



Legend

Wells with Static Water Level Data

(Labels = SWL Elevation)

- Bedrock Well (Kim, 2017a) (n = 105)
- Town Boundary
- Study Area

Generalized GIS Outputs
derived from raster contouring of well data

- Static Water Level Contours (50 ft Interval)
- Static Water Level (ft)
High : 996
Low : 501

This map was produced at a scale of 1:12,000 and is designed to show general static water levels for the entire Bennington field area. It is not suitable for any detailed evaluation of the Bennington landfill area, for which McLaren-Hart (1997) should be consulted.

This map includes a Static Water Level Elevation raster and contours (50 ft) derived from the Static Water Level data in the (Kim, 2017a) database. Only wells with Static Water Level data were included in the interpolation, and where GL_SWL data was available this was used instead of DL_SWL. IDW parameters: Output cell size = 2, Power = 2, Search radius = variable, Number of points = 12. The resulting raster was smoothed using the FOCAL STATISTICS tool. FOCAL STATISTICS parameters: Neighborhood = Circle, Radius = 50 cell units, Statistics type = Mean. The Static Water Level contours were constructed using the CONTOUR tool with a 50 foot contour interval. Some contours were hand edited to more accurately portray water well data.

Software: ArcGIS10.3.1, Spatial Analyst Tools 10.3.1
Coordinate System = NAD 1983 StatePlane Vermont FIPS 4400 (m)

References:

DeSimone, D. J., 2017, Surficial Geology of the Bennington area, Vermont: Vermont Geological Survey Open-File Report VG2017-1, Plates 1 - 3, scale 1:12,000.

Kim, J. J., 2017a, "DRAFT Bennington correlated well logs, J. Kim, VT Geo. Survey 2-09-17", Unpublished, Data derived from anrweb.vt.gov/DEC/WellDrillerReports/Default.aspx and other sources.

Kim, J. J., 2017b, DRAFT Preliminary Bedrock Geologic Map of the Bennington area, Vermont: Vermont Geological Survey Open-File Report VG2017-4, 1 sheet, scale 1:12,000.

McLaren-Hart Environmental Engineering Corp., 1997, Final Draft, Remedial Investigation Report, Bennington Landfill Site, Bennington Vermont: Submitted to U. S. EPA Region 1, 483 p.

Potter, D.B., 1971, Stratigraphy and structure of the Hoosic Falls area, New York-Vermont, east-central Taconics: New York State Museum and Science Service Map and Chart Series, no. 19, 71 p., scale 1:24,000.

Vermont Center for Geographic Information, 2012, VT Lidar Hydro-flattened DEM (2 meter) - 2012 - Bennington. Accessed 01/2017 from <http://geodata.vermont.gov/>.

N

1:12,000

0

0.25

0.5

1

Kilometers

0

0.25

0.5

1

Miles

Preliminary Potentiometric Surface (Static Water Level) Contours for the
Bedrock Aquifer in the Bennington Area, Vermont (feet, smoothed)

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