MassGIS, 1:25,000 or less. Hydrography from the USGS National Hydrography Database except within public water supply watersheds where the resolution is approximately 1:10,000.  
**TOPOGRAPHIC BOUNDARIES:** MassGIS, 1:5,000. 3 Meter contour elevations generated from digital ortho DTMs.  
**POLITICAL BOUNDARIES:** MassGIS. This political boundary database has been created from latitude and longitude coordinates found in the 48 volume Harbor and Lands Commission Town Boundary files.  
**ROADS:** Mass Department of Transportation 1:5000. Road centerlines aligned with 1:5000 OrthoPhotos. Attributes from DOT roads database.  
**TRAINS AND TRANSLINES:** Mass Department of Transportation 1:5000. Right-of-Way and Powerlines @ 1:25,000.  
**GEOGRAPHIC FEATURES:** USGS/MassDEP USGS Geographic Names Information System (GNIS) features matched to parcel data or orthophoto. Hydrography names taken from HFD features and placed using Maplex.  
**WETLANDS:** USGS Resource Mapping Project/USGS/MassDEP/MassGIS. Source Scale 1:12,000 to 1:40,000. Wetland information shown on this map consists of several wetlands datasets, including DEP Orthophoto Wetlands (1:12,000) and USGS Hydrology wetlands (1:25,000).  
**Map Created March, 2011**

