

National Ground-Water Monitoring Network Tip Sheet on Minimum Data Requirements for Candidate sites

A minimum set of data elements are listed in the NGWMN Framework Document. Some are fields are stored in agency databases and others are entered directly into a table in the Portal database that contains site information called the 'Well Registry'. In the list of data elements, the parenthesis after the field specifies where the data reside.

- (R) Populated in NGWMN Well Registry
- (C) Construction database, linked to using web services
- (WL) Water-Level database, linked to using web services
- (WQ) Water-quality database, linked to using web services or from EPA Storet
- (L) Lithology database, linked to using web services

All Sites

- Name of Agency that collects data (R)
- Site Number (R,C, WL, WQ, L) –This is the database key
- Site Name (R) (reviewed so that no Personally Identifiable Information (PII) is present)
- Country (R)
- State (R)
- County (R)
- Latitude and Longitude with Metadata
 - Latitude (decimal degrees) (R)
 - Longitude (decimal degrees) (R)
 - Horizontal Datum (R)
 - Horizontal Location method (R)
 - Horizontal Location Accuracy (R)
- National Aquifer Code (R)
- Local Aquifer Code (R)
- Type of site; Well/Spring (R)
- Confinement Status; Confined/unconfined (R)
- Lithology (L)
 - Lithology ID (L)
 - Description of Lithology of the unit (L)
 - Observation Method (L)
 - Beginning depth of lithologic unit (L)
 - Ending depth of lithologic unit (L)

- Well Construction Information
 - Well Depth (R)
 - Well Depth Units (R)
 - Beginning depth of Screen interval (C)
 - Beginning depth of Screen interval (C)
 - Screen depth unit of measure (C)
 - Screen interval material(C)
 - Casing interval (C)
 - Casing depth unit of measure (C)
 - Casing material (C)

Water-level Sites

- Land surface altitude with Metadata (R)
 - Land Surface Altitude (R)
 - Vertical Datum (R)
 - Altitude Units (R)
 - Altitude Accuracy (R)
 - Method of altitude measurement (R)
- Water-Level data
 - Date/Time of water-level measurement (WL)
 - Depth to Water (WL)
 - Water-level units (WL)
 - Method of water-level measurement (WL)
 - Accuracy of water-level measurement (WL)

Water-Quality Sites

- Water-Quality data
 - Date/Time of sample (WQ)
 - Analyte Name (WQ)
 - Analyte value (WQ)
 - Parameter unit (WQ)
 - Sample Fraction (WQ)
 - Detection Limit (WQ)
 - Detection Limit Unit (WQ)
 - Method (WQ)
 - Analytical Method System (WQ)

Reference

Subcommittee on Ground Water of the Advisory Committee on Water Information, 2009 (revised 2013), A national framework for ground water monitoring in the United States: Advisory Committee on Water Information, accessed October 23, 2013, at

http://acwi.gov/sogw/ngwmn_framework_report_july2013.pdf.