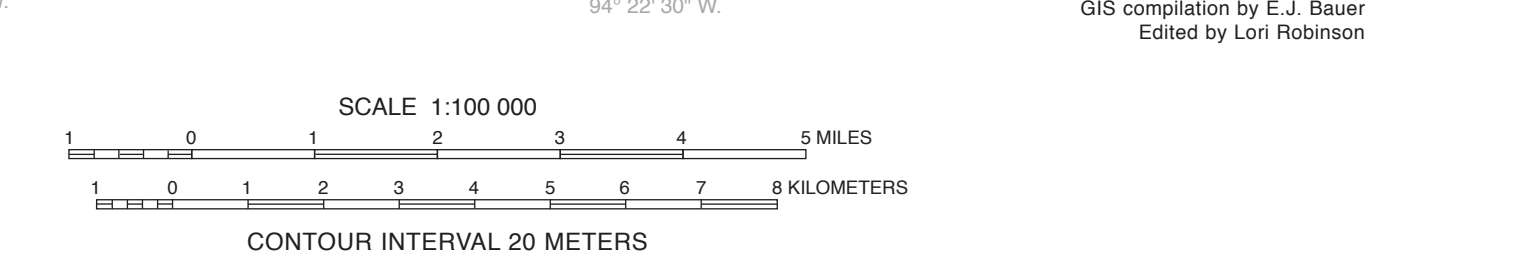
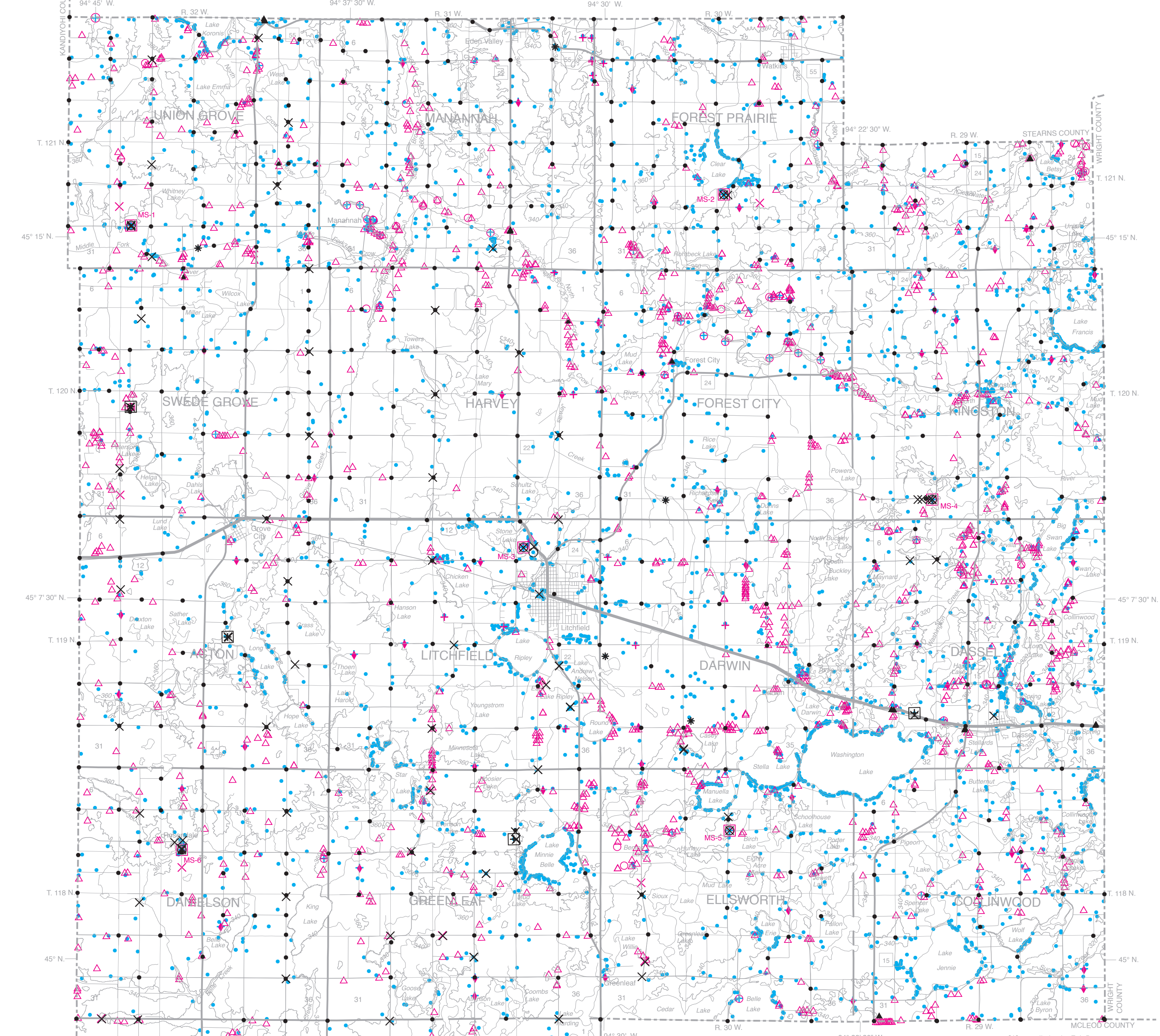
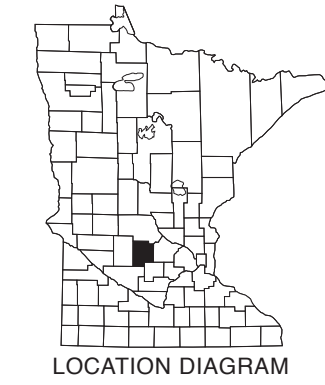


