Hydrogen Sampling Wells

Technical Guidance from Microseeps

Sampling Questions?

Call
800-659-2887
Mon. - Fri.
9 -5 EST

Construction & Development of Hydrogen Sampling Wells

Well Construction

- Wells must be constructed of PVC or stainless steel.
- If depth to water table is >25 feet, a submersible pump instead of a peristaltic pump must be used.
- The inside diameter of the well must be large enough to readily accept whatever pump will be used.

Well Development

The purpose of monitoring well development is to ensure removal of fine sediments from the vicinity of the well screen to allow free flow of water from the formation into the well and to reduce turbidity. The most desirable method for well development is over-pumping.

- Pump well at a rate rapid enough to draw water level in well as low as possible.
- Allow well to recharge
- Repeat until sediment-free water is produced.

Development of a well should occur as soon as practical after well installation, but not sooner than 48 hours if the well is grouted.

The first non-hydrogen sampling can commence once the well has recharged from the development, but the well cannot produce a reliable hydrogen measurement until three months after installation. If this is problematic, consider developing a sampling plan in which hydrogen analysis is omitted from the first sampling event.