



SMA Principal Leads Development of an ASTM Standard Guide for Testing of Residential and Commercial Water Supply Wells

Recognizing a need to better evaluate the potential impact from Exploration and Production operations, including hydraulic fracturing, ASTM has developed and published a new Standard Guide (D8006-16) titled "Standard Guide for Sampling and Analysis of Residential and Commercial Water Supply Wells in Areas of Exploration and Production (E&P) Operations."

This Standard Guide was developed by ASTM Subcommittee D18-6 on hydraulic fracturing, headed by Hank Mittelhauser, a Principal at St. John - Mittelhauser & Associates, Inc. (SMA). Dr. Mittelhauser, who has spent the last 30 years developing protocols for investigating releases of chemicals to the subsurface, worked with a committee of experts from the oil and gas industry, the USEPA and other regulatory agencies, and academia to develop the Standard Guide. Dr. Mittelhauser believes that the numerous incidents of alleged contamination of residential and commercial drinking water wells demonstrates the need to gather baseline and periodic additional water quality data to allow for scientifically valid evaluations of whether E&P operations are impacting drinking water quality.

The new ASTM Standard Guide provides information on typical residential supply well systems as well as direction on how to develop and implement a sampling program, including:

- Determining sampling locations;
- Evaluation of well conditions and water supply systems;
- Suggested purging techniques;
- Recommended analyses and test methods;
- Qualifications of the sampling team;
- Recommended testing laboratory certifications;
- Data management and integrity; and
- Guidance on property damage prevention and personal safety.

To discuss the content of the Standard Guide, please contact Hank at 630-885-4548, or e-mail him at HankM@st-ma.com. To purchase this standard, visit www.astm.org and search by the standard designation, D8006-16.