DATA-BASE MAP

By
Emily J. Bauer and V.W. Chandler

2015



MAP SYMBOLS

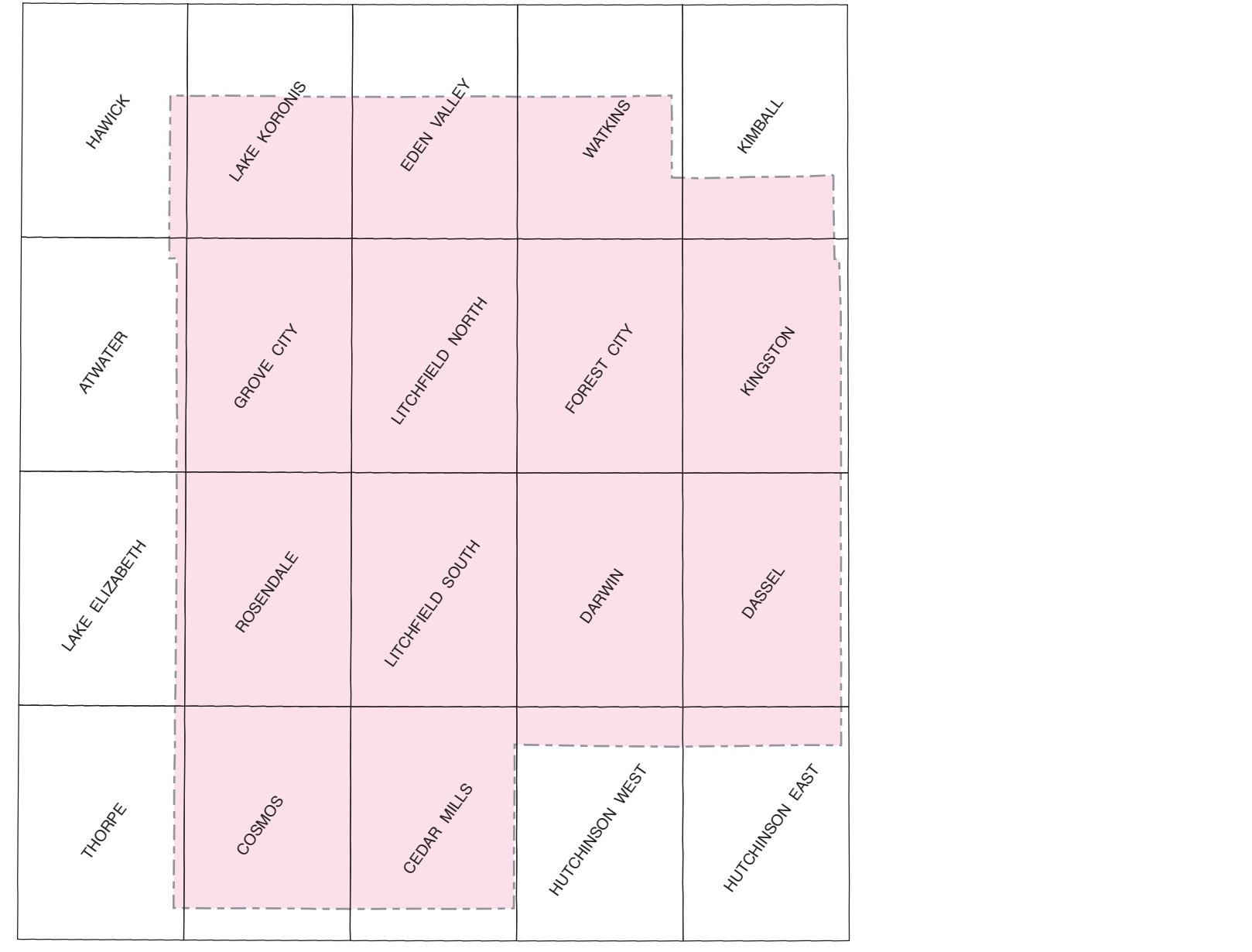
- Record of water-well construction (well driller's log)
 - ⊕ Scientific investigation hole
 - ⊕ Exploratory boring (exploration hole)
 - Diamond drill core sample
 - ⊕ Rotary-sonic core sample
 - ⊕ Cutting sample
 - ⊕ Boroscope geophysical log
 - ⊕ Soil boring
 - ⊕ Giddings probe hole
 - ⊕ Field site
 - ⊕ Textural analysis
 - ⊕ Gravity data
 - ⊕ Passive seismic sounding
 - ⊕ Active seismic refraction sounding
 - ⊕ Aggregate resources site
- Note: More than one symbol can occur at the same location.

Digital base modified from the Minnesota Department of Transportation (BaseMap) data; digital base annotation by the Minnesota Geological Survey.
Elevation contours were derived from the U.S. Geological Survey 30-meter Digital Elevation Model (DEM) by the Minnesota Geological Survey.
Universal Transverse Mercator Projection, grid zone 15 1983 North American Datum

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SAND	GREEN	313	330	17	797	780	sand-green	Sand																																																																																																																																																																																																																																																	

Figure 2. Example of a WELL STRATIGRAPHY record, which contains a geologist's interpretation of the geologic materials listed by the driller in the WELL LOG record (Fig. 1). Additional downhole information for this well (as noted in the Interpretation Method on the record above) controls the geologist's interpretation, which may not match the driller's description of the geologic material penetrated.



Every reasonable effort has been made to ensure the accuracy of the factual data on which this map interpretation is based; however, the Minnesota Geological Survey does not warrant or guarantee that there are no errors. Users may wish to verify critical information, sources include both the references listed here and information on file at the offices of the Minnesota Geological Survey in St. Paul. In addition, effort has been made to ensure that the interpretation conforms to sound geologic and cartographic principles. No claim is made that the interpretation shown is 100 percent correct, however, and it should not be used to guide engineering-scale decisions without site-specific verification.